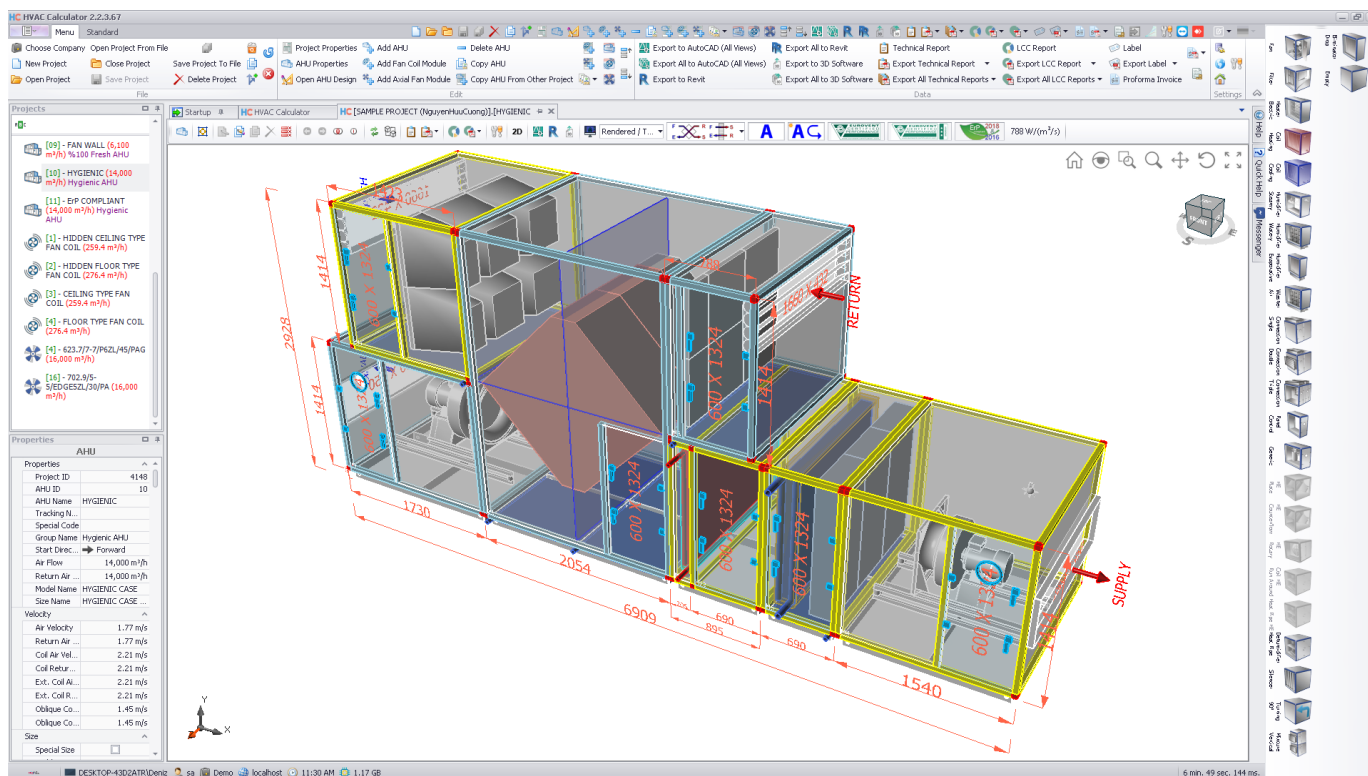


## 3D / 2D VECTORIAL DRAWING

You can design the AHU via 3D/2D design tool of the selection software. You can see all the surfaces of the AHU by the 3D/2D design tool. The drawing of the AHU on the screen is vectorial and all of the AHU selection can be exported to 3D/2D CAD softwares with many popular 3D/2D file formats. The drawing you see on your screen while designing the AHU and the drawing you will see in the 3D/2D CAD software will be the same. Users can export the 3D drawings as BIM (Building Information Modeling) file format. You can use exported files directly in Autodesk Revit via our own Autodesk Revit addin.

### 3D AHU DESIGN VIEW

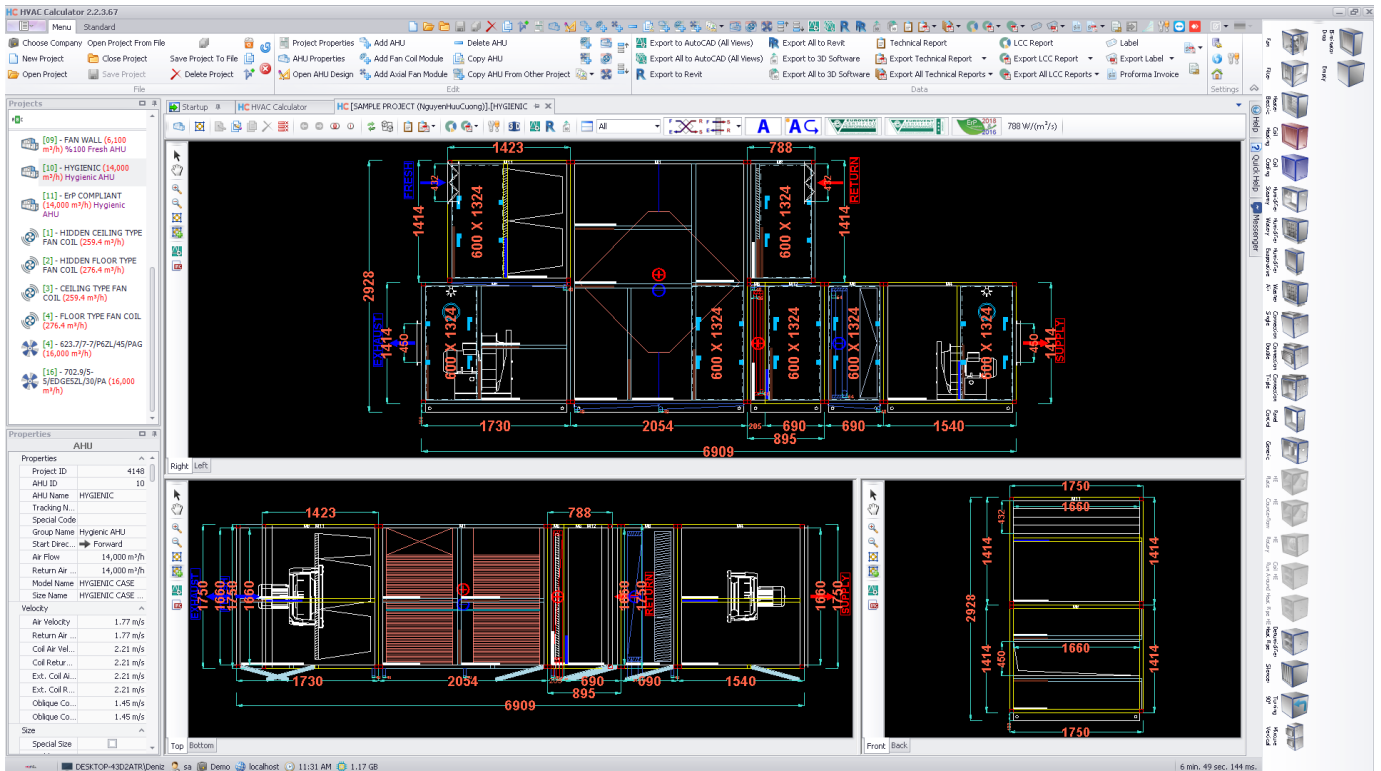


## BIM (BUILDING INFORMATION MODEL) / AUTODESK REVIT

You can effortlessly export the 3D drawings into the BIM (Building Information Modeling) file format, seamlessly integrating them with Autodesk Revit through our dedicated Autodesk Revit add-in.



## 2D AHU DESIGN VIEW



## EUROVENT AHU CERTIFICATE

Software is compliant for Eurovent AHU certificate. Many referenced companies have obtained Eurovent AHU certificate.



## EUROVENT HYGIENIC AHU CERTIFICATE

Software is compliant for Eurovent HYGIENIC AHU certificate. Some referenced companies have obtained Eurovent HYGIENIC AHU certificate.



## ENERGY-RELATED PRODUCTS (ErP) 2016 AND 2018 COMPLIANCE



"Energy-Related Products (ERP) compliance" refers to regulations set by the European Union (EU) regarding the energy efficiency of products. The regulations aim to reduce energy consumption, lower greenhouse gas emissions, and promote sustainable practices. The ERP Directive sets minimum energy efficiency standards for various products sold within the EU.

The ERP Directive has been updated over time, with significant revisions in 2016 and 2018. These updates typically include expanding the scope of products covered by the directive, tightening energy efficiency requirements, and aligning with advancements in technology and market trends.

When referring to "ERP 2016 and 2018 compliance," it likely means ensuring that products meet the energy efficiency standards set forth in the ERP Directive revisions of 2016 and 2018. Manufacturers and sellers must ensure that their products comply with these regulations to legally market and sell them within the EU.

Compliance may involve conducting energy efficiency tests, providing labeling indicating energy efficiency ratings, and adhering to specific requirements outlined in the ERP Directive. Failure to comply with these regulations can result in fines and other penalties for non-compliant businesses.

## EXPORTING TO AUTOCAD 2D

Software exports AHU drawing with all surfaces and all necessary technical informations of the AHU at the right side of the drawing. And there are 5 different export methods to export drawings to Autocad. These methods are;

1. With Internal Parts
2. Without Internal Parts
3. Only Profiles
4. Only Panels
5. Only Profiles and Panels

Supported 2D file export formats: DXF, DWG

## WITH INTERNAL PARTS





## WITHOUT INTERNAL PARTS



## ONLY PROFILES



## ONLY PANELS



## ONLY PROFILES AND PANELS



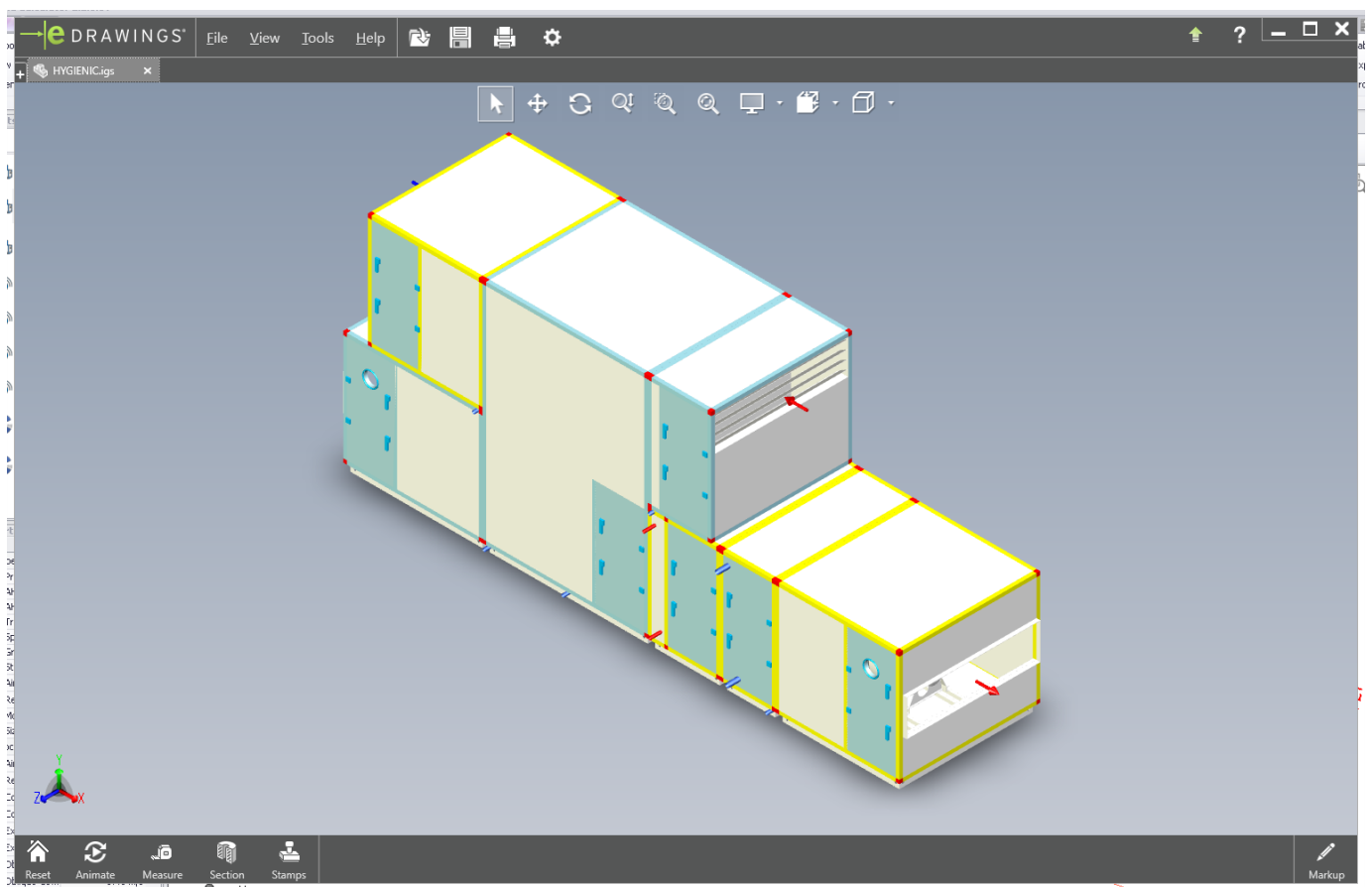
## EXPORTING TO 3D CAD SOFTWARE

There are 5 different export methods to export drawings to the 3D CAD software. These methods are;

1. With Internal Parts
2. Without Internal Parts
3. Only Profiles
4. Only Panels
5. Only Profiles and Panels

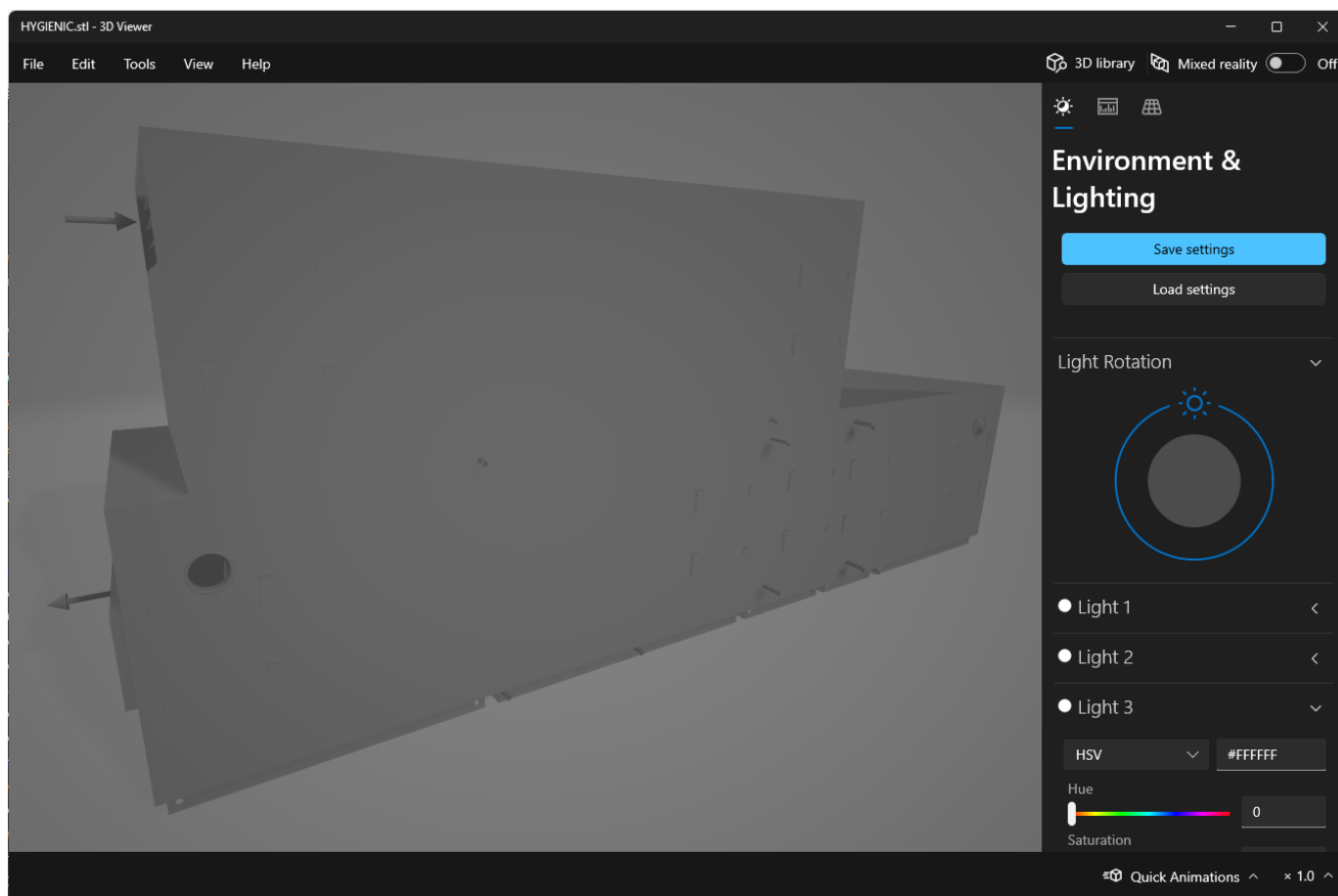
Supported 3D file export formats: IGS/IGES, STP/STEP, Stereolithography STL, WaveFront OBJ, WebGL HTML, DWG, DXF

### EXPORTED IGS FILE VIEW

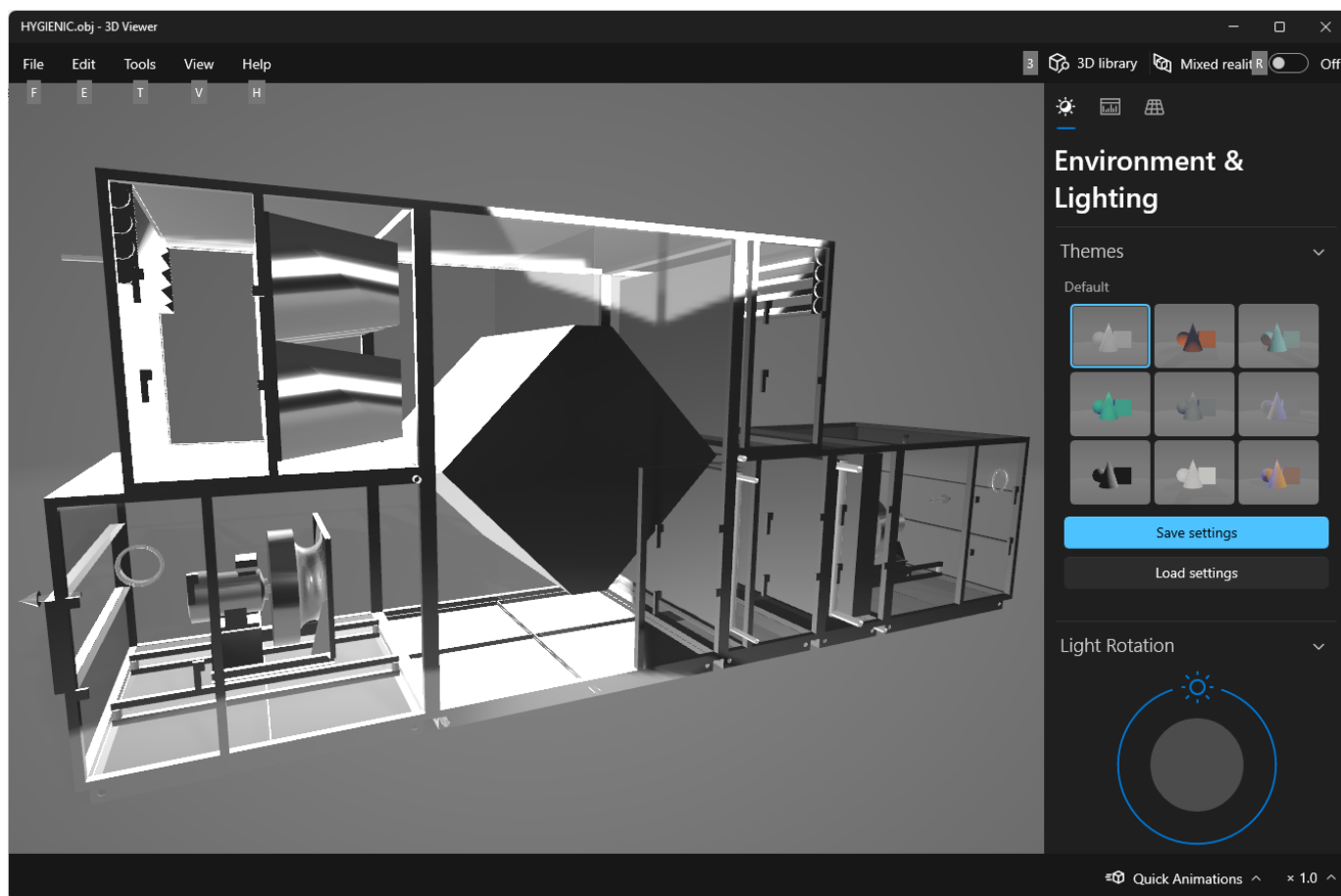




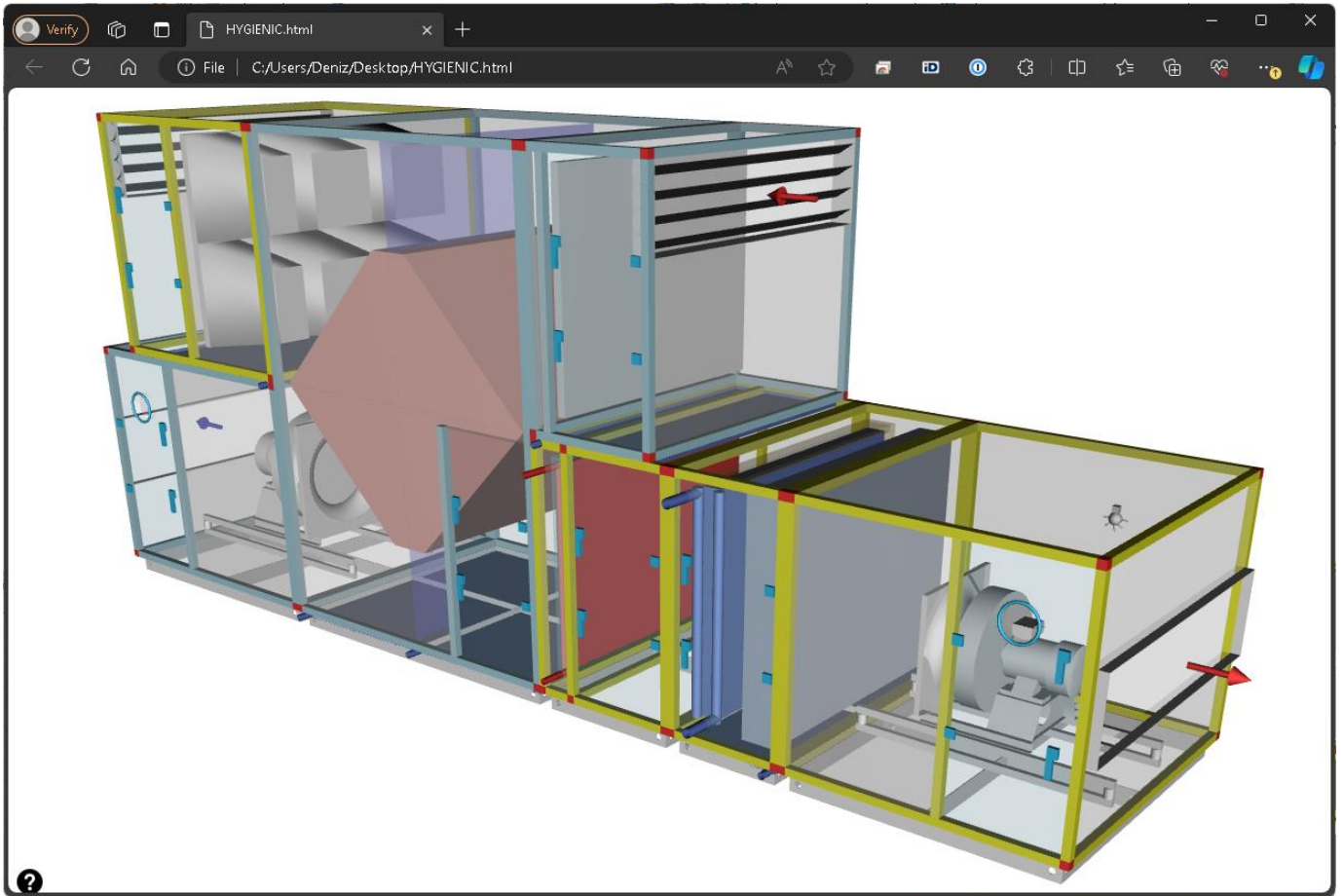
## EXPORTED STL FILE VIEW



## EXPORTED OBJ FILE VIEW



## EXPORTED WEBGL/HTML FILE VIEW



## EXPORTING AS BIM (BUILDING INFORMATION MODELING) FILE

You can export AHU design as IFC (Industry Foundation Classes) BIM (Building Information Modeling) file. You can use the exported IFC file in Autodesk Revit software and you can convert the IFC file native Autodesk Revit file via HVAC Calculator Autodesk Revit Addin. BIM file contains all the information about the AHU.

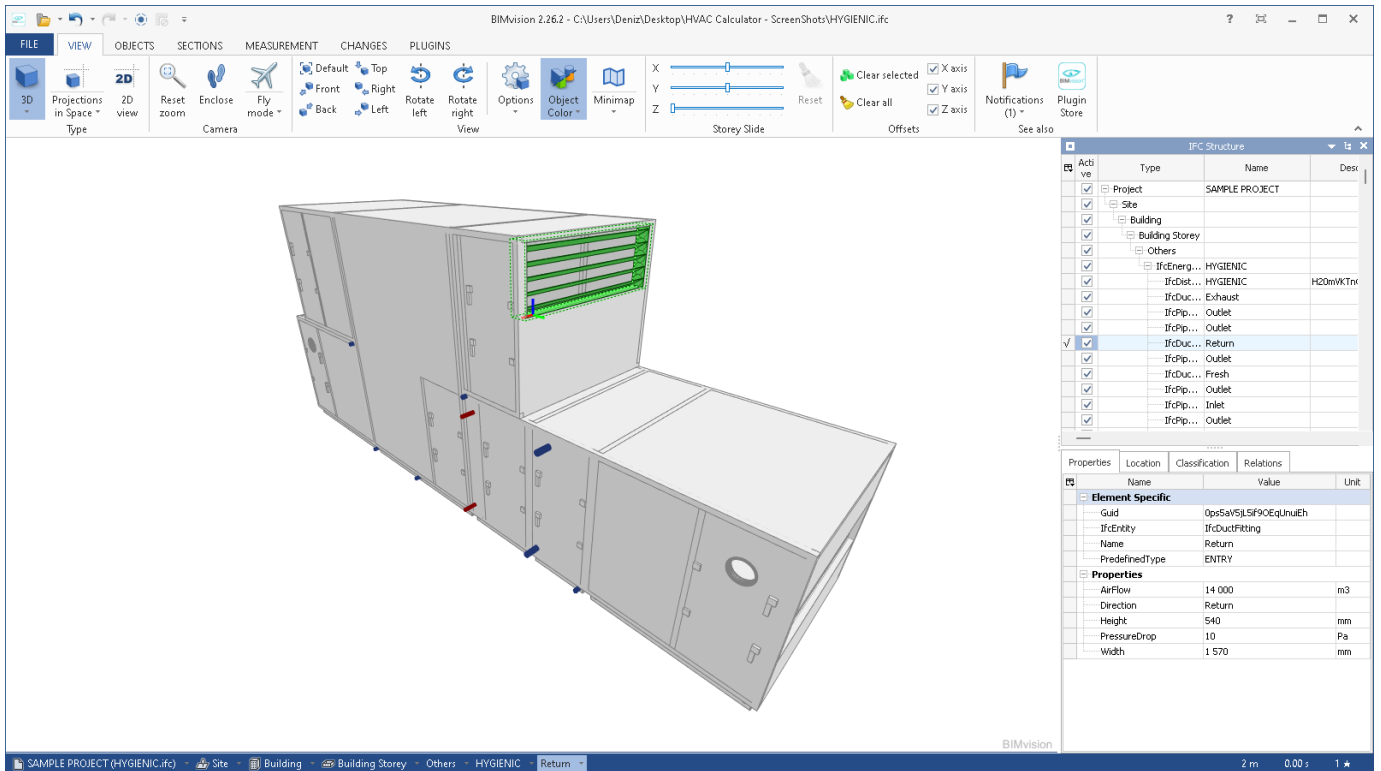
These informations are;

- Inlet / Outlet Air Connectors
- Inlet / Outlet Fluid Connectors
- Outdoor Air Condition
- Return Air Condition
- Air Flow
- Fluid Flow
- Heating Capacity
- Cooling Capacity
- Heat Exchanger Capacity
- Etc.

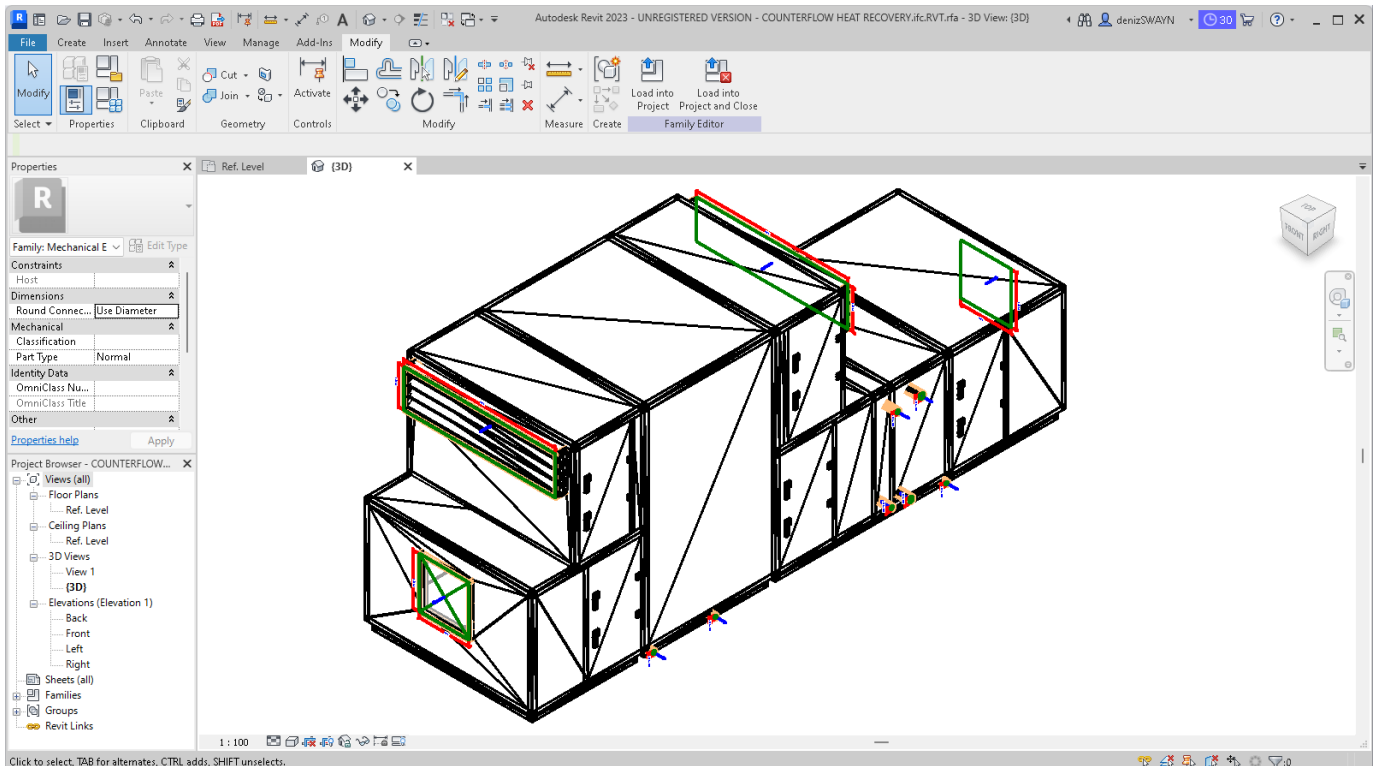
Autodesk Revit addins available for the editions below;

- Autodesk Revit 2017
- Autodesk Revit 2018
- Autodesk Revit 2019
- Autodesk Revit 2020
- Autodesk Revit 2021
- Autodesk Revit 2022
- Autodesk Revit 2023
- Autodesk Revit 2024

### EXPORTED IFC FILE VIEW



### AUTODESK REVIT





## AUTODESK REVIT FAMILY TYPE PARAMETERS

Family Types

Type name: COUNTERFLOW HEAT RECOVERY.ifc

Search parameters

Parameter	Value	Formula	Lock
(M3) - Filter - Width(2) (default)	610.0	=	<input type="checkbox"/>
(M8) - Filter - 1. Filter - Thickness (mm) (default)	48.0	=	<input type="checkbox"/>
(M8) - Filter - Height(1) (default)	610.0	=	<input type="checkbox"/>
(M8) - Filter - Height(2) (default)	305.0	=	<input type="checkbox"/>
(M8) - Filter - Width(1) (default)	610.0	=	<input type="checkbox"/>
(M8) - Filter - Width(2) (default)	610.0	=	<input type="checkbox"/>
Condensation Pan - Condensation Pan Connection	40.0	=	<input type="checkbox"/>
Connection Points - Fresh Air - Fresh Air - Height (d	432.0	=	<input type="checkbox"/>
Connection Points - Fresh Air - Fresh Air - Width (de	1720.0	=	<input type="checkbox"/>
Connection Points - Return Air - Return Air - Height	432.0	=	<input type="checkbox"/>
Connection Points - Return Air - Return Air - Width (	1720.0	=	<input type="checkbox"/>
Materials - Inside Sheet Thickness (mm) (default)	0.6	=	<input type="checkbox"/>
Materials - Insulation Thickness (mm) (default)	40.0	=	<input type="checkbox"/>
Materials - Outside Sheet Thickness (mm) (default)	0.6	=	<input type="checkbox"/>
Materials - Pedestal Height (mm) (default)	100.0	=	<input type="checkbox"/>
Size - Height (default)	1200.0	=	<input type="checkbox"/>
Size - Width (default)	1900.0	=	<input type="checkbox"/>
<b>Mechanical</b>			
(M1) - Counterflow Heat Exchanger - 1.Condensatio	0.50 L/min	=	<input type="checkbox"/>
(M1) - Counterflow Heat Exchanger - 2.Condensatio	0.98 L/min	=	<input type="checkbox"/>
(M5) - Heating Coil - Values - Fluid Flow (default)	51.44 L/min	=	<input type="checkbox"/>
(M6) - Cooling Coil - Condensation Pan Fluid Flow (	0.50 L/min	=	<input type="checkbox"/>
(M6) - Cooling Coil - Values - Fluid Flow (default)	163.32 L/min	=	<input type="checkbox"/>
<b>Mechanical - Flow</b>			
(M1) - Counterflow Heat Exchanger - Properties - Fr	14000.0000 m <sup>3</sup> /h	=	<input type="checkbox"/>
(M1) - Counterflow Heat Exchanger - Properties - Re	14000.0000 m <sup>3</sup> /h	=	<input type="checkbox"/>
(M11) - Filter - Properties - Air Flow (default)	14000.0000 m <sup>3</sup> /h	=	<input type="checkbox"/>
(M3) - Filter - Properties - Air Flow (default)	14000.0000 m <sup>3</sup> /h	=	<input type="checkbox"/>
(M4) - Fan - Properties - Air Flow (default)	14000.0000 m <sup>3</sup> /h	=	<input type="checkbox"/>
(M5) - Heating Coil - Entrance Air - Air Flow (default)	14000.0000 m <sup>3</sup> /h	=	<input type="checkbox"/>
(M6) - Cooling Coil - Entrance Air - Air Flow (default)	14000.0000 m <sup>3</sup> /h	=	<input type="checkbox"/>
(M8) - Filter - Properties - Air Flow (default)	14000.0000 m <sup>3</sup> /h	=	<input type="checkbox"/>
(M9) - Fan - Properties - Air Flow (default)	14000.0000 m <sup>3</sup> /h	=	<input type="checkbox"/>
Connection Points - Fresh Air - Fresh Air - Air Flow (	14000.0000 m <sup>3</sup> /h	=	<input type="checkbox"/>
Connection Points - Return Air - Return Air - Air Flo	14000.0000 m <sup>3</sup> /h	=	<input type="checkbox"/>
Properties - Air Flow (default)	14000.0000 m <sup>3</sup> /h	=	<input type="checkbox"/>
Properties - Return Air Flow (default)	14000.0000 m <sup>3</sup> /h	=	<input type="checkbox"/>

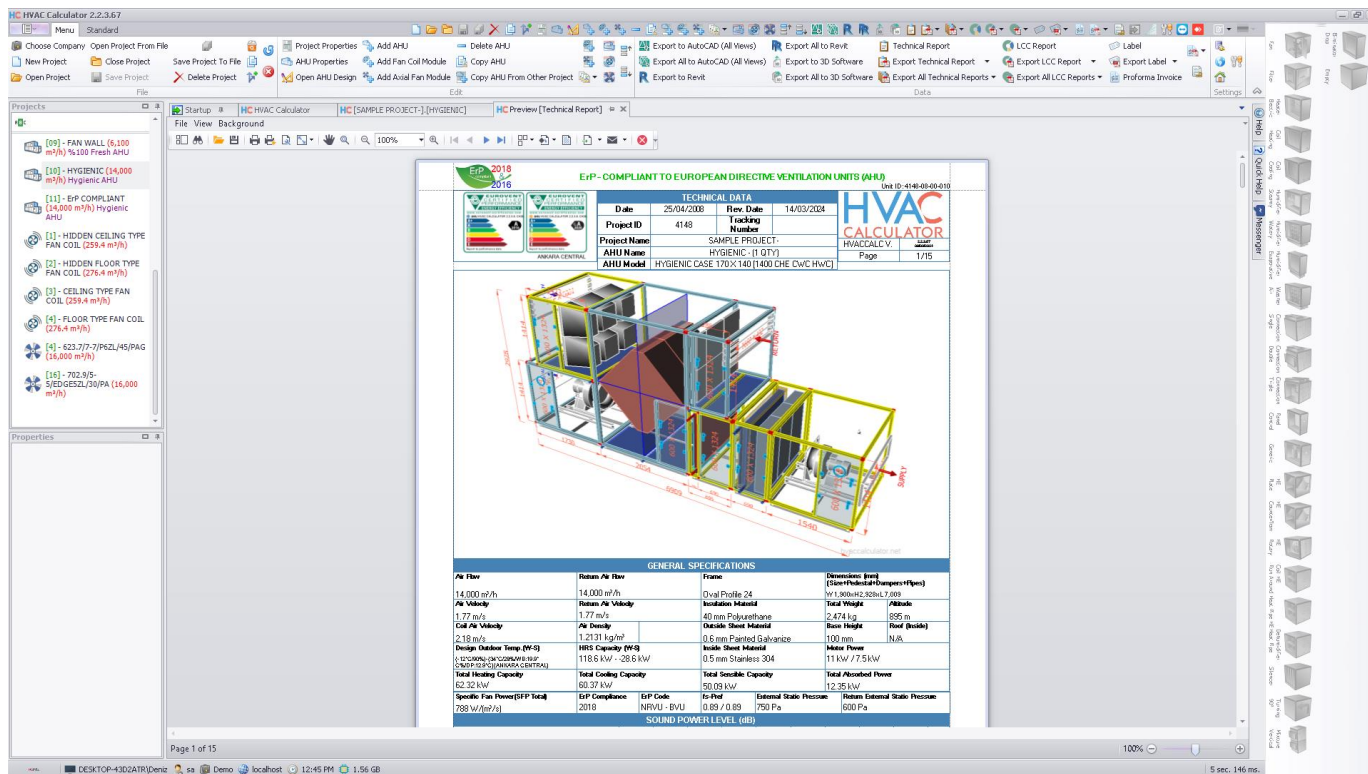
Manage Lookup Tables

OK Cancel Apply

How do I manage family types?

## TECHNICAL REPORT

You can obtain the technical report with your own logo and your own company information. You can export the technical report as PDF, Excel, Word or Html file formats. You can also send the file in that format via e-mail from the program.



### TECHNICAL REPORT PAGES

**ErP - COMPLIANT TO EUROPEAN DIRECTIVE VENTILATION UNITS (AHU)** (Unit ID: 4148-08-00-010)

**TECHNICAL DATA**

Date: 25/04/2018 Rev. Date: 14/03/2024

Project ID: 4148 Tracking Number: 4148

Project Name: SAMPLE PROJECT - HYGIENIC - (1 QTY)

AHU Name: HYGIENIC CASE 170X140 (1400 CHE CWC HWC)

AHU Model: HYGIENIC CASE 170X140 (1400 CHE CWC HWC)

Page: 1/15



**GENERAL SPECIFICATIONS**

Parameter	Value	Parameter	Value
Air Flow	14,000 m³/h	Return Air Flow	14,000 m³/h
Air Velocity	1.77 m/s	Return Air Velocity	1.77 m/s
Coil Air Velocity	2.18 m/s	Air Density	1.2131 kg/m³
Design Outdoor Temp. (W-S)	118.6 kW / -28.6 kW	HRS Capacity (W-S)	118.6 kW / -28.6 kW
Total Heating Capacity	62.32 kW	Total Cooling Capacity	60.37 kW
Specific Fan Power (SFP Total)	788 W/(m³/s)	ErP Compliance	NRVU - BVU

**SOUND POWER LEVEL (dB)**

Frequency Hz	125	250	500	1000	2000	4000	8000	Leq A dB
Airborne Sound Power Level	70.1	74.1	63.3	57.2	50.5	47.8	34.7	67.6
Air Outlet Induct Sound Power Level	85.0	92.6	96.4	94.7	89.6	88.5	82.8	98.7
Air Inlet Induct Sound Power Level	66.0	73.6	77.4	75.7	75.6	74.6	68.8	82.1
Return Air Outlet Induct Sound Power Level	89.1	101.1	94.3	91.2	84.5	84.8	76.7	97.1
Return Air Inlet Induct Sound Power Level	80.1	92.1	85.3	82.2	77.5	77.8	69.7	88.6

**MB MECHANICAL PROPERTY CLASSIFICATIONS**

Model	CS Class	CAL Class	FBL Class	TT Class	TBF Class	CASING ACOUSTICAL INSULATION (dB)
CASE	D1 (M)	L1 (M/L1) (M)	L1 (M/L1) (M)	P9 (M)	T2	19 27 31 34 34 37 42

Design: Cuong Nguyen Huu 14.03.2024 HVAC Calculator

**ErP - COMPLIANT TO EUROPEAN DIRECTIVE VENTILATION UNITS (AHU)** (Unit ID: 4148-08-00-010)

**TECHNICAL DATA**

Date: 25/04/2018 Rev. Date: 14/03/2024

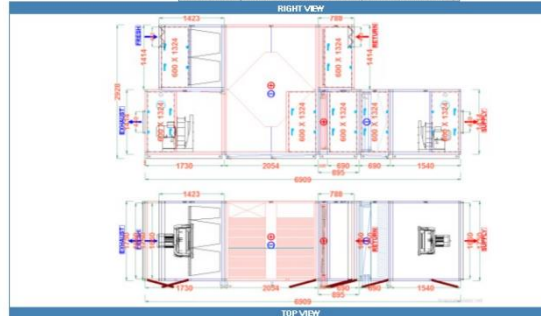
Project ID: 4148 Tracking Number: 4148

Project Name: SAMPLE PROJECT - HYGIENIC - (1 QTY)

AHU Name: HYGIENIC CASE 170X140 (1400 CHE CWC HWC)

AHU Model: HYGIENIC CASE 170X140 (1400 CHE CWC HWC)

Page: 1/15



**GENERAL SPECIFICATIONS**

Parameter	Value	Parameter	Value
Air Flow	14,000 m³/h	Return Air Flow	14,000 m³/h
Air Velocity	1.77 m/s	Return Air Velocity	1.77 m/s
Coil Air Velocity	2.18 m/s	Air Density	1.2131 kg/m³
Design Outdoor Temp. (W-S)	118.6 kW / -28.6 kW	HRS Capacity (W-S)	118.6 kW / -28.6 kW
Total Heating Capacity	62.32 kW	Total Cooling Capacity	60.37 kW
Specific Fan Power (SFP Total)	788 W/(m³/s)	ErP Compliance	NRVU - BVU

**SOUND POWER LEVEL (dB)**

Frequency Hz	125	250	500	1000	2000	4000	8000	Leq A dB
Airborne Sound Power Level	70.1	74.1	63.3	57.2	50.5	47.8	34.7	67.6
Air Outlet Induct Sound Power Level	85.0	92.6	96.4	94.7	89.6	88.5	82.8	98.7
Air Inlet Induct Sound Power Level	66.0	73.6	77.4	75.7	75.6	74.6	68.8	82.1
Return Air Outlet Induct Sound Power Level	89.1	101.1	94.3	91.2	84.5	84.8	76.7	97.1
Return Air Inlet Induct Sound Power Level	80.1	92.1	85.3	82.2	77.5	77.8	69.7	88.6

**MB MECHANICAL PROPERTY CLASSIFICATIONS**

Model	CS Class	CAL Class	FBL Class	TT Class	TBF Class	CASING ACOUSTICAL INSULATION (dB)
CASE	D1 (M)	L1 (M/L1) (M)	L1 (M/L1) (M)	P9 (M)	T2	19 27 31 34 34 37 42

Design: Cuong Nguyen Huu 14.03.2024 HVAC Calculator

**ErP - COMPLIANT TO EUROPEAN DIRECTIVE VENTILATION UNITS (AHU)** (Unit ID: 4148-08-00-010)

**TECHNICAL DATA**

Date: 25/04/2018 Rev. Date: 14/03/2024

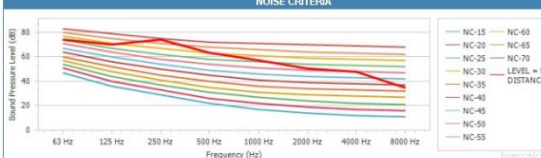
Project ID: 4148 Tracking Number: 4148

Project Name: SAMPLE PROJECT - HYGIENIC - (1 QTY)

AHU Name: HYGIENIC CASE 170X140 (1400 CHE CWC HWC)

AHU Model: HYGIENIC CASE 170X140 (1400 CHE CWC HWC)

Page: 2/15



**NOISE CRITERIA**

Negative Pressure Siphon (x5), Observation Glass (x2), Lighting (x2), Digital Manometer Pressure Gauge With Alarm (x3)

**ACCESSORIES**

**FRESH AIR CONNECTION**

Connection Type	Central Type	Pressure Drop
Gear Damper	Automatic (LM230ASR)	10 Pa

**SUPPLY CONNECTION**

Connection Type	Central Type	Pressure Drop
Flange	Automatic (LM230ASR)	0 Pa

**RETURN CONNECTION**

Connection Type	Central Type	Pressure Drop
Gear Damper	Automatic (LM230ASR)	10 Pa

**EXHAUST CONNECTION**

Connection Type	Central Type	Pressure Drop
Flange	Automatic (LM230ASR)	0 Pa

**FILTER (M8)**

Parameter	Value	Parameter	Value
Air Flow	14,000 m³/h	Condensation Pan	Stainless Steel (40 mm (ed))
Air Velocity	2.09 m/s	Hygienic	Yes
Size/Quantity/E/C	610x610x48/4/D	Spare Filter	Yes

Design: Cuong Nguyen Huu 14.03.2024 HVAC Calculator

**ErP - COMPLIANT TO EUROPEAN DIRECTIVE VENTILATION UNITS (AHU)** (Unit ID: 4148-08-00-010)

**TECHNICAL DATA**

Date: 25/04/2018 Rev. Date: 14/03/2024

Project ID: 4148 Tracking Number: 4148

Project Name: SAMPLE PROJECT - HYGIENIC - (1 QTY)

AHU Name: HYGIENIC CASE 170X140 (1400 CHE CWC HWC)

AHU Model: HYGIENIC CASE 170X140 (1400 CHE CWC HWC)

Page: 3/15

**DOORS (M8)**

1 Standard (Handle + Hinge) 600 mm x 1,324 mm Right Right Left

**ACCESSORIES (M8)**

Digital Manometer Pressure Gauge With Alarm, Negative Pressure Siphon

**COUNTERFLOW HEAT EXCHANGER (M1)**

Model	Manufacturer	Section Weight
Hoval GVC150/P1/1660/BSK329.62	1%	851 kg

**Water**

Parameter	Value	Parameter	Value
Air Flow	14,000 m³/h	Capacity	118.6 kW
Air Vel.	2.4 m/s	Summer	-28.6 kW

**Winter**

Parameter	Value	Parameter	Value
Eff.	83%	Brake (°)	74%
Brake (°)	74%	Brake (°)	74%

**Summer**

Parameter	Value	Parameter	Value
Eff.	83%	Brake (°)	74%
Brake (°)	74%	Brake (°)	74%

**Winter**

Parameter	Value	Parameter	Value
Eff.	83%	Brake (°)	74%
Brake (°)	74%	Brake (°)	74%

**Summer**

Parameter	Value	Parameter	Value
Eff.	83%	Brake (°)	74%
Brake (°)	74%	Brake (°)	74%

**Condensation Pan**

Stainless Steel (40 mm (ed)) (Connection Right) (Pressure Negative)

1,864-1,140-246-11-466-1,632

Efficiency at balanced flow

**DOORS (M1)**

1 Standard (Handle + Hinge) 600 mm x 1,324 mm Right Right Right

Design: Cuong Nguyen Huu 14.03.2024 HVAC Calculator



### TECHNICAL REPORT PAGES

**ErP - COMPLIANT TO EUROPEAN DIRECTIVE VENTILATION UNITS (AHU)** Unit ID: 4148-08-00-010

**TECHNICAL DATA**  
Date: 25/04/2018 Rev. Date: 14/03/2024  
Project ID: 4148 Tracking Number: 4148  
Project Name: SAMPLE PROJECT - HYGIENIC - (1 QTY)  
AHU Name: HYGIENIC CASE 170X140 (1400 CHE CWC HW/C)  
AHU Model: HYGIENIC CASE 170X140 (1400 CHE CWC HW/C)  
Page: 4/15

**ACCESSORIES (M1)**

**EXHAUST FAN (M9)**

Parameter	Value
Air Flow	14,000 m³/h
Motor Type	AC
Motor P/Pho/AAK/Req.	7.5 kW/3P/400V/50Hz
Internal Static Pressure	394 Pa
External Static Pressure	600 Pa
Total Static Pressure	994 Pa
Total Pressure - System Effect	994 Pa
Total / Static Efficiency	72.99 / 72.99 %
Shaft Power / Absorbed Power	5.3 / 5.3 kW
Fan Speed	1921 rpm (Max. 2070 rpm)
Air Density	1.256 kg/m³
Specific Fan Power (SFP) (W/m³)	399 W/(m³/s)
Electrical Current	7.64 A (Max. 10.83 A)

**Sound Power Level (dB)**

Hz	63	125	250	500	1000	2000	4000	8000	Ln(A) at
Outlet Side	93.1	89.1	101.1	94.3	91.2	84.5	84.8	76.7	97.2 dBA
Inlet Side	93.1	89.1	101.1	94.3	91.2	84.5	84.8	76.7	97.2 dBA

\* The fan system effect is taken into account in the fan performance  
\* The fan calculated for wet conditions

**DOORS (M9)**

ID Type	Size	Position	Hinge Position	Alignment	Opposing Door
1 Standard (Handle + Hinge)	600 mm x 1,324 mm	Right	Left	Right	

**ACCESSORIES (M9)**

Observation Glass,Lightening

Designer: Cuong Nguyen Huu 14.03.2024 HVAC Calculator

**ErP - COMPLIANT TO EUROPEAN DIRECTIVE VENTILATION UNITS (AHU)** Unit ID: 4148-08-00-010

**TECHNICAL DATA**  
Date: 25/04/2018 Rev. Date: 14/03/2024  
Project ID: 4148 Tracking Number: 4148  
Project Name: SAMPLE PROJECT - HYGIENIC - (1 QTY)  
AHU Name: HYGIENIC CASE 170X140 (1400 CHE CWC HW/C)  
AHU Model: HYGIENIC CASE 170X140 (1400 CHE CWC HW/C)  
Page: 6/15

**COIL (Heating) (M5)**

Parameter	Value
Air Flow	14,000 m³/h
Capacity	62.32 kW
Required Capacity	2.28 m/s
Face Velocity	3.2
Quantity	1
Section Weight	71.29 kg
Coil Code	Fitem-32 x 26 1/2 3BT 1R 1455A 3.2P 6NC
Tube Material	Copper
Fin Material	Epoxy Coated Aluminum
Function	Heating
Dropout Elbow / Press. Drop	Condensation Pan / Drain U-Trip
Fluid Kind	WATER
Fluid In / Out	90/70 °C
Air Inlet Drybulb Temperature	16.1 °C
Air Outlet Drybulb Temperature	30.6 °C
Air Inlet Wetbulb Temperature	4.7 °C
Air Outlet Wetbulb Temperature	11.2 °C
Air Inlet Relative Humidity	11 %
Air Outlet Relative Humidity	4 %
Air Inlet - Outlet Enthalpy	13.59 - 34.24 kJ/kg
Fluid Flow / Vol. Flow	2.672 g/h / 2.789 dm³/h
Air Press. Drop	13 Pa
Fluid Press. Drop / Fluid Velocity	15.30 Pa / 1.04 m/s
Coil Surface Area	27.26 m²
Tube Inner Volume	8.86 L
Manifold / Conn. QTY	1 / 1
Conn. Direction	Right
Connection Sizes	35 / 35 mm (1-3/8" DN32 / 1-3/8" DN32)
Bypass Damper	

**Sound Power Level (dB)**

Hz	63	125	250	500	1000	2000	4000	8000	Ln(A) at
Outlet Side	93.0	85.0	92.6	96.4	94.7	89.6	88.6	82.8	98.0 dBA
Inlet Side	93.0	85.0	92.6	96.4	94.7	89.6	88.6	82.8	98.0 dBA

\* The fan system effect is taken into account in the fan performance  
\* The fan calculated for wet conditions

**DOORS (M4)**

ID Type	Size	Position	Hinge Position	Alignment	Opposing Door
1 Standard (Handle + Hinge)	600 mm x 1,324 mm	Right	Right	Right	

**ACCESSORIES (M4)**

Observation Glass,Lightening

Designer: Cuong Nguyen Huu 14.03.2024 HVAC Calculator

**ErP - COMPLIANT TO EUROPEAN DIRECTIVE VENTILATION UNITS (AHU)** Unit ID: 4148-08-00-010

**TECHNICAL DATA**  
Date: 25/04/2018 Rev. Date: 14/03/2024  
Project ID: 4148 Tracking Number: 4148  
Project Name: SAMPLE PROJECT - HYGIENIC - (1 QTY)  
AHU Name: HYGIENIC CASE 170X140 (1400 CHE CWC HW/C)  
AHU Model: HYGIENIC CASE 170X140 (1400 CHE CWC HW/C)  
Page: 8/15

**COIL (Cooling) (Wet Surface) (M6)**

Parameter	Value
Air Flow	14,000 m³/h
Capacity / Sensible	60.37/50.09 kW
Required Capacity	2.18 m/s
Face Velocity	3.2
Quantity	1
Section Weight	264.6 kg
Coil Code	Fitem-32 x 26 1/2 3BT 4R 1480A 3.2P 19NC
Tube Material	Copper
Fin Material	Epoxy Coated Aluminum
Function	Cooling
Dropout Elbow / Press. Drop	Condensation Pan / Drain U-Trip
Fluid Kind	WATER
Fluid In / Out	6/12 °C
Air Inlet Drybulb Temperature	27.3 °C
Air Outlet Drybulb Temperature	15.2 °C
Air Inlet Wetbulb Temperature	17.6 °C
Air Outlet Wetbulb Temperature	12.8 °C
Air Inlet Relative Humidity	41 %
Air Outlet Relative Humidity	78 %
Air Inlet - Outlet Enthalpy	53.7 - 38.76 kJ/kg
Fluid Flow / Vol. Flow	8.629 g/h / 8.630 dm³/h
Air Press. Drop	46 Pa / 30 Pa
Fluid Press. Drop / Fluid Velocity	25.59 Pa / 1.03 m/s
Coil Surface Area	113.9 m²
Tube Inner Volume	34.28 L
Manifold / Conn. QTY	1 / 1
Conn. Direction	Right
Connection Sizes	54 / 54 mm (2-1/8" DN50 / 2-1/8" DN50)
Bypass Damper	

**Sound Power Level (dB)**

Hz	63	125	250	500	1000	2000	4000	8000	Ln(A) at
Outlet Side	93.0	85.0	92.6	96.4	94.7	89.6	88.6	82.8	98.0 dBA
Inlet Side	93.0	85.0	92.6	96.4	94.7	89.6	88.6	82.8	98.0 dBA

\* The fan system effect is taken into account in the fan performance  
\* The fan calculated for wet conditions

**DOORS (M4)**

ID Type	Size	Position	Hinge Position	Alignment	Opposing Door
1 Standard (Handle + Hinge)	600 mm x 1,324 mm	Right	Left	Right	

**ACCESSORIES (M4)**

Observation Glass,Lightening

Designer: Cuong Nguyen Huu 14.03.2024 HVAC Calculator

**ErP - COMPLIANT TO EUROPEAN DIRECTIVE VENTILATION UNITS (AHU)** Unit ID: 4148-08-00-010

**TECHNICAL DATA**  
Date: 25/04/2018 Rev. Date: 14/03/2024  
Project ID: 4148 Tracking Number: 4148  
Project Name: SAMPLE PROJECT - HYGIENIC - (1 QTY)  
AHU Name: HYGIENIC CASE 170X140 (1400 CHE CWC HW/C)  
AHU Model: HYGIENIC CASE 170X140 (1400 CHE CWC HW/C)  
Page: 9/15

**DOORS (M6)**

ID Type	Size	Position	Hinge Position	Alignment	Opposing Door
1 Standard (Handle + Hinge)	600 mm x 1,324 mm	Right	Right	Right	

**ACCESSORIES (M6)**

Negative Pressure Siphon

**SUPPLY FAN (M4)**

Parameter	Value
Air Flow	14,000 m³/h
Motor Type	AC
Fan Model	EBM Papst-BPHM 500-PM-10
Quantity	1
Section Weight	356 kg
Internal Static Pressure	606 Pa
Motor P/Pho/AAK/Req.	11 kW/3P/400V/50Hz
Isolator	Rubber
Isolator Count	4
External Static Pressure	750 Pa
Total Static Pressure	1,356 Pa
Total Pressure - System Effect	1,356 Pa
Total / Static Efficiency	74.81 / 74.81 %
Shaft Power / Absorbed Power	7.05 / 7.05 kW
Fan Speed	2675 rpm (Max. 2900 rpm)
Air Density	1.0581 kg/m³
Specific Fan Power (SFP) (W/m³)	389 W/(m³/s)
Electrical Current	10.17 A (Max. 15.88 A)

**Sound Power Level (dB)**

Hz	63	125	250	500	1000	2000	4000	8000	Ln(A) at
Outlet Side	93.0	85.0	92.6	96.4	94.7	89.6	88.6	82.8	98.0 dBA
Inlet Side	93.0	85.0	92.6	96.4	94.7	89.6	88.6	82.8	98.0 dBA

\* The fan system effect is taken into account in the fan performance  
\* The fan calculated for wet conditions

**DOORS (M4)**

ID Type	Size	Position	Hinge Position	Alignment	Opposing Door
1 Standard (Handle + Hinge)	600 mm x 1,324 mm	Right	Left	Right	


**ACCESSORIES (M4)**

Observation Glass,Lightening

Designer: Cuong Nguyen Huu 14.03.2024 HVAC Calculator



### TECHNICAL REPORT PAGES



**ErP - COMPLIANT TO EUROPEAN DIRECTIVE VENTILATION UNITS (AHU)**

Line ID: 4148-08-00-010

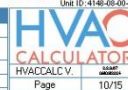
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Date	Rev. Date
25/04/2018	14/03/2024

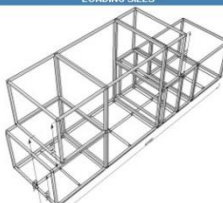
PROJECT DATA	
Project ID	Tracking Number
4148	

Project Name: SAMPLE PROJECT - HYGIENIC (1 QTY)

AHU Model: HYGIENIC CASE 170X140 [1400 CHE CWC HWC]

Page: 10/15





Section	Module	Type	Count	Width	Height	Length	Weight	Total Weight
S1	1 pcs.	Fan	1	1,810 mm	1,514 mm	1,780 mm	432 kg	432 kg
S2	1 pcs.	Counterflow Heat Exchanger	1	1,750 mm	2,928 mm	2,054 mm	851 kg	851 kg
S3	1 pcs.	Filter	1	1,810 mm	1,414 mm	918 mm	163 kg	163 kg
S4	1 pcs.	Filter	1	1,810 mm	1,414 mm	1,553 mm	242 kg	242 kg
S5	1 pcs.	Heating Coil	1	1,900 mm	1,514 mm	205 mm	71.29 kg	71.29 kg
S5	2 pcs.	Empty	1	1,810 mm	1,514 mm	690 mm	93.22 kg	93.22 kg
S6	1 pcs.	Cooling Coil	1	1,900 mm	1,514 mm	690 mm	264.6 kg	264.6 kg
S7	1 pcs.	Fan	1	1,810 mm	1,514 mm	1,590 mm	356 kg	356 kg
7 pcs.	8 pcs.					2,474 kg	2,474 kg	

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Designer: Cengiz Nguyen Huu 14.03.2024 HVAC Calculator



**ErP - COMPLIANT TO EUROPEAN DIRECTIVE VENTILATION UNITS (AHU)**

Line ID: 4148-08-00-010

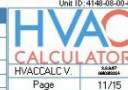
TECHNICAL DATA	
Date	Rev. Date
25/04/2018	14/03/2024

PROJECT DATA	
Project ID	Tracking Number
4148	

Project Name: SAMPLE PROJECT - HYGIENIC (1 QTY)

AHU Model: HYGIENIC CASE 170X140 [1400 CHE CWC HWC]

Page: 11/15



Ecodesign Requirements Table		2016	2018
Product	HYGIENIC CASE 2018		
A Manufacturer	Demo		
B Model Identifier	HYGIENIC CASE 170X140 [1400 CHE CWC HWC]		
C ErP Code	NRVU - BVU		
D Type Of Drive	Variable Speed Drive (VSD)	Variable Speed Drive (VSD)	Required
E Type Of HFS	Counterflow		Required
F HRS Damper	Exists		Required
F Thermal Efficiency of HFS	73.80 %		Required >= 73 %
G Nominal Flow Rate	3.89 m³/s	3.89 m³/s	
H Effective Electrical Power Input	7.05 kW	5.3 kW	
I SPint	389 W/(m³/s)	399 W/(m³/s)	<= 1104 <= 824
J Face Velocity	1.77 m/s	1.77 m/s	
K Nominal External Drop Δps, Ext	750 Pa	600 Pa	
L Internal Pressure Drop Δps, Int	606 Pa	394 Pa	
M Additional Pressure Drop Δps, Add	0 Pa	0 Pa	
N Static Fan Efficiency EC327/2011	74.01 %	72.99 %	
O Declared Maximum Internal Leakage Rate	1.00 %		
P Energy Performance Of Filters	A+ D		
Q Description Of Visual Filter Warning	Manometer Pressure Gauge	Manometer Pressure Gauge	Required
R Casing Sound Power Level (Lwa)	67.6 dBA		
S Internet Address Of Instructions	smartprojectdesigner.com		

Code	Explanation	Level 1	Level 2	Level 3
R4	Flatpacking delivery of units is not allowed. In order to comply with restricted buildings accesses or transportation limits, units might be delivered in sections, blocks or sub-assemblies to be assembled together on site. In that case, the assembly method shall be explained in the IOM of the manufacturer or evidence showing that a qualified person is in charge of the assembly shall be provided.	Compliant	Compliant	Compliant
R14	Every component selected in the software (air filters, heat exchangers (energy recovery systems and coils, droplet separators, fans, humidifiers, dehumidifiers, silencers, dampers) shall be installed within/inside the AHU. Level 1, 2 & 3: Requirement applied	Compliant	Compliant	Compliant

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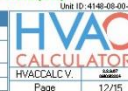
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Project ID	Tracking Number
4148	

Project Name: SAMPLE PROJECT - HYGIENIC (1 QTY)

AHU Model: HYGIENIC CASE 170X140 [1400 CHE CWC HWC]

Page: 12/15



R21	Any component as defined under R20 shall be "quickly removable". A component designed for the purpose of IOM as "quickly removable" shall have a weight of a maximum of 25 kg. Quickly removable means that after opening the access door or hatch, the component is directly removable within a short time. Note: For that reason, water or a refrigerant coil cannot be claimed as "quickly removable". It is not allowed that other installation (cables, instruments...) hinder the quick removal of the component. Level 1, 2 & 3: Requirement applied	Compliant	Compliant	Compliant
R25	Droplet separators downstream cooling coils shall be easily accessible and quickly removable or alternatively have an access door and plenum between cooling coils and droplet separator as defined in APPENDIX A. In case that there is no compliant space between cooling coil and droplet separator and the droplet separator itself is easily removable, the length (in air direction) of the removed droplet separator can be used as available length for IOM of the cooling coil. Level 1, 2 & 3: Requirement applied	Compliant	Compliant	Compliant
R26	For easy removal of droplet separators, these shall be side removable in parts with a maximum weight of 25 kg and maximum width of 1000 mm. Level 1, 2 & 3: Requirement applied	Compliant	Compliant	Compliant
R27	Filter change shall be possible from the dirty air side or by side removal. The installed filter frame shall correspond to the filter class installed and the manufacturer shall be certified minimum for the installed filter bypass leakage. In any case, the requirements for sufficient space and easy access for IOM shall be maintained. Level 1: Requirement applied Level 2 & 3: Requirement applied and the complete filter(s) frame shall be sealed to the casing frame	Compliant	Compliant	Compliant
R30	To avoid condensation, the certified model box shall have a minimum thermal bridging class of X. Published July 2018 Page 11 of 19 Level 1 & 2: X = TB3 Level 3: X = TB2	Compliant	Compliant	Compliant
R31	The certified model box shall have at least a tightness class of X and the Real Unit shall have at least a tightness class of Y. Level 1 & 2: X = L2 (M) & Y = L2 (R) Level 3: X = L1 (M) & Y = L1 (R) L1	Compliant	Compliant	Compliant
R33	Drain pipes of the unit shall have a diameter of at least 40 mm and sufficient slope and run to a siphon with free discharge into the sewer system. Backflow protection is mandatory for negative pressures. In case it is not provided by the manufacturer, it shall be stated in the IOM. Level 1, 2 & 3: Requirement applied	Compliant	Compliant	Compliant
R34	Drains with positive and negative pressure levels shall be constructed separately with each having an individual siphon. Level 1, 2 & 3: Requirement applied	Compliant	Compliant	Compliant
R36	A minimum M5 filtration stage shall be installed upstream of any component (except dampers or filter pre-heater) Level 1, 2 & 3: Requirement applied	Compliant	Compliant	Compliant

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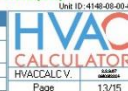
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PROJECT DATA	
Project ID	Tracking Number
4148	

Project Name: SAMPLE PROJECT - HYGIENIC (1 QTY)

AHU Model: HYGIENIC CASE 170X140 [1400 CHE CWC HWC]

Page: 13/15



R37	Air filters shall be selected and arranged in order to ensure a good incoming air quality (as a minimum). The filter efficiency according to EN 18690:2016 for the filters shall be certified by a certification body accredited ISO 17065:2012. Level 1 & 2: The filtration efficiency at 0.4 µm of all filters installed shall be equivalent to an ePM10 50% filter on the exhaust side and to an ePM1 85% filter on the supply side. Level 3: The filtration efficiency at 0.4 µm of all filters installed shall be equivalent to an ePM10 50% filter on the exhaust side and to an ePM1 85% filter on the supply side.	Compliant	Compliant	Compliant
R39	Bag filter must be in the vertical position (this requirement does not apply to rigid filters). It shall be clearly indicated in the IOM that the filter shall always be in a vertical position, it is also recommended to put a label on the unit. Level 1, 2 & 3: Requirement applied	Compliant	Compliant	Compliant
R41	Each filter stage shall be equipped with a differential pressure gauge. The measuring display device shall be easily accessible and easily readable by future users. Level 1 & 2: For each filter visual signaling or an alarm in the control system is mandatory. For units to be installed outdoor liquid manometer is not allowed. Level 3: For each filter an alarm in the control system is mandatory. For units to be installed the outdoor liquid manometer is not allowed. Note: Should the control system be delivered by the manufacturer, the requirements apply. Should they not, the requirement shall be written in the IOM.	Compliant	Compliant	Compliant
R42	The supply-side shall be filtered by two filter stages. Level 1: No requirements Level 2 & 3: Requirement applied and the first stage of filter class shall be at least M5. Note: If a third stage filter is required, it can be present within the unit or outside the unit. Therefore this is not in the scope of this program.	Compliant	Compliant	Compliant
R43	Recirculated air shall be filtered with the same requirement as defined under R36 for the supply air filter. Level 1 & 2: Requirement applied Level 3: No recirculated air shall be allowed.	Compliant	Compliant	Compliant
R44	For energy and hygiene reasons the distance between the fins of the coolers that can dehumidify shall be at a minimum X mm, otherwise, the distance between fins shall be at a minimum X mm. Published July 2018 Page 13 of 19 Note: This applies also to cooling coil within run around coil. Level 1 & 2: Xmin = 2.0 mm and Ymin = 2.5 mm Level 3: Xmin = 2.5 mm and Ymin = 3.0 mm	Compliant	Compliant	Compliant
R45	Air heaters, which are used for drying before the first filter stage, shall guarantee a minimum distance between the fins of at least 4 mm. Level 1, 2 & 3: Requirement applied	Compliant	Compliant	Compliant
R46	The fins shall have a thickness of X. Level 1, 2 & 3: Xmin = 0.1 mm	Compliant	Compliant	Compliant
R47	For hygiene reasons, coolers with dehumidification shall not be arranged immediately before air filters or silencers. Fans, heaters or droplet separators shall be installed in between to limit the relative humidity. Selection software to alert the user that cooler with dehumidification shall not be arranged immediately before air filters or silencers. Level 1, 2 & 3: Requirement applied	Compliant	Compliant	Compliant
R48	For clean application, humidifier shall be installed with at least an element (Coil, fan, heat exchanger, droplet separator) between the humidifier and final filter or silencers. A maximum of 90% RH is allowed before each filter section or silencer. Level 1, 2 & 3: Requirement must be included in the IOM of the product	Compliant	Compliant	Compliant

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## PROFORMA INVOICE

You can prepare a special design of proforma invoice and generate your proforma invoices via the selection software. You can export the proforma invoice as PDF, Excel, Word or Html file formats. You can also send the file in that format via e-mail from the program.

**HVAC CALCULATOR**

3/14/2014 11:55:17 PM  
REF: no: 2014/00434608

Sa. ;

**TEKİFİN KONUSU** : İstemiz olduğunuz SAMPLE PROJECT - Projesindeki Demo klima sisteminin fiyatlandırması talebinizin konusunu oluşturmaktadır.

**SARFIYATIN KONUSU** : Our proposal is for the Demo air handling unit regarding your inquiry about the project of SAMPLE PROJECT.

**Demo KLİMASI RİSKİLERİ MODÜL TEKNİK BİLGİLER**

Seri / Range	[CAB]
<b>Tespiti Farklı</b> Alınan Çıkış	[0.4 m³/s] 0.1 m³/s kısıtlı hava hızına sahip soğutma kontak Dual Profile 24denizal kalıba. Çıkış hızı 0.1 m³/s kısıtlı hava hızına sahip soğutma kontak Dual Profile 24denizal kalıba. Çıkış hızı 0.1 m³/s kısıtlı hava hızına sahip soğutma kontak Dual Profile 24denizal kalıba.
<b>Panel</b>	Dış Sac Malzemesi : Painted Galvanneal Çıkış Hızı : 0.6 mm İç Sac Kalınlığı : 0.6 mm Çıkış Hızı : 0.6 mm Panel Kalınlığı : 40 mm Panel Hızı : 40 mm
<b>Akışkan</b> : Isıtılacak / Alınan Hava	23.0 Hz : 24.4 Hz : 25.0 Hz : 25.3 Hz : 25.0 Hz : 25.0 Hz : 25.0 Hz
<b>Filtre / Filter</b>	6-4 Panel (L=40mm) 305 Bag (L=305mm) Filtre. En iyi replasmanlı filtre ekipmanı.
<b>Kablosu / Kablo</b>	[0.4 m³/s] 0.1 m³/s kısıtlı hava hızına sahip soğutma kontak Dual Profile 24denizal kalıba. Çıkış hızı 0.1 m³/s kısıtlı hava hızına sahip soğutma kontak Dual Profile 24denizal kalıba. Çıkış hızı 0.1 m³/s kısıtlı hava hızına sahip soğutma kontak Dual Profile 24denizal kalıba.
<b>Demir Tutucu Çırpı</b>	Polystyrene
<b>Damlatma Tavanı</b>	Parlatılmış sac malzemesi
<b>Ventilatör &amp; Aspiratör</b>	Bilgiye göre seçilecek en iyi ve en uygun bakımı yapılmış yüksek verimli (550 3-7-0.1) Backward Curved Kanallı Nikrosan Fan (Motorlu İki elerinde hareket eden) (İşlem : sonunlayıcı tabakasına montaj) kalitesi de bakılır. (Max. hız : 20 m/s) [0.4 m³/s] 0.1 m³/s kısıtlı hava hızına sahip soğutma kontak Dual Profile 24denizal kalıba. Çıkış hızı 0.1 m³/s kısıtlı hava hızına sahip soğutma kontak Dual Profile 24denizal kalıba.
<b>Motor</b>	SANM (IP 54/55 - IE2 motor (380V/50/45-Pat)
<b>Damper</b>	Aerodinamik formda kontrol edilebilen alüminyum kanallı, kontak malzemesi tahrik mekanizması hava damperler. Aerodinamik formda kontrol edilebilen alüminyum kanallı, kontak malzemesi tahrik mekanizması hava damperler.

## PROFORMA INVOICE PAGES

# HVAC CALCULATOR

3/14/2024:55:17PM

Sn.;

REF.no:1701/004140R0

## TEKLİF KONUSU

İstem: oldukunuz SAMPLE PROJECT - Projesindeki Demo marka klima santrallerinin fiyatlandırılması teklifimin konusunu oluşturmaktadır.

## SUBJECT OF THE QUOTATION

Our proposal is for the Demo air handling units regarding your inquiry about the project of SAMPLE PROJECT.


### Demo KLİMA SANTRALLERİ MODÜL TEKNİK BİLGİLER

Seri / Range	1	CAEII																		
Taşıyıcı Karınak Main Carcass	1	[3.4 +/- 0.1]m/s kısıtlı havazına sahip, sızdırmaz, contalı Oval Profile 24denimal karınak. Gasketed non-duct type Oval Profile 24, extruded aluminun and coatan speed gasket grooves with [3.4 +/- 0.1]m/s air speed.																		
Panel	1	<table> <tr> <td>Dış Sac Malzemesi Outer Sheet Material</td><td>-</td><td>Painted Galvanize</td><td>İç Sac Malzemesi Inner Sheet Material</td><td>-</td><td>Galvanize</td></tr> <tr> <td>Dış Sac Kalınlığı Outer Sheet Thickness</td><td>-</td><td>0.6 mm</td><td>İç Sac Kalınlığı Inner Sheet Thickness</td><td>-</td><td>0.6 mm</td></tr> <tr> <td>Panel Kalınlığı Panel Thickness</td><td>-</td><td>40 mm</td><td>İzolasyon Isolation</td><td>-</td><td>Polyurethane</td></tr> </table>	Dış Sac Malzemesi Outer Sheet Material	-	Painted Galvanize	İç Sac Malzemesi Inner Sheet Material	-	Galvanize	Dış Sac Kalınlığı Outer Sheet Thickness	-	0.6 mm	İç Sac Kalınlığı Inner Sheet Thickness	-	0.6 mm	Panel Kalınlığı Panel Thickness	-	40 mm	İzolasyon Isolation	-	Polyurethane
Dış Sac Malzemesi Outer Sheet Material	-	Painted Galvanize	İç Sac Malzemesi Inner Sheet Material	-	Galvanize															
Dış Sac Kalınlığı Outer Sheet Thickness	-	0.6 mm	İç Sac Kalınlığı Inner Sheet Thickness	-	0.6 mm															
Panel Kalınlığı Panel Thickness	-	40 mm	İzolasyon Isolation	-	Polyurethane															
Akustik Isıyalan Acoustic Isolation	1	<table> <tr> <td>@25 Hz</td><td>@250 Hz</td><td>@500 Hz</td><td>@1000 Hz</td><td>@2000 Hz</td><td>@4000 Hz</td><td>@8000 Hz</td></tr> <tr> <td>23.0</td><td>24.4</td><td>26.0</td><td>25.3</td><td>26.0</td><td>31.0</td><td>30.2</td></tr> </table>	@25 Hz	@250 Hz	@500 Hz	@1000 Hz	@2000 Hz	@4000 Hz	@8000 Hz	23.0	24.4	26.0	25.3	26.0	31.0	30.2				
@25 Hz	@250 Hz	@500 Hz	@1000 Hz	@2000 Hz	@4000 Hz	@8000 Hz														
23.0	24.4	26.0	25.3	26.0	31.0	30.2														
Filtre / Filter	1	G-4 Panel(L=40mm)305 Bag(L=305mm)Filter. Easy replaceable filter equipments.																		
İzalo/Suoluçulu Orta	1	[5.0 +/- 0.1]m/s balayına havama sahip bilgisayar destekli seçimi bakur alüminum kanallı ısıyalan. (Min 2.1mm hole/kanaç aralığı) Bachgoning with [5.0 +/- 0.1]m/scal face speed mode of copper pipe and aluminun fins. Chosen by computer certified selection software. Min 2.1mm gap space																		
Ventilatör Eliminatör	1	Polypropylene																		
Damlama Tavanı Uçurucu	1	Pas termal ve a.c anmal. Scintilles steel																		
Ventilatör Aspiratör	1	Bilgisayar destekli seçimi statik ve dinamik balans yapılmış yüksek verimli [86.9 +/- 0.1] Backward Curved kanallı ısıyal Nicola fan. (Molotu her iki eksende hareket edebilen ışıyalan. Sönümleyici takoz üzerine montajı) kadesi ile baklılı. (Max. shg. 20 m/s) Software selected high efficient (N66.9 +/- 0.1) Backward Curved bladed Nicola fan. (Mounted on 2 Vibration Isolators) (Max Fan outlet. 20m/s) Standard																		
Motor	1	GAMAK IP 54/55 - IE2 motor (30/30/50Hz/3-Faz)																		
Damper	1	Aerodinamik formda kontrol hareket eden alüminum kanallı, conta, malzalı tahnik mekanizmalı hava damperleri. Aerodynamically formed control rotating aluminun profile blades, sealed, hingered driven dampers																		
İn Geni Kazanım / Heat Recovery	1	İstenen santalderide yüksek verimli. Rotolu Döner Tapanlı - Plakalı/Apaç Akışlı in gen kazanım ünitesi kullanılmaktadır. (Verim boy gözetiminde proje kullanılmamaktadır) Rotary/Plate/Plate type heat exchanger with high efficiency. (Efficiency: 70-73...%) Plate type: Recuperator Plate verim / Efficiency: (84-7...)																		
Aksesuarlar & Notlar / Accessories & Notes	1	- +mm - d) yutulumu su tutucu d) Backward slanters - İstenirse Standard marka Frekans invertörleri Frequency drives "d) included - 100 mm kalde. mm high pedestal																		
FİYAT	1	775.765.000.000   Fiyatlandırma K.D.V. - Ö.T.V. dahil değildir																		

1/5

14.03.2024

1506cc-cadaver

	
PİRİCE	1
ÖDEME ŞEKLİ PAYMENT TERMS	2
<p><b>Tovars oreneni uslov</b></p> <p>Ödeme, işleme tarihindeki Merkez Bankası Döviz Satış Kuru üzerinden Türk Lirasına çevilerek yapılacaktır. Fatura esas kıra, fatura kesim tarihinde Merkez Bankası Döviz Satış Kuru üzerinden ödenmesi esastır. Söz konusu ödeme, fatura kesim tarihi itibarıyla tahsilatı için alınarak belirlenmek ve fatura düzenlenir. Bahsedilen miktarda vadesinde ödemesini üzerine, şirketimiz herhangi bir sorumluluğa doğmaksızın sipariş iptal etme ve chaza yenden sabit olma veya chazın ücretinin derhal ödemesini talep etme hakkını saklı tutar.</p> <p>Payments will be done according to the Foreign Exchange Rates of Central Bank at the invoice dates upon the payments are received without any responsibilities, our company holds the right to cancel the order and device again or reserves the right to claim the payment of the device immediately.</p>	
TESLİMİYAT Delivery Terms	3
<p>Teslimat tarihleri ile ilgili teslim edilecek teklif konusuna cihazlar karşılıklı görüşmelerimiz sonucu belirlenen tarihte teslim edilecektir. (Malat çizimlerinin onayından sonra haftada teslim edilecektir.)</p> <p>The delivery dates will be on the suggestion terms; The quoted materials will be ready for picking up by your forwarder in weeks after the receipt of purchase order. Oostabom from late pick up by the client will be charged.</p>	
<p>Şirketimizin kontrolü dışındaki herhangi bir sebepten dolayı chazın vadesinde teslim edilememesi durumunda, şirketimiz, Alıcı'nın da onayı üzerine, söz konusu chazı, riskleri ve masrafları Alıcı'ya ait olmak üzere depolayacaktır ve genelinde kullanıcılara Alıcı teslimat tarihinden itibaren satılan cihazla ilgili tüm riskleri ve bunlarla ilgili tüm masrafları üstlenecektir. Ancak mühtelip, ödemeleri tamamlanmış şekilde teslim alması gerekecektir.</p> <p>Delivery dates will be on the suggestion terms; The quoted materials will be ready for picking up by your forwarder in weeks after the receipt of purchase order. Oostabom from late pick up by the client will be charged.</p>	
HARIC OLAN İŞLER EXCLUDED WORKS	4
<p><b>Teklif kapsamı cihazlar;</b></p> <ul style="list-style-type: none"> <li>Alıcının veya üçüncü kişinin ürünü uygun koşullarda muhafaza etmemesi,</li> <li>Şirketimizin teknik özelliklerine, kabul edilmiş mühendislik standartlarına montaj devreye alma ,</li> <li>ve bakım kitapçığına uygun montaj yapılması,</li> <li>Şirketimizin yazılı izin olmaksızın Alıcı veya üçüncü kişi tarafından ,</li> <li>chazea tadilatı,</li> <li>Chazın hatalı kullanılması veya chazea yanlış bakım yapılması,</li> <li>Külü su anteni,</li> <li>Uygun olmayan elektrik tesisatı bağlantıları</li> </ul>	
GARANTİ KAPSAMI WARRANTY TERMS	5
<p>harcında kapsama, malzeme, üretim hatalarına karşı (işletme ve bakım hataları hariç) teslim tarihinden itibaren bir yıl (24 ay), devreye alma tarihinden itibaren 18 ay garantimiz altındadır. Normal aşırıya maruz parçaların aşınması ve bozulması garantimiz kapsamında değildir. Parçalarının karga veya yanlış düzenlemelere ilişkin olarak kullanıcılarımıza masrafsız olarak değiştirilmesi garanti verilmemektedir. Alıcı, ürünümüzde tüm ek aksesuar, hata ve kusurları, bu ek aksesuar, hata veya kusurları ortaya çıkmasını istemeyi hak eder. Alıcı, ürünümüzde ek aksesuar, hata ve kusurları, bu ek aksesuar, hata veya kusurları ortaya çıkmasını istemeyi hak eder. Alıcı, ürünümüzde ek aksesuar, hata ve kusurları, bu ek aksesuar, hata veya kusurları ortaya çıkmasını istemeyi hak eder. Alıcı, ürünümüzde ek aksesuar, hata ve kusurları, bu ek aksesuar, hata veya kusurları ortaya çıkmasını istemeyi hak eder.</p>	

**TSEK**

14.03.2024

HVAC-CALCULATOR

# HVAC CALCULATOR

Our guarantee terms are valid as long as the installation and assembly are made according to accepted engineering standards and user manual of our products are guaranteed for porability for 28 months from the delivery and two years (24 months) from the start up date whichever is earlier. Our guarantee excludes:

- Mis-handling or improper maintenance of the device,
- Poor water treatment,
- Improper electric energy supply connection,
- Corrosion of materials used with electricity,

KABUL ve  
GEÇERLİLİK  
VAUITY

Teklifimiz 15 gün süre ile geçerlidir. Söz konusu bir siparişin gikilmesini yazılı olarak kabulüne tabidir. Aksi açıklı belirtilmedikçe, beklentinin olınan fiyatları sadece teklif niteliğindedir ve her zaman önceden bildirilmekle sınırlı güncellenmektedir. Sipariş üzerine sevki edilen malın Alıcı tarafından kabulü, her halükarda, iç bu satış koşullarının karşısına kabul edildiği anlamına gelecektir.

Our proposal is valid for 15 days. Orders are subject to acceptance of our company in writing. Unless explicitly stated otherwise, the prices stated are purely for offer purposes and can be updated anytime without notice after validity duration is exceeded. In case of acceptance of the offer, the terms and conditions in the proposal will be deemed valid without any objection.

Teklifimizin uygun kararlaştırılması ümit eder, teşekkür ederiz.

Saygılarımla  
Reports,  
Cüneyt Nguyen Huu

AHU	Air Flow	Model	Quantity	Price (EUR)	Total (EUR)
HORSE SHOE HEAT PIPE	6,100 m³/h	CASE 140 X 110 - (W 1,474xH 1,180xL 2,307)	1	2,028	2,028
				(EUR)	2,028
%100 Fresh AHU					
AHU	Air Flow	Model	Quantity	Price (EUR)	Total (EUR)
%100 FRESH	6,100 m³/h	CASE 080 X 080 - (W 950xH 900xL 3,362)	1	1,253	1,253
FAN WALL	6,100 m³/h	CASE 140 X 110 - (W 1,564xH 1,180xL 2,193)	1	2,955	2,955
				(EUR)	4,208
AHU with Counterflow Heat Exchanger					
AHU	Air Flow	Model	Quantity	Price (EUR)	Total (EUR)
COUNTERFLOW HEAT RECOVERY	14,000 m³/h	CASE 230 X 200 - (W 2,050xH 2,500xL 6,059)	1	7,125	7,125
				(EUR)	7,125

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14.03.2024

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# HVAC CALCULATOR

AHU with Plate Heat Exchanger								
AHU	Air Flow	Model	Quantity	Price (EUR)	Total (EUR)			
PLATE HEAT RECOVERY	14,000 m³/h	CASE 230 X 200 - (W 2,050xH 2,500xL 5,610)	1	4,679	4,679			
				<b>(EUR)</b>	<b>4,679</b>			
AHU with Rotary Heat Exchanger								
AHU	Air Flow	Model	Quantity	Price (EUR)	Total (EUR)			
ROTARY HEAT RECOVERY	8,000 m³/h	CASE 170 X 140 - (W 1,910xH 2,260xL 3,811)	1	4,434	4,434			
				<b>(EUR)</b>	<b>4,434</b>			
AHU with Run-Around Coil (RC/EF)								
AHU	Air Flow	Model	Quantity	Price (EUR)	Total (EUR)			
RUN AROUND COIL HEAT RECOVERY	22,000 m³/h	CASE 200 X 170 - (W 2,136xH 1,860xL 4,329)	1	10,027	10,027			
				<b>(EUR)</b>	<b>10,027</b>			
Hygienic AHU								
AHU	Air Flow	Model	Quantity	Price (EUR)	Total (EUR)			
HYGIENIC	14,000 m³/h	HYGIENIC CASE 170 X 140 - (W 1,900xH 2,926xL 7,009)	1	15,517	15,517			
ErP COMPLIANT	14,000 m³/h	CASE 170 X 140 - (W 1,900xH 2,926xL 7,393)	1	13,238	13,238			
				<b>(EUR)</b>	<b>28,755</b>			
Mixture AHU								
AHU	Air Flow	Model	Quantity	Price (EUR)	Total (EUR)			
MIXTURE	29,000 m³/h	CASE 200 X 200 - (W 2,136xH 2,266xL 6,084)	1	5,763	5,763			
VERTICAL MIXTURE	10,000 m³/h	CASE 140 X 110 - (W 1,850xH 2,260xL 4,196)	1	3,310	3,310			
				<b>(EUR)</b>	<b>9,073</b>			
				<b>Total Offer Price (EUR)</b>				
				<b>70,329</b>				
Fan Coil	Air Flow	Model	Quantity	Price (EUR)	Total (EUR)			
HIDDEN CEILING TYPE FAN COIL	259.4 m³/h	HIDDEN CEILING TYPE - TWO PIPE HIDDEN CEILING TYPE - FNCL-HCT-0-(2)-(2)-32-L-R	1	114	114			
HIDDEN FLOOR TYPE FAN COIL	276.4 m³/h	HIDDEN FLOOR TYPE - TWO PIPE HIDDEN FLOOR TYPE - FNCL-HFT-(2)-(2)-50-L-R	1	130	130			
CEILING TYPE FAN COIL	259.4 m³/h	CEILING TYPE - TWO PIPE CEILING TYPE - FNCL-CT-0-(2)-(2)-32-L-R	1	136	136			

**TSEK**

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14.03.2024  
HVAC-000001

### LIFE CYCLE COST REPORT

You can get the LCC report for the AHU, it includes all the cost details of the AHU with the time plan. You can export the proforma invoice as PDF, Excel, Word or Html file formats. You can also send the file in that format via e-mail from the program.

The screenshot shows the HVAC Calculator software interface. The main window displays the 'Life Cycle Cost Report' for a 'HYGIENIC' AHU. The report is organized into several sections: 'LIFE CYCLE COST', 'ECONOMIC FACTORS', 'FRESH AIR FAN', 'RETURN AIR FAN', 'HEATING / COOLING ENERGY', 'LIFE CYCLE COST (LCC)', and 'LIFE TIME COST'. Each section contains a table of data, including energy usage, costs, and investment details. The software interface includes a sidebar on the left with a project tree, a top menu bar with options like 'File', 'View', 'Background', and a right sidebar with a 3D model viewer.

LIFE CYCLE COST			
Date	25/04/2008	Rev. Date	14/03/2014
Project ID	4148	Tracking Number	
Project Name	SAMPLE PROJECT		
AHU Name	HYGIENIC - (1 QTY)		
AHU Model	HYGIENIC CASE 170X140		
<b>ECONOMIC FACTORS</b>			
Electricity Price (€/kWh)	0.12 EUR	Electricity Price Increase	2 %
Heating Energy Price (€/kWh)	0.06 EUR	Heating Energy Price Increase	2 %
Cooling Energy Price (€/kWh)	0.06 EUR	Cooling Energy Price Increase	2 %
Water Price (€/l)	0.5 EUR	Water Price Increase	2 %
Filter Price (€)	0.1755 EUR	Filter Price Increase	2 %
Life Expectancy	20 Year	Energy Factor	1
<b>FRESH AIR FAN</b>			
Air Flow	14,000 m³/h	Specific Fan Power	389 W/(m³/s)
Shaft Power	7.05 kW	Motor Power	11 kW
Absorbed Power	7.05 kW	Absorbed Power With VFD	7.05 kW
Yearly Running Time	3,000 Hour	Yearly Absorbed Power With VFD	21,148 kW
Electricity Energy Price (€/kWh)	0.12 EUR	Yearly Electricity Energy Cost	2,538 EUR
<b>RETURN AIR FAN</b>			
Air Flow	14,000 m³/h	Specific Fan Power	399 W/(m³/s)
Shaft Power	5.3 kW	Motor Power	7.5 kW
Absorbed Power	5.3 kW	Absorbed Power With VFD	5.3 kW
Yearly Running Time	3,000 Hour	Yearly Absorbed Power With VFD	15,888 kW
Electricity Energy Price (€/kWh)	0.12 EUR	Yearly Electricity Energy Cost	1,907 EUR
<b>HEATING / COOLING ENERGY</b>			
Heating Coil Energy Usage	62,324 kW	Yearly Heating Coil Running Time	1,000 Hour
Yearly Heating Coil Energy Usage	62,324 kW	Yearly Heating Coil Energy Cost	3,739 EUR
Cooling Coil Energy Usage	60,370 kW	Yearly Cooling Coil Running Time	1,000 Hour
Yearly Cooling Coil Energy Usage	60,370 kW	Yearly Cooling Coil Energy Cost	3,622 EUR
<b>LIFE CYCLE COST (LCC)</b>			
Yearly Fresh Air Fan Energy Usage	21,148 kW	Yearly Fresh Air Fan Energy Cost	2,538 EUR
Yearly Return Air Fan Energy Usage	15,888 kW	Yearly Return Air Fan Energy Cost	1,907 EUR
Yearly Heating Energy Usage	62,324 kW	Yearly Heating Energy Cost	3,739 EUR
Yearly Cooling Energy Usage	60,370 kW	Yearly Cooling Energy Cost	3,622 EUR
Yearly Filter Usage	3,000 Hour	Yearly Filter Cost	526 EUR
Investment	15,517 EUR	Yearly Total Cost	27,850 EUR
<b>LIFE TIME COST</b>			
Life Time Fresh Air Fan Energy Usage	422,956 kW	Life Time Fresh Air Fan Energy Cost	51,680 EUR
Life Time Return Air Fan Energy Usage	317,759 kW	Life Time Return Air Fan Energy Cost	46,324 EUR
Life Time Heating Energy Usage	1,246,488 kW	Life Time Heating Energy Cost	90,859 EUR
Life Time Cooling Energy Usage	1,207,398 kW	Life Time Cooling Energy Cost	88,010 EUR
Life Time Filter Usage	60,000 Hour	Life Time Filter Cost	12,821 EUR
Investment	15,517 EUR	Life Time Total Cost	215,155 EUR

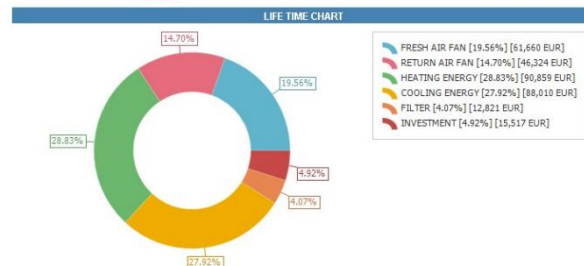
## LIFE CYCLE COST REPORT PAGES

Life cycle cost report is a guide for to calculate working cost of the unit, the results can change related to working conditions and unpredictable circumstances.

LIFE CYCLE COST				HVAC CALCULATOR	
Date	25/04/2008	Rev Date	14/03/2024	Page	1/2
Project ID	4148	Tracking Number			
Project Name	SAMPLE PROJECT - HYGIENIC - (1 QTY)				
AHU Name	HYGIENIC CASE 170X140			HVACCALC.V.	
AHU Model					
ECONOMIC FACTORS					
Electricity Energy Price (€/kWh)	0.12 EUR	Electricity Energy Price Increase	2 %		
Heating Energy Price (€/kWh)	0.06 EUR	Heating Energy Price Increase	2 %		
Cooling Energy Price (€/kWh)	0.06 EUR	Cooling Energy Price Increase	2 %		
Water Price (€/m³)	0.5 EUR	Water Price Increase	2 %		
Filter Price (€)	0.1759 EUR	Filter Price Increase	2 %		
Life Expectancy	20 Year	Energy Factor	1		
FRESH AIR FAN					
Air Flow	14,000 m³/h	Specific Fan Power	389 W/(m³/s)		
Shaft Power	7.05 kW	Motor Power	11 kW		
Absorbed Power	7.05 kW	Absorbed Power With VFD	7.05 kW		
Yearly Running Time	3,000 Hour	Yearly Absorbed Power With VFD	21,148 kW		
Electricity Energy Price (€/kWh)	0.12 EUR	Yearly Electricity Energy Cost	2,538 EUR		
RETURN AIR FAN					
Air Flow	14,000 m³/h	Specific Fan Power	399 W/(m³/s)		
Shaft Power	5.3 kW	Motor Power	7.5 kW		
Absorbed Power	5.3 kW	Absorbed Power With VFD	5.3 kW		
Yearly Running Time	3,000 Hour	Yearly Absorbed Power With VFD	15,888 kW		
Electricity Energy Price (€/kWh)	0.12 EUR	Yearly Electricity Energy Cost	1,907 EUR		
HEATING / COOLING ENERGY					
Heating Coil Energy Usage	62,324 kW	Yearly Heating Coil Running Time	1,000 Hour		
Yearly Heating Coil Energy Usage	62,324 kW	Yearly Heating Coil Energy Cost	3,739 EUR		
Cooling Coil Energy Usage	60,370 kW	Yearly Cooling Coil Running Time	1,000 Hour		
Yearly Cooling Coil Energy Usage	60,370 kW	Yearly Cooling Coil Energy Cost	3,622 EUR		
LIFE CYCLE COST (LCC)					
Yearly Fresh Air Fan Energy Usage	21,148 kW	Yearly Fresh Air Fan Energy Cost	2,538 EUR		
Yearly Return Air Fan Energy Usage	15,888 kW	Yearly Return Air Fan Energy Cost	1,907 EUR		
Yearly Heating Energy Usage	62,324 kW	Yearly Heating Energy Cost	3,739 EUR		
Yearly Cooling Energy Usage	60,370 kW	Yearly Cooling Energy Cost	3,622 EUR		
Yearly Filter Usage	3,000 Hour	Yearly Filter Cost	528 EUR		
Investment	15,517 EUR	Yearly Total Cost	27,850 EUR		
LIFE TIME COST					
Life Time Fresh Air Fan Energy Usage	422,956 kW	Life Time Fresh Air Fan Energy Cost	61,660 EUR		
Life Time Return Air Fan Energy Usage	317,759 kW	Life Time Return Air Fan Energy Cost	46,324 EUR		
Life Time Heating Energy Usage	1,246,488 kW	Life Time Heating Energy Cost	90,859 EUR		
Life Time Cooling Energy Usage	1,207,398 kW	Life Time Cooling Energy Cost	88,010 EUR		
Life Time Filter Usage	60,000 Hour	Life Time Filter Cost	12,821 EUR		
Investment	15,517 EUR	Life Time Total Cost	315,192 EUR		
VALUATION					
Investment (I)	15,517 EUR	Energy Cost (E)	11,806 EUR		
Water Cost (W)	0 EUR	Filter Cost (F)	528 EUR		
Energy Factor (A)	1	Total Cost (I + E + W + F)	27,850 EUR		
RUNNING DATA					
Fresh Air Flow	14,000 m³/h	Return Air Flow	14,000 m³/h		
Total Specific Fan Power	788 W/(m³/s)	Exchanger Temperature Efficiency (%)	73.80 %		

Life cycle cost report is a guide for to calculate working cost of the unit, the results can change related to working conditions and unpredictable circumstances.

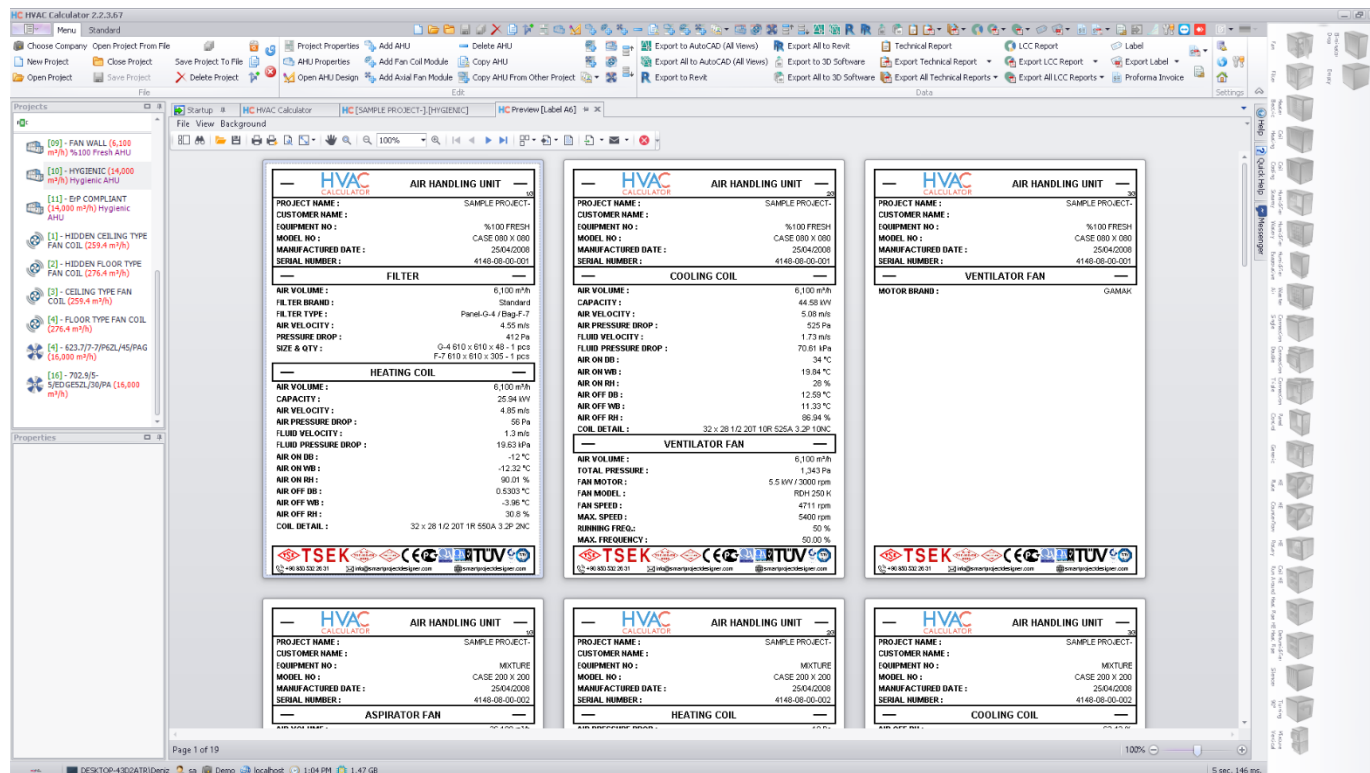
LIFE CYCLE COST			
Date	25/04/2008	Rev. Date	14/03/2024
Project ID	4148	Tracking Number	
Project Name	SAMPLE PROJECT - HYGIENIC - (1 QTY)		
AHU Name	HYGIENIC CASE 170X140		
AHU Model	HYGIENIC CASE 170X140		
HVAC CALCULATOR			
HVACCALC.V.			Page 2/2





### LABEL

You can print the AHU module labels by using the label section of the software. You can use your own logo and your own company information. You can export the label as PDF, Excel, Word or Html file formats. You can also send the file in that format via e-mail from the program.






### LABEL PAGES

<p><b>HVAC CALCULATOR</b></p> <p><b>AIR HANDLING UNIT</b></p> <p>PROJECT NAME: SAMPLE PROJECT-10 CUSTOMER NAME: EQUIPMENT NO: %100 FRESH MODEL NO: CASE 080 X 080 MANUFACTURED DATE: 25/04/2008 SERIAL NUMBER: 4148-08-00-001</p> <p><b>FILTER</b></p> <p>AIR VOLUME: 6,100 m³/h FILTER BRAND: Standard FILTER TYPE: Panel G-4 / Bag F-7 AIR VELOCITY: 4.55 m/s PRESSURE DROP: 412 Pa SIZE &amp; QTY: G-4 610 x 610 x 48 - 1 pcs F-7 610 x 610 x 305 - 1 pcs</p> <p><b>HEATING COIL</b></p> <p>AIR VOLUME: 6,100 m³/h CAPACITY: 25.94 kW AIR VELOCITY: 4.85 m/s AIR PRESSURE DROP: 56 Pa FLUID VELOCITY: 1.3 m/s FLUID PRESSURE DROP: 19.63 kPa AIR ON DB: -12 °C AIR ON WB: -12.32 °C AIR ON RH: 90.01 % AIR OFF DB: 0.5303 °C AIR OFF WB: -3.96 °C AIR OFF RH: 30.8 % COIL DETAIL: 32 x 28 1/2 20T 1R 550A 3.2P 2NC</p> <p><b>TSEK CECC TUV</b></p>	<p><b>HVAC CALCULATOR</b></p> <p><b>AIR HANDLING UNIT</b></p> <p>PROJECT NAME: SAMPLE PROJECT-20 CUSTOMER NAME: EQUIPMENT NO: %100 FRESH MODEL NO: CASE 080 X 080 MANUFACTURED DATE: 25/04/2008 SERIAL NUMBER: 4148-08-00-001</p> <p><b>COOLING COIL</b></p> <p>AIR VOLUME: 6,100 m³/h CAPACITY: 44.58 kW AIR VELOCITY: 5.08 m/s AIR PRESSURE DROP: 525 Pa FLUID VELOCITY: 1.73 m/s FLUID PRESSURE DROP: 70.61 kPa AIR ON DB: 34 °C AIR ON WB: 19.84 °C AIR ON RH: 28 % AIR OFF DB: 12.58 °C AIR OFF WB: 11.33 °C AIR OFF RH: 86.94 % COIL DETAIL: 32 x 28 1/2 20T 10R 525A 3.2P 10NC</p> <p><b>VENTILATOR FAN</b></p> <p>AIR VOLUME: 6,100 m³/h TOTAL PRESSURE: 1,343 Pa FAN MOTOR: 5.5 kW / 3000 rpm FAN MODEL: RDH 250 K FAN SPEED: 4711 rpm MAX. SPEED: 5400 rpm RUNNING FREQ.: 50 % MAX. FREQUENCY: 50.00 %</p> <p><b>TSEK CECC TUV</b></p>	<p><b>HVAC CALCULATOR</b></p> <p><b>AIR HANDLING UNIT</b></p> <p>PROJECT NAME: SAMPLE PROJECT-30 CUSTOMER NAME: EQUIPMENT NO: %100 FRESH MODEL NO: CASE 080 X 080 MANUFACTURED DATE: 25/04/2008 SERIAL NUMBER: 4148-08-00-001</p> <p><b>VENTILATOR FAN</b></p> <p>MOTOR BRAND: GAMAK</p> <p><b>TSEK CECC TUV</b></p>
<p><b>HVAC CALCULATOR</b></p> <p><b>AIR HANDLING UNIT</b></p> <p>PROJECT NAME: SAMPLE PROJECT-10 CUSTOMER NAME: EQUIPMENT NO: MIXTURE MODEL NO: CASE 200 X 200 MANUFACTURED DATE: 25/04/2008 SERIAL NUMBER: 4148-08-00-002</p> <p><b>ASPIRATOR FAN</b></p> <p><b>TSEK CECC TUV</b></p>	<p><b>HVAC CALCULATOR</b></p> <p><b>AIR HANDLING UNIT</b></p> <p>PROJECT NAME: SAMPLE PROJECT-20 CUSTOMER NAME: EQUIPMENT NO: MIXTURE MODEL NO: CASE 200 X 200 MANUFACTURED DATE: 25/04/2008 SERIAL NUMBER: 4148-08-00-002</p> <p><b>HEATING COIL</b></p> <p><b>TSEK CECC TUV</b></p>	<p><b>HVAC CALCULATOR</b></p> <p><b>AIR HANDLING UNIT</b></p> <p>PROJECT NAME: SAMPLE PROJECT-30 CUSTOMER NAME: EQUIPMENT NO: MIXTURE MODEL NO: CASE 200 X 200 MANUFACTURED DATE: 25/04/2008 SERIAL NUMBER: 4148-08-00-002</p> <p><b>COOLING COIL</b></p> <p><b>TSEK CECC TUV</b></p>






HVAC CALCULATOR AIR HANDLING UNIT	
PROJECT NAME :	SAMPLE PROJECT-10
CUSTOMER NAME :	
EQUIPMENT NO :	MIXTURE
MODEL NO :	CASE 200 X 200
MANUFACTURED DATE :	25/04/2008
SERIAL NUMBER :	4148-08-00-002
ASPIRATOR FAN	
AIR VOLUME :	26,100 m³/h
TOTAL PRESSURE :	695 Pa
FAN MOTOR :	11 kW / 1500 rpm
FAN MODEL :	RDH 630 R
FAN SPEED :	1238 rpm
MAX. SPEED :	1600 rpm
RUNNING FREQ.:	50 %
MAX. FREQUENCY:	50.00 %
MOTOR BRAND :	GAMAK
FILTER	
AIR VOLUME :	29,000 m³/h
FILTER BRAND :	Standard
FILTER TYPE :	Panel-G-4 / Bag-F-7
AIR VELOCITY :	2.41 m/s
PRESSURE DROP :	227 Pa
SIZE & QTY :	G-4 610 x 610 x 48 - 9 pcs F-7 610 x 610 x 305 - 9 pcs
HEATING COIL	
AIR VOLUME :	29,000 m³/h
CAPACITY :	144.8 kW
AIR VELOCITY :	2.66 m/s




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HVAC CALCULATOR AIR HANDLING UNIT	
PROJECT NAME :	SAMPLE PROJECT-20
CUSTOMER NAME :	
EQUIPMENT NO :	MIXTURE
MODEL NO :	CASE 200 X 200
MANUFACTURED DATE :	25/04/2008
SERIAL NUMBER :	4148-08-00-002
HEATING COIL	
AIR PRESSURE DROP :	18 Pa
FLUID VELOCITY :	1.03 m/s
FLUID PRESSURE DROP :	11.78 kPa
AIR ON DB :	0.5779 °C
AIR ON WB :	0.5779 °C
AIR ON RH :	100 %
AIR OFF DB :	15.99 °C
AIR OFF WB :	8.23 °C
AIR OFF RH :	35.08 %
COIL DETAIL :	32 x 28 1/2 28T 1R 1706A 3P 7NC
COOLING COIL	
AIR VOLUME :	29,000 m³/h
CAPACITY :	40.07 kW
AIR VELOCITY :	2.85 m/s
AIR PRESSURE DROP :	31 Pa
FLUID VELOCITY :	1.11 m/s
FLUID PRESSURE DROP :	31.87 kPa
AIR ON DB :	20.4 °C
AIR ON WB :	13.49 °C
AIR ON RH :	47.59 %
AIR OFF DB :	15.83 °C
AIR OFF WB :	11.75 °C




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HVAC CALCULATOR AIR HANDLING UNIT	
PROJECT NAME :	SAMPLE PROJECT-30
CUSTOMER NAME :	
EQUIPMENT NO :	MIXTURE
MODEL NO :	CASE 200 X 200
MANUFACTURED DATE :	25/04/2008
SERIAL NUMBER :	4148-08-00-002
COOLING COIL	
AIR OFF RH :	63.43 %
COIL DETAIL :	32 x 28 1/2 28T 2R 1711A 3P 7NC
VENTILATOR FAN	
AIR VOLUME :	29,000 m³/h
TOTAL PRESSURE :	1,201 Pa
FAN MOTOR :	15 kW / 1500 rpm
FAN MODEL :	RDH 630 R
FAN SPEED :	1516 rpm
MAX. SPEED :	1600 rpm
RUNNING FREQ.:	50 %
MAX. FREQUENCY:	50.00 %
MOTOR BRAND :	GAMAK




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HVAC CALCULATOR AIR HANDLING UNIT	
PROJECT NAME :	SAMPLE PROJECT-10
CUSTOMER NAME :	
EQUIPMENT NO :	VERTICAL MIXTURE
MODEL NO :	CASE 140 X 110
MANUFACTURED DATE :	25/04/2008
SERIAL NUMBER :	4148-08-00-003
VENTILATOR FAN	
AIR VOLUME :	8,000 m³/h
TOTAL PRESSURE :	550 Pa
FAN MOTOR :	3 kW / 3000 rpm
FAN MODEL :	RDH 315 R
FAN SPEED :	2728 rpm
MAX. SPEED :	3500 rpm
RUNNING FREQ.:	50 %
MAX. FREQUENCY:	50.00 %
MOTOR BRAND :	GAMAK
FILTER	
AIR VOLUME :	10,000 m³/h
FILTER BRAND :	Standard
FILTER TYPE :	Panel-G-4 / Bag-F-7
AIR VELOCITY :	1.99 m/s
PRESSURE DROP :	196 Pa
SIZE & QTY :	G-4 610 x 610 x 48 - 2 pcs G-4 610 x 305 x 48 - 3 pcs G-4 305 x 305 x 48 - 1 pcs F-7 610 x 610 x 305 - 2 pcs F-7 610 x 305 x 305 - 3 pcs F-7 305 x 305 x 305 - 1 pcs
HEATING COIL	




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HVAC CALCULATOR AIR HANDLING UNIT	
PROJECT NAME :	SAMPLE PROJECT-20
CUSTOMER NAME :	
EQUIPMENT NO :	VERTICAL MIXTURE
MODEL NO :	CASE 140 X 110
MANUFACTURED DATE :	25/04/2008
SERIAL NUMBER :	4148-08-00-003
HEATING COIL	
AIR VOLUME :	10,000 m³/h
CAPACITY :	160.3 kW
AIR VELOCITY :	2.33 m/s
AIR PRESSURE DROP :	45 Pa
FLUID VELOCITY :	0.51 m/s
FLUID PRESSURE DROP :	3.21 kPa
AIR ON DB :	0.5779 °C
AIR ON WB :	0.5203 °C
AIR ON RH :	99.06 %
AIR OFF DB :	50.05 °C
AIR OFF WB :	20.2 °C
AIR OFF RH :	5.1 %
COIL DETAIL :	38 x 33 5/8 22T 3R 1420A 3.2P 11NC
COOLING COIL	
AIR VOLUME :	10,000 m³/h
CAPACITY :	48.91 kW
AIR VELOCITY :	2.22 m/s
AIR PRESSURE DROP :	46 Pa
FLUID VELOCITY :	1.36 m/s
FLUID PRESSURE DROP :	36.59 kPa
AIR ON DB :	29.92 °C
AIR ON WB :	18.6 °C

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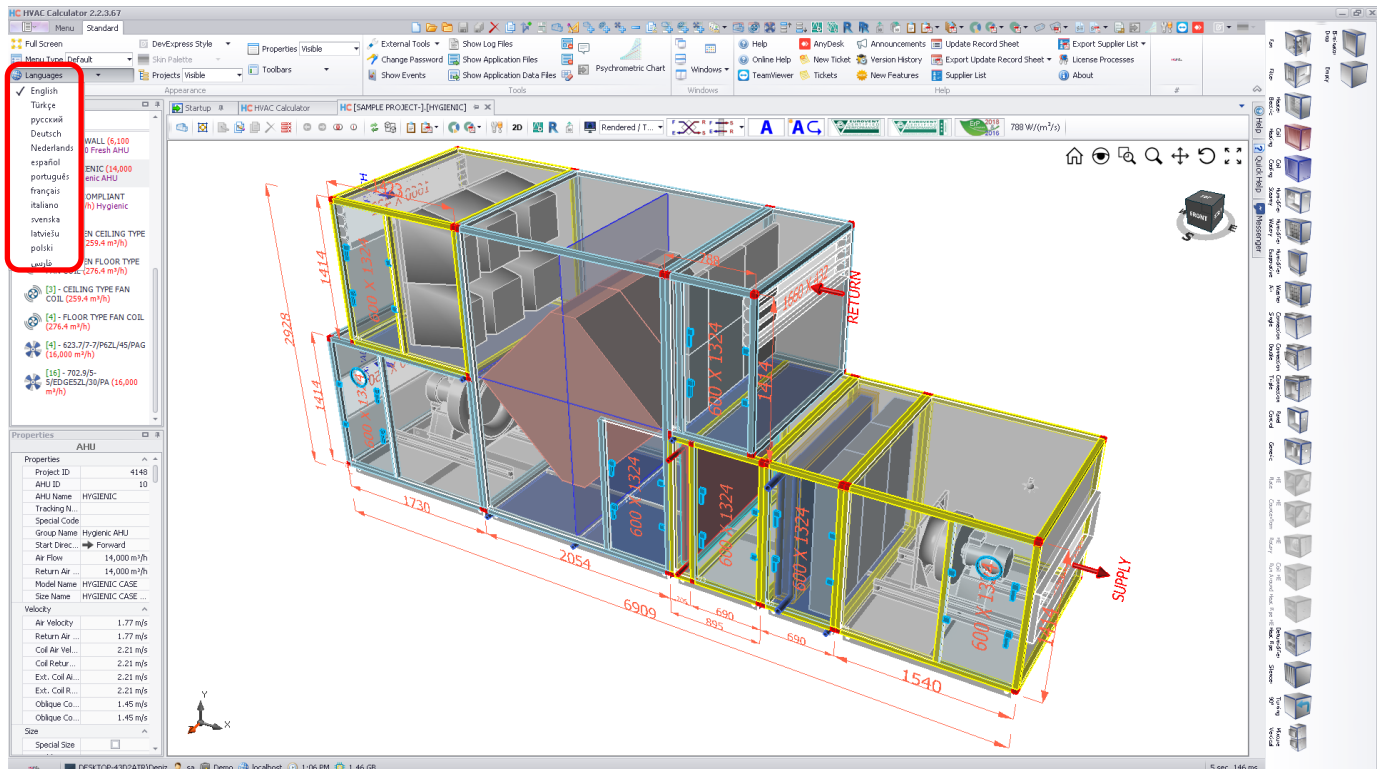
HVAC CALCULATOR AIR HANDLING UNIT	
PROJECT NAME :	SAMPLE PROJECT-30
CUSTOMER NAME :	
EQUIPMENT NO :	VERTICAL MIXTURE
MODEL NO :	CASE 140 X 110
MANUFACTURED DATE :	25/04/2008
SERIAL NUMBER :	4148-08-00-003
COOLING COIL	
AIR ON RH :	35.09 %
AIR OFF DB :	15.62 °C
AIR OFF WB :	13.01 °C
AIR OFF RH :	75.85 %
COIL DETAIL :	32 x 28 1/2 28T 4R 1405A 3.2P 14NC
ASPIRATOR FAN	
AIR VOLUME :	10,000 m³/h
TOTAL PRESSURE :	917 Pa
FAN MOTOR :	5.5 kW / 3000 rpm
FAN MODEL :	RDH 355 R
FAN SPEED :	2676 rpm
MAX. SPEED :	3300 rpm
RUNNING FREQ.:	50 %
MAX. FREQUENCY:	50.00 %
MOTOR BRAND :	GAMAK

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## MULTIPLE LANGUAGE SUPPORT (TURKISH, ENGLISH, RUSSIAN, GERMAN, DUTCH, SPANISH, FRENCH, LATVIAN, POLISH)

All the screens of program can operate in Turkish, English, Russian, German, Dutch, Spanish, Portuguese, French, Italian, Swedish, Latvian, Polish, Persian. Software language can be changed by using the “Languages” menu.



## ENGLISH AND GERMAN MATERIAL FORMS

## ENGLISH AND SPANISH TECHNICAL REPORT



Exp. No. 00176  
2016

EXP. COMPLIANT TO EUROPEAN DIRECTIVE VENTILATION UNITS (WU)

Unit ID: 41-01-00-010-010



ASPA GENERAL



ASPA GENERAL

TECHNICAL DATA			
Date	25/04/2008	Rev. Date	14/03/2004
Project ID	4148	Tracking Number	
Project Name	SAMPLE PROJECT		
AHU Name	HYGIENIC (1 QTY)		
AHU Model	HYGIENIC CASE 170X140 [1400 CHE C/WC HWC]		



WACALC.V. Page 1/15



GENERAL SPECIFICATIONS					
Air Flow	Return Air Flow	Frame	Dimensions (Case/Plenum/Supply/Return)		
14,000 m <sup>3</sup> /h	14,000 m <sup>3</sup> /h	Oval Profile 24	Case/Plenum/Supply/Return		
Air Velocity	Return Air Velocity	Insulation Material	W 1900xH 2350xL 700		
1.77 m/s	1.77 m/s	40 mm Polyurethane	Total Weight	895 m	
Coil Air Velocity	Air Density	Outside Sheet Material	Base Height	Roof (Inside)	
2.18 m/s	1.2131 kg/m <sup>3</sup>	0.6 mm Painted Galvalume	100 mm	N/A	
Design Outdoor Temp. (W/S)	HW/C Capacity (W/S)	Insulate Sheet Material	Motor Phase	11 kW / 7.5 kW	
12.0°C (50°F)	118.6 kW / -28.6 kW	0.5 mm Stainless 304	Total Absorbed Power	12.35 kW	
Design Indoor Temp. (W/S)	Total Cooling Capacity	Total Sensible Capacity			
24.0°C (75°F)	60.37 kW	50.09 kW			
Design Outdoor Temp. (W/S)	Specific Fan Power (SFP Total)	Ex-Prod	External Static Pressure	Return External Static Pressure	
24.0°C (75°F)	788 W/(m <sup>3</sup> /h)	0.89 / 0.89	750 Pa	600 Pa	
Design Outdoor Temp. (W/S)	ERP Compliance	ERP Code	NRVU - BVU		
24.0°C (75°F)	2016				

SOUND POWER LEVEL (dB)									
Frequency Hz	250	500	1000	2000	4000	8000	Low/B		
Return Air Sound Power Level	70.1	74.1	83.3	87.2	92.5	87.8	34.7	57.5 dBA	
Air Outlet Induct Sound Power Level	85.0	92.5	96.4	94.7	89.6	88.5	82.8	98.7 dBA	
Air Inlet Induct Sound Power Level	66.0	73.6	77.4	75.7	75.6	74.6	68.8	82.1 dBA	
Return Air Outlet Induct Sound Power Level	89.1	101.1	94.3	91.2	84.5	84.8	76.7	97.1 dBA	
Return Air Inlet Induct Sound Power Level	80.1	92.1	85.3	82.2	77.5	77.8	69.7	88.6 dBA	

MD MECHANICAL PROPERTY CLASSIFICATIONS													
CASING ACOUSTICAL INSULATION (dB)													
Model	CS Class	CAL Class +80 Pa [B] +60 Pa [B]	CAL Class +100 Pa [B] +80 Pa [B]	FRL Class	TT Class	TBF Class	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
CASE	D1 [B]	L1 [M/S1] [B]	L1 [M/S1] [B]	F9 [B]	T2	TB2	19	27	31	34	24	27	42












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Designer: Cüneyt Nguyen Huu

14/03/2024

**ECP** 2014  
2016

**EIP - CONFORME A DIRECTIVA EUROPEA DE UNIDADES DE VENTILACIÓN (UTA)**

Línea ID: 41-48-08-010

DATOS TÉCNICOS			
Fecha	25/04/2008	Fecha rev.	14/03/2024
ID Proyecto	4148	Número de rasbro	
Nombre de proyecto	SAMPLE PROJECT		
Nombre UTA	HYGIENIC (1 GAN)		
Modelo UTA	HYGIENIC CASE 170 X 140 [1400 CHE DWC HWC]		

HVACCALC.V  
 Página 1/16

ESPECIFICACIONES GENERALES				
Caudal de Impulsión	Caudal de retorno	Marcos	Dimensiones [mm] (Tamaño exterior x ancho x altura)	
14.000 m³/h	14.000 m³/h	Oval Profile 24	H 1.800 x H2 320 x B 700	
Velocidad en impulsión	Velocidad en retorno	Materiales:	Peso total	Aislado
1,77 m/s	1,77 m/s	40 mm Polyurethane	2.474 kg	895 m
Velocidad en batería	Densidad de aire	Material de Laminado exterior	Ahora base	Torcedor (Interior)
2,18 m/s	1.2131 kg/m³	0.6 mm Painted Galvanize	100 mm	N/A
Condiciones exteriores (Bw-Mt)	Capacidad total RC (Bw-Mt)	Materiales de Laminado interior	Potencia de motor	
t=12°C/PM/DA (COMPARAR WDB) t=26°C/DP/DA (AMBIGUA CENTRAL)	118,6 kW / -28,6 kW	0.5 mm Stainless Steel	11 kW / 7,5 kW	
Capacidad total calce	Capacidad total frío	Capacidad total sensible	Potencia total absorbida	
62,32 kW	60,37 kW	90,09 kW	12,35 kW	
Potencia específica vent. (EPF Td)	Complimiento ERP	Código ERP	Presión estática externa	Batoma presión estática externa
788 W/(m³/s)	2018	NRVU - BVU	750 Pa	600 Pa

NIVEL DE POTENCIA ACÚSTICA (dB)								
Frecuencia Hz	125	250	500	1000	2000	4000	8000	Lw dBA
Ruido radiante	70.1	74.1	63.9	57.2	50.5	47.8	34.7	67.5 dBA
Potencia acústica Impulsión	80.1	92.6	96.4	94.7	89.6	88.6	82.8	98.7 dBA
Potencia acústica Admisión	66.0	73.6	77.4	75.7	76.6	74.6	68.8	82.1 dBA
Potencia acústica Expiración	89.1	101.1	94.3	91.2	84.5	84.8	76.7	97.1 dBA
Potencia acústica Retorno	80.1	92.1	85.3	82.2	77.5	77.8	69.7	88.6 dBA

CLASIFICACIÓN PROPIEDADES MECÁNICAS DE CARGASA														
Modelo	Resistencia				Ruptura de fibra	Transmisión térmica	Rotura por viento	AISLAMIENTO ACÚSTICO DE LA CARCASA [dB]						
	Mediana	Extranormalidad +800 Pa [Pa]	+700 Pa [Pa]	+400 Pa [Pa]				125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
CASE	D1 [M]	I1 [M]	I1 [M]	I1 [M]	I1 [M]	T2	T2	19	27	31	34	34	37	42

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Diseñador: Coong Nguyen Huu
Cálculo: J. J. J.



## RUSSIAN AND GERMAN TECHNICAL REPORT

**ErP 2018**  
ErP - СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ ЕВРОПЕЙСКОЙ ДИРЕКТИВЫ ВЕНТИЛЯЦИОННЫЕ УСТАНОВКИ (414)

**TECHNISCHE DATEN**  
Дата: 25/04/2008  
ID проекта: 4148  
Название проекта: SAMPLE PROJECT  
Название установки: HYGIENIC - (1 КОЛ-ВО)  
Модель установки: HYGIENIC CASE 170X140 [1400 CHE CWC HWC]

**HVAC CALCULATOR**  
HVACCALC.V.  
Страница: 1/17



**СВОДНАЯ СПЕЦИФИКАЦИЯ**

Расход воздуха	Расход вытяжного воздуха	Рамы	Сборный (mm)
14,000 m³/h	14,000 m³/h	Oval Profile 24	W1.300xH2.328xL7.000
Скорость воздуха	Скорость вытяжного воздуха	Материал изоляции	Общий вес
1.77 m/s	1.77 m/s	40 mm Polyurethane	2,474 kg
Скорость воздуха на теплообменнике	Плотность воздуха	Материал наружного листа	Высота основания
2.18 m/s	1.2131 kg/m³	0.6 mm Painted Galvanize	895 m
Расчетная нагрузка теплоемкости (3-й)	Мощность рекуперации (3-й)	Материал внутреннего листа	Мощность двигателя
118.6 kW / -28.6 kW	118.6 kW / -28.6 kW	0.5 mm Stainless 304	11 kW / 7.5 kW
Суммарная мощность нагрева	Суммарная мощность охлаждения	Суммарная мощность охлаждения воды	Общая потребляемая мощность
62.32 kW	60.37 kW	50.09 kW	12.35 kW
Удельная мощность вентилятора (EFP-генератор)	Соответствие требованиям ErP 2018	Код ErP	Is-Pref
788 W/(m³/s)	NRVU - BVU	0.89 / 0.89	Внешнее статическое давление
			750 Pa
			Внешнее статическое давление вытяжного в-ва
			600 Pa

**УРОВЕНЬ ЗВУКОВОЙ МОЩНОСТИ (dB)**

Частота, Гц	125	250	500	1000	2000	4000	8000	LwA,dB
Уровень звуковой мощности снаружи установки	70.1	74.1	63.3	57.2	50.5	47.8	34.7	67.6 dBA
Уровень звуковой мощности на входе в "Теплообменник"	85.0	92.6	96.4	94.7	89.6	86.6	82.8	98.7 dBA
Уровень звуковой мощности на выходе с внешнего в-ва	86.0	73.6	77.4	75.7	75.6	74.6	68.8	82.1 dBA
Уровень звуковой мощности на входе вытяжного в-ва	89.1	101.1	94.3	91.2	84.5	84.8	76.7	97.1 dBA
Уровень звуковой мощности на выходе вытяжного в-ва	80.1	92.1	85.3	82.2	77.5	77.8	69.7	88.6 dBA

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Разработчик: Cuong Nguyen Huu

14.03.2024

**ErP 2018**  
ErP - ENTSPRICHT LÜFTUNGSGERÄTEN GEMÄSS EUROPÄISCHER RICHTLINIE (414)

**TECHNISCHE DATEN**  
Datum: 25/04/2008  
Projekt Nr.: 4148  
Proj. Nachschußung: gere.  
Bezeichnung: HYGIENIC - (1 MENGE)  
AHU-Modell: HYGIENIC CASE 170X140 [1400 CHE CWC HWC]

**HVAC CALCULATOR**  
HVACCALC.V.  
Seiten: 1/17



**ALLGEMEINE SPEZIFIKATIONEN**

Luftvolumenstrom	Abluft-Volumenstrom	Rahmen	Abmessungen (mm) Größe Pedestal (Diameter Round)
14,000 m³/h	14,000 m³/h	Oval Profile 24	W1.300xH2.328xL7.000
Luftgeschwindigkeit	Abluft-Geschwindigkeit	Dimmmaterial	Gesamtgewicht
1.77 m/s	1.77 m/s	40 mm Polyurethane	2,474 kg
Luftgeschwindigkeit über Register	Luftdruck	Panel surface	Grundhöhenhöhe
2.18 m/s	1.2131 kg/m³	0.6 mm Painted Galvanize	100 mm
Außentemperatur (W-9)	HRS-Kapazität (W-9)	Panel innen	Mindehtung
118.6 kW / -28.6 kW	118.6 kW / -28.6 kW	0.5 mm Stainless 304	11 kW / 7.5 kW
Heizleistung (gen.)	Kühlleistung (gen.)	Gesamte sinnvolle Kapazität	Gesamte absolute Leistung
60.37 kW	60.37 kW	50.09 kW	12.35 kW
spezifische Ventilatorleistung (EFP-Generator)	Einbauberg ErP	ErP Code	Is-Pref
788 W/(m³/s)	2018	NRVU - BVU	0.89 / 0.89
			Statischer Druck (intern)
			750 Pa
			Abluft Statischer Druck (intern)
			600 Pa

**SCHALLPEL (dB)**

Frequenz Hz	125	250	500	1000	2000	4000	8000	LwA,dB
Gehörschallleistung	70.1	74.1	63.3	57.2	50.5	47.8	34.7	67.6 dBA
Zufuhrleistung (dB)	85.0	92.6	96.4	94.7	89.6	86.6	82.8	98.7 dBA
Außendruckleistung (dB)	86.0	73.6	77.4	75.7	75.6	74.6	68.8	82.1 dBA
Fachdruckleistung (dB)	89.1	101.1	94.3	91.2	84.5	84.8	76.7	97.1 dBA
Abdruckleistung (dB)	80.1	92.1	85.3	82.2	77.5	77.8	69.7	88.6 dBA

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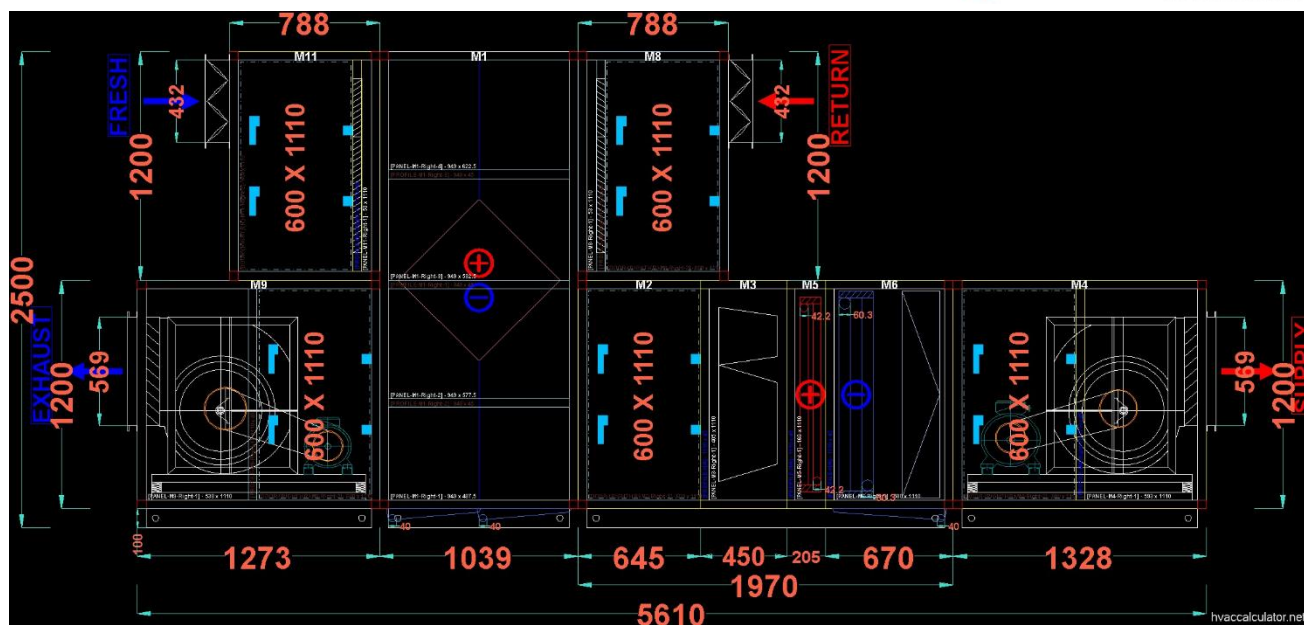
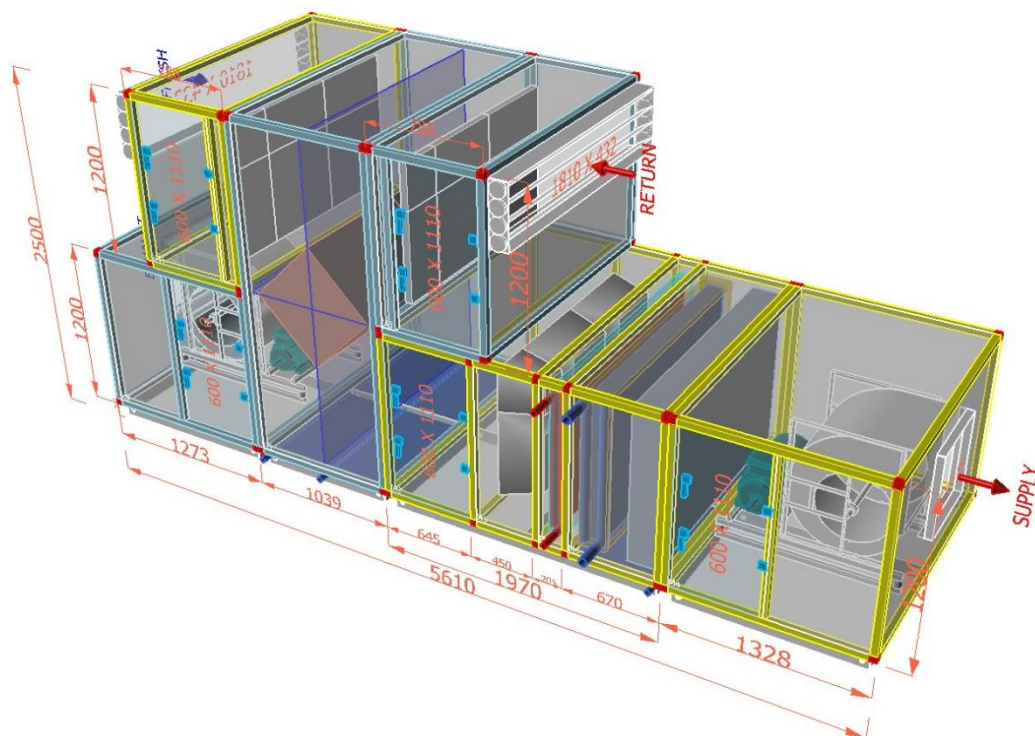
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Phaser: Cuong Nguyen Huu

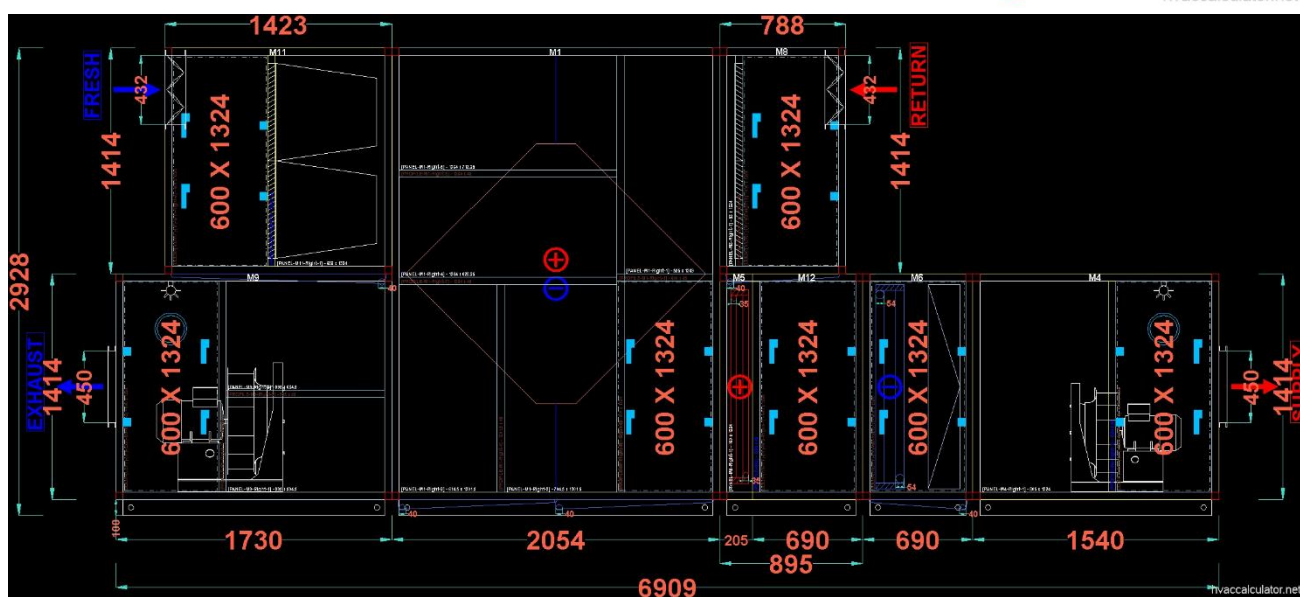
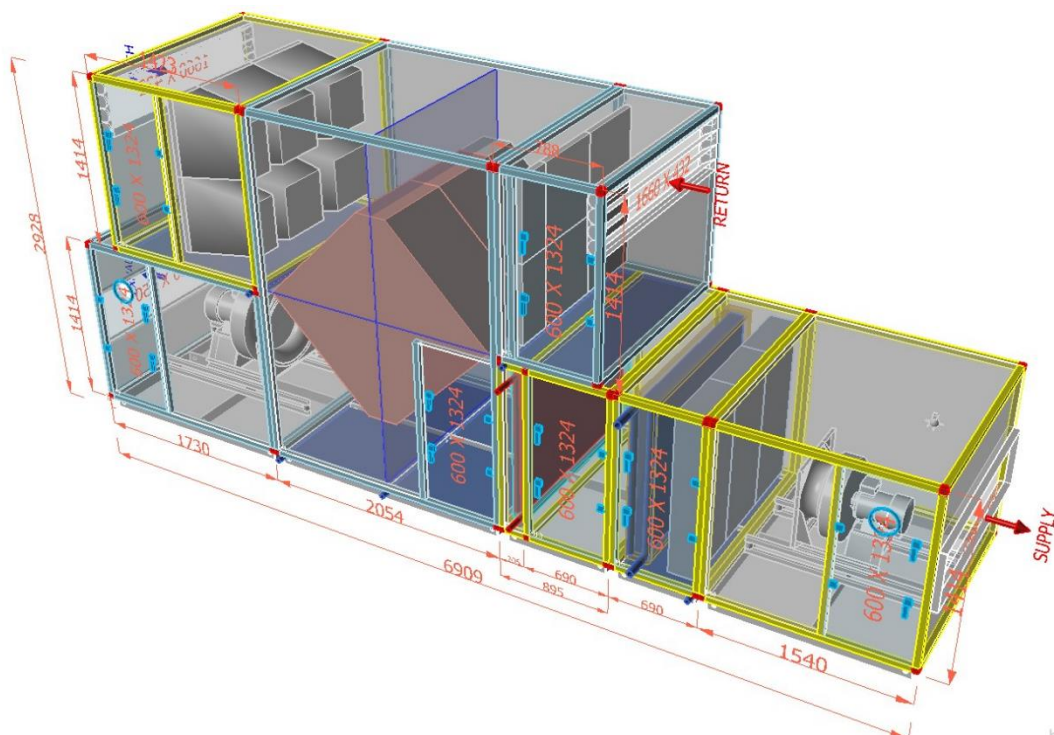
14.03.2024

## HEAT EXCHANGERS

## CROSSFLOW HEAT EXCHANGER

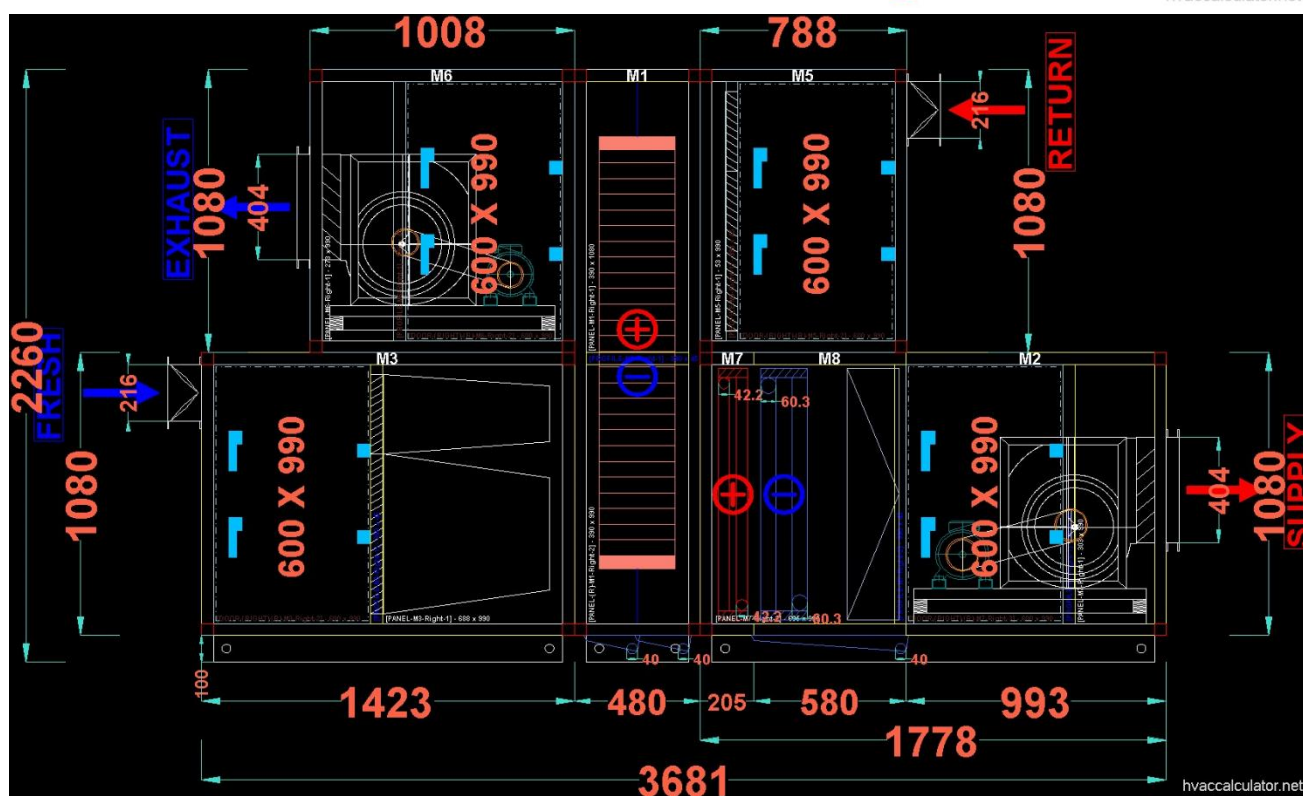
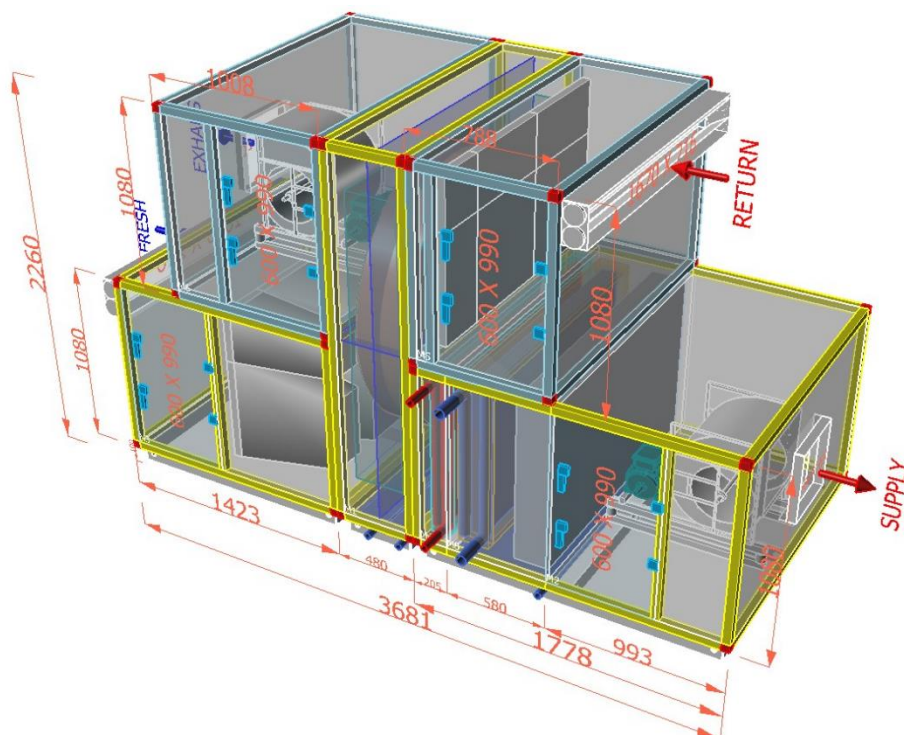


## COUNTERFLOW HEAT EXCHANGER



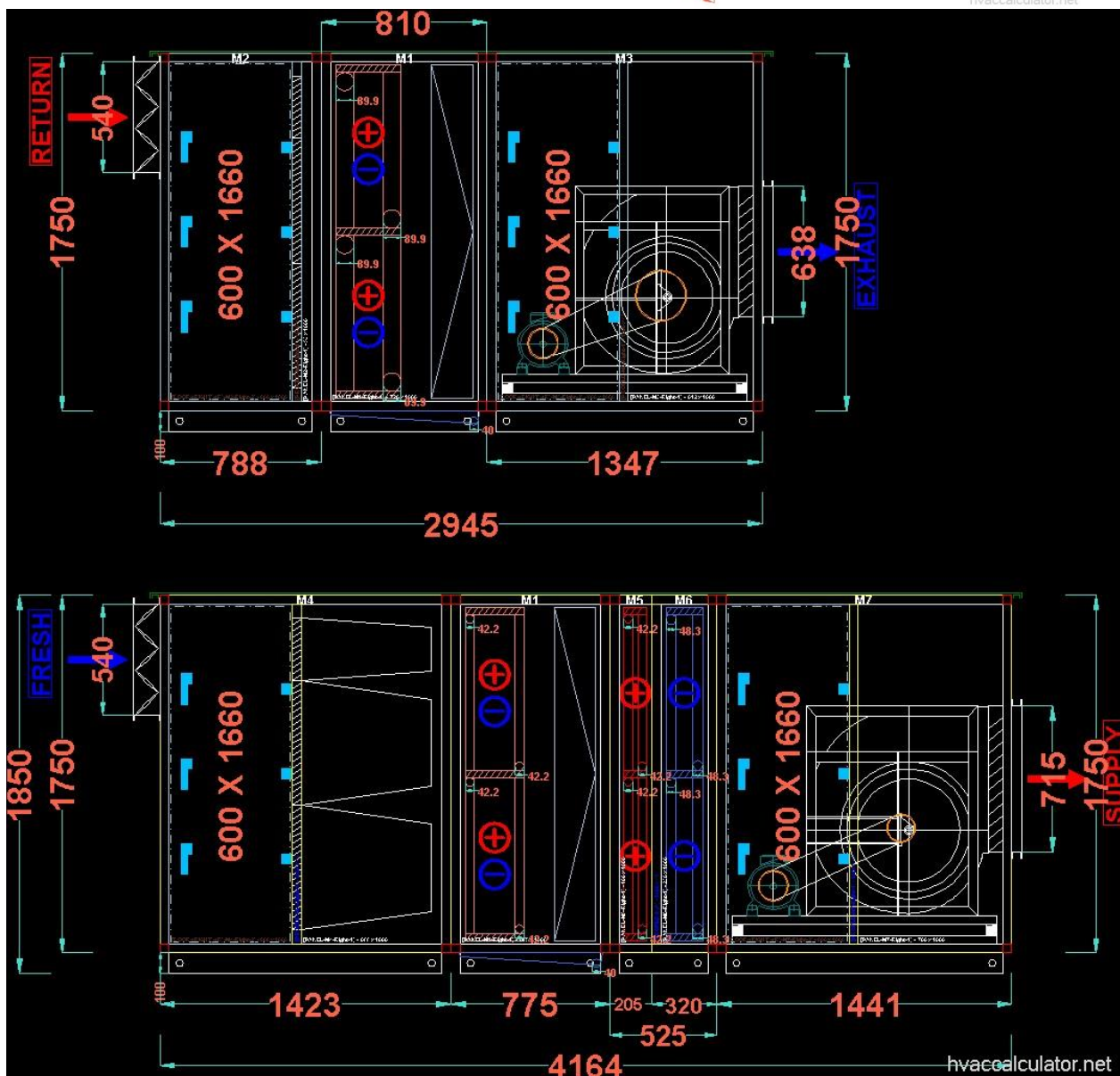
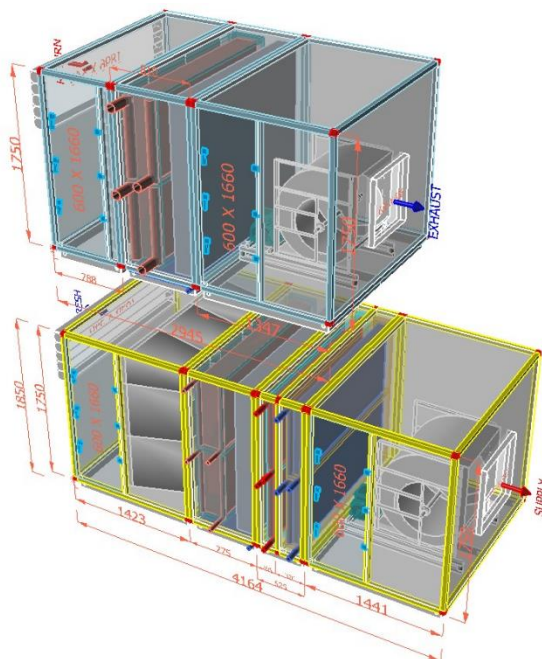


## ROTARY HEAT EXCHANGER



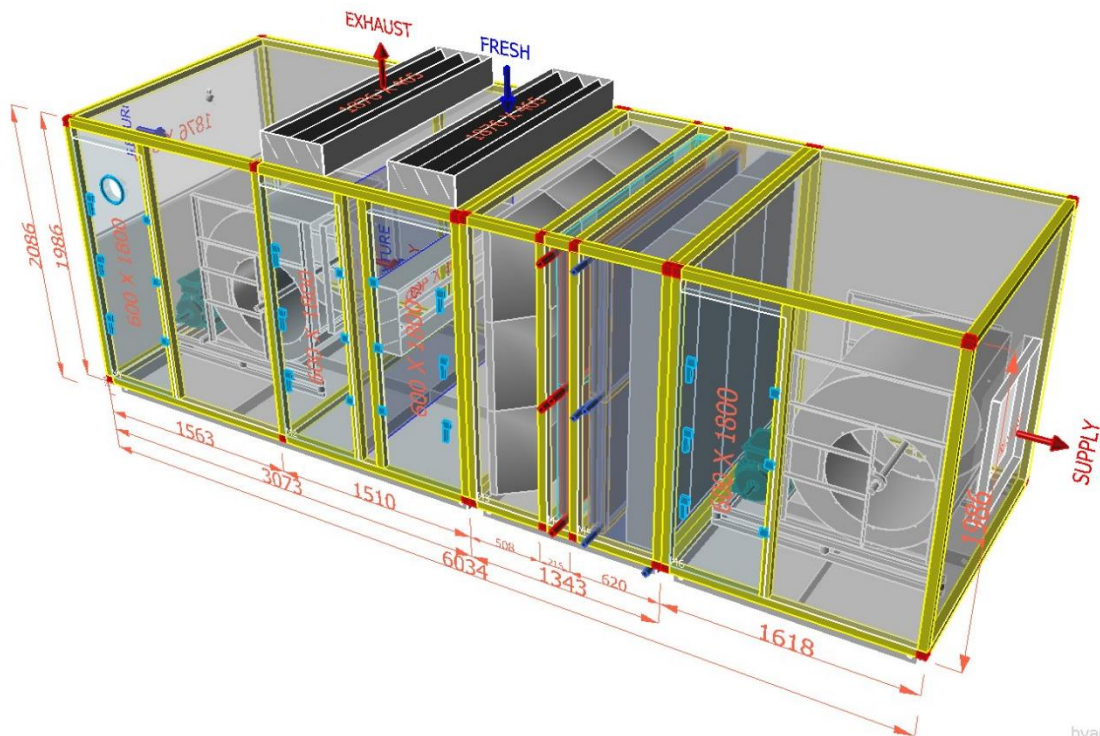
### hvaccalculator.net

## RUN AROUND COIL HEAT EXCHANGER

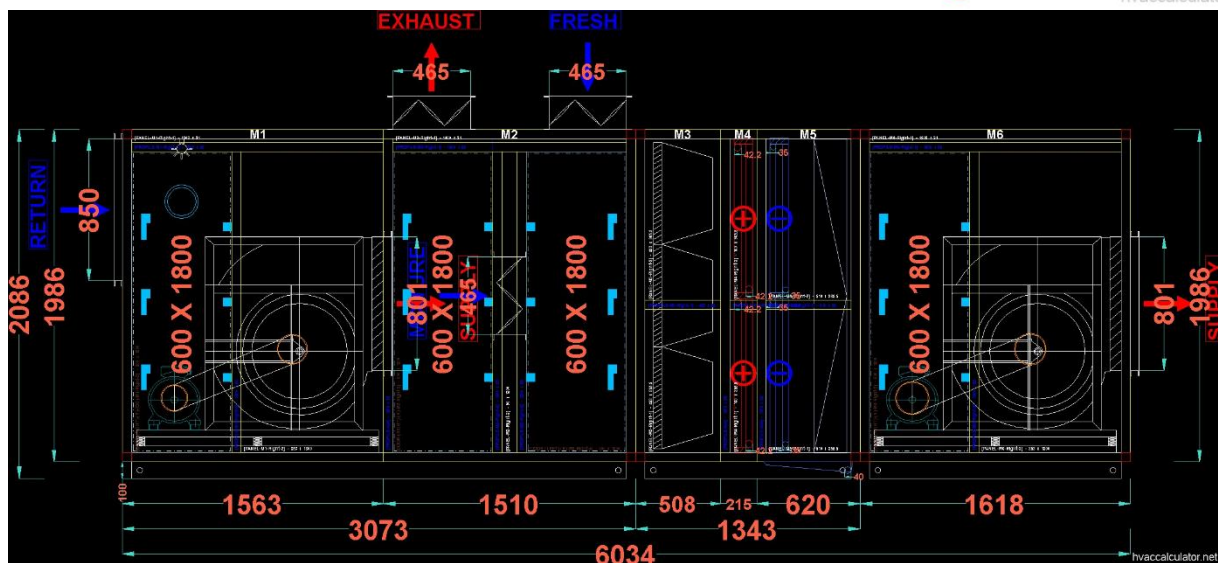


## MIXTURE MODULES

### HORIZONTAL MIXTURE



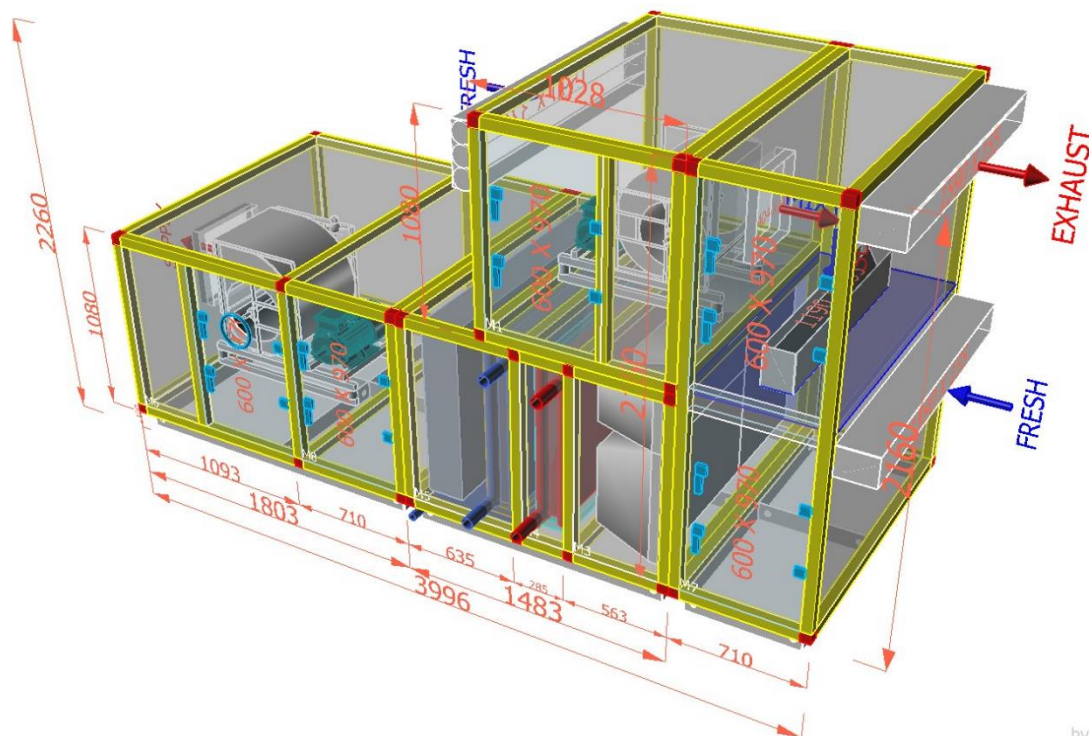
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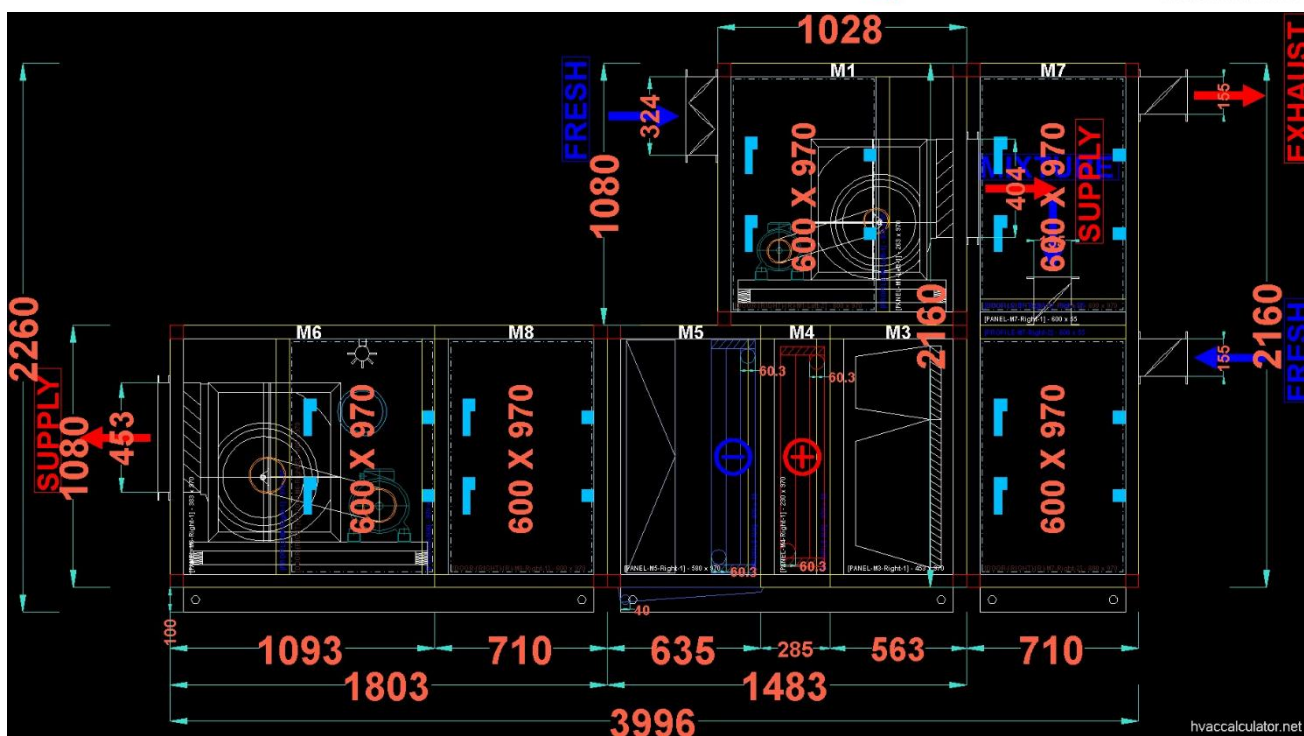
hvaccalculator.net



## VERTICAL MIXTURE

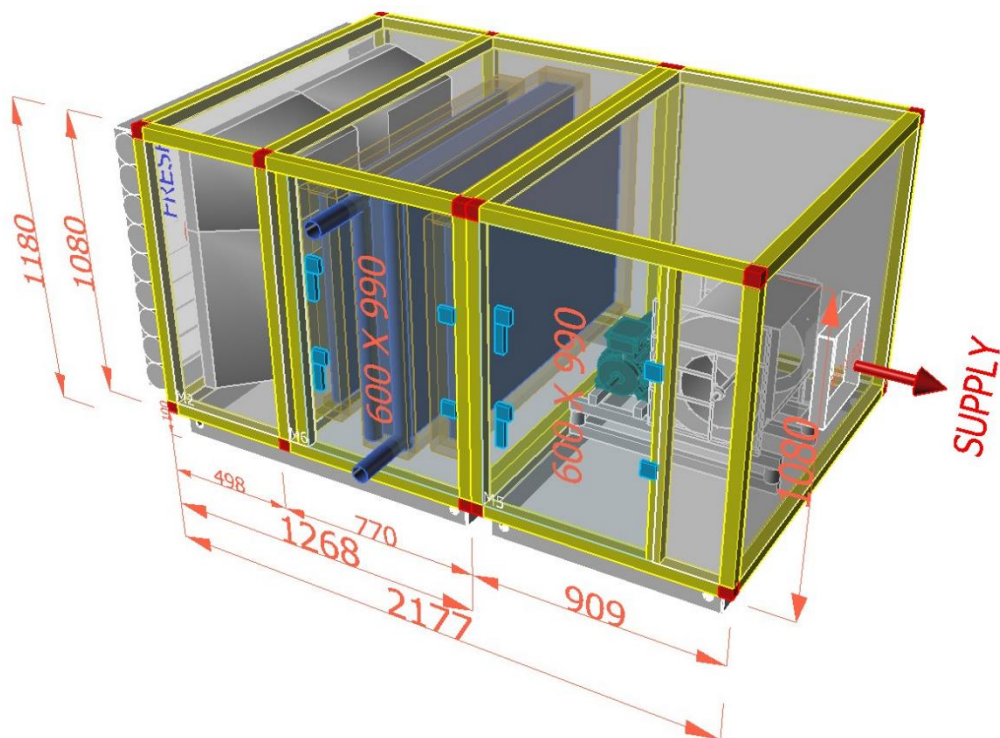


hvaccalculator.net

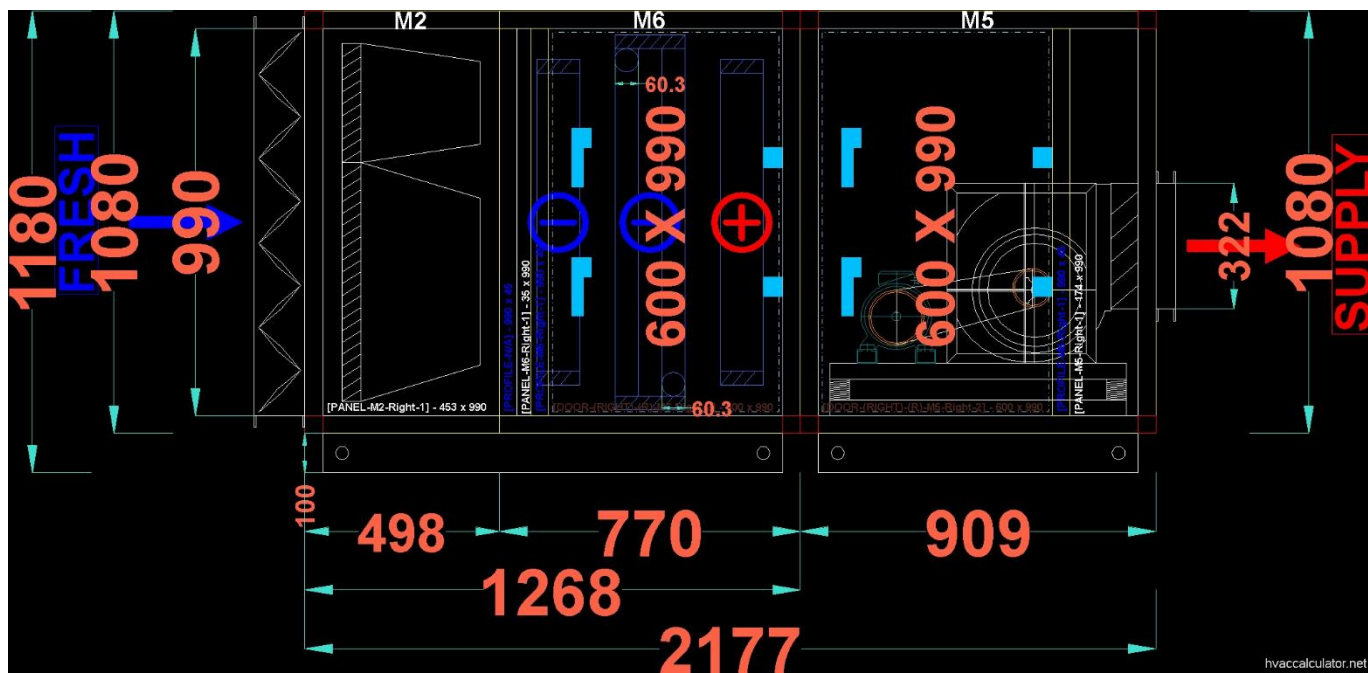


hvaccalculator.net

## HORSE SHOE HEAT PIPE

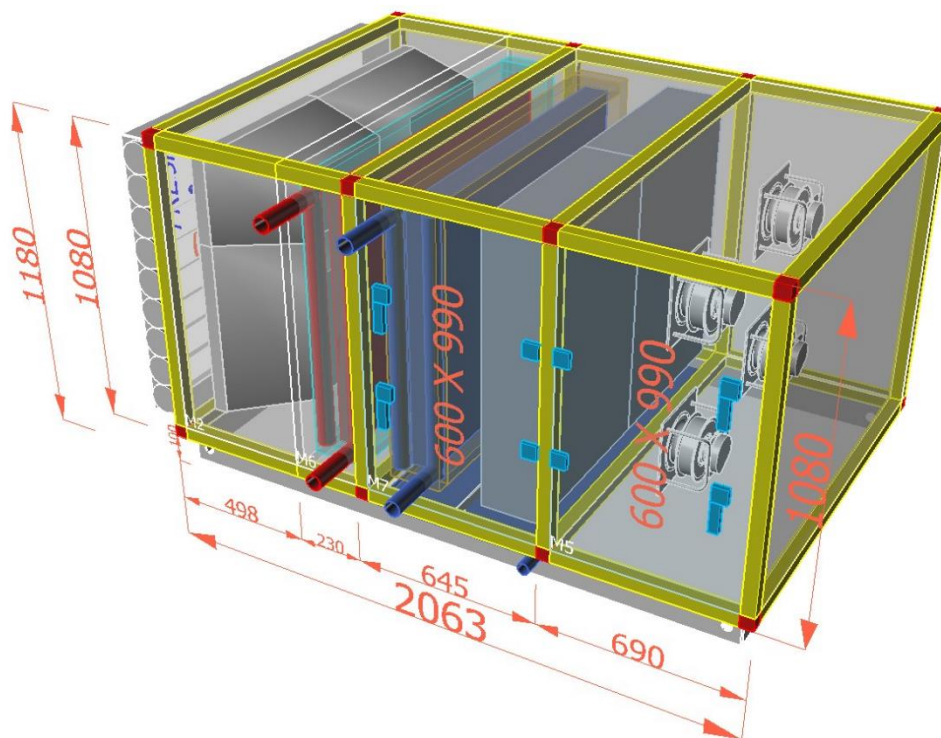


hvaccalculator.net

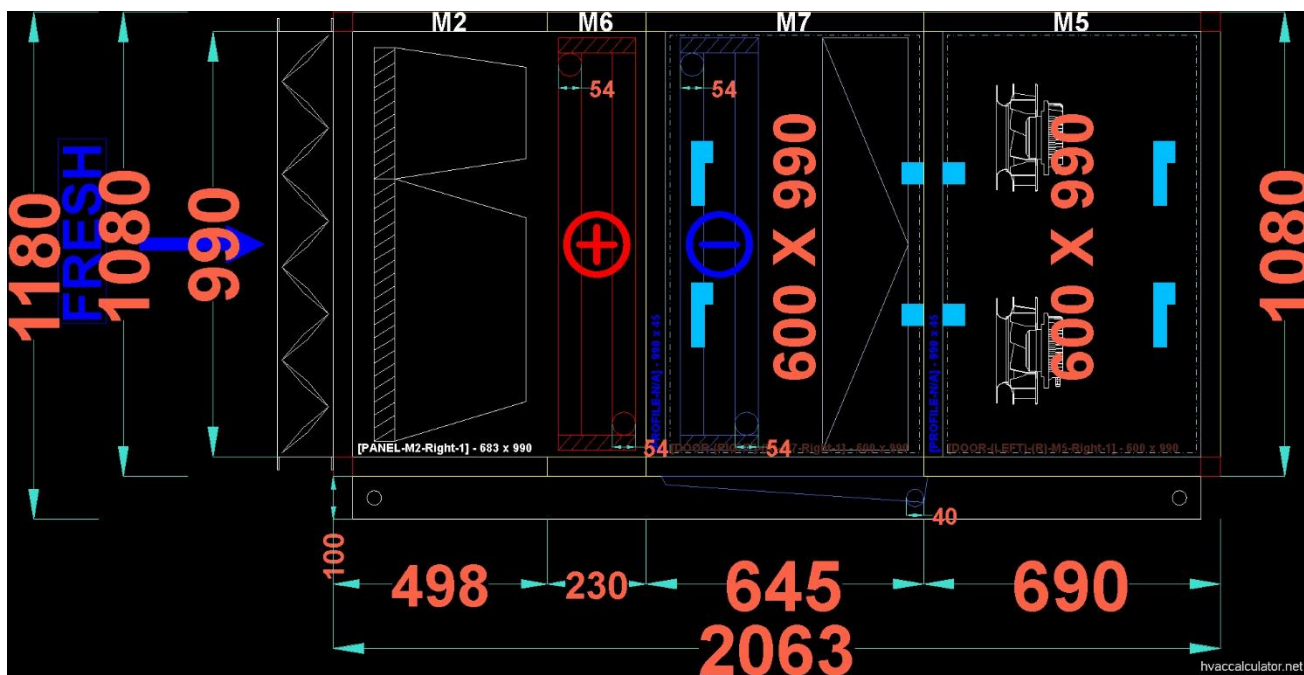


hvaccalculator.net

## FAN WALL



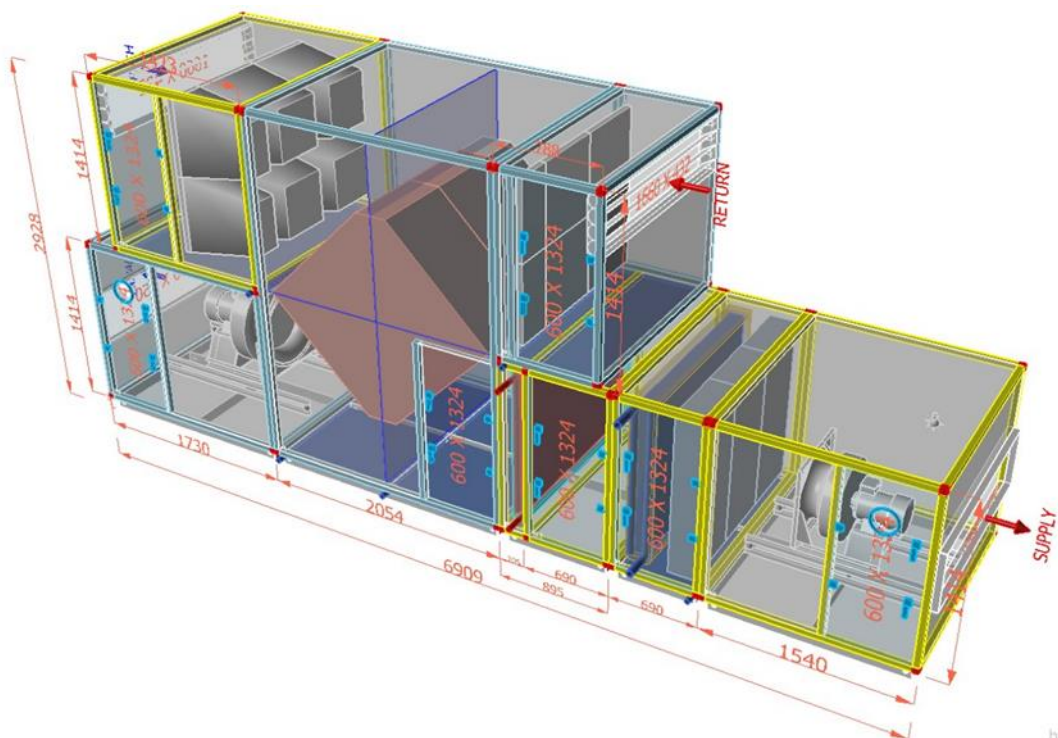
hvaccalculator.net



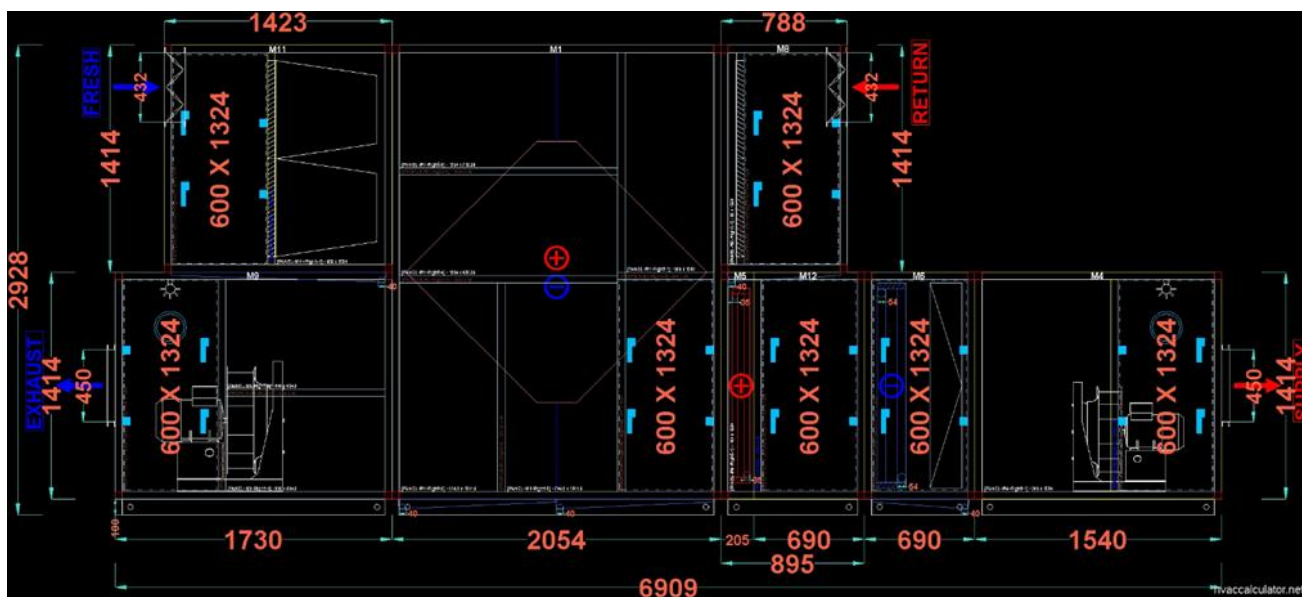
hvaccalculator.net



## HYGIENIC AHU



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## PRODUCTION / PRICING

You can obtain detailed production information of all material and workmanship used during the production of AHU, based on module, AHU and project. You can calculate the price of the project and production duration of the AHU. You can get the detailed BOM (Bill Of Materials) inside this section.

## AHU GRAND TOTALS

HC Production - [4149] [SAMPLE PROJECT]

Calculate Proforma Invoice Export Data Drawings Load Default Grid Settings

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60  
Currency Price \* 35.0814 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0

Project Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Doors Module Sizes Production Durations Spare Parts

AHU Fan Coil Axial Fan

AHU Name	Model Name	Air Flow	Return Air Flow	Air Velocity	Return Air Velocity	Coil Air Velocity	Coil Return Air Velocity	Air Direction	Return Air Direction	Detailed Air Direction	Width	Height	Top Layer Height	Inside Sheet Name	Inside Sheet Thickness
<b>Group Name:</b>															
HORSE SHOE HEAT PIPE	CASE 140 X 110	6,100 m³/h	6,100 m³/h	1.29 m/s	1.29 m/s	1.67 m/s	1.67 m/s	→ Straight	← Opposit		1414 mm	1080 mm	1080 mm	Galvanize	
<b>Group Name: %100 Fresh AHU</b>															
%100 FRESH	CASE 080 X 080	6,100 m³/h	6,100 m³/h	3.36 m/s	3.36 m/s	5.03 m/s	5.03 m/s	→ Straight	← Opposit		800 mm	800 mm	800 mm	Galvanize	
FAN WALL	CASE 140 X 110	6,100 m³/h	6,100 m³/h	1.29 m/s	1.29 m/s	1.67 m/s	1.67 m/s	→ Straight	← Opposit		1414 mm	1080 mm	1080 mm	Galvanize	
<b>Group Name: AHU with Counterflow Heat Exchanger</b>															
COUNTERFLOW HEAT RECOVERY	CASE 230 X 200	14,000 m³/h	14,000 m³/h	1.94 m/s	1.94 m/s	2.38 m/s	2.38 m/s	→ Straight	← Opposit		1900 mm	1200 mm	1200 mm	Galvanize	
<b>Group Name: AHU with Plate Heat Exchanger</b>															
PLATE HEAT RECOVERY	CASE 230 X 200	14,000 m³/h	14,000 m³/h	1.94 m/s	1.94 m/s	2.38 m/s	2.38 m/s	→ Straight	← Opposit		1900 mm	1200 mm	1200 mm	Galvanize	
<b>Group Name: AHU with Rotary Heat Exchanger</b>															
ROTARY HEAT RECOVERY	CASE 170 X 140	8,000 m³/h	8,000 m³/h	1.34 m/s	1.34 m/s	1.69 m/s	1.69 m/s	→ Straight	← Opposit		1760 mm	1080 mm	1080 mm	Galvanize	
<b>Group Name: AHU with Run-Around Coil (RC/RF)</b>															
RUN AROUND COIL HEAT RECOV.	CASE 200 X 170	22,000 m³/h	20,000 m³/h	1.94 m/s	1.77 m/s	2.38 m/s	2.15 m/s	→ Straight	→ Straight		1986 mm	1750 mm	1750 mm	Galvanize	
<b>Group Name: Hygienic AHU</b>															
HYGIENIC	HYGIENIC CASE 170 X 140	14,000 m³/h	14,000 m³/h	1.77 m/s	1.77 m/s	2.21 m/s	2.21 m/s	→ Straight	← Opposit		1750 mm	1414 mm	1414 mm	Stainless 304	

Ok Cancel

## FAN COIL GRAND TOTALS

HC Production - [4149] [SAMPLE PROJECT]

Calculate Proforma Invoice Export Data Drawings Load Default Grid Settings

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60  
Currency Price \* 35.0814 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0

Project Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Doors Module Sizes Production Durations Spare Parts

AHU Fan Coil Axial Fan

Labor Cost	Total Labor Cost	General Cost	Total General Cost	Duration	Total Duration	Module Name	Type Name	Model Name	Fan Coil Name	Maximum Speed	Count	Accessories	Weight	Total Weight	Material Cost
<b>Group Name:</b>															
0.00	0.00	0.00	0.00	0.00 h	0.00 h	HIDDEN CEILING TYPE FAN COIL	HIDDEN CEILING TYPE	TWO PIPE HIDDEN CEILING TYPE	FWCL-HCT-O-(2)-(2)-32-L-R	V3	1		15.00 kg	15.00 kg	104.0
0.00	0.00	0.00	0.00	0.00 h	0.00 h	HIDDEN FLOOR TYPE FAN COIL	HIDDEN FLOOR TYPE	TWO PIPE HIDDEN FLOOR TYPE	FWCL-HFT-(2)-(2)-50-L-R	V3	1		34.00 kg	34.00 kg	118.0
0.00	0.00	0.00	0.00	0.00 h	0.00 h	CEILING TYPE FAN COIL	CEILING TYPE	TWO PIPE CEILING TYPE	FWCL-CT-O-(2)-(2)-32-L-R	V3	1		18.00 kg	18.00 kg	124.0
0.00	0.00	0.00	0.00	0.00 h	0.00 h	FLOOR TYPE FAN COIL	FLOOR TYPE	TWO PIPE FLOOR TYPE	FWCL-FT-(2)-(2)-50-L-R	V3	1		37.00 kg	37.00 kg	138.0
	0.00		0.00		0.00 h						4			104.00	

0.00 0.00 0.00 h 4 104.00

Ok Cancel

## AXIAL FAN GRAND TOTALS

HC Production - [4149] [SAMPLE PROJECT]

Calculate Proforma Invoice Export Data Drawings Load Default Grid Settings

Currency Code: EUR Profit Ratio (%): 10 Spare Part Profit Ratio (%): 60  
Currency Price: 35.0814 Discount Ratio (%): 0 Spare Part Discount Ratio (%): 0

Project: Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Covers Module Sizes Production Durations Spare Parts

Item: Fan Coil Axial Fan

Module Name	Type Name	Model Name	Axial Fan Name	Count	Accessories	Weight	Total Weight	Material Cost	Total Material Cost	Cost	Labor Cost	Total Cost	Total Labor Cost	Profit	General Cost
Group Name:															
623-77-7/P62L/H5/PAG	WITH HDVE	WITH LONG HDVE	AF-630	1		60.69 kg	60.69 kg	529.68	529.68	529.68	0.00	529.68	0.00	52.97	0.00
702-9/5-5/REDGESL/30/PA	WITH CABINET	WITH LONG CABINET	AXF-710	1		67.84 kg	67.84 kg	741.99	741.99	741.99	0.00	741.99	0.00	74.20	0.00
				2			128.52		1,271.67			1,271.67	0.00		

2 128.52 1,271.67 1,271.67 0.00

OK Cancel

## MATERIALS / PROJECT BASED (BOM)

HC Production - [4148] [SAMPLE PROJECT]

Calculate Proforma Invoice Export Data Drawings Load Default Grid Settings

Currency Code: EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60  
Currency Price: 35.0814 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0

Project: [Grand Total] Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Doors Module Sizes Production Durations Spare Parts

Material Type	Material Code	Material Name	Special Code	Group Name	Properties	Amount	Loss Amount	Unit Name	Pricing Amount	Pricing Unit Name	Weight	Total Weight	Total
<b>Material Types Accessory</b>													
Accessory	ICER02 AÇILMALI	Lightening		Other Materials		4.00	0.00	Unit	4.00	Unit	1.00 kg	4.00 kg	
Accessory	04.XP.05.011	Door Observation Glass		Other Materials		4.00	0.00	Unit	4.00	Unit	1.00 kg	4.00 kg	
Accessory	05.415.01.001	Maintenance Switch		Other Materials		2.00	0.00	Unit	2.00	Unit	0.30 kg	0.60 kg	
Accessory	EMERGENCYSTOPBUTTON	Emergency Stop Button				2.00	0.00	Unit	2.00	Unit	0.50 kg	1.00 kg	
Accessory	05.611.07.001	Siphon		Other Materials		8.00	0.00	Unit	8.00	Unit	0.00 kg	0.00 kg	
Accessory	05.812.11.002	Manometer Pressure Gauge		Other Materials		6.00	0.00	Unit	6.00	Unit	1.00 kg	6.00 kg	
												15.60	
<b>Material Types Belt</b>													
Belt	02.403.01.05.018	BELT SPA 1200		Belts		2.00	0.00	Millimeter	2.00	Millimeter	1.50 kg	3.00 kg	
Belt	02.403.01.05.052	BELT SPA 2000		Belts		2.00	0.00	Millimeter	2.00	Millimeter	1.50 kg	3.00 kg	
Belt	02.403.01.06.050	BELT SPB 2000		Belts		3.00	0.00	Millimeter	3.00	Millimeter	1.50 kg	4.50 kg	
Belt	02.403.01.05.019	BELT SPA 1200		Belts		2.00	0.00	Millimeter	2.00	Millimeter	1.50 kg	3.00 kg	
Belt	02.403.01.08.010	BELT SPZ 1000		Belts		4.00	0.00	Millimeter	4.00	Millimeter	1.00 kg	4.00 kg	
Belt	02.403.01.08.019	BELT SPA 1300		Belts		8.00	0.00	Millimeter	8.00	Millimeter	1.50 kg	12.00 kg	
Belt	02.403.01.08.010	BELT SPZ 1000		Belts		2.00	0.00	Millimeter	2.00	Millimeter	1.00 kg	2.00 kg	
Belt	02.403.01.05.018	BELT SPA 1200		Belts		2.00	0.00	Millimeter	2.00	Millimeter	1.50 kg	3.00 kg	
Belt	02.403.01.05.018	BELT SPA 1200		Belts		2.00	0.00	Millimeter	2.00	Millimeter	1.50 kg	3.00 kg	
Belt	02.403.01.08.010	BELT SPZ 1000		Belts		2.00	0.00	Millimeter	2.00	Millimeter	1.00 kg	2.00 kg	
												39.50	
<b>Material Types Bush</b>													
Bush	02.402.04.13	BUSH 2012		Bushes	Ø25	1.00	0.00	Unit	1.00	Unit	1.00 kg	1.00 kg	
Bush	02.402.06.13	BUSH 2517		Bushes	Ø38	1.00	0.00	Unit	1.00	Unit	1.00 kg	1.00 kg	
Bush	02.402.04.13	BUSH 2012		Bushes	Ø40	2.00	0.00	Unit	2.00	Unit	1.00 kg	2.00 kg	
Bush	02.402.04.13	BUSH 2012		Bushes	Ø42	3.00	0.00	Unit	3.00	Unit	1.00 kg	3.00 kg	
Bush	02.402.06.13	BUSH 2517		Bushes	Ø40	1.00	0.00	Unit	1.00	Unit	1.00 kg	1.00 kg	
Bush	02.402.06.13	BUSH 2517		Bushes	Ø42	1.00	0.00	Unit	1.00	Unit	1.00 kg	1.00 kg	
Bush	02.402.04.13	BUSH 2012		Bushes	Ø30	1.00	0.00	Unit	1.00	Unit	1.00 kg	1.00 kg	
Bush	02.402.04.13	BUSH 2012		Bushes	Ø38	5.00	0.00	Unit	5.00	Unit	1.00 kg	5.00 kg	
Bush	02.402.03.13	BUSH 1610		Bushes	Ø25	3.00	0.00	Unit	3.00	Unit	1.00 kg	3.00 kg	
Bush	02.402.03.13	BUSH 1610		Bushes	Ø28	4.00	0.00	Unit	4.00	Unit	1.00 kg	4.00 kg	
Bush	02.402.06.13	BUSH 2517		Bushes	Ø35	5.00	0.00	Unit	5.00	Unit	1.00 kg	5.00 kg	
Bush	02.402.03.13	BUSH 1610		Bushes	Ø20	1.00	0.00	Unit	1.00	Unit	1.00 kg	1.00 kg	
												28.00	
<b>Material Types Bypass</b>													
Bypass	01.101.00.28	GALVANIZE 1,5		Sheets		69.38	6.31	Meter²	832.56	Kilogram	12.00 kg	756.87 kg	
												19,284.20	

## MATERIALS / AHU BASED (BOM)

HC Production - [4148] [SAMPLE PROJECT]

Calculate Proforma Invoice Export Data Drawings Load Default Grid Settings

Currency Code: EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60  
Currency Price: 35.0814 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0

Project: [Grand Total] Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Doors Module Sizes Production Durations Spare Parts

Project: AHU Module

Material Type	Material Code	Material Name	Special Code	Group Name	Properties	Amount	Loss Amount	Unit Name	Pricing Amount	Pricing Unit Name	Weight	Total Weight	Total
<b>AHU Name: %100 FRESH</b>													
<b>Material Types Belt</b>													
Belt	02.403.01.05.018	BELT SPA 1200		Belts		2.00	0.00	Millimeter	2.00	Millimeter	1.50 kg	3.00 kg	
												3.00	
<b>Material Types Bush</b>													
Bush	02.402.04.13	BUSH 2012		Bushes	Ø25	1.00	0.00	Unit	1.00	Unit	1.00 kg	1.00 kg	
Bush	02.402.06.13	BUSH 2517		Bushes	Ø38	1.00	0.00	Unit	1.00	Unit	1.00 kg	1.00 kg	
												2.00	
<b>Material Types Bypass</b>													
Bypass	01.101.00.28	GALVANIZE 1,5		Sheets		0.70	0.06	Meter²	8.45	Kilogram	12.00 kg	7.68 kg	
												7.68	
<b>Material Types Coil</b>													
Coil	4148-1-3#	3228 1/2 3.2 pitch 1-25 m2 betwe...		Coils	32 x 28 1/2 20T 1R 550A 3.2P 2NC	5.57	0.00	Meter²	5.57	Meter²	0.60 kg	3.34 kg	
Coil	4148-1-4#	3228 1/2 3.2 pitch 1-25 m2 betwe...		Coils	32 x 28 1/2 20T 10R 525A 3.2P 10N	53.17	0.00	Meter²	53.17	Meter²	0.60 kg	31.91 kg	
												35.25	
<b>Material Types Coil Sled</b>													
Coil Sled	01.101.00.28	GALVANIZE 1,5		Sheets		1.06	0.10	Meter²	12.75	Kilogram	12.00 kg	11.59 kg	
												11.59	
<b>Material Types Condensation Pan</b>													
Condensation Pan	01.104.00.19	STAINLESS 304 1		Sheets		0.80	0.07	Meter²	6.43	Kilogram	8.00 kg	5.85 kg	
Condensation Pan	2222222222222222	Self Adhesive Plate 3 mm		Insulations		0.73	0.00	Meter²	0.73	Meter²	1.00 kg	0.73 kg	
												6.58	
<b>Material Types Connection</b>													
Connection	01.216.01.03.01	AI Profile Gear Damper Side Frame		Profiles		2.98	0.14	Meter	6.55	Kilogram	2.20 kg	6.23 kg	
Connection	01.216.01.02.01	AI Profile Gear Damper Top Botto...		Profiles		3.61	0.17	Meter	8.92	Kilogram	1.88 kg	3.73 kg	
Connection	01.215.01.02.02	AI Profile Gear Damper Wing		Profiles		8.73	0.42	Meter	9.89	Kilogram	1.13 kg	9.42 kg	
Connection	05.238.09.001	Gear Damper Gasket Rubber		Gear Damper		2.04	0.00	Meter	2.84	Meter	0.03 kg	0.07 kg	
Connection	05.238.13.001	Gear Damper Gasket Wing		Gear Damper		8.32	0.00	Meter	8.32	Meter	0.03 kg	0.21 kg	
Connection	04.HD.08.003	Gear Damper Distance Adjust Bush		Gear Damper		24.00	0.00	Unit	24.00	Unit	0.03 kg	0.60 kg	
Connection	04.HD.07.002	Gear Damper Perno		Gear Damper		24.00	0.00	Unit	24.00	Unit	0.02 kg	0.36 kg	
Connection	04.HD.08.005	Gear Damper Base		Gear Damper		8.00	0.00	Unit	8.00	Unit	0.00 kg	0.02 kg	
Connection	04.HD.09.001	Gear Damper Gear		Gear Damper		24.00	0.00	Unit	24.00	Unit	0.10 kg	2.40 kg	
Connection	02.282.01.01.04.05	Easy Screw M3,9 x 13		Connection Parts		32.00	0.00	Unit	32.00	Unit	0.02 kg	0.64 kg	
Connection	02.281.01.01.04.011	Bolt M6 x 40		Connection Parts		16.00	0.00	Unit	16.00	Unit	0.01 kg	0.08 kg	
Connection	02.205.01.02.08	Thick Spangle H6		Connection Parts		10.00	0.00	Unit	10.00	Unit	0.00 kg	0.01 kg	
Connection	02.310.01.01.03.00	Yeshbed Case Bush M6		Connection Parts		16.00	0.00	Unit	16.00	Unit	0.00 kg	0.03 kg	
												19,284.20	





## SPECIAL MATERIALS / MOTORS

HC Production - [4148][SAMPLE PROJECT]

Calculate Proforma Invoice Export Data Drawings Load Default Grid Settings

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60  
Currency Price \* 35.0814 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0

Project Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Doors Module Sizes Production Durations Spare Parts

Fans Motors Frequency Converters Pulleys Belts Bushes Filters Coils Electric Heaters Steamy Humidifiers Honeycombs Water Pumps Silencers Control Panel Components Generic Components Damper Motors Crop Elimination Plate Heat Exchangers Counterflow Heat Exchangers Rotary Heat Exchangers

AHU ID	AHU Name	Section Name	Module Name	Trademark	Motor Name	Fan Function	Motor Type	Efficiency Class	Double Speed	Soak Proof	Thermostat	Rpm	2. Rpm	Real Rpm	2. Real Rpm	Power	2. Power	Cost	2. Cost
1	%100 FRESH	S1	M5	GAMAK	AGM 132 5-2a	Ventilator	AC	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3000	0	2870	0	5.5 kW	0 kW	0	0
2	MIXTURE	S1	M1	GAMAK	GM 160 M-4	Aspirator	AC	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1500	0	1455	0	11 kW	0 kW	0	0
2	MIXTURE	S3	M6	GAMAK	GM 160 L-4	Ventilator	AC	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1500	0	1460	0	15 kW	0 kW	0	0
3	VERTICAL MIXTURE	S1	M6	GAMAK	AGM 132 5-2a	Aspirator	AC	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3000	0	2870	0	5.5 kW	0 kW	0	0
3	VERTICAL MIXTURE	S4	M1	GAMAK	AGM 100 L-2	Ventilator	AC	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3000	0	2850	0	3 kW	0 kW	0	0
4	PLATE HEAT RECOVERY	S1	M9	GAMAK	AGM 132 5-2b	Aspirator	AC	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3000	0	2890	0	7.5 kW	0 kW	0	0
4	PLATE HEAT RECOVERY	S6	M4	GAMAK	GM 160 M-2a	Ventilator	AC	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3000	0	2935	0	11 kW	0 kW	0	0
5	COUNTERFLOW HEAT RECOVERY	S1	M9	GAMAK	AGM 132 5-2b	Aspirator	AC	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3000	0	2890	0	7.5 kW	0 kW	0	0
5	COUNTERFLOW HEAT RECOVERY	S6	M4	GAMAK	GM 160 M-2a	Ventilator	AC	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3000	0	2935	0	11 kW	0 kW	0	0
6	ROTARY HEAT RECOVERY	S3	M2	GAMAK	AGM 112 M-2	Ventilator	AC	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3000	0	2850	0	4 kW	0 kW	0	0
6	ROTARY HEAT RECOVERY	S4	M6	GAMAK	AGM 100 L-2	Aspirator	AC	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3000	0	2850	0	3 kW	0 kW	0	0
7	RUN AROUND COIL HEAT RECOVERY	S4	M7	GAMAK	AGM 132 M-4	Ventilator	AC	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1500	0	1430	0	7.5 kW	0 kW	0	0
7	RUN AROUND COIL HEAT RECOVERY	S6	M3	GAMAK	AGM 132 5-2b	Aspirator	AC	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3000	0	2890	0	7.5 kW	0 kW	0	0
8	HORSE SHOE HEAT PIPE	S2	M5	GAMAK	AGM 100 L-2	Ventilator	AC	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3000	0	2850	0	3 kW	0 kW	0	0

Ok Cancel

## SPECIAL MATERIALS / FREQUENCY CONVERTERS

HC Production - [862][SAMPLE PROJECT]

Calculate

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60  
Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0

Project Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Fans Motors Frequency Converters Pulleys Belts Bushes Filters Coils Electric Heaters Steamy Humidifiers Honeycombs Water Pumps Silencers Control Panel Components Generic Components Damper Motors Plate Heat Exchangers Counterflow Heat Exchangers Rotary Heat Exchangers

AHU ID	AHU Name	Module Name	Trademark Name	Converter Name	Power	Efficiency % <sub>1</sub>	IP Rating	Material Code	Material Name	Count	Weight	Total Weight
1	%100 FRESH	M5	Standard	5,5 kW Frequency Converter	5,5 kW	97.00	None	05.420.01.008	5,5 kW Frequency Converter	1	0.00 kg	0.00
5	COUNTERFLOW HEAT RECOVERY	M9	Standard	7,5 kW Frequency Converter	7,5 kW	97.00	None	05.420.01.009	7,5 kW Frequency Converter	1	0.00 kg	0.00
5	COUNTERFLOW HEAT RECOVERY	M4	Standard	11 kW Frequency Converter	11 kW	97.00	None	05.420.01.010	11 kW Frequency Converter	1	0.00 kg	0.00
6	ROTARY HEAT RECOVERY	M2	Standard	4 kW Frequency Converter	4 kW	97.00	None	05.420.01.007	4 kW Frequency Converter	1	0.00 kg	0.00
6	ROTARY HEAT RECOVERY	M6	Standard	4 kW Frequency Converter	4 kW	97.00	None	05.420.01.007	4 kW Frequency Converter	1	0.00 kg	0.00

5 0.00

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export

Ok Cancel

## SPECIAL MATERIALS / PULLEYS

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Fans Motors Frequency Converters Pulleys Belts Buses Filters Coils Electric Heaters Steamy Humidifiers Honeycombs Water Pumps Silencers Control Panel Components Generic Components Damper Motors Plate Heat Exchangers Counterflow Heat Exchangers Rotary Heat Exchangers

AHU ID	AHU Name	Module Name	Pulley Name	Diameter	Groove Count	Material Code	Material Name	Count	Weight	Total Weight	Price	Total Price	Profit
1	%100 FRESH	M5	SPA	150 mm	2	02.401.01.01.19.02	PULLEY SPA 150X2	1	0.00 kg	0.00 kg	0.82	0.82	0.08
1	%100 FRESH	M5	SPA	200 mm	2	02.401.01.01.19.02	PULLEY SPA 150X2	1	0.00 kg	0.00 kg	0.82	0.82	0.08
	MIXTURE	M1	SPA	180 mm	2	02.401.01.01.23.02	PULLEY SPA 180X2	1	0.00 kg	0.00 kg	1.03	1.03	0.10
2	MIXTURE	M1	SPA	160 mm	2	02.401.01.01.23.02	PULLEY SPA 160X2	1	0.00 kg	0.00 kg	1.03	1.03	0.10
2	MIXTURE	M6	SPB	180 mm	2	02.401.01.02.23.02	PULLEY SPB 180X2	1	0.00 kg	0.00 kg	1.10	1.10	0.11
2	MIXTURE	M6	SPB	200 mm	2	02.401.01.02.23.02	PULLEY SPB 180X2	1	0.00 kg	0.00 kg	1.10	1.10	0.11
3	VERTICAL MIXTURE	M6	SPA	140 mm	2	02.401.01.01.18.02	PULLEY SPA 140X2	4	0.00 kg	0.00 kg	0.75	3.00	0.08
3	VERTICAL MIXTURE	M1	SPZ	106 mm	2	02.401.01.04.12.02	PULLEY SPZ 106X2	1	0.00 kg	0.00 kg	0.70	0.70	0.07
3	VERTICAL MIXTURE	M1	SPZ	100 mm	2	02.401.01.04.12.02	PULLEY SPZ 106X2	1	0.00 kg	0.00 kg	0.70	0.70	0.07
4	PLATE HEAT RECOVERY	M9	SPA	224 mm	2	02.401.01.01.29.02	PULLEY SPA 224X2	1	0.00 kg	0.00 kg	1.34	1.34	0.13
4	PLATE HEAT RECOVERY	M9	SPA	160 mm	2	02.401.01.01.29.02	PULLEY SPA 224X2	1	0.00 kg	0.00 kg	1.34	1.34	0.13
4	PLATE HEAT RECOVERY	M4	SPA	200 mm	2	02.401.01.01.26.02	PULLEY SPA 200X2	1	0.00 kg	0.00 kg	1.13	1.13	0.11
4	PLATE HEAT RECOVERY	M4	SPA	160 mm	2	02.401.01.01.26.02	PULLEY SPA 200X2	1	0.00 kg	0.00 kg	1.13	1.13	0.11
5	COUNTERFLOW HEAT RECOVERY	M9	SPA	224 mm	2	02.401.01.01.29.02	PULLEY SPA 224X2	1	0.00 kg	0.00 kg	1.34	1.34	0.13
5	COUNTERFLOW HEAT RECOVERY	M9	SPA	160 mm	2	02.401.01.01.29.02	PULLEY SPA 224X2	1	0.00 kg	0.00 kg	1.34	1.34	0.13
5	COUNTERFLOW HEAT RECOVERY	M4	SPA	200 mm	2	02.401.01.01.26.02	PULLEY SPA 200X2	1	0.00 kg	0.00 kg	1.13	1.13	0.11
5	COUNTERFLOW HEAT RECOVERY	M4	SPA	160 mm	2	02.401.01.01.26.02	PULLEY SPA 200X2	1	0.00 kg	0.00 kg	1.13	1.13	0.11
6	ROTARY HEAT RECOVERY	M2	SPZ	125 mm	2	02.401.01.04.16.02	PULLEY SPZ 125X2	4	0.00 kg	0.00 kg	0.61	2.44	0.06
6	ROTARY HEAT RECOVERY	M6	SPZ	125 mm	2	02.401.01.04.16.02	PULLEY SPZ 125X2	4	0.00 kg	0.00 kg	0.61	2.44	0.06
7	RUN AROUND COIL HEAT RECOVERY	M7	SPA	140 mm	2	02.401.01.01.18.02	PULLEY SPA 140X2	1	0.00 kg	0.00 kg	0.75	0.75	0.08
7	RUN AROUND COIL HEAT RECOVERY	M7	SPA	150 mm	2	02.401.01.01.18.02	PULLEY SPA 140X2	1	0.00 kg	0.00 kg	0.75	0.75	0.08
7	RUN AROUND COIL HEAT RECOVERY	M3	SPA	250 mm	2	02.401.01.01.32.02	PULLEY SPA 250X2	1	0.00 kg	0.00 kg	1.55	1.55	0.15
7	RUN AROUND COIL HEAT RECOVERY	M3	SPA	150 mm	2	02.401.01.01.32.02	PULLEY SPA 250X2	1	0.00 kg	0.00 kg	1.55	1.55	0.15
8	HORSE SHOE HEAT PIPE	M5	SPZ	106 mm	2	02.401.01.04.12.02	PULLEY SPZ 106X2	1	0.00 kg	0.00 kg	0.70	0.70	0.07
8	HORSE SHOE HEAT PIPE	M5	SPZ	150 mm	2	02.401.01.04.12.02	PULLEY SPZ 106X2	1	0.00 kg	0.00 kg	0.70	0.70	0.07

34 0.00 31.04

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## SPECIAL MATERIALS / BELTS

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Fans Motors Frequency Converters Pulleys Belts Buses Filters Coils Electric Heaters Steamy Humidifiers Honeycombs Water Pumps Silencers Control Panel Components Generic Components Damper Motors Plate Heat Exchangers Counterflow Heat Exchangers Rotary Heat Exchangers

AHU ID	AHU Name	Module Name	Belt Name	Length	Material Code	Material Name	Count	Weight	Total Weight	Price	Total Price	Profit	Total Profit
1	%100 FRESH	M5	SPA	1450 mm	02.403.01.05.018	BELT SPA 1200	2	1.50 kg	3.00 kg	6.68	13.37	0.67	1.34
2	MIXTURE	M1	SPA	2150 mm	02.403.01.05.052	BELT SPA 2000	2	1.50 kg	3.00 kg	9.53	19.05	0.95	1.91
2	MIXTURE	M6	SPB	2250 mm	02.403.01.06.050	BELT SPB 2000	2	1.50 kg	3.00 kg	14.06	28.13	1.41	2.81
3	VERTICAL MIXTURE	M6	SPA	1450 mm	02.403.01.05.018	BELT SPA 1200	2	1.50 kg	3.00 kg	6.68	13.37	0.67	1.34
3	VERTICAL MIXTURE	M1	SPZ	1200 mm	02.403.01.08.010	BELT SPZ 1000	2	1.00 kg	2.00 kg	3.81	7.62	0.38	0.76
4	PLATE HEAT RECOVERY	M9	SPA	1800 mm	02.403.01.05.018	BELT SPA 1200	2	1.50 kg	3.00 kg	8.06	16.13	0.81	1.61
4	PLATE HEAT RECOVERY	M4	SPA	1800 mm	02.403.01.05.018	BELT SPA 1200	2	1.50 kg	3.00 kg	8.06	16.13	0.81	1.61
5	COUNTERFLOW HEAT RECOVERY	M9	SPA	1800 mm	02.403.01.05.018	BELT SPA 1200	2	1.50 kg	3.00 kg	8.06	16.13	0.81	1.61
5	COUNTERFLOW HEAT RECOVERY	M4	SPA	1800 mm	02.403.01.05.018	BELT SPA 1200	2	1.50 kg	3.00 kg	8.06	16.13	0.81	1.61
6	ROTARY HEAT RECOVERY	M2	SPZ	1300 mm	02.403.01.08.010	BELT SPZ 1000	2	1.00 kg	2.00 kg	4.14	8.28	0.41	0.83
6	ROTARY HEAT RECOVERY	M6	SPZ	1300 mm	02.403.01.08.010	BELT SPZ 1000	2	1.00 kg	2.00 kg	4.14	8.28	0.41	0.83
7	RUN AROUND COIL HEAT RECOVERY	M7	SPA	1900 mm	02.403.01.05.018	BELT SPA 1200	2	1.50 kg	3.00 kg	8.46	16.91	0.85	1.69
7	RUN AROUND COIL HEAT RECOVERY	M3	SPA	1950 mm	02.403.01.05.018	BELT SPA 1200	2	1.50 kg	3.00 kg	8.65	17.31	0.87	1.73
8	HORSE SHOE HEAT PIPE	M5	SPZ	1150 mm	02.403.01.08.010	BELT SPZ 1000	2	1.00 kg	2.00 kg	3.65	7.29	0.36	0.73

28 38.00 204.10 20.41

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### SPECIAL MATERIALS / BUSHES

HC Production - [862][SAMPLE PROJECT]

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 Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts  
 Fans Motors Frequency Converters Pulleys Belts Bushes Filters Coils Electric Heaters Steamy Humidifiers Honeycombs Water Pumps Silencers Control Panel Components Generic Components Damper Motors Plate Heat Exchangers Counterflow Heat Exchangers Rotary Heat Exchangers

AHU ID	AHU Name	Module Name	Bush ID	Diameter	Material Code	Material Name	Count	Weight	Total Weight	Price	Total Price	Profit	Total Profit	Discount	Total Dis
1	%100 FRESH	M5	2012	25 mm	02.402.04.13	BUSH 2012	1	1.00 kg	1.00 kg	0.45	0.45	0.04	0.04	0.00	
1	%100 FRESH	M5	2517	38 mm	02.402.04.13	BUSH 2012	1	1.00 kg	1.00 kg	0.45	0.45	0.04	0.04	0.00	
2	MIXTURE	M1	2012	40 mm	02.402.04.13	BUSH 2012	1	1.00 kg	1.00 kg	0.45	0.45	0.04	0.04	0.00	
2	MIXTURE	M1	2012	42 mm	02.402.04.13	BUSH 2012	1	1.00 kg	1.00 kg	0.45	0.45	0.04	0.04	0.00	
2	MIXTURE	M6	2012	50 mm	02.402.04.13	BUSH 2012	1	1.00 kg	1.00 kg	0.45	0.45	0.04	0.04	0.00	
2	MIXTURE	M6	2517	48 mm	02.402.04.13	BUSH 2012	1	1.00 kg	1.00 kg	0.45	0.45	0.04	0.04	0.00	
3	VERTICAL MIXTURE	M6	2012	30 mm	02.402.04.13	BUSH 2012	1	1.00 kg	1.00 kg	0.45	0.45	0.04	0.04	0.00	
3	VERTICAL MIXTURE	M6	2012	38 mm	02.402.04.13	BUSH 2012	1	1.00 kg	1.00 kg	0.45	0.45	0.04	0.04	0.00	
3	VERTICAL MIXTURE	M1	1610	25 mm	02.402.03.13	BUSH 1610	1	1.00 kg	1.00 kg	0.35	0.35	0.04	0.04	0.00	
3	VERTICAL MIXTURE	M1	1610	28 mm	02.402.03.13	BUSH 1610	1	1.00 kg	1.00 kg	0.35	0.35	0.04	0.04	0.00	
4	PLATE HEAT RECOVERY	M9	2517	35 mm	02.402.06.13	BUSH 2517	1	1.00 kg	1.00 kg	0.56	0.56	0.06	0.06	0.00	
4	PLATE HEAT RECOVERY	M9	2012	38 mm	02.402.06.13	BUSH 2517	1	1.00 kg	1.00 kg	0.56	0.56	0.06	0.06	0.00	
4	PLATE HEAT RECOVERY	M4	2517	35 mm	02.402.06.13	BUSH 2517	1	1.00 kg	1.00 kg	0.56	0.56	0.06	0.06	0.00	
4	PLATE HEAT RECOVERY	M4	2012	42 mm	02.402.06.13	BUSH 2517	1	1.00 kg	1.00 kg	0.56	0.56	0.06	0.06	0.00	
5	COUNTERFLOW HEAT RECOVERY	M9	2517	35 mm	02.402.06.13	BUSH 2517	1	1.00 kg	1.00 kg	0.56	0.56	0.06	0.06	0.00	
5	COUNTERFLOW HEAT RECOVERY	M9	2012	38 mm	02.402.06.13	BUSH 2517	1	1.00 kg	1.00 kg	0.56	0.56	0.06	0.06	0.00	
5	COUNTERFLOW HEAT RECOVERY	M4	2517	35 mm	02.402.06.13	BUSH 2517	1	1.00 kg	1.00 kg	0.56	0.56	0.06	0.06	0.00	
5	COUNTERFLOW HEAT RECOVERY	M4	2012	42 mm	02.402.06.13	BUSH 2517	1	1.00 kg	1.00 kg	0.56	0.56	0.06	0.06	0.00	
6	ROTARY HEAT RECOVERY	M2	1610	25 mm	02.402.03.13	BUSH 1610	1	1.00 kg	1.00 kg	0.35	0.35	0.04	0.04	0.00	
6	ROTARY HEAT RECOVERY	M2	1610	28 mm	02.402.03.13	BUSH 1610	1	1.00 kg	1.00 kg	0.35	0.35	0.04	0.04	0.00	
6	ROTARY HEAT RECOVERY	M6	1610	25 mm	02.402.03.13	BUSH 1610	1	1.00 kg	1.00 kg	0.35	0.35	0.04	0.04	0.00	
6	ROTARY HEAT RECOVERY	M6	1610	28 mm	02.402.03.13	BUSH 1610	1	1.00 kg	1.00 kg	0.35	0.35	0.04	0.04	0.00	
7	RUN AROUND COIL HEAT RECOVERY	M7	2012	40 mm	02.402.04.13	BUSH 2012	1	1.00 kg	1.00 kg	0.45	0.45	0.04	0.04	0.00	
7	RUN AROUND COIL HEAT RECOVERY	M7	2012	38 mm	02.402.04.13	BUSH 2012	1	1.00 kg	1.00 kg	0.45	0.45	0.04	0.04	0.00	
7	RUN AROUND COIL HEAT RECOVERY	M3	2517	35 mm	02.402.06.13	BUSH 2517	1	1.00 kg	1.00 kg	0.56	0.56	0.06	0.06	0.00	
7	RUN AROUND COIL HEAT RECOVERY	M3	2012	38 mm	02.402.06.13	BUSH 2517	1	1.00 kg	1.00 kg	0.56	0.56	0.06	0.06	0.00	
8	HORSE SHOE HEAT PIPE	M5	1610	20 mm	02.402.03.13	BUSH 1610	1	1.00 kg	1.00 kg	0.35	0.35	0.04	0.04	0.00	
8	HORSE SHOE HEAT PIPE	M5	2012	28 mm	02.402.03.13	BUSH 1610	1	1.00 kg	1.00 kg	0.35	0.35	0.04	0.04	0.00	

28 28.00 12.90 1.29 0.00

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### SPECIAL MATERIALS / FILTERS

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate  
 Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts  
 Fans Motors Frequency Converters Pulleys Belts Bushes Filters Coils Electric Heaters Steamy Humidifiers Honeycombs Water Pumps Silencers Control Panel Components Generic Components Damper Motors Plate Heat Exchangers Counterflow Heat Exchangers Rotary Heat Exchangers

AHU ID	AHU Name	Module Name	Trademark Name	Filter Type	Filter Class	Filter Name	Thickness	Width	Height	Air Flow	Resistance Type	First Resistance	Last Resistance	Pressure Drop
1	%100 FRESH	M2	Standard	Panel	G4	G-4	48 mm	610 mm	610 mm	3,400 m³/h	Average	178 Pa	160 Pa	
1	%100 FRESH	M2	Standard	Bag	F7	F-7	305 mm	610 mm	610 mm	1,750 m³/h	Average	159 Pa	360 Pa	
2	MIXTURE	M3	Standard	Panel	G4	G-4	48 mm	610 mm	610 mm	3,400 m³/h	Average	78 Pa	160 Pa	
2	MIXTURE	M3	Standard	Bag	F7	F-7	305 mm	610 mm	610 mm	1,750 m³/h	Average	74 Pa	360 Pa	
3	VERTICAL MIXTURE	M3	Standard	Panel	G4	G-4	48 mm	610 mm	610 mm	3,400 m³/h	Average	61 Pa	150 Pa	
3	VERTICAL MIXTURE	M3	Standard	Panel	G4	G-4	48 mm	610 mm	305 mm	1,700 m³/h	Average	61 Pa	150 Pa	
3	VERTICAL MIXTURE	M3	Standard	Bag	F7	F-7	305 mm	610 mm	610 mm	1,750 m³/h	Average	60 Pa	200 Pa	
3	VERTICAL MIXTURE	M3	Standard	Bag	F7	F-7	305 mm	610 mm	305 mm	850 m³/h	Average	60 Pa	200 Pa	
3	VERTICAL MIXTURE	M3	Standard	Bag	F7	F-7	305 mm	305 mm	305 mm	425 m³/h	Average	60 Pa	200 Pa	
4	PLATE HEAT RECOVERY	M8	Standard	Panel	G4	G-4	48 mm	610 mm	610 mm	3,400 m³/h	Average	95 Pa	150 Pa	
4	PLATE HEAT RECOVERY	M8	Standard	Panel	G4	G-4	48 mm	610 mm	305 mm	1,700 m³/h	Average	95 Pa	150 Pa	
4	PLATE HEAT RECOVERY	M8	Standard	Panel	G4	G-4	48 mm	305 mm	305 mm	850 m³/h	Average	95 Pa	150 Pa	
4	PLATE HEAT RECOVERY	M11	Standard	Panel	G4	G-4	48 mm	610 mm	610 mm	3,400 m³/h	Average	95 Pa	150 Pa	
4	PLATE HEAT RECOVERY	M11	Standard	Panel	G4	G-4	48 mm	610 mm	305 mm	1,700 m³/h	Average	95 Pa	150 Pa	
4	PLATE HEAT RECOVERY	M11	Standard	Panel	G4	G-4	48 mm	305 mm	305 mm	850 m³/h	Average	95 Pa	150 Pa	
4	PLATE HEAT RECOVERY	M3	Standard	Bag	F7	F-7	305 mm	610 mm	610 mm	1,750 m³/h	Average	88 Pa	200 Pa	
4	PLATE HEAT RECOVERY	M3	Standard	Bag	F7	F-7	305 mm	610 mm	305 mm	850 m³/h	Average	88 Pa	200 Pa	

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export Ok Cancel



## SPECIAL MATERIALS / COILS

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Fans Motors Frequency Converters Pulleys Belts Bushes Filters Coils Electric Heaters Steamy Humidifiers Honeycombs Water Pumps Silencers Control Panel Components Generic Components Damper Motors Plate Heat Exchangers Counterflow Heat Exchangers Rotary Heat Exchangers

Properties	AHU ID	AHU Name	Module Name	Trademark	Version	Latest Version	Coil Type	Notation	Capacity	Sensible Capacity	Air Condensation	Air Flow	Air Velocity	Air Pressure Drop	Dry Air Pressure Drop
1	%100 FRESH	M3	Friterm 4.0	4.5.6.0	4.5.6.0	Heating	32 x 28 1/2 20T 1R 550A 3.2P 2NC	25.94 kW	25.94 kW	1.23 L/h	6,100 m³/h	4.85 m/s	56 Pa	56 Pa	
1	%100 FRESH	M4	Friterm 4.0	4.5.6.0	4.5.6.0	Cooling	32 x 28 1/2 20T 10R 525A 3.2P 10NC	44.02 kW	37.36 kW	9.57 L/h	6,100 m³/h	5.08 m/s	522 Pa	433 Pa	
2	MIXTURE	M4	Friterm 4.0	4.5.6.0	4.5.6.0	Heating	32 x 28 1/2 28T 1R 1706A 3P 7NC	144.80 kW	144.80 kW	0 L/h	29,000 m³/h	2.66 m/s	18 Pa	18 Pa	
2	MIXTURE	M5	Friterm 4.0	4.5.6.0	4.5.6.0	Cooling	32 x 28 1/2 28T 2R 1711A 3P 7NC	40.07 kW	40.07 kW	0.0001 L/h	29,000 m³/h	2.65 m/s	31 Pa	31 Pa	
3	VERTICAL MIXTURE	M5	Friterm 4.0	4.5.6.0	4.5.6.0	Cooling	32 x 28 1/2 28T 4R 1405A 3.2P 14NC	48.49 kW	41.57 kW	9.91 L/h	10,000 m³/h	2.22 m/s	45 Pa	39 Pa	
3	VERTICAL MIXTURE	M4	Friterm 4.0	4.5.6.0	4.5.6.0	Heating	38 x 33 5/8 22T 3R 1420A 3.2P 11NC	159.27 kW	159.27 kW	0 L/h	10,000 m³/h	2.33 m/s	44 Pa	44 Pa	
4	PLATE HEAT RECOVERY	M5	Friterm 4.0	4.5.6.0	4.5.6.0	Heating	32 x 28 1/2 30T 1R 1640A 3.2P 5NC	71.98 kW	71.98 kW	0.0006 L/h	14,000 m³/h	2.49 m/s	15 Pa	15 Pa	
4	PLATE HEAT RECOVERY	M6	Friterm 4.0	4.5.6.0	4.5.6.0	Cooling	32 x 28 1/2 32T 4R 1625A 3.2P 16NC	68.56 kW	56.78 kW	16.9 L/h	14,000 m³/h	2.36 m/s	52 Pa	44 Pa	
5	COUNTERFLOW HEAT RECOVERY	M5	Friterm 4.0	4.5.6.0	4.5.6.0	Heating	32 x 28 1/2 30T 1R 1650A 3.2P 5NC	63.33 kW	63.33 kW	0 L/h	14,000 m³/h	2.47 m/s	15 Pa	15 Pa	
5	COUNTERFLOW HEAT RECOVERY	M6	Friterm 4.0	4.5.6.0	4.5.6.0	Cooling	32 x 28 1/2 32T 4R 1625A 3.2P 16NC	61.50 kW	50.44 kW	15.87 L/h	14,000 m³/h	2.36 m/s	53 Pa	44 Pa	
7	RUN AROUND COIL HEAT RECOVERY	M1	Friterm 4.0	4.5.6.0	4.5.6.0	Cooling	32 x 28 1/2 24T 8R 1726A 2.5P 4NC	130.55 kW	130.55 kW	4.45 L/h	22,000 m³/h	2.32 m/s	121 Pa	121 Pa	
7	RUN AROUND COIL HEAT RECOVERY	M5	Friterm 4.0	4.5.6.0	4.5.6.0	Heating	32 x 28 1/2 24T 1R 1736A 3.2P 6NC	116.15 kW	116.15 kW	0.0002 L/h	22,000 m³/h	2.31 m/s	13 Pa	13 Pa	
7	RUN AROUND COIL HEAT RECOVERY	M6	Friterm 4.0	4.5.6.0	4.5.6.0	Cooling	32 x 28 1/2 24T 3R 1721A 3.2P 12NC	76.10 kW	66.96 kW	13.1 L/h	22,000 m³/h	2.33 m/s	36 Pa	32 Pa	
7	RUN AROUND COIL HEAT RECOVERY	M1	Friterm 4.0	4.5.6.0	4.5.6.0	Cooling	32 x 28 1/2 24T 8R 1726A 2.5P 4NC	136.82 kW	95.41 kW	59.67 L/h	20,000 m³/h	2.11 m/s	109 Pa	86 Pa	
8	HORSE SHOE HEAT PIPE	M6	Friterm 4.0	4.5.6.0	4.5.6.0	DX	32 x 28 1/2 24T 1R 1139A 2.1P 24NC	4.58 kW	4.58 kW	0.0005 L/h	6,100 m³/h	1.95 m/s	13 Pa	13 Pa	
8	HORSE SHOE HEAT PIPE	M6	Friterm 4.0	4.5.6.0	4.5.6.0	Condens...	32 x 28 1/2 24T 1R 1139A 2.1P 24NC	4.58 kW	4.58 kW	0.0001 L/h	6,100 m³/h	1.95 m/s	12 Pa	12 Pa	
8	HORSE SHOE HEAT PIPE	M6	Friterm 4.0	4.5.6.0	4.5.6.0	DX	32 x 28 1/2 28T 4R 1134A 2.1P 7NC	33.56 kW	30.96 kW	3.74 L/h	6,100 m³/h	1.68 m/s	42 Pa	38 Pa	
9	FAN WALL	M6	Friterm 4.0	4.5.6.0	4.5.6.0	Heating	32 x 28 1/2 28T 2R 1159A 3P 14NC	91.53 kW	91.53 kW	1.23 L/h	6,100 m³/h	1.64 m/s	15 Pa	15 Pa	
9	FAN WALL	M7	Friterm 4.0	4.5.6.0	4.5.6.0	Cooling	32 x 28 1/2 28T 3R 1154A 3.2P 14NC	29.18 kW	27.08 kW	3.01 L/h	6,100 m³/h	1.65 m/s	18 Pa	17 Pa	
10	HYGIENIC	M5	Friterm 4.0	4.5.6.0	4.5.6.0	Heating	32 x 28 1/2 36T 1R 1495A 3.2P 6NC	62.32 kW	62.32 kW	0.0003 L/h	14,000 m³/h	2.28 m/s	13 Pa	13 Pa	
10	HYGIENIC	M6	Friterm 4.0	4.5.6.0	4.5.6.0	Cooling	32 x 28 1/2 38T 4R 1480A 3.2P 19NC	59.62 kW	49.55 kW	14.45 L/h	14,000 m³/h	2.18 m/s	45 Pa	38 Pa	
11	EP COMPLIANT	M5	Friterm 4.0	4.5.6.0	4.5.6.0	Heating	32 x 28 1/2 36T 1R 1495A 3.2P 6NC	62.32 kW	62.32 kW	0.0003 L/h	14,000 m³/h	2.28 m/s	13 Pa	13 Pa	
11	EP COMPLIANT	M6	Friterm 4.0	4.5.6.0	4.5.6.0	Cooling	32 x 28 1/2 38T 4R 1480A 3.2P 19NC	59.62 kW	49.55 kW	14.45 L/h	14,000 m³/h	2.18 m/s	45 Pa	38 Pa	

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## SPECIAL MATERIALS / ELECTRIC HEATERS

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Fans Motors Frequency Converters Pulleys Belts Bushes Filters Coils Electric Heaters Steamy Humidifiers Honeycombs Water Pumps Silencers Control Panel Components Generic Components Damper Motors Plate Heat Exchangers Counterflow Heat Exchangers Rotary Heat Exchangers

Properties	AHU ID	AHU Name	Module Name	Trademark Name	Heater Name	Air Flow	Capacity	Type	Step	Hygienic	Voltage	Phase	Frequency (Hz)	Width	Height
1	%100 FRESH	M7	Standard	Electric Heater	6,100 m³/h	100 kW	Serpentine	1	□	380	3	50	710 mm	710 mm	
2	MIXTURE	M7	Standard	Electric Heater	29,000 m³/h	300 kW	Serpentine	1	□	380	3	50	1876 mm	1876 mm	
3	VERTICAL MIXTURE	M9	Standard	Electric Heater	10,000 m³/h	100 kW	Serpentine	1	□	380	3	50	1590 mm	970 mm	
4	PLATE HEAT RECOVERY	M12	Standard	Electric Heater	14,000 m³/h	100 kW	Serpentine	1	□	380	3	50	1810 mm	1110 mm	
5	COUNTERFLOW HEAT RECOVERY	M12	Standard	Electric Heater	14,000 m³/h	100 kW	Serpentine	1	□	380	3	50	1810 mm	1110 mm	

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export Ok Cancel

### SPECIAL MATERIALS / STEAMY HUMIDIFIERS

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate  
 Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts  
 Fans Motors Frequency Converters Pulleys Belts Bushes Filters Coils Electric Heaters Steamy Humidifiers Honeycombs Water Pumps Silencers

Control Panel Components											Generic Components	Damper Motors	Plate Heat Exchangers	Counterflow Heat Exchangers	Rotary Heat Exchangers	Air Entrance Values	Dry Thermometer	Wet Thermometer	Relative Humidity (%)	Air Ex Dry Th
Properties	AHU ID	AHU Name	Module Name	Air Flow	Trademark Name	Humidifier Name	Capacity	Power	Width	Height	Length									
▼	1	%100 FRESH	M8	6,100 m³/h	Standard	Humidifier 6	60 kg/h	45 kW	990 mm	810 mm	415 mm						34.00 °C	19.84 °C		28.00

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export

Ok Cancel

### SPECIAL MATERIALS / HONEYCOMBS

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate  
 Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts  
 Fans Motors Frequency Converters Pulleys Belts Bushes Filters Coils Electric Heaters Steamy Humidifiers Honeycombs Water Pumps Silencers

Control Panel Components											Generic Components	Damper Motors	Plate Heat Exchangers	Counterflow Heat Exchangers	Rotary Heat Exchangers	Air Entrance Values	Dry Thermometer	Wet Thermometer	Relative Humidity (%)	Air Ex Dry Th
Properties	AHU ID	AHU Name	Module Name	Trademark Name	Honeycomb Name	Thickness	Width	Height	Material Code	Material Name	Count	Weight	Total Weight							
▼	10	HYGIENIC	M15	Munters	Celdek 6560	102 mm	305 mm	610 mm	Munters Celdek 6560 305x610x102	Munters Celdek 6560 305x610x102	6	0.72 kg								
▼	11	EIP COMPLIANT	M14	Munters	Celdek 6560	102 mm	305 mm	610 mm	Munters Celdek 6560 305x610x102	Munters Celdek 6560 305x610x102	6	0.72 kg								

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export

Ok Cancel

### SPECIAL MATERIALS / WATER PUMPS

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Fans Motors Frequency Converters Pulleys Belts Bushes Filters Coils Electric Heaters Steamy Humidifiers Honeycombs Water Pumps Silencers

AHU ID	AHU Name	Module Name	Trademark Name	Pump Name	Capacity	Power	Material Code	Material Name	Count	Weight	Total Weight	Price
2	MIXTURE	M8	Aquapak	SIGMAA54A	2395 kg/h	0.1 kW	SIGMAA54A	SIGMAA54A	1	3.30 kg	3.30 kg	
3	VERTICAL MIXTURE	M10	Aquapak	SIGMAA54A	2395 kg/h	0.1 kW	SIGMAA54A	SIGMAA54A	1	3.30 kg	3.30 kg	
10	HYGIENIC	M15	Aquapak	SIGMAA54A	2395 kg/h	0.1 kW	SIGMAA54A	SIGMAA54A	1	3.30 kg	3.30 kg	
11	EP COMPLIANT	M14	Aquapak	SIGMAA54A	2395 kg/h	0.1 kW	SIGMAA54A	SIGMAA54A	1	3.30 kg	3.30 kg	

Control Panel Components Generic Components Damper Motors Plate Heat Exchangers Counterflow Heat Exchangers Rotary Heat Exchangers

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export Ok Cancel

### SPECIAL MATERIALS / SILENCERS

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Fans Motors Frequency Converters Pulleys Belts Bushes Filters Coils Electric Heaters Steamy Humidifiers Honeycombs Water Pumps Silencers

AHU ID	AHU Name	Module Name	Air Flow	Acoustical Insulation (250 Hz)	Settlement	Width	Height	Length	Thickness	Pitch	Air Velocity	Pressure Drop	Count (Splitter)	Notation	Acoustical In
1	%100 FRESH	M9	6,100 m³/h	22 dB	Vertical	695 mm	710 mm	1000 mm	200 mm	100 mm	7.70 m/s	45 Pa	2	200d 100s 2n 1000L 710H 695A	
10	HYGIENIC	M13	14,000 m³/h	27 dB	Vertical	1645 mm	1324 mm	1500 mm	200 mm	100 mm	4.45 m/s	19 Pa	5	200d 100s 5n 1500L 1324H 1645A	
10	HYGIENIC	M14	14,000 m³/h	27 dB	Vertical	1645 mm	1324 mm	1500 mm	200 mm	100 mm	4.45 m/s	19 Pa	5	200d 100s 5n 1500L 1324H 1645A	
11	EP COMPLIANT	M12	14,000 m³/h	32 dB	Vertical	1645 mm	1324 mm	1500 mm	200 mm	100 mm	4.45 m/s	19 Pa	5	200d 100s 5n 1500L 1324H 1645A	
11	EP COMPLIANT	M13	14,000 m³/h	32 dB	Vertical	1645 mm	1324 mm	1500 mm	200 mm	100 mm	4.45 m/s	19 Pa	5	200d 100s 5n 1500L 1324H 1645A	

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export Ok Cancel

## SPECIAL MATERIALS / DAMPER MOTORS

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Fans Motors Frequency Converters Pulleys Belts Bushes Filters Coils Electric Heaters Steamy Humidifiers Honeycombs Water Pumps Silencers Control Panel Components Generic Components Damper Motors Plate Heat Exchangers Counterflow Heat Exchangers Rotary Heat Exchangers

AHU ID	AHU Name	Module Name	Trademark Name	Motor Name	Torque	Voltage	Area	Material Code	Material Name	Count	Weight	Total We
1	%100 FRESH	M2	Belimo	LM230ASR	5 N*m	230	1 m²	LM230ASR	LM230ASR	1	0.62 kg	0
1	%100 FRESH	M9	Belimo	LM230ASR	5 N*m	230	1 m²	LM230ASR	LM230ASR	1	0.62 kg	0
2	MIXTURE	M2	Belimo	LM230ASR	5 N*m	230	1 m²	LM230ASR	LM230ASR	3	0.62 kg	1
3	VERTICAL MIXTURE	M7	Belimo	LM230ASR	5 N*m	230	1 m²	LM230ASR	LM230ASR	3	0.62 kg	1
3	VERTICAL MIXTURE	M1	Belimo	LM230ASR	5 N*m	230	1 m²	LM230ASR	LM230ASR	1	0.62 kg	0
4	PLATE HEAT RECOVERY	M8	Belimo	LM230ASR	5 N*m	230	1 m²	LM230ASR	LM230ASR	1	0.62 kg	0
4	PLATE HEAT RECOVERY	M11	Belimo	LM230ASR	5 N*m	230	1 m²	LM230ASR	LM230ASR	1	0.62 kg	0
5	COUNTERFLOW HEAT RECOVERY	M8	Belimo	LM230ASR	5 N*m	230	1 m²	LM230ASR	LM230ASR	1	0.62 kg	0
5	COUNTERFLOW HEAT RECOVERY	M11	Belimo	LM230ASR	5 N*m	230	1 m²	LM230ASR	LM230ASR	1	0.62 kg	0
6	ROTARY HEAT RECOVERY	M3	Belimo	LM230ASR	5 N*m	230	1 m²	LM230ASR	LM230ASR	1	0.62 kg	0
6	ROTARY HEAT RECOVERY	M5	Belimo	LM230ASR	5 N*m	230	1 m²	LM230ASR	LM230ASR	1	0.62 kg	0
7	RUN AROUND COIL HEAT RECOVERY	M4	Belimo	LM230ASR	5 N*m	230	1 m²	LM230ASR	LM230ASR	1	0.62 kg	0
7	RUN AROUND COIL HEAT RECOVERY	M2	Belimo	NM230ASR	10 N*m	230	2 m²	NM230ASR	NM230ASR	1	0.90 kg	0
8	HORSE SHOE HEAT PIPE	M2	Belimo	NM230ASR	10 N*m	230	2 m²	NM230ASR	NM230ASR	1	0.90 kg	0
9	FAN WALL	M2	Belimo	NM230ASR	10 N*m	230	2 m²	NM230ASR	NM230ASR	1	0.90 kg	0
10	HYGIENIC	M1	Belimo	LM230ASR	5 N*m	230	1 m²	LM230ASR	LM230ASR	1	0.62 kg	0
10	HYGIENIC	M13	Belimo	LM230ASR	5 N*m	230	1 m²	LM230ASR	LM230ASR	1	0.62 kg	0
10	HYGIENIC	M14	Belimo	LM230ASR	5 N*m	230	1 m²	LM230ASR	LM230ASR	1	0.62 kg	0
11	EP COMPLIANT	M1	Belimo	LM230ASR	5 N*m	230	1 m²	LM230ASR	LM230ASR	1	0.62 kg	0
11	EP COMPLIANT	M12	Belimo	LM230ASR	5 N*m	230	1 m²	LM230ASR	LM230ASR	1	0.62 kg	0
11	EP COMPLIANT	M13	Belimo	LM230ASR	5 N*m	230	1 m²	LM230ASR	LM230ASR	1	0.62 kg	0

25 16.34

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export Ok Cancel

## SPECIAL MATERIALS / PLATE HEAT EXCHANGERS

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Fans Motors Frequency Converters Pulleys Belts Bushes Filters Coils Electric Heaters Steamy Humidifiers Honeycombs Water Pumps Silencers Control Panel Components Generic Components Damper Motors Plate Heat Exchangers Counterflow Heat Exchangers Rotary Heat Exchangers

AHU ID	AHU Name	Module Name	Trademark	Version	Latest Version	Reference	Settlement	Length	Edge Length	Width	Bypass Width	Bypass Air Velocity	Parallel Device Count	Serial Device Count
4	PLATE HEAT RECOVERY	M1	Recupera...	18.20.0007	18.20.0007	BQ AL 06 N 0905 M 1 AR CD SC M2	Vertical	849 mm	600 mm	905 mm	0 mm	0.00 m/s	2	1

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export Ok Cancel



### SPECIAL MATERIALS / COUNTERFLOW HEAT EXCHANGERS

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Fans Motors Frequency Converters Pulleys Belts Bushes Filters Coils Electric Heaters Steamy Humidifiers Honeycombs Water Pumps Silencers Control Panel Components Generic Components Damper Motors Plate Heat Exchangers Counterflow Heat Exchangers Rotary Heat Exchangers

Properties

AHU ID	AHU Name	Module Name	Trademark	Version	Latest Version	Reference	Settlement	Length	Edge Length	Horizontal Edge Length	Vertical Edge Length	Width	Height	Bypass Width
5	COUNTERFLOW HEAT RECOVERY	M1	Hoval	2.0.7.0	2.0.7.0	GVC110/P1/1810,G2	Vertical	1298 mm	754 mm	246 mm	11 mm	905 mm	1068 mm	0 mm
10	HYGIENIC	M1	Hoval	2.0.7.0	2.0.7.0	GVC150/P1/1660/BSK329,G2	Vertical	1864 mm	1142 mm	246 mm	11 mm	665.5 mm	1632 mm	329 mm
11	ERP COMPLIANT	M1	Hoval	2.0.7.0	2.0.7.0	GVC150/P1/1660/BSK329,G2	Vertical	1864 mm	1142 mm	246 mm	11 mm	665.5 mm	1632 mm	329 mm

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export Ok Cancel

### SPECIAL MATERIALS / ROTARY HEAT EXCHANGERS

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Fans Motors Frequency Converters Pulleys Belts Bushes Filters Coils Electric Heaters Steamy Humidifiers Honeycombs Water Pumps Silencers Control Panel Components Generic Components Damper Motors Plate Heat Exchangers Counterflow Heat Exchangers Rotary Heat Exchangers

Properties

AHU ID	AHU Name	Module Name	Trademark	Version	Latest Version	Reference	Settlement	Rpm	Diameter	Width	Height	Depth	Parallel Device Count	Serial Device Count	OA
6	ROTARY HEAT RECOVERY	M1	Recupera...	18.03.0008	18.03.0008	RQ AL 1350 C 1 TN	Vertical	15	1350 mm	1450 mm	1450 mm	290 mm	1	1	

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export Ok Cancel

## MODULE SIZES / PROJECT BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Project AHU

Module Type	Width	Height	Length	Weight	Layer Status	Join Type	Count
Filter	800 mm	900 mm	628 mm	56.30 kg	Bottom	Joined	1
Fan	860 mm	900 mm	971 mm	187.72 kg	Bottom	Joined	1
Empty	860 mm	900 mm	690 mm	57.98 kg	Bottom	None	1
Steamy Humidifier	800 mm	900 mm	630 mm	133.25 kg	Bottom	None	1
Electric Heater	800 mm	900 mm	450 mm	203.84 kg	Bottom	None	1
Heating Coil	950 mm	900 mm	205 mm	30.76 kg	Bottom	Joined W...	1
Cooling Coil	950 mm	900 mm	785 mm	117.82 kg	Bottom	None	1
Silencer	800 mm	900 mm	1320 mm	111.61 kg	Bottom	None	1
Fan	2046 mm	2086 mm	1613 mm	772.74 kg	Bottom	Joined	1
Triple Connection Mixture	2046 mm	2286 mm	1510 mm	520.41 kg	Bottom	None	1
Filter	1986 mm	2086 mm	508 mm	179.61 kg	Bottom	Joined	1
Watery Humidifier	1986 mm	2086 mm	3000 mm	815.24 kg	Bottom	None	1
Electric Heater	1986 mm	2086 mm	450 mm	602.52 kg	Bottom	None	1
Heating Coil	2136 mm	2086 mm	215 mm	114.81 kg	Bottom	Joined	1
Cooling Coil	2136 mm	2086 mm	620 mm	428.32 kg	Bottom	None	1
Fan	2046 mm	2086 mm	1663 mm	865.73 kg	Bottom	None	1
Fan	1760 mm	1180 mm	1093 mm	345.44 kg	Bottom	Joined	1
Empty	1760 mm	1180 mm	710 mm	115.64 kg	Bottom	None	1
Cooling Coil	1850 mm	1180 mm	635 mm	205.32 kg	Bottom	Joined	1
Heating Coil	1850 mm	1180 mm	285 mm	99.44 kg	Bottom	Joined	1
Watery Humidifier	1700 mm	1180 mm	3000 mm	514.05 kg	Bottom	None	1
Electric Heater	1700 mm	1180 mm	450 mm	253.15 kg	Bottom	None	1
Filter	1700 mm	1180 mm	563 mm	125.63 kg	Bottom	None	1
Vertical Mixture	1760 mm	2260 mm	910 mm	358.01 kg	Bottom	None	1
Fan	1760 mm	1080 mm	1158 mm	269.13 kg	Top	None	1
Fan	1960 mm	1300 mm	1273 mm	796.62 kg	Bottom	None	2
Filter	1960 mm	1200 mm	918 mm	633.82 kg	Top	None	4
Empty	1960 mm	1300 mm	645 mm	173.80 kg	Bottom	Joined	2
Filter	1900 mm	1300 mm	450 mm	137.05 kg	Bottom	Joined	2
Electric Heater	1900 mm	1300 mm	450 mm	496.23 kg	Bottom	None	2
Plate Heat Exchanger	1900 mm	2500 mm	1039 mm	337.86 kg	Bottom	None	1
			66435 mm	23,480.11			88

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export

Ok Cancel

## MODULE SIZES / AHU BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Project AHU

Module Type	Module Name	Width	Height	Length	Weight	Layer Status	Join Type	Count
Filter	M2	800 mm	900 mm	628 mm	56.30 kg	Bottom	Joined	1
Fan	M5	860 mm	900 mm	971 mm	187.72 kg	Bottom	Joined	1
Empty	M6	860 mm	900 mm	690 mm	57.98 kg	Bottom	None	1
Steamy Humidifier	M8	800 mm	900 mm	630 mm	133.25 kg	Bottom	None	1
Electric Heater	M7	800 mm	900 mm	450 mm	203.84 kg	Bottom	None	1
Heating Coil	M3	950 mm	900 mm	205 mm	30.76 kg	Bottom	Joined W...	1
Cooling Coil	M4	950 mm	900 mm	785 mm	117.82 kg	Bottom	None	1
Silencer	M9	800 mm	900 mm	1320 mm	111.61 kg	Bottom	None	1
				5679 mm	899.28			8
AHU Name: MIXTURE								
Fan	M1	2046 mm	2086 mm	1613 mm	772.74 kg	Bottom	Joined	1
Triple Connection Mixture	M2	2046 mm	2286 mm	1510 mm	520.41 kg	Bottom	None	1
Filter	M3	1986 mm	2086 mm	508 mm	179.61 kg	Bottom	Joined	1
Watery Humidifier	M8	1986 mm	2086 mm	3000 mm	815.24 kg	Bottom	None	1
Electric Heater	M7	1986 mm	2086 mm	450 mm	602.52 kg	Bottom	None	1
Heating Coil	M4	2136 mm	2086 mm	215 mm	114.81 kg	Bottom	Joined	1
Cooling Coil	M5	2136 mm	2086 mm	620 mm	428.32 kg	Bottom	None	1
Fan	M6	2046 mm	2086 mm	1663 mm	865.73 kg	Bottom	None	1
				9579 mm	4,299.39			8
AHU Name: VERTICAL MIXTURE								
Fan	M6	1760 mm	1180 mm	1093 mm	345.44 kg	Bottom	Joined	1
Empty	M8	1760 mm	1180 mm	710 mm	115.64 kg	Bottom	None	1
Cooling Coil	M5	1850 mm	1180 mm	635 mm	205.32 kg	Bottom	Joined	1
Heating Coil	M4	1850 mm	1180 mm	285 mm	99.44 kg	Bottom	Joined	1
Watery Humidifier	M10	1700 mm	1180 mm	3000 mm	514.05 kg	Bottom	None	1
Electric Heater	M9	1700 mm	1180 mm	450 mm	253.15 kg	Bottom	None	1
Filter	M3	1700 mm	1180 mm	563 mm	125.63 kg	Bottom	None	1
Vertical Mixture	M7	1760 mm	2260 mm	910 mm	358.01 kg	Bottom	None	1
Fan	M1	1760 mm	1080 mm	1158 mm	269.13 kg	Top	None	1
				82931 mm	23,480.11			88

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export

Ok Cancel

## SPARE PARTS / PROJECT BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Project AHU Module

Material Type	Material Code	Material Name	Group Name	Properties	Price	Profit	Discount	Net Profit	Tax	Net Price
Filter	02.102.01.01.03.015	Panel Filter EU-4 (595x595x45)	Filters		8.50	10.20	0.00	10.20	0.00	18.70
Filter	02.102.01.02.06.026	Bag Filter EU-7 (592x592x305) 8 ...	Filters		16.65	19.98	0.00	19.98	0.00	36.63
Door	1885	Door Handle Set ( With Lock )	Door Handles		0.00	0.00	0.00	0.00	0.00	0.00
Door	1886	Door Handle Set ( Without Lock )	Door Handles		0.00	0.00	0.00	0.00	0.00	0.00
Door	04.XP.10.006	Hinge	Other Materials		2.20	3.52	0.00	3.52	0.00	5.72
Belt	02.403.01.05.018	BELT SPA 1200	Belts		6.68	8.02	0.00	8.02	0.00	14.71
Accessory	05.611.07.001	Siphon	Other Materials		18.00	21.60	0.00	21.60	0.00	39.60
Belt	02.403.01.05.052	BELT SPA 2000	Belts		9.53	11.43	0.00	11.43	0.00	20.96
Accessory	04.XP.05.011	Door Observation Glass	Other Materials		11.00	13.20	0.00	13.20	0.00	24.20
Accessory	05.415.01.001	Maintenance Switch	Other Materials		1.32	0.79	0.00	0.79	0.00	2.12
Belt	02.403.01.06.050	BELT SPB 2000	Belts		14.06	16.88	0.00	16.88	0.00	30.94
Filter	02.102.01.01.03.001	Panel Filter EU-4 (290x595x45)	Filters		5.60	6.72	0.00	6.72	0.00	12.32
Filter	02.102.01.01.03.002	Panel Filter EU-4 (290x290x45)	Filters		3.00	3.60	0.00	3.60	0.00	6.60
Filter	02.102.01.02.06.008	Bag Filter EU-7 (287x592x305) 4 ...	Filters		11.14	13.37	0.00	13.37	0.00	24.51
Filter	02.102.01.02.06.012	Bag Filter EU-7 (287x287x305) 4 ...	Filters		6.00	7.20	0.00	7.20	0.00	13.20
Belt	02.403.01.08.010	BELT SPZ 1000	Belts		3.81	4.57	0.00	4.57	0.00	8.38
Filter	02.102.01.01.01.015	Panel Filter EU-2 (597x597x45)	Filters		7.80	9.36	0.00	9.36	0.00	17.16
Filter	02.102.01.01.01.001	Panel Filter EU-2 (287x592x48)	Filters		7.50	9.00	0.00	9.00	0.00	16.50
Filter	02.102.01.02.03.022	Bag Filter EU-4 (592x592x610) 6 ...	Filters		15.00	18.00	0.00	18.00	0.00	33.00
Filter	02.102.01.02.03.006	Bag Filter EU-4 (287x592x610) 3 ...	Filters		8.50	10.20	0.00	10.20	0.00	18.70
Filter	02.102.01.01.04.015	Panel Filter EU-5 (597x595x45)	Filters		16.02	19.22	0.00	19.22	0.00	35.24
Filter	02.102.01.01.04.001	Panel Filter EU-5 (290x595x45)	Filters		9.70	11.64	0.00	11.64	0.00	21.34
Filter	02.102.01.02.08.023	Bag Filter EU-9 (592x592x610) 8 ...	Filters		23.10	27.72	0.00	27.72	0.00	50.82
Filter	02.102.01.02.08.007	Bag Filter EU-9 (287x592x610) 4 ...	Filters		13.76	16.51	0.00	16.51	0.00	30.27

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export

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## SPARE PARTS / AHU BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Project AHU Module

Material Type	Material Code	Material Name	Group Name	Properties	Price	Profit	Discount	Net Profit	Tax	Net Price
AHU Name: %100 FRESH										
Filter	02.102.01.01.03.015	Panel Filter EU-4 (595x595x45)	Filters		8.50	10.20	0.00	10.20	0.00	18.70
Filter	02.102.01.02.06.026	Bag Filter EU-7 (592x592x305) 8 ...	Filters		16.65	19.98	0.00	19.98	0.00	36.63
Door	1885	Door Handle Set ( With Lock )	Door Handles		0.00	0.00	0.00	0.00	0.00	0.00
Door	1886	Door Handle Set ( Without Lock )	Door Handles		0.00	0.00	0.00	0.00	0.00	0.00
Door	04.XP.10.006	Hinge	Other Materials		2.20	3.52	0.00	3.52	0.00	5.72
Belt	02.403.01.05.018	BELT SPA 1200	Belts		6.68	8.02	0.00	8.02	0.00	14.71
Accessory	05.611.07.001	Siphon	Other Materials		18.00	21.60	0.00	21.60	0.00	39.60
AHU Name: MIXTURE										
Door	1885	Door Handle Set ( With Lock )	Door Handles		0.00	0.00	0.00	0.00	0.00	0.00
Door	1886	Door Handle Set ( Without Lock )	Door Handles		0.00	0.00	0.00	0.00	0.00	0.00
Door	04.XP.10.006	Hinge	Other Materials		2.20	3.52	0.00	3.52	0.00	5.72
Belt	02.403.01.05.052	BELT SPA 2000	Belts		9.53	11.43	0.00	11.43	0.00	20.96
Accessory	04.XP.05.011	Door Observation Glass	Other Materials		11.00	13.20	0.00	13.20	0.00	24.20
Accessory	05.415.01.001	Maintenance Switch	Other Materials		1.32	0.79	0.00	0.79	0.00	2.12
Filter	02.102.01.01.03.015	Panel Filter EU-4 (595x595x45)	Filters		8.50	10.20	0.00	10.20	0.00	18.70
Filter	02.102.01.02.06.026	Bag Filter EU-7 (592x592x305) 8 ...	Filters		16.65	19.98	0.00	19.98	0.00	36.63
Accessory	05.611.07.001	Siphon	Other Materials		18.00	21.60	0.00	21.60	0.00	39.60
Belt	02.403.01.06.050	BELT SPB 2000	Belts		14.06	16.88	0.00	16.88	0.00	30.94
AHU Name: VERTICAL MIXTURE										
Door	1885	Door Handle Set ( With Lock )	Door Handles		0.00	0.00	0.00	0.00	0.00	0.00
Door	1886	Door Handle Set ( Without Lock )	Door Handles		0.00	0.00	0.00	0.00	0.00	0.00
Door	04.XP.10.006	Hinge	Other Materials		2.20	3.52	0.00	3.52	0.00	5.72
Belt	02.403.01.05.018	BELT SPA 1200	Belts		6.68	8.02	0.00	8.02	0.00	14.71
Accessory	04.XP.05.011	Door Observation Glass	Other Materials		11.00	13.20	0.00	13.20	0.00	24.20
Accessory	05.415.01.001	Maintenance Switch	Other Materials		1.32	0.79	0.00	0.79	0.00	2.12
Accessory	05.611.07.001	Siphon	Other Materials		18.00	21.60	0.00	21.60	0.00	39.60
Filter	02.102.01.01.03.015	Panel Filter EU-4 (595x595x45)	Filters		8.50	10.20	0.00	10.20	0.00	18.70
Filter	02.102.01.01.03.001	Panel Filter EU-4 (290x595x45)	Filters		5.60	6.72	0.00	6.72	0.00	12.32
Filter	02.102.01.01.03.002	Panel Filter EU-4 (290x290x45)	Filters		3.00	3.60	0.00	3.60	0.00	6.60
Filter	02.102.01.02.06.026	Bag Filter EU-7 (592x592x305) 8 ...	Filters		16.65	19.98	0.00	19.98	0.00	36.63
Filter	02.102.01.02.06.008	Bag Filter EU-7 (287x592x305) 4 ...	Filters		11.14	13.37	0.00	13.37	0.00	24.51

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export

Ok Cancel

### SPARE PARTS / MODULE BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \*

EUR

Profit Ratio (%)

10

Spare Part Profit Ratio (%)

60

Calculate

Currency Price \*

18.1259

Discount Ratio (%)

0

Spare Part Discount Ratio (%)

0

Calculate

Grand Total

Materials

Special Materials

Panels

Profiles

Pedestals

Condensation Pans

Connections

Module Sizes

Production Durations

Spare Parts

Project

AHU

Module

Module Type	Material Type	Material Code	Material Name	Group Name	Properties	Price	Profit	Discount	Net Profit	Tax	Net Price
AHU Name: %100 FRESH											
Module Name: M2											
Filter	Filter	02.102.01.01.03.015	Panel Filter EU-4 (595x595x45)	Filters		8.50	10.20	0.00	10.20	0.00	18.70
Filter	Filter	02.102.01.02.06.026	Bag Filter EU-7 (592x592x305) 8 ...	Filters		16.65	19.98	0.00	19.98	0.00	36.63
Module Name: M5											
Fan	Door	1885	Door Handle Set ( With Lock )	Door Handles		0.00	0.00	0.00	0.00	0.00	0.00
Fan	Door	1886	Door Handle Set ( Without Lock )	Door Handles		0.00	0.00	0.00	0.00	0.00	0.00
Fan	Door	04.KP.10.006	Hinge	Other Materials		2.20	3.52	0.00	3.52	0.00	5.72
Fan	Belt	02.403.01.05.018	BELT SPA 1200	Belts		6.68	8.02	0.00	8.02	0.00	14.71
Module Name: M6											
Empty	Door	1885	Door Handle Set ( With Lock )	Door Handles		0.00	0.00	0.00	0.00	0.00	0.00
Empty	Door	1886	Door Handle Set ( Without Lock )	Door Handles		0.00	0.00	0.00	0.00	0.00	0.00
Empty	Door	04.KP.10.006	Hinge	Other Materials		2.20	3.52	0.00	3.52	0.00	5.72
Module Name: M8											
Steamy Humidifier	Accessory	05.611.07.001	Siphon	Other Materials		18.00	21.60	0.00	21.60	0.00	39.60
AHU Name: MIXTURE											
Module Name: M1											
Fan	Door	1885	Door Handle Set ( With Lock )	Door Handles		0.00	0.00	0.00	0.00	0.00	0.00
Fan	Door	1886	Door Handle Set ( Without Lock )	Door Handles		0.00	0.00	0.00	0.00	0.00	0.00
Fan	Door	04.KP.10.006	Hinge	Other Materials		2.20	3.52	0.00	3.52	0.00	5.72
Fan	Belt	02.403.01.05.052	BELT SPA 2000	Belts		9.53	11.43	0.00	11.43	0.00	20.96
Fan	Accessory	04.KP.05.011	Door Observation Glass	Other Materials		11.00	13.20	0.00	13.20	0.00	24.20
Fan	Accessory	05.415.01.001	Maintenance Switch	Other Materials		1.32	0.79	0.00	0.79	0.00	2.12
Module Name: M2											
Triple Connection Mixture	Door	1885	Door Handle Set ( With Lock )	Door Handles		0.00	0.00	0.00	0.00	0.00	0.00
Triple Connection Mixture	Door	1886	Door Handle Set ( Without Lock )	Door Handles		0.00	0.00	0.00	0.00	0.00	0.00
Triple Connection Mixture	Door	04.KP.10.006	Hinge	Other Materials		2.20	3.52	0.00	3.52	0.00	5.72
Module Name: M3											
Filter	Filter	02.102.01.01.03.015	Panel Filter EU-4 (595x595x45)	Filters		8.50	10.20	0.00	10.20	0.00	18.70
Filter	Filter	02.102.01.02.06.026	Bag Filter EU-7 (592x592x305) 8 ...	Filters		16.65	19.98	0.00	19.98	0.00	36.63
Module Name: M6											
Fan	Door	1885	Door Handle Set ( With Lock )	Door Handles		0.00	0.00	0.00	0.00	0.00	0.00

Proforma Invoice

Panel Sheets

Pedestal Sheets

Condensation Pan Sheets

Connections

Export

OK

Cancel



## MANUFACTURING MODULE

Software can generate the below information to help the manufacturing of the AHU.

- Generation of Panel / Door List
- Generation of Profile List
- Generation of Pedestal List
- Generation of Damper / Flange List
- Generation of Condensation Pan List
- Generation of Panel Inside / Outside Sheet Drawings For Cutting List
- Generation of Pedestal Drawings For Cutting List
- Generation of Condensation Pan Drawings For Cutting List
- Generation of Module Production Duration

Also we can generate the cutting list of internal parts.

- Bypass Sheets Cutting List For Heat Exchangers, Coils, Filters, Fans, Humidifiers
- Coil, Drop Eliminator Sled Sheet Cutting List
- Fan / Motor Bases Cutting List
- Drop Eliminators Cutting List

Whole manufacturing information will be customized for the customer.

## PANELS / PROJECT BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Project AHU Module

Panel Type	Observation Glass	Width	Height	Regular Width	Regular Height	Count	Inside Sheet Name	Inside Sheet Thickness (mm)	Outside Sheet Name	Outside Sheet Thickness (mm)	Insulation Name	Insulation Thickness (mm)
Panel		453 mm	710 mm			4	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	40
Panel		926 mm	710 mm			3	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	40
Panel		600 mm	710 mm			3	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	40
Panel		360 mm	710 mm			4	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	40
Panel		115 mm	710 mm			1	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	40
Panel		1100 mm	710 mm			4	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	40
Panel		540 mm	710 mm			3	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	40
Panel		900 mm	710 mm			3	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	40
Panel		281 mm	710 mm			1	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	40
Door		600 mm	710 mm			2	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	40
Panel		1508 mm	855.5 mm			3	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50
Panel		671.5 mm	965.5 mm			3	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50
Panel		781.5 mm	965.5 mm			3	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50
Panel		1400 mm	855.5 mm			2	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50
Panel		617.5 mm	965.5 mm			2	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50
Panel		727.5 mm	965.5 mm			2	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50
Panel		453 mm	855.5 mm			4	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50
Panel		453 mm	965.5 mm			4	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50
Panel		340 mm	855.5 mm			4	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50
Panel		340 mm	965.5 mm			4	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50
Panel		160 mm	855.5 mm			4	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50
Panel		160 mm	965.5 mm			4	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50
Panel		1553 mm	855.5 mm			3	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50
Panel		694 mm	965.5 mm			3	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50
Panel		804 mm	965.5 mm			3	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50
Panel		240 mm	855.5 mm			1	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50
Panel		240 mm	965.5 mm			1	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50
Panel		1362.5 mm	855.5 mm			3	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50
Panel		598.75 mm	965.5 mm			3	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50
Panel		708.75 mm	965.5 mm			3	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	50

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Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export

Ok Cancel

## PANELS / AHU BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Project AHU Module

Panel Type	Observation Glass	Width	Height	Regular Width	Regular Height	Count	Inside Sheet Name	Inside Sheet Thickness (mm)	Outside Sheet Name	Outside Sheet Thickness (mm)	Insulation Name	Insulation Thickness
AHU Name: %100 FRESH												
Panel	<input type="checkbox"/>	453 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	4	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	
Panel	<input type="checkbox"/>	926 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	3	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	
Panel	<input type="checkbox"/>	600 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	3	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	
Panel	<input type="checkbox"/>	360 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	4	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	
Panel	<input type="checkbox"/>	115 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	
Panel	<input type="checkbox"/>	1100 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	4	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	
Panel	<input type="checkbox"/>	540 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	3	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	
Panel	<input type="checkbox"/>	900 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	3	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	
Panel	<input type="checkbox"/>	281 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	
Door	<input type="checkbox"/>	600 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	2	Galvanize		0.6 Painted Galvanize		0.6 Polyurethane	
						28						
AHU Name: MIXTURE												
Panel	<input type="checkbox"/>	1508 mm	855.5 mm	<input type="checkbox"/>	<input type="checkbox"/>	3	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	
Panel	<input type="checkbox"/>	671.5 mm	965.5 mm	<input type="checkbox"/>	<input type="checkbox"/>	3	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	
Panel	<input type="checkbox"/>	781.5 mm	965.5 mm	<input type="checkbox"/>	<input type="checkbox"/>	3	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	
Panel	<input type="checkbox"/>	1400 mm	855.5 mm	<input type="checkbox"/>	<input type="checkbox"/>	2	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	
Panel	<input type="checkbox"/>	617.5 mm	965.5 mm	<input type="checkbox"/>	<input type="checkbox"/>	2	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	
Panel	<input type="checkbox"/>	727.5 mm	965.5 mm	<input type="checkbox"/>	<input type="checkbox"/>	2	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	
Panel	<input type="checkbox"/>	453 mm	855.5 mm	<input type="checkbox"/>	<input type="checkbox"/>	4	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	
Panel	<input type="checkbox"/>	453 mm	965.5 mm	<input type="checkbox"/>	<input type="checkbox"/>	4	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	
Panel	<input type="checkbox"/>	340 mm	855.5 mm	<input type="checkbox"/>	<input type="checkbox"/>	4	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	
Panel	<input type="checkbox"/>	340 mm	965.5 mm	<input type="checkbox"/>	<input type="checkbox"/>	4	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	
Panel	<input type="checkbox"/>	160 mm	855.5 mm	<input type="checkbox"/>	<input type="checkbox"/>	4	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	
Panel	<input type="checkbox"/>	160 mm	965.5 mm	<input type="checkbox"/>	<input type="checkbox"/>	4	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	
Panel	<input type="checkbox"/>	1553 mm	855.5 mm	<input type="checkbox"/>	<input type="checkbox"/>	3	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	
Panel	<input type="checkbox"/>	694 mm	965.5 mm	<input type="checkbox"/>	<input type="checkbox"/>	3	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	
Panel	<input type="checkbox"/>	804 mm	965.5 mm	<input type="checkbox"/>	<input type="checkbox"/>	3	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	
Panel	<input type="checkbox"/>	240 mm	855.5 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	
Panel	<input type="checkbox"/>	240 mm	965.5 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		1 Painted Galvanize		1 Rockwool 70 kg/m³	
						689						

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export OK Cancel

## PANELS / MODULE BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Project AHU Module

Module Type	Panel Type	Observation Glass	Surface	Width	Height	Regular Width	Regular Height	Count	Inside Sheet Name	Inside Sheet Thickness (mm)	Outside Sheet Name	Outside Sheet Thickness
AHU Name: %100 FRESH												
Module Name: M2												
Filter	Panel	<input type="checkbox"/>	Bottom	453 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize	
Filter	Panel	<input type="checkbox"/>	Top	453 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize	
Filter	Panel	<input type="checkbox"/>	Left	453 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize	
Filter	Panel	<input type="checkbox"/>	Right	453 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize	
						4						
Module Name: M3												
Heating Coil	Panel	<input type="checkbox"/>	Bottom	115 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize	
Heating Coil	Panel	<input type="checkbox"/>	Top	900 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize	
Heating Coil	Panel	<input type="checkbox"/>	Left	900 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize	
Heating Coil	Panel	<input type="checkbox"/>	Right	900 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize	
						4						
Module Name: M5												
Fan	Panel	<input type="checkbox"/>	Bottom	926 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize	
Fan	Panel	<input type="checkbox"/>	Top	926 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize	
Fan	Panel	<input type="checkbox"/>	Left	926 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize	
Fan	Panel	<input type="checkbox"/>	Right	281 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize	
Door	Door	<input type="checkbox"/>	Right	600 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize	
						5						
Module Name: M6												
Empty	Panel	<input type="checkbox"/>	Bottom	600 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize	
Empty	Panel	<input type="checkbox"/>	Top	600 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize	
Empty	Panel	<input type="checkbox"/>	Left	600 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize	
Empty	Door	<input type="checkbox"/>	Right	600 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize	
						4						
Module Name: M7												
Electric Heater	Panel	<input type="checkbox"/>	Bottom	360 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize	
Electric Heater	Panel	<input type="checkbox"/>	Top	360 mm	710 mm	<input type="checkbox"/>	<input type="checkbox"/>	1	Galvanize		0.6 Painted Galvanize	
						689						

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export OK Cancel

### PROFILES / PROJECT BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Project AHU Module

Profile Type	Length	Count	Profile Name	Sub Profile Name	Sub Profile Thickness	Creation Type
Edge	580 mm	40	Aluminium	Oval Profile 24	45	Automatic
Corner	65 mm	888	Aluminium	Oval Profile 24	65	Automatic
Middle	580 mm	8	Aluminium	Oval Profile 24	45	Automatic
Middle Link	20 mm	624	Aluminium	Oval Profile 24	20	Automatic
Middle	670 mm	2	Aluminium	Oval Profile 24	45	Automatic
Edge	1849 mm	4	Aluminium	Oval Profile 24	45	Automatic
Edge	410 mm	4	Aluminium	Oval Profile 24	45	Automatic
Edge	230 mm	4	Aluminium	Oval Profile 24	45	Automatic
Edge	770 mm	4	Aluminium	Oval Profile 24	45	Automatic
Edge	970 mm	4	Aluminium	Oval Profile 24	45	Automatic
Middle	1468 mm	4	Aluminium	Oval Profile 34	55	Automatic
Middle Link	20 mm	228	Aluminium	Oval Profile 34	20	Automatic
Middle	925.5 mm	14	Aluminium	Oval Profile 34	55	Automatic
Edge	1726 mm	40	Aluminium	Oval Profile 34	55	Automatic
Corner	75 mm	180	Aluminium	Oval Profile 34	75	Automatic
Middle	1360 mm	3	Aluminium	Oval Profile 34	55	Automatic
Middle	1726 mm	12	Aluminium	Oval Profile 34	55	Automatic
Middle	413 mm	4	Aluminium	Oval Profile 34	55	Automatic
Middle	300 mm	4	Aluminium	Oval Profile 34	55	Automatic
Middle	120 mm	4	Aluminium	Oval Profile 34	55	Automatic
Middle	1513 mm	4	Aluminium	Oval Profile 34	55	Automatic
Middle	1836 mm	8	Aluminium	Oval Profile 34	55	Automatic
Middle	200 mm	1	Aluminium	Oval Profile 34	55	Automatic
Middle	1322.5 mm	4	Aluminium	Oval Profile 34	55	Automatic
Middle	1432.5 mm	4	Aluminium	Oval Profile 34	55	Automatic
Middle	470 mm	3	Aluminium	Oval Profile 34	55	Automatic
Edge	2758 mm	4	Aluminium	Oval Profile 34	55	Automatic
Edge	3193 mm	4	Aluminium	Oval Profile 34	55	Automatic
Edge	190 mm	8	Aluminium	Oval Profile 34	55	Automatic
Edge	520 mm	4	Aluminium	Oval Profile 34	55	Automatic
Edge	1403 mm	4	Aluminium	Oval Profile 34	55	Automatic
3136						

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export

OK Cancel

### PROFILES / AHU BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Project AHU Module

Profile Type	Length	Count	Profile Name	Sub Profile Name	Sub Profile Thickness	Creation Type
AHU Name: %100 FRESH						
Edge	580 mm	40	Aluminium	Oval Profile 24	45	Automatic
Corner	65 mm	80	Aluminium	Oval Profile 24	65	Automatic
Middle	580 mm	8	Aluminium	Oval Profile 24	45	Automatic
Middle Link	20 mm	20	Aluminium	Oval Profile 24	20	Automatic
Middle	670 mm	2	Aluminium	Oval Profile 24	45	Automatic
Edge	1849 mm	4	Aluminium	Oval Profile 24	45	Automatic
Edge	410 mm	4	Aluminium	Oval Profile 24	45	Automatic
Edge	230 mm	4	Aluminium	Oval Profile 24	45	Automatic
Edge	770 mm	4	Aluminium	Oval Profile 24	45	Automatic
Edge	970 mm	4	Aluminium	Oval Profile 24	45	Automatic
170						
AHU Name: MIXTURE						
Middle	1468 mm	4	Aluminium	Oval Profile 34	55	Automatic
Middle Link	20 mm	154	Aluminium	Oval Profile 34	20	Automatic
Middle	925.5 mm	14	Aluminium	Oval Profile 34	55	Automatic
Edge	1726 mm	40	Aluminium	Oval Profile 34	55	Automatic
Corner	75 mm	80	Aluminium	Oval Profile 34	75	Automatic
Middle	1360 mm	3	Aluminium	Oval Profile 34	55	Automatic
Middle	1726 mm	12	Aluminium	Oval Profile 34	55	Automatic
Middle	413 mm	4	Aluminium	Oval Profile 34	55	Automatic
Middle	300 mm	4	Aluminium	Oval Profile 34	55	Automatic
Middle	120 mm	4	Aluminium	Oval Profile 34	55	Automatic
Middle	1513 mm	4	Aluminium	Oval Profile 34	55	Automatic
Middle	1836 mm	8	Aluminium	Oval Profile 34	55	Automatic
Middle	200 mm	1	Aluminium	Oval Profile 34	55	Automatic
Middle	1322.5 mm	3	Aluminium	Oval Profile 34	55	Automatic
Middle	1432.5 mm	3	Aluminium	Oval Profile 34	55	Automatic
Middle	470 mm	3	Aluminium	Oval Profile 34	55	Automatic
Edge	2758 mm	4	Aluminium	Oval Profile 34	55	Automatic
3136						

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export

OK Cancel

### PROFILES / MODULE BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Project AHU Module

Module Type	Profile Type	Surface	Alignment	Orientation	Length	Count	Profile Name	Sub Profile Name	Sub Profile Thickness	Creation Type
AHU Name: %100 FRESH										
Module Name: M2										
Filter	Edge	Bottom	Left	Horizontal	580 mm	1	Aluminium	Oval Profile 24	45	Automatic
Filter	Corner	Bottom	Top	Horizontal	65 mm	1	Aluminium	Oval Profile 24	65	Automatic
Filter	Corner	Bottom	Bottom	Horizontal	65 mm	1	Aluminium	Oval Profile 24	65	Automatic
Filter	Edge	Top	Left	Horizontal	580 mm	1	Aluminium	Oval Profile 24	45	Automatic
Filter	Corner	Top	Top	Horizontal	65 mm	1	Aluminium	Oval Profile 24	65	Automatic
Filter	Corner	Top	Bottom	Horizontal	65 mm	1	Aluminium	Oval Profile 24	65	Automatic
Filter	Edge	Left	Top	Horizontal	1849 mm	1	Aluminium	Oval Profile 24	45	Automatic
Filter	Edge	Left	Bottom	Horizontal	1849 mm	1	Aluminium	Oval Profile 24	45	Automatic
Filter	Edge	Left	Left	Vertical	580 mm	1	Aluminium	Oval Profile 24	45	Automatic
Filter	Corner	Left	Top	Vertical	65 mm	1	Aluminium	Oval Profile 24	65	Automatic
Filter	Corner	Left	Bottom	Vertical	65 mm	1	Aluminium	Oval Profile 24	65	Automatic
Filter	Edge	Right	Top	Horizontal	1849 mm	1	Aluminium	Oval Profile 24	45	Automatic
Filter	Edge	Right	Bottom	Horizontal	1849 mm	1	Aluminium	Oval Profile 24	45	Automatic
Filter	Edge	Right	Left	Vertical	580 mm	1	Aluminium	Oval Profile 24	45	Automatic
Filter	Corner	Right	Top	Vertical	65 mm	1	Aluminium	Oval Profile 24	65	Automatic
Filter	Corner	Right	Bottom	Vertical	65 mm	1	Aluminium	Oval Profile 24	65	Automatic
						16				
Module Name: M3										
Heating Coil	Middle	Bottom	Left	Vertical	670 mm	1	Aluminium	Oval Profile 24	45	Automatic
Heating Coil	Middle Link	Bottom	Top	Horizontal	20 mm	1	Aluminium	Oval Profile 24	20	Automatic
Heating Coil	Middle Link	Bottom	Bottom	Horizontal	20 mm	1	Aluminium	Oval Profile 24	20	Automatic
Heating Coil	Edge	Bottom	Left	Horizontal	580 mm	1	Aluminium	Oval Profile 24	45	Automatic
Heating Coil	Corner	Bottom	Top	Horizontal	65 mm	1	Aluminium	Oval Profile 24	65	Automatic
Heating Coil	Corner	Bottom	Bottom	Horizontal	65 mm	1	Aluminium	Oval Profile 24	65	Automatic
Heating Coil	Edge	Top	Left	Horizontal	580 mm	1	Aluminium	Oval Profile 24	45	Automatic
Heating Coil	Corner	Top	Top	Horizontal	65 mm	1	Aluminium	Oval Profile 24	65	Automatic
Heating Coil	Corner	Top	Bottom	Horizontal	65 mm	1	Aluminium	Oval Profile 24	65	Automatic
Heating Coil	Edge	Left	Top	Horizontal	770 mm	1	Aluminium	Oval Profile 24	45	Automatic
						3136				

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export

OK Cancel

### PEDESTALS / PROJECT BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Project AHU Module

Pedestal Name	Pedestal Type	Pedestal Height	Settlement	Length	Count	Creation Type
3 mm Pedestal	Normal	100 mm	Along (B)	2189 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Wide (L)	800 mm	10	Automatic
3 mm Pedestal	Normal	100 mm	Wide - Middle (L)	740 mm	1	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	570 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	390 mm	6	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	1020 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	1130 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	3068 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Wide (L)	1986 mm	24	Automatic
3 mm Pedestal	Normal	100 mm	Along - Middle (B)	3068 mm	1	Automatic
3 mm Pedestal	Normal	100 mm	Wide - Middle (L)	948 mm	10	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	3503 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Along - Middle (B)	3503 mm	1	Automatic
3 mm Pedestal	Normal	100 mm	Along - Middle (B)	390 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	830 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Along - Middle (B)	830 mm	1	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	1603 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Along - Middle (B)	1603 mm	1	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	1798 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Wide (L)	1700 mm	10	Automatic
3 mm Pedestal	Normal	100 mm	Along - Middle (B)	1798 mm	1	Automatic
3 mm Pedestal	Normal	100 mm	Wide - Middle (L)	805 mm	6	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	3970 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Along - Middle (B)	3970 mm	1	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	503 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Along - Middle (B)	503 mm	1	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	650 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Along - Middle (B)	650 mm	1	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	1213 mm	4	Automatic
3 mm Pedestal	Normal	100 mm	Wide (L)	1900 mm	20	Automatic
3 mm Pedestal	Normal	100 mm	Along - Middle (B)	1213 mm	2	Automatic
					273	

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export

OK Cancel



### PEDESTALS / AHU BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Project AHU Module

Pedestal Name	Pedestal Type	Pedestal Height	Settlement	Length	Count	Creation Type
<b>AHU Name: %100 FRESH</b>						
3 mm Pedestal	Normal	100 mm	Along (B)	2189 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Wide (L)	800 mm	10	Automatic
3 mm Pedestal	Normal	100 mm	Wide - Middle (L)	740 mm	1	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	570 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	390 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	1020 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	1130 mm	2	Automatic
					21	
<b>AHU Name: MIXTURE</b>						
3 mm Pedestal	Normal	100 mm	Along (B)	3068 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Wide (L)	1986 mm	10	Automatic
3 mm Pedestal	Normal	100 mm	Along - Middle (B)	3068 mm	1	Automatic
3 mm Pedestal	Normal	100 mm	Wide - Middle (L)	948 mm	10	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	3503 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Along - Middle (B)	3503 mm	1	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	390 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Along - Middle (B)	390 mm	1	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	830 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Along - Middle (B)	830 mm	1	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	1603 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Along - Middle (B)	1603 mm	1	Automatic
					35	
<b>AHU Name: VERTICAL MIXTURE</b>						
3 mm Pedestal	Normal	100 mm	Along (B)	1798 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Wide (L)	1700 mm	10	Automatic
3 mm Pedestal	Normal	100 mm	Along - Middle (B)	1798 mm	1	Automatic
3 mm Pedestal	Normal	100 mm	Wide - Middle (L)	805 mm	6	Automatic
3 mm Pedestal	Normal	100 mm	Along (B)	3970 mm	2	Automatic
3 mm Pedestal	Normal	100 mm	Along - Middle (B)	3970 mm	1	Automatic
					273	

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export

OK Cancel

### PEDESTALS / MODULE BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Project AHU Module

Module Type	Pedestal Name	Pedestal Type	Pedestal Height	Settlement	Length	Count	Creation Type
<b>AHU Name: %100 FRESH</b>							
<b>Module Name: M4</b>							
Cooling Coil	3 mm Pedestal	Normal	100 mm	Along (B)	1020 mm	1	Automatic
Cooling Coil	3 mm Pedestal	Normal	100 mm	Along (B)	1020 mm	1	Automatic
Cooling Coil	3 mm Pedestal	Normal	100 mm	Wide (L)	800 mm	2	Automatic
					4		
<b>Module Name: M6</b>							
Empty	3 mm Pedestal	Normal	100 mm	Along (B)	2189 mm	2	Automatic
Empty	3 mm Pedestal	Normal	100 mm	Wide (L)	800 mm	2	Automatic
Empty	3 mm Pedestal	Normal	100 mm	Wide - Middle (L)	740 mm	1	Automatic
					5		
<b>Module Name: M7</b>							
Electric Heater	3 mm Pedestal	Normal	100 mm	Along (B)	390 mm	2	Automatic
Electric Heater	3 mm Pedestal	Normal	100 mm	Wide (L)	800 mm	2	Automatic
					4		
<b>Module Name: M8</b>							
Steamy Humidifier	3 mm Pedestal	Normal	100 mm	Along (B)	570 mm	1	Automatic
Steamy Humidifier	3 mm Pedestal	Normal	100 mm	Along (B)	570 mm	1	Automatic
Steamy Humidifier	3 mm Pedestal	Normal	100 mm	Wide (L)	800 mm	2	Automatic
					4		
<b>Module Name: M9</b>							
Silencer	3 mm Pedestal	Normal	100 mm	Along (B)	1130 mm	2	Automatic
Silencer	3 mm Pedestal	Normal	100 mm	Wide (L)	800 mm	2	Automatic
					4		
					21		
<b>AHU Name: MIXTURE</b>							
<b>Module Name: M2</b>							
Triple Connection Mixture	3 mm Pedestal	Normal	100 mm	Along (B)	3068 mm	2	Automatic
Triple Connection Mixture	3 mm Pedestal	Normal	100 mm	Wide (L)	1986 mm	2	Automatic
					273		

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export

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### CONDENSATION PANS / PROJECT BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Project AHU Module

Type	Location	Alignment	Direction	Connection Diameter	Width	Height	Length	Count	Pan Name	Creation Type
Side Inclined	Under Panel	Near	Right	40	710 mm	20 mm	540 mm	1	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	710 mm	20 mm	740 mm	1	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1876 mm	20 mm	2890 mm	1	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1876 mm	20 mm	510 mm	1	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1590 mm	20 mm	580 mm	1	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1590 mm	20 mm	2890 mm	1	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1810 mm	20 mm	474.5 mm	2	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1810 mm	20 mm	580 mm	2	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1810 mm	20 mm	699 mm	2	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1670 mm	20 mm	195 mm	2	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1896 mm	20 mm	685 mm	2	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1324 mm	20 mm	600 mm	1	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1660 mm	20 mm	982 mm	4	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1660 mm	20 mm	698 mm	1	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1660 mm	20 mm	1333 mm	1	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1660 mm	100 mm	700 mm	2	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1660 mm	20 mm	700 mm	2	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1660 mm	20 mm	600 mm	2	Stainless Steel	Automatic

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export OK Cancel

### CONDENSATION PANS / AHU BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Project AHU Module

Type	Location	Alignment	Direction	Connection Diameter	Width	Height	Length	Count	Pan Name	Creation Type
AHU Name: %100 FRESH										
Side Inclined	Under Panel	Near	Right	40	710 mm	20 mm	540 mm	1	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	710 mm	20 mm	740 mm	1	Stainless Steel	Automatic
AHU Name: MIXTURE										
Side Inclined	Under Panel	Near	Right	40	1876 mm	20 mm	2890 mm	1	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1876 mm	20 mm	510 mm	1	Stainless Steel	Automatic
AHU Name: VERTICAL MIXTURE										
Side Inclined	Under Panel	Near	Right	40	1590 mm	20 mm	580 mm	1	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1590 mm	20 mm	2890 mm	1	Stainless Steel	Automatic
AHU Name: PLATE HEAT RECOVERY										
Side Inclined	Under Panel	Near	Right	40	1810 mm	20 mm	474.5 mm	2	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1810 mm	20 mm	580 mm	1	Stainless Steel	Automatic
AHU Name: COUNTERFLOW HEAT RECOVERY										
Side Inclined	Under Panel	Near	Right	40	1810 mm	20 mm	699 mm	2	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1810 mm	20 mm	580 mm	1	Stainless Steel	Automatic
AHU Name: ROTARY HEAT RECOVERY										
Side Inclined	Under Panel	Near	Right	40	1670 mm	20 mm	195 mm	2	Stainless Steel	Automatic
AHU Name: RUN AROUND COIL HEAT RECOVERY										
Side Inclined	Under Panel	Near	Right	40	1896 mm	20 mm	685 mm	2	Stainless Steel	Automatic
AHU Name: FAN WALL										
Side Inclined	Under Panel	Near	Right	40	1324 mm	20 mm	600 mm	1	Stainless Steel	Automatic
AHU Name: HYGIENIC										
Side Inclined	Under Panel	Near	Right	40	1660 mm	20 mm	982 mm	2	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1660 mm	20 mm	698 mm	1	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1660 mm	20 mm	1333 mm	1	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1660 mm	100 mm	700 mm	1	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1660 mm	20 mm	700 mm	1	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1660 mm	20 mm	600 mm	1	Stainless Steel	Automatic
AHU Name: ERP COMPLIANT										
Side Inclined	Under Panel	Near	Right	40	1660 mm	20 mm	982 mm	2	Stainless Steel	Automatic
Side Inclined	Under Panel	Near	Right	40	1660 mm	100 mm	700 mm	1	Stainless Steel	Automatic

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export OK Cancel

### CONDENSATION PANS / MODULE BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Project AHU Module

Module Type	Type	Location	Alignment	Direction	Connection Diameter	Width	Height	Length	Count	Pan Name	Creation Type
<b>AHU Name: %100 FRESH</b>											
Module Name: M4											
Cooling Coil	Side Inclined	Under Panel	Near	Right	40	710 mm	20 mm	740 mm	1	Stainless Steel	Automatic
Module Name: MIXTURE											
Cooling Coil	Side Inclined	Under Panel	Near	Right	40	1876 mm	20 mm	510 mm	1	Stainless Steel	Automatic
Module Name: VERTICAL MIXTURE											
Cooling Coil	Side Inclined	Under Panel	Near	Right	40	1590 mm	20 mm	580 mm	1	Stainless Steel	Automatic
Module Name: PLATE HEAT RECOVERY											
Plate Heat Exchanger	Side Inclined	Under Panel	Near	Right	40	1810 mm	20 mm	474.5 mm	2	Stainless Steel	Automatic
Module Name: M6											
Cooling Coil	Side Inclined	Under Panel	Near	Right	40	1810 mm	20 mm	580 mm	1	Stainless Steel	Automatic
Module Name: COUNTERFLOW HEAT RECOVERY											
Counterflow Heat Exchanger	Side Inclined	Under Panel	Near	Right	40	1810 mm	20 mm	699 mm	2	Stainless Steel	Automatic
Module Name: M6											
Cooling Coil	Side Inclined	Under Panel	Near	Right	40	1810 mm	20 mm	580 mm	1	Stainless Steel	Automatic
Module Name: ROTARY HEAT RECOVERY											
Rotary Heat Exchanger	Side Inclined	Under Panel	Near	Right	40	1670 mm	20 mm	195 mm	2	Stainless Steel	Automatic
Module Name: RUN AROUND COIL HEAT RECOVERY											
Run Around Coil Heat Exchanger	Side Inclined	Under Panel	Near	Right	40	1896 mm	20 mm	685 mm	2	Stainless Steel	Automatic
Module Name: FAN WALL											
Cooling Coil	Side Inclined	Under Panel	Near	Right	40	1324 mm	20 mm	600 mm	1	Stainless Steel	Automatic
Module Name: HYGIENIC											
Counterflow Heat Exchanger	Side Inclined	Under Panel	Near	Right	40	1660 mm	20 mm	982 mm	2	Stainless Steel	Automatic

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export

### CONNECTIONS / PROJECT BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Project AHU Module

Connection Type	Additional Connection Type	Width	Height	Count
Gear Damper	None	710 mm	710 mm	2
Flange	None	1876 mm	850 mm	1
Joint Damper	None	1876 mm	465 mm	2
Joint Damper	None	1476 mm	465 mm	1
Flange	None	801 mm	801 mm	1
Joint Damper	None	1590 mm	155 mm	2
Joint Damper	None	1190 mm	155 mm	1
Gear Damper	None	1500 mm	324 mm	1
Flange	None	453 mm	453 mm	1
Gear Damper	None	1720 mm	432 mm	4
Gear Damper	None	1580 mm	324 mm	2
Flange	None	404 mm	404 mm	2
Gear Damper	None	1806 mm	540 mm	1
Flange	None	715 mm	715 mm	1
Gear Damper	None	1806 mm	648 mm	1
Flange	None	638 mm	638 mm	1
Gear Damper	None	1234 mm	990 mm	2
Flange	None	322 mm	322 mm	1
Flange	None	1660 mm	450 mm	4
Gear Damper	None	1570 mm	540 mm	4

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Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export

## CONNECTIONS / AHU BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Project AHU Module

Connection Type	Additional Connection Type	Width	Height	Count
<b>AHU Name: %100 FRESH</b>				
Gear Damper	None	710 mm	710 mm	2
				2
<b>AHU Name: MIXTURE</b>				
Flange	None	1876 mm	850 mm	1
Joint Damper	None	1876 mm	465 mm	2
Joint Damper	None	1476 mm	465 mm	1
Flange	None	801 mm	801 mm	1
				5
<b>AHU Name: VERTICAL MIXTURE</b>				
Joint Damper	None	1590 mm	155 mm	2
Joint Damper	None	1190 mm	155 mm	1
Gear Damper	None	1500 mm	324 mm	1
Flange	None	453 mm	453 mm	1
				5
<b>AHU Name: PLATE HEAT RECOVERY</b>				
Gear Damper	None	1720 mm	432 mm	2
				2
<b>AHU Name: COUNTERFLOW HEAT RECOVERY</b>				
Gear Damper	None	1720 mm	432 mm	2
				2
<b>AHU Name: ROTARY HEAT RECOVERY</b>				
Gear Damper	None	1580 mm	324 mm	2
Flange	None	404 mm	404 mm	2
				4
<b>AHU Name: RUN AROUND COIL HEAT RECOVERY</b>				
Gear Damper	None	1806 mm	540 mm	1
Flange	None	715 mm	715 mm	1
Gear Damper	None	1806 mm	648 mm	1
				35

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export

OK Cancel

## CONNECTIONS / MODULE BASED

HC Production - [862][SAMPLE PROJECT]

Currency Code \* EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

Currency Price \* 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0 Calculate

Grand Total Materials Special Materials Panels Profiles Pedestals Condensation Pans Connections Module Sizes Production Durations Spare Parts

Project AHU Module

Module Type	Damper Control Type	Connection Type	Additional Connection Type	Surface	Direction	Alignment	Location	Position	X	Y	Surface Alignment	Air Flow	Pressure Drop	Width	Height	Air Velocity
<b>AHU Name: %100 FRESH</b>																
<b>Module Name: M2</b>																
Filter	Automatic	Gear Damper	None	Forehead	Automatic	Top Center	Default	Alignment	0 mm	0 mm	Automatic	6,100 m³/h	10 Pa	710 mm	710 mm	5
<b>Module Name: M9</b>																
Silencer	Automatic	Gear Damper	None	Forehead	Automatic	Top Center	Default	Alignment	0 mm	0 mm	Automatic	6,100 m³/h	10 Pa	710 mm	710 mm	5
<b>AHU Name: MIXTURE</b>																
<b>Module Name: M1</b>																
Fan	Automatic	Flange	None	Forehead	Automatic	Top Center	Default	Alignment	0 mm	0 mm	Automatic	29,000 m³/h	10 Pa	1876 mm	850 mm	5
<b>Module Name: M2</b>																
Triple Connection Mixture	Automatic	Joint Damper	None	Top	Automatic	Top Center	Default	Alignment	0 mm	0 mm	Automatic	17,400 m³/h	10 Pa	1876 mm	465 mm	5
Triple Connection Mixture	Automatic	Joint Damper	None	Forehead	Automatic	Middle Ce...	Outside	Alignment	0 mm	0 mm	Automatic	11,600 m³/h	10 Pa	1476 mm	465 mm	5
<b>Module Name: M6</b>																
Fan	Manual	Flange	None	Forehead	Outside	Middle Ce...	Default	Alignment	0 mm	178 mm	Automatic	29,000 m³/h	0 Pa	801 mm	801 mm	12.5553...
<b>AHU Name: VERTICAL MIXTURE</b>																
<b>Module Name: M6</b>																
Fan	Automatic	Gear Damper	None	Forehead	Automatic	Top Center	Default	Alignment	0 mm	0 mm	Automatic	10,000 m³/h	10 Pa	1500 mm	324 mm	5
Fan	Manual	Flange	None	Forehead	Outside	Middle Ce...	Default	Alignment	0 mm	101 mm	Automatic	10,000 m³/h	0 Pa	453 mm	453 mm	13.5363...
<b>Module Name: M7</b>																
Vertical Mixture	Automatic	Joint Damper	None	Forehead	Automatic	Top Center	Default	Alignment	0 mm	0 mm	Automatic	6,000 m³/h	10 Pa	1590 mm	155 mm	5
Vertical Mixture	Automatic	Joint Damper	None	Forehead	Automatic	Middle Ce...	Outside	Alignment	0 mm	0 mm	Automatic	4,000 m³/h	10 Pa	1190 mm	155 mm	5

Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export

OK Cancel



### PRODUCTION DURATION

HC Production - [862][SAMPLE PROJECT]

Currency Code: EUR Profit Ratio (%) 10 Spare Part Profit Ratio (%) 60 Calculate

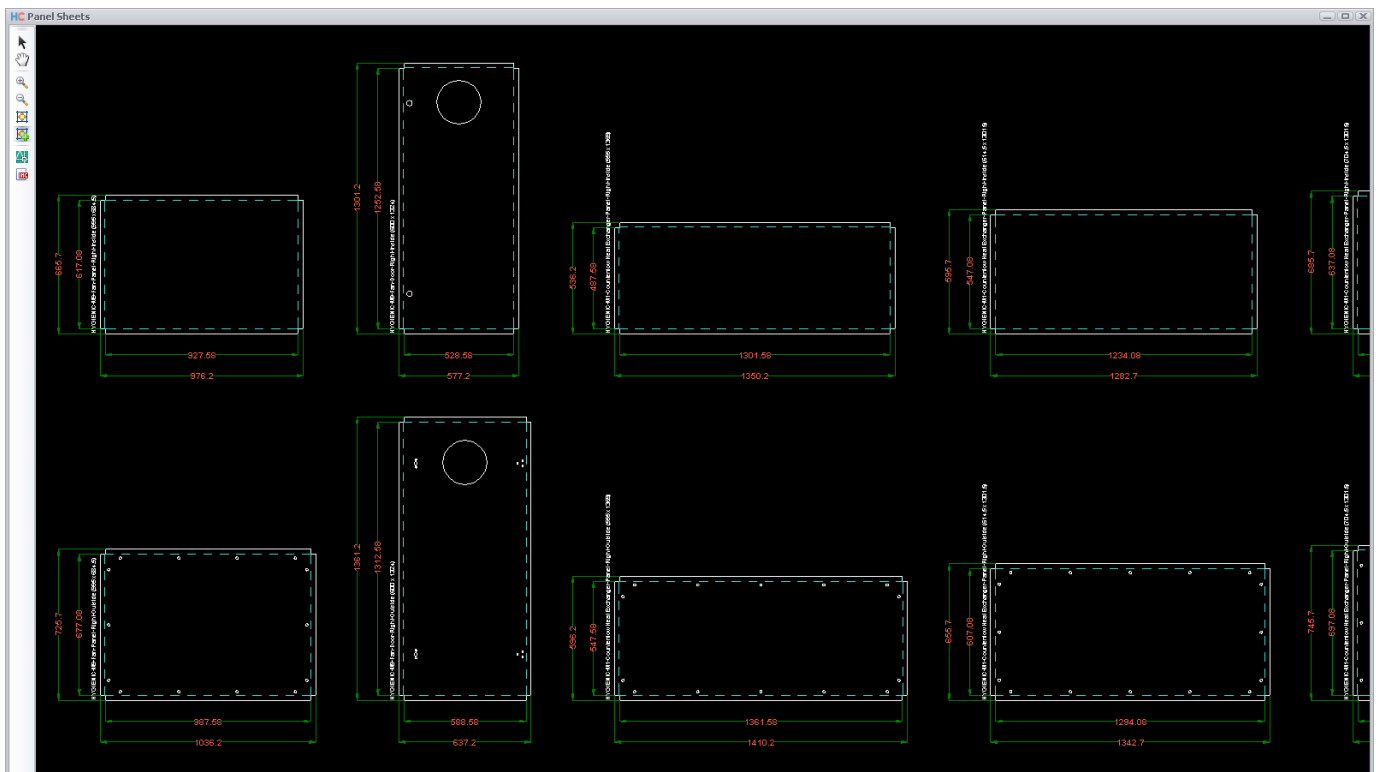
Currency Price: 18.1259 Discount Ratio (%) 0 Spare Part Discount Ratio (%) 0

Module Type	Module Name	Duration	Layer Status	Join Type	Count
<b>AHU Name: %100 FRESH</b>					
Filter	M2	2.4 h Bottom	Joined		1
Fan	M5	3 h Bottom	Joined		1
Empty	M6	2 h Bottom	None		1
Steamy Humidifier	M8	2.8 h Bottom	None		1
Electric Heater	M7	2.5 h Bottom	None		1
Heating Coil	M3	2.8 h Bottom	Joined W...		1
Cooling Coil	M4	3.2 h Bottom	None		1
Silencer	M9	3 h Bottom	None		1
					21.70 h
					8
<b>AHU Name: MIXTURE</b>					
Fan	M1	3.83 h Bottom	Joined		1
Triple Connection Mixture	M2	3.45 h Bottom	None		1
Filter	M3	3.06 h Bottom	Joined		1
Watery Humidifier	M8	20.42 h Bottom	None		1
Electric Heater	M7	3.19 h Bottom	None		1
Heating Coil	M4	3.57 h Bottom	Joined		1
Cooling Coil	M5	4.08 h Bottom	None		1
Fan	M6	3.83 h Bottom	None		1
					45.43 h
					8
<b>AHU Name: VERTICAL MIXTURE</b>					
Fan	M6	3.65 h Bottom	Joined		1
Empty	M8	2.43 h Bottom	None		1
Cooling Coil	M5	3.89 h Bottom	Joined		1
Heating Coil	M4	3.4 h Bottom	Joined		1
Watery Humidifier	M10	19.45 h Bottom	None		1
Electric Heater	M9	3.04 h Bottom	None		1
Filter	M3	2.92 h Bottom	None		1
Vertical Mixture	M7	4.13 h Bottom	None		1
Fan	M1	3.65 h Top	None		1
					46.56 h
					9
					389.92 h
					88

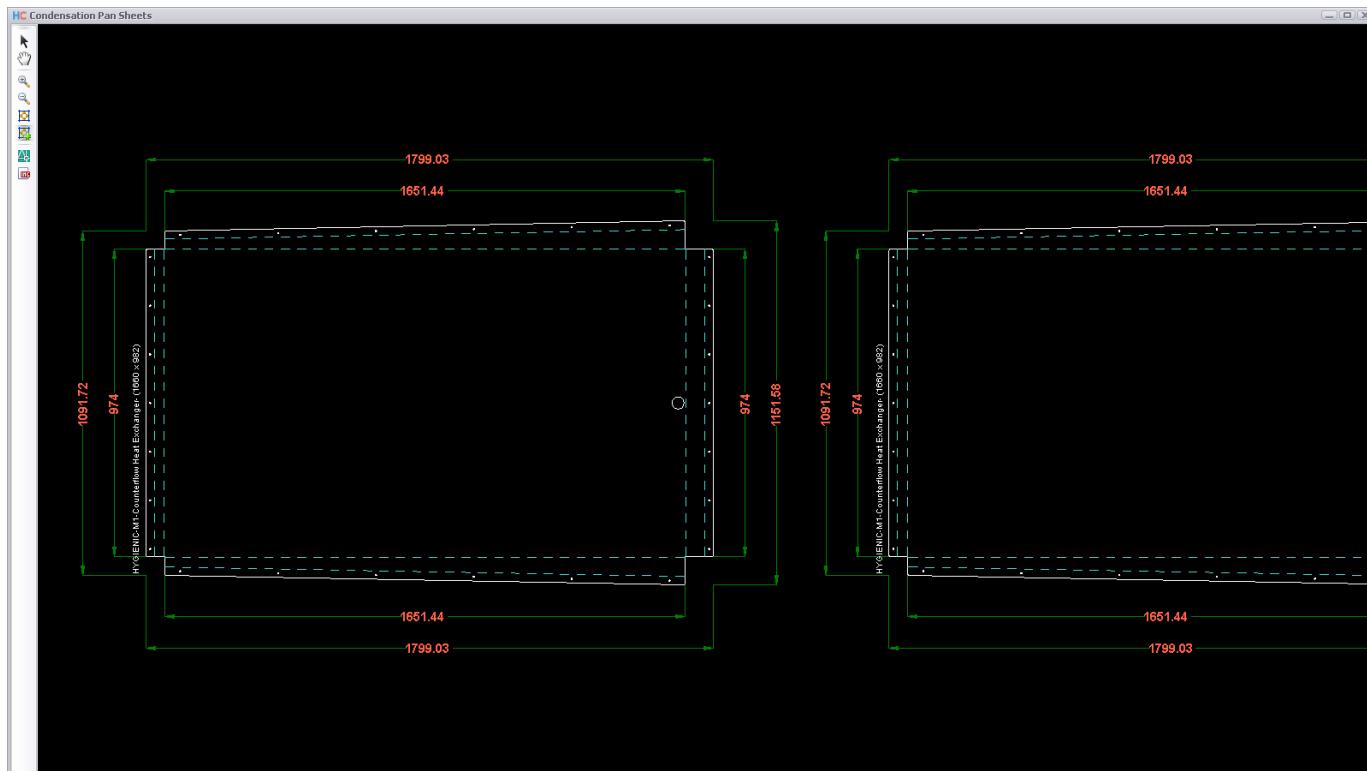
Proforma Invoice Panel Sheets Pedestal Sheets Condensation Pan Sheets Connections Export

Ok Cancel

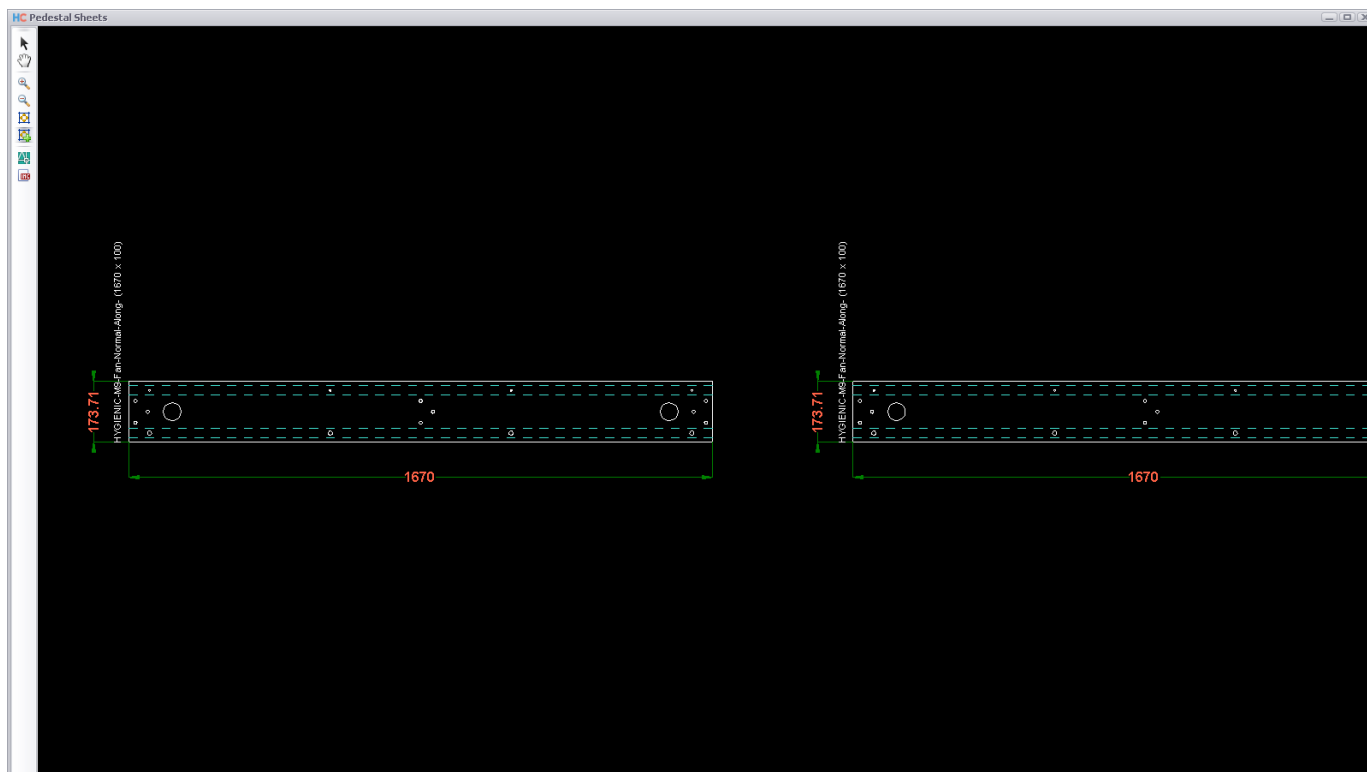
### PANEL SHEET DRAWINGS



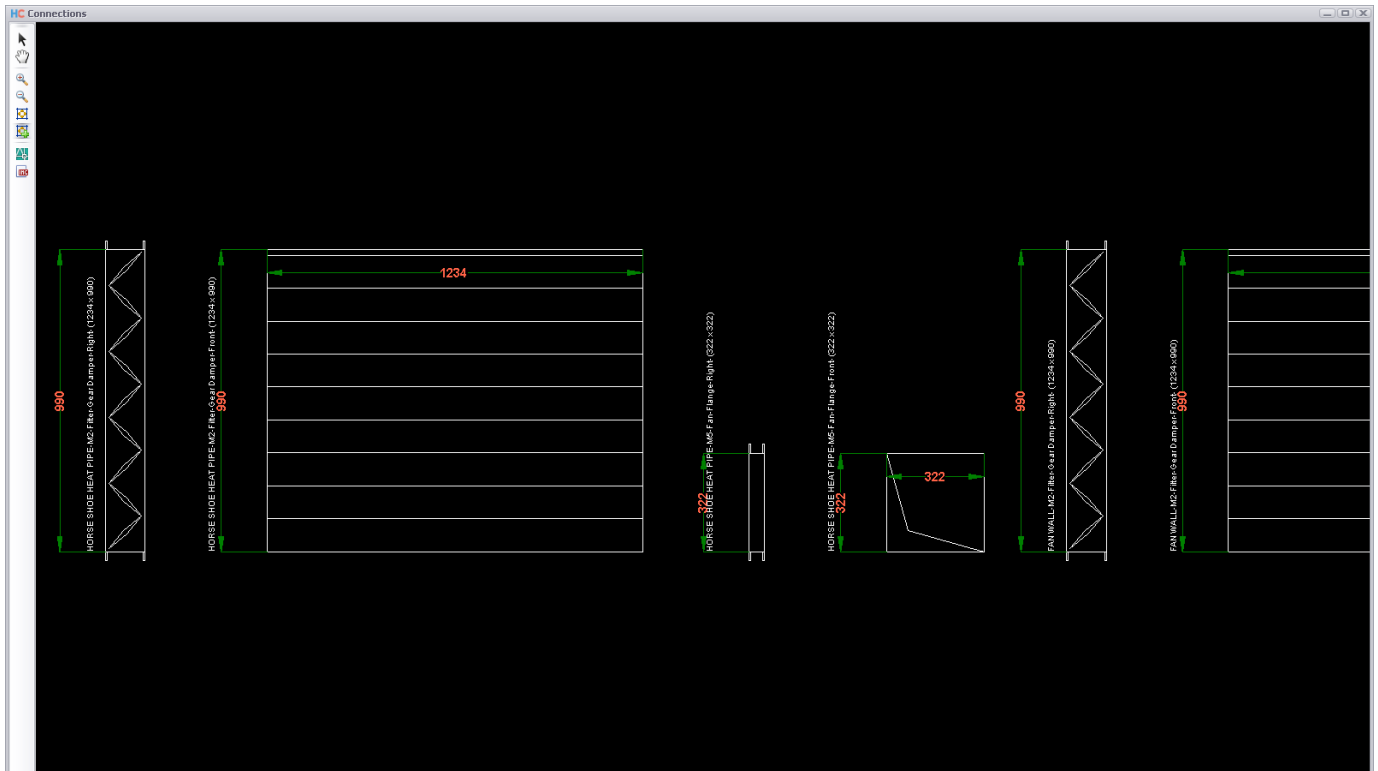
## CONDENSATION PAN SHEET DRAWINGS



## PEDESTAL SHEET DRAWINGS



### CONNECTION DRAWINGS

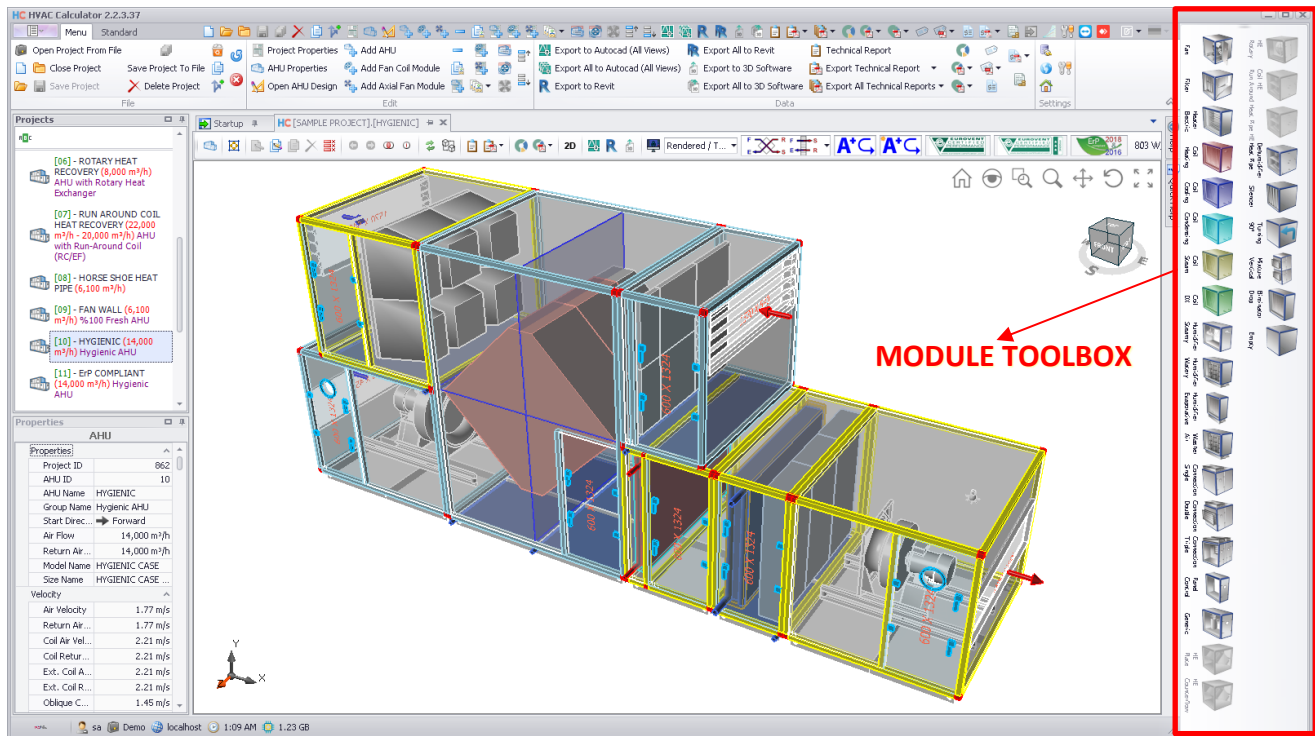


### EXPORTED PRODUCTION DATA

SAMPLE PROJECT.xlsx - Excel														
Deniz TAHTALI DT														
Tell me what you want to do														
A1	AHU Name													
1	A	B	C	D	E	F	G	H	I	J	K	L	M	N
2	AHU Name	Model Name	Air Flow	Return Air	Air Veloc	Return Air Ve	Coil Air Ve	Coil Return Air V	Width	Height	Top Layer H	Specific Fan F	Specific Fan Powe	Energy Cla
3	<b>Group Name:</b>													
4	HORSE SHOE HEAT PIPE	CASE 140 X 110	6,100	6,100	1.29	1.29	1.67	1.67	1,414.00	1,080.00	1,080.00	104 SFP 1		E
5	<b>Group Name: %100 Fresh AHU</b>													
6	%100 FRESH	CASE 080 X 080	6,100	6,100	3.36	3.36	5.03	5.03	800.00	800.00	800.00	259 SFP 1		E
7	FAN WALL	CASE 140 X 110	6,100	6,100	1.29	1.29	1.67	1.67	1,414.00	1,080.00	1,080.00	76 SFP 1		E
8														
9	<b>Group Name: AHU with Counterflow Heat Exchanger</b>													
10	COUNTERFLOW HEAT RECOVERY	CASE 230 X 200	14,000	14,000	1.94	1.94	2.38	2.38	1,900.00	1,200.00	1,200.00	1053 SFP 3		APN
11														
12	<b>Group Name: AHU with Plate Heat Exchanger</b>													
13	PLATE HEAT RECOVERY	CASE 230 X 200	14,000	14,000	1.94	1.94	2.38	2.38	1,900.00	1,200.00	1,200.00	1209 SFP 3		APN
14														
15	<b>Group Name: AHU with Rotary Heat Exchanger</b>													
16	ROTARY HEAT RECOVERY	CASE 170 X 140	8,000	8,000	1.34	1.34	1.69	1.69	1,760.00	1,080.00	1,080.00	1378 SFP 4		D
17														
18	<b>Group Name: AHU with Run-Around Coil (RC/EF)</b>													
19	RUN AROUND COIL HEAT RECOV	CASE 200 X 170	22,000	20,000	1.94	1.77	2.38	2.15	1,986.00	1,750.00	1,750.00	1067 SFP 3		E
20														
21	<b>Group Name: Hygienic AHU</b>													
22	HYGIENIC	HYGIENIC CASE 170 X 140	14,000	14,000	1.77	1.77	2.21	2.21	1,750.00	1,414.00	1,414.00	802 SFP 3		APN
23	ERP COMPLIANT	CASE 170 X 140	14,000	14,000	1.77	1.77	2.21	2.21	1,750.00	1,414.00	1,414.00	795 SFP 3		APN
24														
25	<b>Group Name: Mixture AHU</b>													
26	MIXTURE	CASE 200 X 200	29,000	29,000	2.29	2.29	2.74	2.74	1,986.00	1,986.00	1,986.00	372 SFP 1		DN
27	VERTICAL MIXTURE	CASE 140 X 110	10,000	10,000	1.80	1.80	2.23	2.23	1,700.00	1,080.00	1,080.00	633 SFP 2		EN
28														
29														
30														
31														
32														
33														
34														
35														
36														
AHU Grand Totals														
Fan Coil Grand Totals														
AHU Materials - Project														
AHU Materials - Central														
AHU Materials - Module ...														
Ready Accessibility: Investigate														

## AHU DESIGN / SELECTION WINDOWS

### MODULE TOOLBOX



## PROJECT - CUSTOMER

Project - [862, SAMPLE PROJECT]

Project Name *	SAMPLE PROJECT			862
Tracking Number		Version	2.2.3.37	8/21/2022
City Name	ANKARA	Project Date	25/04/2008	
Start Date	25/04/2008	Shipping Cost	0 EUR	
Status	Offer	Choose Customer	Update Special Values	

Customer
Design Conditions
Special Values
Properties
Notes

Customer Name

Related Person

Phone

e-Mail

Fax

Web Address

Address

Set Accessories
Ok
Cancel



## PROJECT - DESIGN CONDITIONS

Project - [862, SAMPLE PROJECT]

Project Name \*

SAMPLE PROJECT

862

Tracking Number

Version

2.2.3.37

8/21/2022

City Name

ANKARA

Project Date

25/04/2008

Start Date

25/04/2008

25/04/2008

Shipping Cost

0

EUR

Status

Offer

Choose Customer

Update Special Values

Customer

Design Conditions

Special Values

Properties

Notes

☐ Enable Design Conditions

City Name

ANKARA

Altitude

895 m

Atmosphere Pressure \*

91025 Pa

Winter

Fresh Air

Dry Thermometer

-12.00 °C

Wet Thermometer

-12.32 °C

Relative Humidity (%)

90.00

Dew Point

-13.31 °C

Return Air

Dry Thermometer

22.00 °C

Wet Thermometer

15.16 °C

Relative Humidity (%)

50.00

Summer

Fresh Air

Dry Thermometer

35.00 °C

Wet Thermometer

21.00 °C

Relative Humidity (%)

29.64

Dew Point

14.66 °C

Return Air

Dry Thermometer

24.00 °C

Wet Thermometer

16.81 °C

Relative Humidity (%)

50.00

Set Accessories

Ok

Cancel

SPD SMART  
PROJECT  
designer

Smart Project Designer OÜ  
Sepapaja 6, Tallinn 15551, Estonia

Phone : +90 850 532 26 31  
e-Mail : info@hvaccalculator.net  
Web : hvaccalculator.net

[66]

## PROJECT – SPECIAL VALUES

Project - [862, SAMPLE PROJECT]

Project Name \* SAMPLE PROJECT 862

Tracking Number Version 2.2.3.37 8/21/2022

City Name ANKARA Project Date 25/04/2008

Start Date 25/04/2008 25/04/2008 Shipping Cost 0 EUR

Status Offer Choose Customer Update Special Values

Customer Design Conditions Special Values Properties Notes

General Technical Report Limitations Price Profit Ratios Discount Ratios Production Defaults Power Life Cycle Cost Device Spac

Fan Sort Type Fan + Motor Price (Ascend... Fan - Motor Distance 30 mm

Max. Pulley Rpm Difference (%) 10 Not Suitable Pulley Rpm Diff. Action Warn And Continue

Condensation Pan Height \* 20 mm Filter Air Flow Tolerance (%) 10

Carbon Cartridge Filter Surface Interior Silencer Height Coefficient \* 25 mm

Run Around Coil H.E. Selection Method Parallel View ☒ Select Fan Automatically After AHU Size Change

☒ Not Suitable Motor Warning ☒ Condensation Pan Warning

Device Price Show Type Ratio AHU Size Type Size+Pedestal+Dampers+...

Designer User Type Adding Observation Glass Type Circle

Observation Glass Position Top

Set Accessories Ok Cancel

## PROJECT – NOTES

\* Project - [862, SAMPLE PROJECT]

Project Name \*

SAMPLE PROJECT

862

Tracking Number

Version

2.2.3.37

8/21/2022

City Name

ANKARA

Project Date

25/04/2008

Start Date

25/04/2008

25/04/2008

Shipping Cost

0

EUR

Status

Offer

Choose Customer

Update Special Values

Customer

Design Conditions

Special Values

Properties

Notes

Notes

Technical Report Notes

Set Accessories

Ok

Cancel

## AHU – CONNECTION POINTS

AHU Name \*

COUNTERFLOW HEAT RECOVERY

5

Group Name

AHU with Counterflow Heat Exchanger

Start Direction

→ Forward

Air Flow \*

14,000 m³/h

Return Air Flow \*

14,000 m³/h

Model Name \*

CASE

Size Name \*

CASE 230 X 200

Velocity

Air Velocity

1.94 m/s

1.94 m/s

Coil Air Velocity

2.38 m/s

2.38 m/s

Ext. Coil Air Vel.

2.38 m/s

2.38 m/s

Oblique Coil Air Vel.

1.58 m/s

1.58 m/s

Size

☒ Special Size

Width \*

1900 mm

Height \*

1200 mm

Top Layer Height

0 mm

Inside Sheet Name \*

Galvanize

Inside Sheet Thickness (mm) \*

0.6

Outside Sheet Name \*

Painted Galvanize

Outside Sheet Thickness (mm) \*

0.6

Insulation Name \*

Polyurethane

Insulation Thickness (mm) \*

40

☒ Pedestal

3 mm Pedestal

Pedestal Height (mm) \*

100

☐ Roof

Canvas

Profile Name

Oval Profile 24

Connection Points

Additional Materials

Design Conditions

Energy Class

SFP

ErP

Eurovent

Panel

Service Door

Aco

Air Direction

Return - Opposite / Fresh - Straight

Connection Location

Default

Default Damper Control Type

Module

Fresh Air

Fresh Air

Return Air

Supply Air

Air Direction

→ Straight

Damper Control Type

Automatic

Connection Type

Gear Damper

None

Surface

Forehead

Automatic

Alignment

Top Center

Surface Alignment

Automatic

Air Flow \*

14,000 m³/h

Pressure Drop

10 Pa

Width

1720 mm

Height

432 mm

Air Velocity

5 m/s

Calculated Air Velocity

5.23 m/s

☐ Entire Surface
☐ Flexible Connector
☐ Edit Values
☐ Filter

Connection Function

Automatic

Copy To Other AHUs

Set Accessories

Ok

Cancel

SPD SMART  
PROJECT  
designer

Smart Project Designer OÜ  
Sepapaja 6, Tallinn 15551, Estonia

Phone : +90 850 532 26 31  
e-Mail : info@hvaccalculator.net  
Web : hvaccalculator.net

[69]

## AHU – DESIGN CONDITIONS

**AHU - [5, COUNTERFLOW HEAT RECOVERY, AHU with Counterflow Heat Exchanger, 30]**

**Properties**

AHU Name \* COUNTERFLOW HEAT RECOVERY 5

Group Name AHU with Counterflow Heat Exchanger Start Direction ➔ Forward

Air Flow \* 14,000 m³/h Return Air Flow \* 14,000 m³/h

Model Name \* CASE Size Name \* CASE 230 X 200

**Velocity**

Air Velocity	1.94 m/s	1.94 m/s	Coil Air Velocity	2.38 m/s	2.38 m/s
Ext. Coil Air Vel.	2.38 m/s	2.38 m/s	Oblique Coil Air Vel.	1.58 m/s	1.58 m/s

**Size**

☒ Special Size Width \* 1900 mm Height \* 1200 mm Top Layer Height 0 mm

**Materials**

Inside Sheet Name \* Galvanize Inside Sheet Thickness (mm) \* 0.6

Outside Sheet Name \* Painted Galvanize Outside Sheet Thickness (mm) \* 0.6

Insulation Name \* Polyurethane Insulation Thickness (mm) \* 40

☒ Pedestal 3 mm Pedestal Pedestal Height (mm) \* 100

☐ Roof Canvas Profile Name Oval Profile 24

Connection Points Additional Materials **Design Conditions** Energy Class SFP ErP Eurovent Panel Service Door Aco

City Name ANKARA CENTRAL Altitude 895 m

Atmosphere Pressure \* 91025 Pa Air Density \* 1.2131 kg/m³

**Winter**

Fresh Air	Dry Thermometer	-12.00 °C	Return Air	Dry Thermometer	22.00 °C
	Wet Thermometer	-12.32 °C		Wet Thermometer	15.34 °C
	Relative Humidity (%)	90.00		Relative Humidity (%)	51.78
	Dew Point	-13.31 °C			

**Summer**

Fresh Air	Dry Thermometer	34.00 °C	Return Air	Dry Thermometer	25.00 °C
	Wet Thermometer	19.86 °C		Wet Thermometer	17.76 °C
	Relative Humidity (%)	28.00		Relative Humidity (%)	51.59
	Dew Point	12.93 °C			

Copy To Other AHUs Set Accessories Ok Cancel



## AHU – ENERGY CLASS

AHU - [11, ErP COMPLIANT, Hygienic AHU, 30]

AHU Name \*

ErP COMPLIANT

11

Group Name

Hygienic AHU

Start Direction

→ Forward

Air Flow \*

14,000 m³/h

Return Air Flow \*

14,000 m³/h

Model Name \*

CASE

Size Name \*

CASE 170 X 140

Velocity

Air Velocity

1.77 m/s

1.77 m/s

Coil Air Velocity

2.21 m/s

2.21 m/s

Ext. Coil Air Vel.

2.21 m/s

2.21 m/s

Oblique Coil Air Vel.

1.45 m/s

1.45 m/s

Size

☐ Special Size

Width \*

1750 mm

Height \*

1414 mm

Top Layer Height

0 mm

Inside Sheet Name \*

Galvanize

Inside Sheet Thickness (mm) \*

0.6

Outside Sheet Name \*

Painted Galvanize

Outside Sheet Thickness (mm) \*

0.6

Insulation Name \*

Polyurethane

Insulation Thickness (mm) \*

40

☒ Pedestal

3 mm Pedestal

Pedestal Height (mm) \*

100

☐ Roof

Canvas

Profile Name

Oval Profile 24

Connection Points

Additional Materials

Design Conditions

Energy Class

SFP

ErP

Eurovent

Panel

Service Door

Aco

☐ Determine Unit Type

Unit Type

With 100% recirculation or ODA > 9°C

☒ Calculate Supply Mixing Ratio

Supply Mixing Ratio

0.00

Energy Class

A+G APN

Show Eurovent Energy Class Formula

Summer Energy Class

A+G APN

Show Eurovent Summer Energy Class Formula

Energy Class Calculation Method

Latest

Calculate Energy Class

Show Energy Class Calculation Parameters

Copy To Other AHUs

Set Accessories

Ok

Cancel

## AHU – SFP (SPECIFIC FAN POWER)

AHU - [11, ErP COMPLIANT, Hygienic AHU, 30]

AHU Name \*

ErP COMPLIANT

11

Group Name

Hygienic AHU

Start Direction

→ Forward

Air Flow \*

14,000 m³/h

Return Air Flow \*

14,000 m³/h

Model Name \*

CASE

Size Name \*

CASE 170 X 140

Velocity

Air Velocity

1.77 m/s

1.77 m/s

Coil Air Velocity

2.21 m/s

2.21 m/s

Ext. Coil Air Vel.

2.21 m/s

2.21 m/s

Oblique Coil Air Vel.

1.45 m/s

1.45 m/s

Size

☐ Special Size

Width \*

1750 mm

Height \*

1414 mm

Top Layer Height

0 mm

Inside Sheet Name \*

Galvanize

Inside Sheet Thickness (mm) \*

0.6

Outside Sheet Name \*

Painted Galvanize

Outside Sheet Thickness (mm) \*

0.6

Insulation Name \*

Polyurethane

Insulation Thickness (mm) \*

40

☒ Pedestal

3 mm Pedestal

Pedestal Height (mm) \*

100

☐ Roof

Canvas

Profile Name

Oval Profile 24

Connection Points

Additional Materials

Design Conditions

Energy Class

SFP

ErP

Eurovent

Panel

Service Door

Aco

Specific Fan Power

795 W/(m³/s)

Specific Fan Power Class

SFP 3

Calculate SFP

Show SFP Calculation Parameters

Copy To Other AHUs

Set Accessories

Ok

Cancel

## AHU – ERP (ECODESIGN REQUIREMENTS)

AHU - [11, ErP COMPLIANT, Hygienic AHU, 30]

AHU Name \*

ErP COMPLIANT

11

Group Name

Hygienic AHU

Start Direction

→ Forward

Air Flow \*

14,000 m³/h

Return Air Flow \*

14,000 m³/h

Model Name \*

CASE

Size Name \*

CASE 170 X 140

Velocity

Air Velocity

1.77 m/s

1.77 m/s

Coil Air Velocity

2.21 m/s

2.21 m/s

Ext. Coil Air Vel.

2.21 m/s

2.21 m/s

Oblique Coil Air Vel.

1.45 m/s

1.45 m/s

Size

☐ Special Size

Width \*

1750 mm

Height \*

1414 mm

Top Layer Height

0 mm

Inside Sheet Name \*

Galvanize

Inside Sheet Thickness (mm) \*

0.6

Outside Sheet Name \*

Painted Galvanize

Outside Sheet Thickness (mm) \*

0.6

Insulation Name \*

Polyurethane

Insulation Thickness (mm) \*

40

☒ Pedestal

3 mm Pedestal

Pedestal Height (mm) \*

100

☐ Roof

Canvas

Profile Name

Oval Profile 24

Connection Points

Additional Materials

Design Conditions

Energy Class

SFP

ErP

Eurovent

Panel

Service Door

Aco

ErP Compliance

ErP 2018 & 2016

2016 & 2018

ErP Non Compliance Reason

None

Calculate ErP Compliance

Show ErP Compliance Calculation Parameters

Copy To Other AHUs

Set Accessories

Ok

Cancel

## AHU – EUROVENT

AHU - [10, HYGIENIC, Hygienic AHU, 30]

AHU Name \*

HYGIENIC

10

Group Name

Hygienic AHU

Start Direction

→ Forward

Air Flow \*

14,000 m³/h

Return Air Flow \*

14,000 m³/h

Model Name \*

HYGIENIC CASE

Size Name \*

HYGIENIC CASE 170 X 140

Velocity

Air Velocity

1.77 m/s

1.77 m/s

Coil Air Velocity

2.21 m/s

2.21 m/s

Ext. Coil Air Vel.

2.21 m/s

2.21 m/s

Oblique Coil Air Vel.

1.45 m/s

1.45 m/s

Size

☐ Special Size

Width \*

1750 mm

Height \*

1414 mm

Top Layer Height

0 mm

Inside Sheet Name \*

Stainless 304

Inside Sheet Thickness (mm) \*

0.5

Outside Sheet Name \*

Painted Galvanize

Outside Sheet Thickness (mm) \*

0.6

Insulation Name \*

Polyurethane

Insulation Thickness (mm) \*

40

☒ Pedestal

3 mm Pedestal

Pedestal Height (mm) \*

100

☐ Roof

Canvas

Profile Name

Oval Profile 24

Connection Points

Additional Materials

Design Conditions

Energy Class

SFP

ErP


Eurovent

Panel

Service Door

Aco

Eurovent Compliance




Compliant

Eurovent Non Compliance Reason

None

Eurovent Hygiene Compliance



Level 3

Eurovent Hygiene Non Compliance Reason

None

Eurovent Hygiene Non Compliance Module ID

Copy To Other AHUs

Set Accessories

Ok

Cancel

## AHU – PANEL

AHU - [10, HYGIENIC, Hygienic AHU, 30]

AHU Name \*

HYGIENIC

10

Group Name

Hygienic AHU

Start Direction

→ Forward

Air Flow \*

14,000 m³/h

Return Air Flow \*

14,000 m³/h

Model Name \*

HYGIENIC CASE

Size Name \*

HYGIENIC CASE 170 X 140

Velocity

Air Velocity

1.77 m/s

1.77 m/s

Coil Air Velocity

2.21 m/s

2.21 m/s

Ext. Coil Air Vel.

2.21 m/s

2.21 m/s

Oblique Coil Air Vel.

1.45 m/s

1.45 m/s

Size

☐ Special Size

Width \*

1750 mm

Height \*

1414 mm

Top Layer Height

0 mm

Inside Sheet Name \*

Stainless 304

Inside Sheet Thickness (mm) \*

0.5

Outside Sheet Name \*

Painted Galvanize

Outside Sheet Thickness (mm) \*

0.6

Insulation Name \*

Polyurethane

Insulation Thickness (mm) \*

40

☒ Pedestal

3 mm Pedestal

Pedestal Height (mm) \*

100

☐ Roof

Canvas

Profile Name

Oval Profile 24

Connection Points

Additional Materials

Design Conditions

Energy Class

SFP

ErP

Eurovent

Panel

Service Door

Aco

☐ Custom Panel

Minimum Panel Size

0 mm

Maximum Panel Width

0 mm

Maximum Panel Height

0 mm

Panel Size Step

0 mm

Panel Sizing Type

Inside

Panel Splitting Orientation

Automatic

Additional Module Length

0 mm

Copy To Other AHUs

Set Accessories

Ok

Cancel



## AHU – SERVICE DOOR

AHU - [10, HYGIENIC, Hygienic AHU, 30]

AHU Name \*

HYGIENIC

10

Group Name

Hygienic AHU

Start Direction

→ Forward

Air Flow \*

14,000 m³/h

Return Air Flow \*

14,000 m³/h

Model Name \*

HYGIENIC CASE

Size Name \*

HYGIENIC CASE 170 X 140

Velocity

Air Velocity

1.77 m/s

1.77 m/s

Coil Air Velocity

2.21 m/s

2.21 m/s

Ext. Coil Air Vel.

2.21 m/s

2.21 m/s

Oblique Coil Air Vel.

1.45 m/s

1.45 m/s

Size

☐ Special Size

Width \*

1750 mm

Height \*

1414 mm

Top Layer Height

0 mm

Inside Sheet Name \*

Stainless 304

Inside Sheet Thickness (mm) \*

0.5

Outside Sheet Name \*

Painted Galvanize

Outside Sheet Thickness (mm) \*

0.6

Insulation Name \*

Polyurethane

Insulation Thickness (mm) \*

40

☒ Pedestal

3 mm Pedestal

Pedestal Height (mm) \*

100

☐ Roof

Canvas

Profile Name

Oval Profile 24

Connection Points

Additional Materials

Design Conditions

Energy Class

SFP

ErP

Eurovent

Panel

Service Door

Aco

Door Width (mm)

0

Maximum Door Height

0 mm

Type

Module

Handle Type

Module

Position

Module

Hinge Position

Module

Service Door Position According To Air Direction

Yes

Copy To Other AHUs

Set Accessories

Ok

Cancel

## AHU – ACOUSTICAL

AHU - [10, HYGIENIC, Hygienic AHU, 30]

AHU Name \*

HYGIENIC

10

Group Name

Hygienic AHU

Start Direction

→ Forward

Air Flow \*

14,000 m³/h

Return Air Flow \*

14,000 m³/h

Model Name \*

HYGIENIC CASE

Size Name \*

HYGIENIC CASE 170 X 140

Velocity

Air Velocity

1.77 m/s

1.77 m/s

Coil Air Velocity

2.21 m/s

2.21 m/s

Ext. Coil Air Vel.

2.21 m/s

2.21 m/s

Oblique Coil Air Vel.

1.45 m/s

1.45 m/s

Size

☐ Special Size

Width \*

1750 mm

Height \*

1414 mm

Top Layer Height

0 mm

Inside Sheet Name \*

Stainless 304

Inside Sheet Thickness (mm) \*

0.5

Outside Sheet Name \*

Painted Galvanize

Outside Sheet Thickness (mm) \*

0.6

Insulation Name \*

Polyurethane

Insulation Thickness (mm) \*

40

☒ Pedestal

3 mm Pedestal

Pedestal Height (mm) \*

100

☐ Roof

Canvas

Profile Name

Oval Profile 24

Additional Materials

Design Conditions

Energy Class

SFP

ErP

Eurovent

Panel

Service Door

Acoustical

Casing Acou

Show Acoustical Phases

Show Noise Criteria Chart

Copy To Other AHUs

Set Accessories

Ok

Cancel

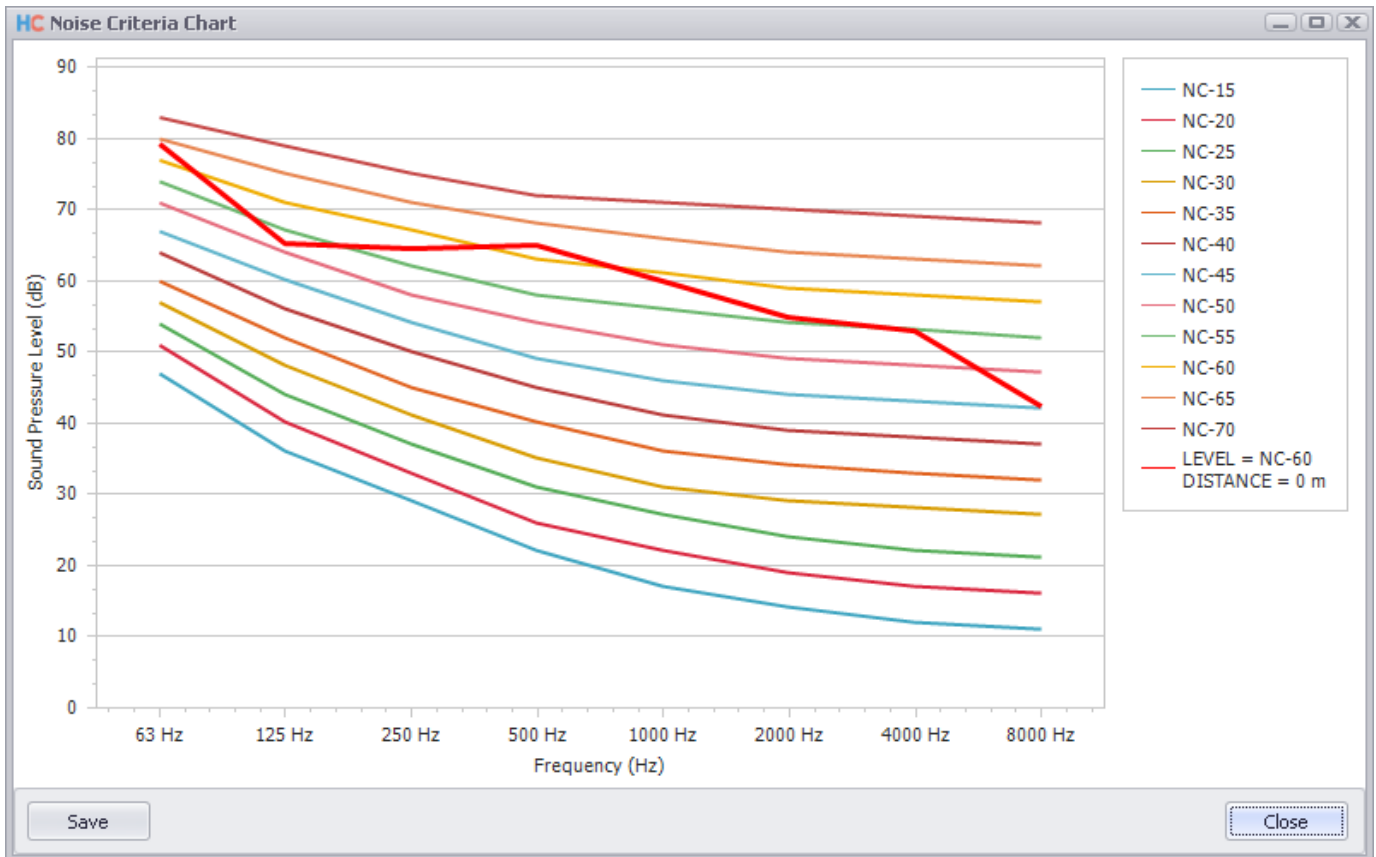
## AHU – ACOUSTICAL PHASES

Acoustical Phases

File Edit Appearance Help

<

## AHU – NOISE CRITERIA CHART



## AHU – CASING ACOUSTICAL INSULATION

AHU - [10, HYGIENIC, Hygienic AHU, 30]

AHU Name \*

HYGIENIC

10

Group Name

Hygienic AHU

Start Direction

→ Forward

Air Flow \*

14,000 m³/h

Return Air Flow \*

14,000 m³/h

Model Name \*

HYGIENIC CASE

Size Name \*

HYGIENIC CASE 170 X 140

Velocity

Air Velocity

1.77 m/s

1.77 m/s

Coil Air Velocity

2.21 m/s

2.21 m/s

Ext. Coil Air Vel.

2.21 m/s

2.21 m/s

Oblique Coil Air Vel.

1.45 m/s

1.45 m/s

Size

☐ Special Size

Width \*

1750 mm

Height \*

1414 mm

Top Layer Height

0 mm

Inside Sheet Name \*

Stainless 304

Inside Sheet Thickness (mm) \*

0.5

Outside Sheet Name \*

Painted Galvanize

Outside Sheet Thickness (mm) \*

0.6

Insulation Name \*

Polyurethane

Insulation Thickness (mm) \*

40

☒ Pedestal

3 mm Pedestal

Pedestal Height (mm) \*

100

☐ Roof

Canvas

Profile Name

Oval Profile 24

Design Conditions

Energy Class

SFP

ErP

Eurovent

Panel

Service Door

Acoustical

Casing Acoustical Insulation

Acc

☐ Custom Casing Acoustical Insulation

Sound Power Measure Distance

0 m

Airborne Sound Power Calculation Position

Default

Casing Acoustical Insulation At 63 Hz dB

0

Casing Acoustical Insulation At 125 Hz dB

0

Casing Acoustical Insulation At 250 Hz dB

0

Casing Acoustical Insulation At 500 Hz dB

0

Casing Acoustical Insulation At 1000 Hz dB

0

Casing Acoustical Insulation At 2000 Hz dB

0

Casing Acoustical Insulation At 4000 Hz dB

0

Casing Acoustical Insulation At 8000 Hz dB

0

Copy To Other AHUs

Set Accessories

Ok

Cancel

## AHU – ACOUSTICAL INSULATION CORRECTION

AHU - [10, HYGIENIC, Hygienic AHU, 30]

AHU Name \*

HYGIENIC

10

Group Name

Hygienic AHU

Start Direction

→ Forward

Air Flow \*

14,000 m³/h

Return Air Flow \*

14,000 m³/h

Model Name \*

HYGIENIC CASE

Size Name \*

HYGIENIC CASE 170 X 140

Velocity

Air Velocity

1.77 m/s

1.77 m/s

Coil Air Velocity

2.21 m/s

2.21 m/s

Ext. Coil Air Vel.

2.21 m/s

2.21 m/s

Oblique Coil Air Vel.

1.45 m/s

1.45 m/s

Size

☐ Special Size

Width \*

1750 mm

Height \*

1414 mm

Top Layer Height

0 mm

Inside Sheet Name \*

Stainless 304

Inside Sheet Thickness (mm) \*

0.5

Outside Sheet Name \*

Painted Galvanize

Outside Sheet Thickness (mm) \*

0.6

Insulation Name \*

Polyurethane

Insulation Thickness (mm) \*

40

☒ Pedestal

3 mm Pedestal

Pedestal Height (mm) \*

100

☐ Roof

Canvas

Profile Name

Oval Profile 24

SFP

ErP

Eurovent

Panel

Service Door

Acoustical

Casing Acoustical Insulation

Acoustical Insulation Correction

Coil

☐ Custom Acoustical Insulation Correction

Acoustical Insulation Correction Method

Add

Outlet

Inlet

Airborne

Acoustical Insulation Outlet Correction At 63 Hz dB

0

Acoustical Insulation Outlet Correction At 125 Hz dB

0

Acoustical Insulation Outlet Correction At 250 Hz dB

0

Acoustical Insulation Outlet Correction At 500 Hz dB

0

Acoustical Insulation Outlet Correction At 1000 Hz dB

0

Acoustical Insulation Outlet Correction At 2000 Hz dB

0

Acoustical Insulation Outlet Correction At 4000 Hz dB

0

Acoustical Insulation Outlet Correction At 8000 Hz dB

0

Copy To Other AHUs

Set Accessories

Ok

Cancel



## AHU - COIL

AHU - [10, HYGIENIC, Hygienic AHU, 30]

AHU Name \*

HYGIENIC

10

Group Name

Hygienic AHU

Start Direction

→ Forward

Air Flow \*

14,000 m³/h

Return Air Flow \*

14,000 m³/h

Model Name \*

HYGIENIC CASE

Size Name \*

HYGIENIC CASE 170 X 140

Velocity

Air Velocity

1.77 m/s

1.77 m/s

Coil Air Velocity

2.21 m/s

2.21 m/s

Ext. Coil Air Vel.

2.21 m/s

2.21 m/s

Oblique Coil Air Vel.

1.45 m/s

1.45 m/s

Size

☐ Special Size

Width \*

1750 mm

Height \*

1414 mm

Top Layer Height

0 mm

Inside Sheet Name \*

Stainless 304

Inside Sheet Thickness (mm) \*

0.5

Outside Sheet Name \*

Painted Galvanize

Outside Sheet Thickness (mm) \*

0.6

Insulation Name \*

Polyurethane

Insulation Thickness (mm) \*

40

☒ Pedestal

3 mm Pedestal

Pedestal Height (mm) \*

100

☐ Roof

Canvas

Profile Name

Oval Profile 24

ErP

Eurovent

Panel

Service Door

Acoustical

Casing Acoustical Insulation

Acoustical Insulation Correction

Coil

Conc

Coil Trademark

Friterm 4.0

Coil Name \*

32 x 28 1/2

☐ Oblique Coil

Coil Connection Direction

Module

Coil Connection Direction Type

Module

Coil Safety Margin (%)

0

Copy To Other AHUs

Set Accessories

Ok

Cancel

## AHU – CONDENSATION PAN

AHU - [10, HYGIENIC, Hygienic AHU, 30]

AHU Name \*

HYGIENIC

10

Group Name

Hygienic AHU

Start Direction

→ Forward

Air Flow \*

14,000 m³/h

Return Air Flow \*

14,000 m³/h

Model Name \*

HYGIENIC CASE

Size Name \*

HYGIENIC CASE 170 X 140

Velocity

Air Velocity

1.77 m/s

1.77 m/s

Coil Air Velocity

2.21 m/s

2.21 m/s

Ext. Coil Air Vel.

2.21 m/s

2.21 m/s

Oblique Coil Air Vel.

1.45 m/s

1.45 m/s

Size

☐ Special Size

Width \*

1750 mm

Height \*

1414 mm

Top Layer Height

0 mm

Inside Sheet Name \*

Stainless 304

Inside Sheet Thickness (mm) \*

0.5

Outside Sheet Name \*

Painted Galvanize

Outside Sheet Thickness (mm) \*

0.6

Insulation Name \*

Polyurethane

Insulation Thickness (mm) \*

40

☒ Pedestal

3 mm Pedestal

Pedestal Height (mm) \*

100

☐ Roof

Canvas

Profile Name

Oval Profile 24

Panel

Service Door

Acoustical

Casing Acoustical Insulation

Acoustical Insulation Correction

Coil

Condensation Pan

Condensation Pan Name \*

Stainless Steel

Condensation Pan Type

Side Inclined

Condensation Pan Location

Under Panel

Condensation Pan Height

0 mm

Condensation Pan Connection Direction

Right

Copy To Other AHUs

Set Accessories

Ok

Cancel

## AHU – LIFE CYCLE COST

AHU - [10, HYGIENIC, Hygienic AHU, 30]

AHU Name \*

HYGIENIC

10

Group Name

Hygienic AHU

Start Direction

→ Forward

Air Flow \*

14,000 m³/h

Return Air Flow \*

14,000 m³/h

Model Name \*

HYGIENIC CASE

Size Name \*

HYGIENIC CASE 170 X 140

Velocity

Air Velocity

1.77 m/s

1.77 m/s

Coil Air Velocity

2.21 m/s

2.21 m/s

Ext. Coil Air Vel.

2.21 m/s

2.21 m/s

Oblique Coil Air Vel.

1.45 m/s

1.45 m/s

Size

☐ Special Size

Width \*

1750 mm

Height \*

1414 mm

Top Layer Height

0 mm

Inside Sheet Name \*

Stainless 304

Inside Sheet Thickness (mm) \*

0.5

Outside Sheet Name \*

Painted Galvanize

Outside Sheet Thickness (mm) \*

0.6

Insulation Name \*

Polyurethane

Insulation Thickness (mm) \*

40

☒ Pedestal

3 mm Pedestal

Pedestal Height (mm) \*

100

☐ Roof

Canvas

Profile Name

Oval Profile 24

Casing Acoustical Insulation

Acoustical Insulation Correction

Coil

Condensation Pan

Life Cycle Cost

Other

Notes

Investment

0

Investment Currency Code

EUR

Life Expectancy \*

20 yr

Yearly Running Time \*

3000 h

Yearly Heating Coil Running Time \*

1000 h

Yearly Cooling Coil Running Time \*

1000 h

Yearly Electric Heater Running Time \*

1000 h

Yearly Humidifier Running Time \*

1000 h

Filter Life Time Factor \*

1

Copy To Other AHUs

Set Accessories

Ok

Cancel

## AHU - OTHER

AHU - [10, HYGIENIC, Hygienic AHU, 30]

AHU Name \*HYGIENIC10

Group NameHygienic AHUStart Direction→ Forward

Air Flow \*14,000 m³/hReturn Air Flow \*14,000 m³/h

Model Name \*HYGIENIC CASESize Name \*HYGIENIC CASE 170 X 140

Velocity

Air Velocity1.77 m/s1.77 m/s

Coil Air Velocity2.21 m/s2.21 m/s

Ext. Coil Air Vel.2.21 m/s2.21 m/s

Oblique Coil Air Vel.1.45 m/s1.45 m/s

Size

☐ Special Size

Width \*1750 mmHeight \*1414 mmTop Layer Height0 mm

Materials

Inside Sheet Name \*Stainless 304Inside Sheet Thickness (mm) \*0.5

Outside Sheet Name \*Painted GalvanizeOutside Sheet Thickness (mm) \*0.6

Insulation Name \*PolyurethaneInsulation Thickness (mm) \*40

☒ Pedestal3 mm PedestalPedestal Height (mm) \*100

☐ RoofCanvasProfile NameOval Profile 24

Casing Acoustical InsulationAcoustical Insulation CorrectionCoilCondensation PanLife Cycle CostOtherNotes

Damper Motor Trademark Name \*BelimoBypass Sheet Name \*Standard

Filter Sled Sheet Name \*StandardCoil Sled Sheet Name \*Standard

Drop Eliminator Sled Sheet Name \*StandardAHU Quantity \*1

Module Count10☒ Bottom Layer Return Air

☒ Bottom Panel☒ Free Top Layer Height

Double Air Flow Module Position1Join TypeNone

Copy To Other AHUsSet AccessoriesOkCancel

## AHU - NOTES

AHU - [10, HYGIENIC, Hygienic AHU, 30]

AHU Name \*

HYGIENIC

10

Group Name

Hygienic AHU

Start Direction

→ Forward

Air Flow \*

14,000 m³/h

Return Air Flow \*

14,000 m³/h

Model Name \*

HYGIENIC CASE

Size Name \*

HYGIENIC CASE 170 X 140

Velocity

Air Velocity

1.77 m/s

1.77 m/s

Coil Air Velocity

2.21 m/s

2.21 m/s

Ext. Coil Air Vel.

2.21 m/s

2.21 m/s

Oblique Coil Air Vel.

1.45 m/s

1.45 m/s

Size

☐ Special Size

Width \*

1750 mm

Height \*

1414 mm

Top Layer Height

0 mm

Inside Sheet Name \*

Stainless 304

Inside Sheet Thickness (mm) \*

0.5

Outside Sheet Name \*

Painted Galvanize

Outside Sheet Thickness (mm) \*

0.6

Insulation Name \*

Polyurethane

Insulation Thickness (mm) \*

40

☒ Pedestal

3 mm Pedestal

Pedestal Height (mm) \*

100

☐ Roof

Canvas

Profile Name

Oval Profile 24

Casing Acoustical Insulation

Acoustical Insulation Correction

Coil

Condensation Pan

Life Cycle Cost

Other

Notes

Notes

Technical Report Notes

Copy To Other AHUs

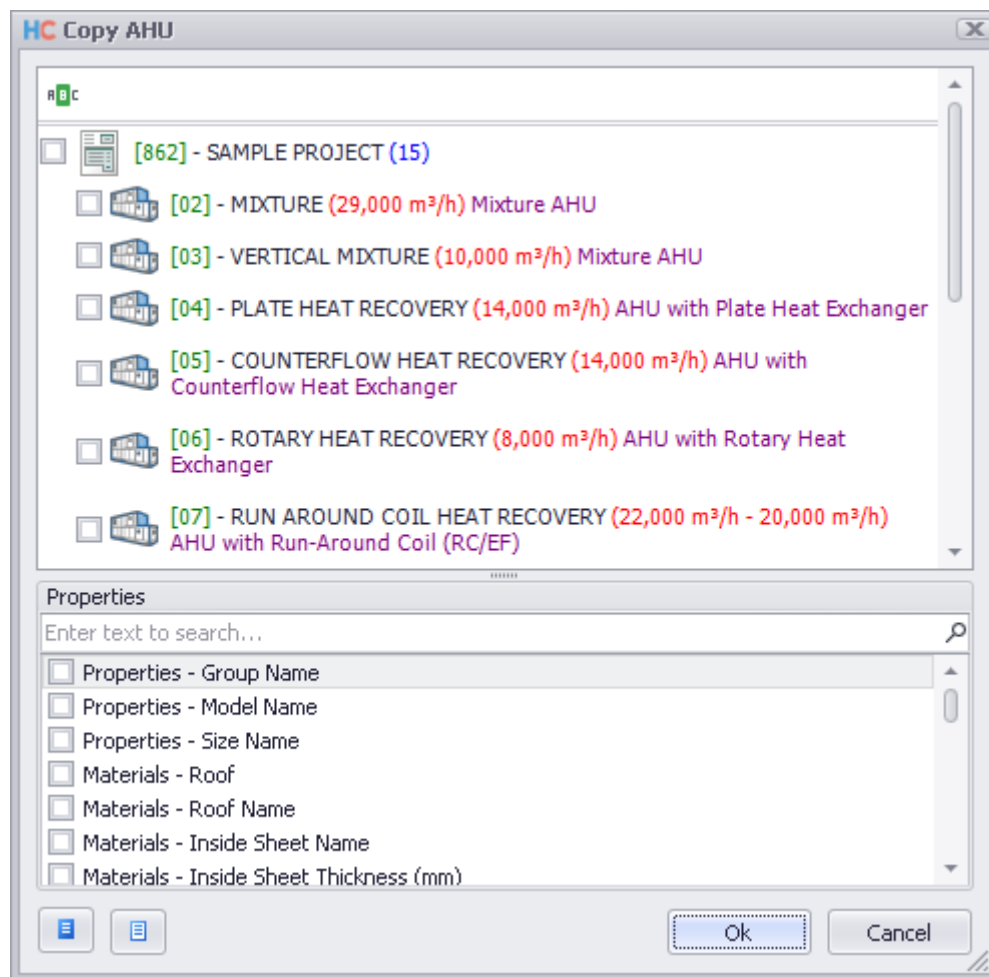
Set Accessories

Ok

Cancel



## AHU – COPY TO OTHER AHUS



## FAN MODULE

Supported fan types;

- Forward Curved (Inch)
- Forward Curved
- Backward Curved
- Centrifugal Airfoil
- Plenum
- EC
- Direct Drive

Fan and motor automatically selected according to needed airflow and pressure drop.

Pulleys and belts automatically calculated according to fan and motor for centrifugal fans.

\* Fan Module - [Nicotra-Gebhardt, Forward Curved (Inch), CW90, 6,100, AT SC-12/9, AGM 132 S-4] (M5)

External Pressure Drop *	300 Pa	1057 Pa	Air Density / Altitude	1.2131 kg/m³	895 m
Temperature *	20 °C		Max. Fan Rpm	0	0
Min./Max. Outlet Velocity	1 m/s	20 m/s	Min./Max. Mot. Freq. (Hz)	0.00	0.00
Air Flow	6,100 m³/h		Trademark	Nicotra-Gebhardt	
Fan Type	Forward Curved (Inch)	Separate	Fan Direction	CW90	Spaces
Fan Name *	AT SC-12/9		Isolator Name *	Rubber	<input checked="" type="checkbox"/> Isolator
Fan Count *	1	1	Backup Fan Count	0	<input checked="" type="checkbox"/> Pedestal
System Effect	0 Pa	Not Specified	Fan Function	Automatic	<input checked="" type="checkbox"/> Chart
Total Static Pressure	1357 Pa	5.5 kW	264 W/(m³/s)	<input type="checkbox"/> Flexible Connector	<input type="checkbox"/> Backup Fans Inside
Choose Method	Automatic	<input type="checkbox"/> Spark Proof	<input type="checkbox"/> Condensation Pan	0 mm	
Motor Trademark *	GAMAK		Motor Name *	AGM 132 S-4	50 V-Hz
Choose Method	Automatic		Power	5.5 kW	Rpm 1500
Motor Position	Back		<input type="checkbox"/> Double Speed	<input type="checkbox"/> Spark Proof	
Backup Motor Count	0				
<input type="checkbox"/> Frequency Converter	<input type="checkbox"/> Converter Required		Backup Converter Count	0	
Conv. Trademark Name *	Standard	Frequency Converter	Converter Name *	5,5 kW Frequency Converter	
Pulley Name *	SPA	Groove Count	2		
Fan Pulley Diameter	150 mm	Motor Pulley Diameter	200 mm		
Pulley Rpm Difference	31	Choose Method	Automatic		
Belt Length	1450 mm	<input type="checkbox"/> Spare Belt			
<input checked="" type="checkbox"/> Service Door	<input type="checkbox"/> Opposing Door		<input type="checkbox"/> Service Door	<input type="checkbox"/> Opposing Door	
Type	Standard		Type	Standard	
Position	Right		Position	Right	
Hinge Position	Right		Hinge Position	Left	
Alignment	Default		Alignment	Default	
Additional Panel	None		Additional Panel	None	

Copy To Other Modules    Special Properties    Ok    Cancel

## FAN MODULE - FAN TRADEMARK

**HC Fan Trademark**

- ☒ Nicotra
- ☐ Nicotra-Gebhardt
- ☐ Ziehl-Abegg
- ☐ Ziehl-Abegg Web
- ☐ Yilida
- ☐ Comefri
- ☐ Comefri USA
- ☐ Punker
- ☐ Soler & Palau
- ☐ Kruger
- ☐ EBM Papst
- ☐ Sanmu
- ☐ Custom

Ok Cancel

## FAN MODULE - FAN TYPE

**HC Fan Type**

- ☐ Forward Curved (Inch)
- ☐ Forward Curved
- ☒ Backward Curved
- ☐ Centrifugal Airfoil
- ☐ Plenum

Ok Cancel

## FAN MODULE – MOTOR STATUS

HC Motor Status

☒ Separate
 ☐ Combined

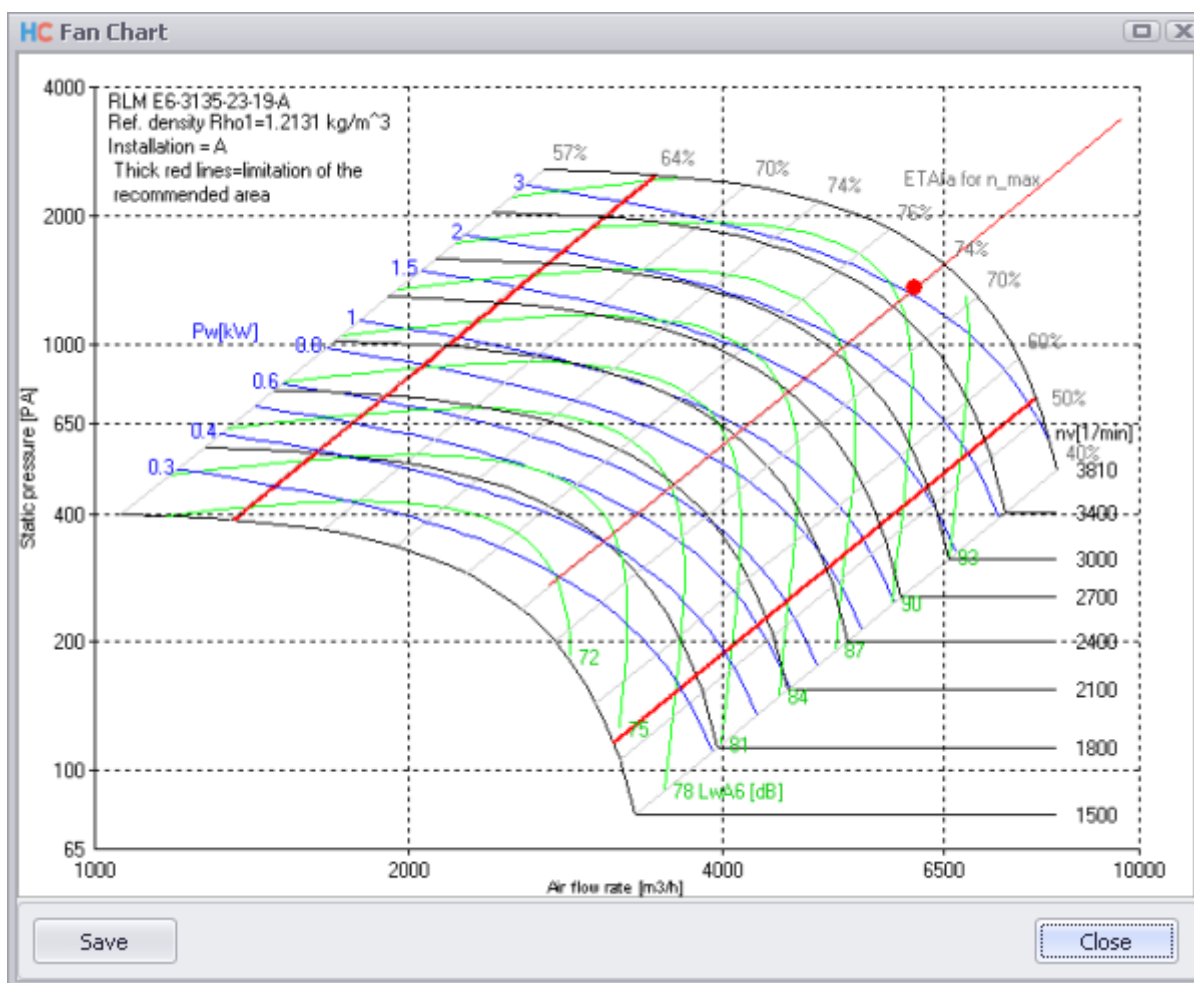
Ok

Cancel

## FAN MODULE - FANS

Fan Name	#	Efficiency % <sub>1</sub>	Static Efficiency % <sub>1</sub>	Air Velocity	Rpm	Maximum Rpm	Motor Rpm	Motor Real Rpm	Shaft Power	Specific Fan Power	Motor Power	Power Margin (%)	Motor Running Frequency (Hz)	Motor Maximum Frequency (Hz)
Trademark: Nicotra														
Fan Type: Forward Curved (Inch)														
Motor Status: Separate														
AT 10-10 SC		63.68	63.68	17.71 m/s	1483	2000	1500	1410	2.12 kW	1249 W/(m³/s)	3 kW	41.75	50.00	50.00
AT 10-10 S		63.68	63.68	17.71 m/s	1483	2000	1500	1410	2.12 kW	1249 W/(m³/s)	3 kW	41.75	50.00	50.00
AT 12-9 S		65.09	65.09	16.08 m/s	1244	2000	1500	1410	1.98 kW	1171 W/(m³/s)	3 kW	51.25	50.00	50.00
AT 12-9 SC		65.09	65.09	16.08 m/s	1244	2000	1500	1410	1.98 kW	1171 W/(m³/s)	3 kW	51.25	50.00	50.00
AT 12-12 SC		66.80	66.80	12.58 m/s	1243	1500	1500	1400	1.78 kW	1049 W/(m³/s)	2.2 kW	23.72	50.00	50.00
AT 12-12 S		66.80	66.80	12.58 m/s	1243	1500	1500	1400	1.78 kW	1049 W/(m³/s)	2.2 kW	23.72	50.00	50.00
AT 15-11 S		67.68	67.68	11.24 m/s	1001	2000	1000	940	1.71 kW	1007 W/(m³/s)	2.2 kW	28.90	50.00	50.00
AT 15-11 SC		67.68	67.68	11.24 m/s	1001	2000	1000	940	1.71 kW	1007 W/(m³/s)	2.2 kW	28.90	50.00	50.00
AT 15-15 S		64.59	64.59	8.90 m/s	1068	1200	1000	940	1.71 kW	1011 W/(m³/s)	2.2 kW	28.41	50.00	50.00
AT 15-15 SC		64.59	64.59	8.90 m/s	1068	1200	1000	940	1.71 kW	1011 W/(m³/s)	2.2 kW	28.41	50.00	50.00
AT 18-18 S		58.24	58.24	6.36 m/s	914	1100	1000	940	1.83 kW	1081 W/(m³/s)	2.2 kW	20.11	50.00	50.00
AT 18-18 SC		58.24	58.24	6.36 m/s	914	1100	1000	940	1.83 kW	1081 W/(m³/s)	2.2 kW	20.11	50.00	50.00
AT 18-13 S		68.22	68.22	8.24 m/s	875	1200	1000	940	1.61 kW	947 W/(m³/s)	2.2 kW	37.06	50.00	50.00
AT 18-13 SC		68.22	68.22	8.24 m/s	875	1200	1000	940	1.61 kW	947 W/(m³/s)	2.2 kW	37.06	50.00	50.00
AT 9-7 G2L		64.92	64.92	13.94 m/s	1645	2400	1500	1410	1.89 kW	1113 W/(m³/s)	3 kW	59.01	50.00	50.00
AT 9-9 G2L		65.89	65.89	10.85 m/s	1656	2000	1500	1400	1.74 kW	1027 W/(m³/s)	2.2 kW	26.46	50.00	50.00
AT 10-8 G2L		67.50	67.50	11.06 m/s	1447	2100	1500	1400	1.71 kW	1006 W/(m³/s)	2.2 kW	29.02	50.00	50.00
AT 10-10 G2L		64.27	64.27	8.86 m/s	1489	1800	1500	1400	1.72 kW	1015 W/(m³/s)	2.2 kW	27.86	50.00	50.00
AT 12-9 G2L		61.99	61.99	8.04 m/s	1265	1800	1500	1400	1.76 kW	1039 W/(m³/s)	2.2 kW	24.94	50.00	50.00
AT 15-11 G2L		58.76	58.76	5.62 m/s	1068	1400	1000	940	1.8 kW	1062 W/(m³/s)	2.2 kW	22.22	50.00	50.00
ATU 15-11 S		71.36	71.36	0.00 m/s	1024	2000	1000	940	1.62 kW	955 W/(m³/s)	2.2 kW	35.91	50.00	50.00
ATU 15-11 SC		71.36	71.36	0.00 m/s	1024	2000	1000	940	1.62 kW	955 W/(m³/s)	2.2 kW	35.91	50.00	50.00
ATU 15-11 AR		71.22	71.22	0.00 m/s	1024	2000	1000	940	1.62 kW	957 W/(m³/s)	2.2 kW	35.66	50.00	50.00
ATU 18-13 S		68.22	68.22	0.00 m/s	875	1200	1000	940	1.61 kW	947 W/(m³/s)	2.2 kW	37.06	50.00	50.00
ATU 18-13 SC		68.22	68.22	0.00 m/s	875	1200	1000	940	1.61 kW	947 W/(m³/s)	2.2 kW	37.06	50.00	50.00
AT 18-13 AR		68.03	68.03	0.00 m/s	875	1200	1000	940	1.61 kW	950 W/(m³/s)	2.2 kW	36.69	50.00	50.00
AT 18-13 AR		68.03	68.03	0.00 m/s	875	1200	1000	940	1.61 kW	950 W/(m³/s)	2.2 kW	36.69	50.00	50.00
AT 15-11 AR		67.56	67.56	0.00 m/s	1001	2000	1000	940	1.71 kW	1009 W/(m³/s)	2.2 kW	28.67	50.00	50.00
AT 10-8 G2T-LG		67.50	67.50	0.00 m/s	1447	2500	1500	1400	1.71 kW	1006 W/(m³/s)	2.2 kW	29.02	50.00	50.00
AT 10-8 G2T-RD		67.50	67.50	0.00 m/s	1447	2500	1500	1400	1.71 kW	1006 W/(m³/s)	2.2 kW	29.02	50.00	50.00
AT 10-8 G2Y-LG		67.50	67.50	0.00 m/s	1447	2500	1500	1400	1.71 kW	1006 W/(m³/s)	2.2 kW	29.02	50.00	50.00
AT 10-8 G2Y-RD		67.50	67.50	0.00 m/s	1447	2500	1500	1400	1.71 kW	1006 W/(m³/s)	2.2 kW	29.02	50.00	50.00
AT 10-8 SC2		67.50	67.50	0.00 m/s	1447	2500	1500	1400	1.71 kW	1006 W/(m³/s)	2.2 kW	29.02	50.00	50.00

## FAN MODULE – FAN CHART



## FAN MODULE – PRESSURE DROP SOURCES

**Pressure Drop Sources**

File Edit Appearance Help

Close

Source	Module Name	Module Type	Pressure Drop	Explanation
=	ABC	=	=	ABC
▶ AHU Connection	M2	Filter	10 Pa	
Module	M2	Filter	429 Pa	
Module	M5	Fan	300 Pa	
Module	M4	Cooling Coil	552 Pa	
AHU Connection	M3	Heating Coil	10 Pa	
Module	M3	Heating Coil	56 Pa	

1,357 Pa

Filter <Filter> 1 / 6

## FAN MODULE – FAN SPACES

**Fan Spaces - [Nicotra, Backward Curved, CW90, 6,100, RDH 280 R, AGM 112 M-2]**

Fan Diameter: 280 mm

Fan Width Space: 0 mm 0 mm Fan Height Space: 0 mm 0 mm

Fan Front Space: 0 mm 0 mm Fan Back Space: 0 mm 0 mm

☐ Fan Width / Height Space Canceled ☐ Fan Front / Back Space Canceled

Close

## FILTER MODULES (PANEL + BAG)

**\* Filter Module - [Standard, M-5, F-9] (M11)**

If "1. Filter" is not checked, all filter cost will not be added to total cost.

Trademark Name: Standard Direction: Forward Air Flow: 14000 m³/h

1. Filter ☒ 1. Filter

2. Filter ☒ 2. Filter

Filter Type: Panel Filter Type: Bag

Filter Name: M-5 Filter Name: F-9

Thickness (mm): 48 Thickness (mm): 635

First Resistance: 71 Pa Last Resistance: 220 Pa First Resistance: 84 Pa Last Resistance: 300 Pa

Resistance Type: Default Pressure Drop: 146 Pa Resistance Type: Default Pressure Drop: 192 Pa

Energy Class: E Life Time: 1794.05 h Energy Class: B Life Time: 1794.05 h

Air Velocity: 2.09 m/s Desired Air Velocity: 0.00 m/s Air Velocity: 2.09 m/s Desired Air Velocity: 0.00 m/s

Surface Air Velocity: 0.00 m/s Surface Area: 0.00 m² Surface Air Velocity: 0.00 m/s Surface Area: 0.00 m²

☐ Optimize Filters ☐ Fix Filters ☐ Optimize Filters ☐ Fix Filters

Width	Height	Air Flow	Count	Closure Sheet Count
610 mm	610 mm	13,600 m³/h	4	0
610 mm	305 mm	3,400 m³/h	2	0

17,000 m³/h Count = 6 Count = 0

☒ Hygienic ☐ Spare Filter

☒ Frame Sealing Slide Type: None

Condensation Pan: 0 mm

☒ Service Door ☐ Opposing Door

Type: Standard Position: Right Hinge Position: Right Alignment: Default Additional Panel: None

Accessories:

Digital Manometer Pressure Gauge With Alarm	2
Negative Pressure Siphon	1

Copy To Other Modules Special Properties

Ok Cancel



## FILTER MODULES (PANEL + HEPA)

\* Filter Module - [Standard, M-5, HEPA H13] (M11)

If "1. Filter" is not checked, all filter cost will not be added to total cost.

Trademark Name \* Standard Direction → Forward Air Flow 14000 m³/h

1. Filter  
☒ 1. Filter

2. Filter  
☒ 2. Filter

Filter Type Panel Filter Type Hepa

Filter Name \* M-5 Filter Name \* HEPA H13

Thickness (mm) \* 48 Thickness (mm) \* 292

First Resistance \* 71 Pa Last Resistance \* 220 Pa First Resistance \* 347 Pa Last Resistance \* 600 Pa

Resistance Type Default Pressure Drop \* 146 Pa Resistance Type Default Pressure Drop \* 474 Pa

Energy Class E Life Time 1794.05 h Energy Class None Life Time 1794.05 h

Air Velocity 2.09 m/s Desired Air Velocity 0.00 m/s Air Velocity 2.09 m/s Desired Air Velocity 0.00 m/s

Surface Air Velocity 0.00 m/s Surface Area 0.00 m² Surface Air Velocity 0.00 m/s Surface Area 0.00 m²

☐ Optimize Filters ☐ Fix Filters ☐ Optimize Filters ☐ Fix Filters

Width	Height	Air Flow	Count	Closure Sheet Count
610 mm	610 mm	13,600 m³/h	4	0
610 mm	305 mm	3,400 m³/h	2	0

17,000 m³/h Count = 6 Count = 0

Width	Height	Air Flow	Count	Closure Sheet Count
610 mm	610 mm	9,600 m³/h	4	0
305 mm	610 mm	2,400 m³/h	2	0

12,000 m³/h Count = 6 Count = 0

☒ Hygienic ☐ Spare Filter

☒ Frame Sealing Slide Type None

☒ Condensation Pan

☒ Service Door ☐ Opposing Door

Type Standard

Position Right

Hinge Position Right

Alignment Default

Additional Panel None

Accessories

Digital Manometer Pressure Gauge With Alarm	2
Negative Pressure Siphon	1

Copy To Other Modules Special Properties

Ok Cancel


## FILTER MODULES (CARBON CARTRIDGE)

\* Filter Module - [Standard, Active Carbon Filter (Cartridge), F-9] (M11)

If "1. Filter" is not checked, all filter cost will not be added to total cost.

Trademark Name \* Standard Direction → Forward Air Flow 14000 m³/h

1. Filter  
☒ 1. Filter

Filter Type  Carbon Cartridge

Filter Name \* Active Carbon Filter (Cartridge) Thickness (mm) \* 600

First Resistance \* 100 Pa Last Resistance \* 100 Pa Resistance Type Default Pressure Drop \* 100 Pa Energy Class None Life Time 1679.46 h Air Velocity 2.23 m/s Desired Air Velocity 0.00 m/s Surface Air Velocity 0.00 m/s Surface Area 0.00 m²

☐ Optimize Filters ☐ Fix Filters

Width	Height	Air Flow	Count	Closure Sheet Count
592 mm	592 mm	8,000 m³/h	4	0
287 mm	592 mm	2,000 m³/h	2	0

10,000 m³/h Count = 6 Count = 0


☒ Hygienic ☐ Spare Filter ☒ Frame Sealing Slide Type None

Accessories

Accessory	Count
Digital Manometer Pressure Gauge With Alarm	1
Negative Pressure Siphon	1

Copy To Other Modules Special Properties

2. Filter  
☐ 2. Filter

Filter Type  Bag

Filter Name \* F-9 Thickness (mm) \* 635

First Resistance \* 206 Pa Last Resistance \* 300 Pa Resistance Type Default Pressure Drop \* 253 Pa Energy Class None Life Time 1500 h Air Velocity 0.00 m/s Desired Air Velocity 0.00 m/s Surface Air Velocity 0.00 m/s Surface Area 0.00 m²

☐ Optimize Filters ☐ Fix Filters

Width	Height	Air Flow	Count	Closure Sheet Count
		0 m³/h	Count = 0	Count = 0

Condensation Pan ☒ Condensation Pan 0 mm

☒ Service Door ☐ Opposing Door

Type Standard Position Right Hinge Position Right Alignment Default Additional Panel None

Ok Cancel


## FILTER MODULES (COMPACT)

\* Filter Module - [Standard, F-7 COMPACT, F-9] (M11)

If "1. Filter" is not checked, all filter cost will not be added to total cost.

Trademark Name \* Standard Direction → Forward Air Flow 14000 m³/h

1. Filter  
☒ 1. Filter

Filter Type  Compact

Filter Name \* F-7 COMPACT Thickness (mm) \* 292

First Resistance \* 135 Pa Last Resistance \* 200 Pa  
Resistance Type Default Pressure Drop \* 168 Pa  
Energy Class C Life Time 1679.46 h  
Air Velocity 2.23 m/s Desired Air Velocity 0.00 m/s  
Surface Air Velocity 0.00 m/s Surface Area 0.00 m²

☐ Optimize Filters ☐ Fix Filters

Width	Height	Air Flow	Count	Closure Sheet Count
592 mm	592 mm	13,600 m³/h	4	0
592 mm	287 mm	3,400 m³/h	2	0

17,000 m³/h Count = 6 Count = 0


☒ Hygienic ☐ Spare Filter  
☒ Frame Sealing Slide Type None

Accessories

Accessory	Count
Digital Manometer Pressure Gauge With Alarm	1
Negative Pressure Siphon	1

Copy To Other Modules Special Properties

2. Filter  
☐ 2. Filter

Filter Type  Bag

Filter Name \* F-9 Thickness (mm) \* 635

First Resistance \* 206 Pa Last Resistance \* 300 Pa  
Resistance Type Default Pressure Drop \* 253 Pa  
Energy Class None Life Time 1500 h  
Air Velocity 0.00 m/s Desired Air Velocity 0.00 m/s  
Surface Air Velocity 0.00 m/s Surface Area 0.00 m²

☐ Optimize Filters ☐ Fix Filters

Width	Height	Air Flow	Count	Closure Sheet Count
		0 m³/h	Count = 0	Count = 0

Condensation Pan  
☒ Condensation Pan 0 mm

☒ Service Door ☐ Opposing Door

Type Standard  
Position Right  
Hinge Position Right  
Alignment Default  
Additional Panel None

Ok Cancel


## FILTER MODULES (ELECTROSTATIC)

\* Filter Module - [Standard, CMBRN E1, F-9] (M11)

If "1. Filter" is not checked, all filter cost will not be added to total cost.

Trademark Name \* Standard Direction → Forward Air Flow 14000 m³/h

1. Filter  
☒ 1. Filter

Filter Type  Electrostatic

Filter Name \* CMBRN E1 Thickness (mm) \* 538

First Resistance \* 43 Pa Last Resistance \* 50 Pa  
Resistance Type Default Pressure Drop \* 46 Pa  
Energy Class None Life Time 48384.77 h  
Air Velocity 4.65 m/s Desired Air Velocity 0.00 m/s  
Surface Air Velocity 0.00 m/s Surface Area 0.00 m²

☐ Optimize Filters ☐ Fix Filters

Width	Height	Air Flow	Total Power	Count	Closure Sheet Count
1380 mm	606 mm	10,000 m³/h	0.182 kW	1	0

10,000 m³/h 0.182 kW Count = 1 Count = 0

☒ Hygienic ☐ Spare Filter  
☒ Frame Sealing Slide Type None


Accessories

Accessory	Count
Digital Manometer Press...	1
Negative Pressure Siphon	1

Electricity

Voltage \* 380  
Phase \* 3  
Frequency (Hz) \* 50

2. Filter  
☐ 2. Filter

Filter Type  Bag

Filter Name \* F-9 Thickness (mm) \* 635

First Resistance \* 206 Pa Last Resistance \* 300 Pa  
Resistance Type Default Pressure Drop \* 253 Pa  
Energy Class None Life Time 1500 h  
Air Velocity 0.00 m/s Desired Air Velocity 0.00 m/s  
Surface Air Velocity 0.00 m/s Surface Area 0.00 m²

☐ Optimize Filters ☐ Fix Filters

Width	Height	Air Flow	Count	Closure Sheet Count
		0 m³/h	Count = 0	Count = 0

Condensation Pan  
☒ Condensation Pan 0 mm

☒ Service Door ☐ Opposing Door

Type Standard  
Position Right  
Hinge Position Right  
Alignment Default  
Additional Panel None

Copy To Other Modules Special Properties

Ok Cancel


## FILTER MODULES (V-TYPE)

**\* Filter Module - [Standard, G-4, F-9] (M11)**

If "1. Filter" is not checked, all filter cost will not be added to total cost.

Trademark Name \* Standard Direction → Forward Air Flow 14000 m³/h

1. Filter ☒ 1. Filter

Filter Type  V-Type

Filter Name \* G-4 Thickness (mm) \* 48

First Resistance \* 395 Pa Last Resistance \* 150 Pa

Resistance Type Default Pressure Drop \* 272 Pa

Energy Class None Life Time 2242.57 h

Air Velocity 1.67 m/s Desired Air Velocity 0.00 m/s

Surface Air Velocity 0.00 m/s Surface Area 0.00 m²

☐ Optimize Filters ☐ Fix Filters

Width	Height	Air Flow	Count	Closure Sheet Count
610 mm	610 mm	13,600 m³/h	4	0
610 mm	305 mm	3,400 m³/h	2	0
305 mm	305 mm	4,250 m³/h	5	0

21,250 m³/h Count = 11 Count = 0

☒ Hygienic ☐ Spare Filter


☒ Frame Sealing Slide Type None

**Accessories**

Digital Manometer Pressure Gauge With Alarm	1
Negative Pressure Siphon	1

Copy To Other Modules Special Properties

2. Filter ☐ 2. Filter

Filter Type  Bag

Filter Name \* F-9 Thickness (mm) \* 635

First Resistance \* 206 Pa Last Resistance \* 300 Pa

Resistance Type Default Pressure Drop \* 253 Pa

Energy Class None Life Time 1500 h

Air Velocity 0.00 m/s Desired Air Velocity 0.00 m/s

Surface Air Velocity 0.00 m/s Surface Area 0.00 m²

☐ Optimize Filters ☐ Fix Filters

Width	Height	Air Flow	Count	Closure Sheet Count
		0 m³/h	Count = 0	Count = 0

Condensation Pan ☒ Condensation Pan 0 mm

☒ Service Door ☐ Opposing Door

Type Standard

Position Right

Hinge Position Right

Alignment Default

Additional Panel None

Ok Cancel


## FILTER MODULES (UV)

**\* Filter Module - [Standard, UV, F-9] (M11)**

If "1. Filter" is not checked, all filter cost will not be added to total cost.

Trademark Name \* Standard Direction → Forward Air Flow 14000 m³/h

1. Filter  
☒ 1. Filter

Filter Type  UV

Filter Name \* UV Thickness (mm) \* 96

First Resistance \* 68 Pa Last Resistance \* 5 Pa

Resistance Type Default Pressure Drop \* 36 Pa

Energy Class None Life Time 8611.46 h

Air Velocity 2.61 m/s Desired Air Velocity 0.00 m/s

Surface Air Velocity 0.00 m/s Surface Area 0.00 m²

☐ Optimize Filters ☐ Fix Filters

Width	Height	Air Flow	Total Power	Count	Closure Sheet Count
592 mm	96 mm	17,000 m³/h	0.22 kW	4	0

17,000 m³/h 0.22 kW Count = 4 Count = 0

☒ Hygienic ☐ Spare Filter

☒ Frame Sealing Slide Type None

Accessories

Accessory	Count
Digital Manometer Press...	1
Negative Pressure Siphon	1


Electricity

Voltage \* 380

Phase \* 3

Frequency (Hz) \* 50

2. Filter  
☐ 2. Filter

Filter Type  Bag

Filter Name \* F-9 Thickness (mm) \* 635

First Resistance \* 206 Pa Last Resistance \* 300 Pa

Resistance Type Default Pressure Drop \* 253 Pa

Energy Class None Life Time 1500 h

Air Velocity 0.00 m/s Desired Air Velocity 0.00 m/s

Surface Air Velocity 0.00 m/s Surface Area 0.00 m²

☐ Optimize Filters ☐ Fix Filters

Width	Height	Air Flow	Count	Closure Sheet Count
		0 m³/h	Count = 0	Count = 0

0 m³/h Count = 0 Count = 0

Condensation Pan

☒ Condensation Pan 0 mm

☒ Service Door ☐ Opposing Door

Type Standard

Position Right

Hinge Position Right

Alignment Default

Additional Panel None

Copy To Other Modules Special Properties

Ok Cancel



## ELECTRIC HEATER MODULE

**\* Electric Heater Module - [Standard, 100.00, Serpentine, Electric Heater] (M7)**

Properties	
Trademark Name *	Standard
Air Flow	6,100 m³/h
Pressure Drop *	50 Pa
Capacity *	100.00 kW
Type	Serpentine
Step *	1
Heater Name *	Electric Heater
Function	Heating
<input type="checkbox"/> Hygienic	
Air Entrance Values	
Air Density Type	AHU
Air Density	1.2131 kg/m³
Dry Thermometer	-12.00 °C
Wet Thermometer	-12.32 °C
Relative Humidity (%)	90.01
Air Exit Values	
Dry Thermometer	36.41 °C
Wet Thermometer	13.55 °C
Relative Humidity (%)	3.62
<a href="#">Psychrometric Chart</a>	
Service Door	
<input type="checkbox"/> Service Door <input type="checkbox"/> Opposing Door	
Type	Standard
Position	Right
Hinge Position	Right
Alignment	Default
Additional Panel	None
Electricity	
Voltage *	380
Phase *	3
Frequency (Hz) *	50
Accessories	
Add	

Copy To Other Modules    Special Properties    Ok    Cancel

### HEATING COIL MODULE

**Coil Module - [Heating, 32 x 28 1/2, 32 x 28 1/2 20T 1R 550A 3.2P 2NC] (M3)**

**Trademark:** Friterm 4.0

**Coil Type:** Heating

**Coil Name \*:** 32 x 28 1/2

**Tube Material:** Copper 0,35 mm

**Fin Material:** Aluminium 0,12 mm

**Fluid Kind:** WATER

**Connection Material:** Default Automatic

**Connection Direction:** Right According To Surf...

**Connection Count:** Automatic Automatic

**Frame Material:** Default Oblique

☐ Hygienic ☐ Blygold Heating

**Center:** Middle Center

**Air Flow:** 6,100 m³/h

**Dry Therm.:** -12.00 °C

**Wet Therm.:** -12.32 °C

**Rel. Hum. (%):** 90.01

☐ Use Uncond. Air

**Fluid In Temp.:** 80.00 °C

**Fluid Out Temp.:** 60.00 °C

**Fluid Fouling Factor:** 0

**Air Fouling Factor:** 0

☐ Drop Eliminator

**Drop Eliminator Name \*:** Polypropylene

**Drop Eliminator Distance:** 150 mm

☐ Condensation Pan 0 mm

☐ Bypass Damper

☐ Only For Calculation

**Psychrometric Chart**

**Filter:**

**Pitch Range (mm):** 2.1 3.2 Max. Air Press. Drop 0 Pa Min. Fld. Vel. 0.0 m/s Temperature Ra... 0 °C 0 °C

**Row Range:** 1 3 Max. Fluid Press. Drop 0 kPa Max. Fld. Vel. 0.0 m/s Capacity Range 0 kW 0 kW

**Capacity:** 25.94 kW 25.94 kW

**Air Velocity:** 4.85 m/s

**Air Pressure Drop:** 56 Pa 56 Pa

**Count:** 1

**Pitch:** 3.20 mm

**Row Count:** 1

**Tube Count:** 20

**Fluid Flow:** 1,114.09 kg/h

**Circuit Count:** 2

**Entry Conn. Diam.:** 26.90 mm

**Exit Conn. Diam.:** 26.90 mm

**Fluid Vol. Flow:** 1146.46 dm³/h

**Connection Count:** 1

**Manifold Count:** 1

**Coil Area:** 5.57 m²

**Fluid Velocity:** 1.2975 m/s

**Width (LL):** 550 mm

**Height (LH):** 635 mm

**Length (TR):** 110 mm

**Fluid Pressure Drop:** 19.19 kPa

**Dry Therm.:** 0.53 °C

**Wet Therm.:** -3.96 °C

**Rel. Hum. (%):** 30.80

**Tube Inner Vol.:** 2.05 L

**Custom Size:**

**Coil Width (LL):** 0 mm

**Coil Height (LH):** 0 mm

**Max. Coil Height:** 0 mm

**Coil Count \*:** 1

**Service Door:**

☐ Service Door ☐ Opposing Door

**Type:** Standard

**Position:** Right

**Hinge Position:** Right

**Alignment:** Default

**Additional Panel:** None

**Subtr. Tube Cnt.:** <None>

**Subtract Width:** 0 mm

**Circuit Method:** Standard

**Fixed Fluid Flow:** 0.00 kg/h

☐ Extended

**Copy To Other Modules** **Special Properties** **Ok** **Cancel**

### HEATING COIL MODULE – COILS

Coil Name	Capacity	Sensible Capacity	Latent Capacity	Sensible Capacity Ratio (%)	Latent Capacity Ratio (%)	Capacity Ratio (%)	Safety Margin (%)	Pitch	Row Count	Tube Count	Circuit Count	Price (%)	Air Flow	Air Velocity	Dry Thermometer	Wet Thermometer
32 x 28 1/2	25.94 kW	25.94 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	1	20	2	100.00	6,100 m³/h	4.85 m/s	0.53 °C	-3
32 x 28 1/2	27.34 kW	27.34 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	1	20	2	103.80	6,100 m³/h	4.85 m/s	1.21 °C	-3
32 x 28 1/2	28.93 kW	28.93 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	1	20	2	105.97	6,100 m³/h	4.85 m/s	1.97 °C	-3
32 x 28 1/2	26.15 kW	26.15 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	1	20	5	105.97	6,100 m³/h	4.85 m/s	0.63 °C	-3
32 x 28 1/2	28.67 kW	28.67 kW	0.00 kW	100.00	0.00	100.00	0.00	2.5 mm	1	20	5	112.42	6,100 m³/h	4.85 m/s	1.85 °C	-3
32 x 28 1/2	33.08 kW	33.08 kW	0.00 kW	100.00	0.00	100.00	0.00	2.1 mm	1	20	5	121.22	6,100 m³/h	4.85 m/s	3.98 °C	-1
32 x 28 1/2	50.75 kW	50.75 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	2	20	4	160.00	6,100 m³/h	4.85 m/s	12.51 °C	2
32 x 28 1/2	49.90 kW	49.90 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	2	20	5	160.00	6,100 m³/h	4.85 m/s	12.10 °C	2
32 x 28 1/2	53.23 kW	53.23 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	2	20	4	166.07	6,100 m³/h	4.85 m/s	13.72 °C	3
32 x 28 1/2	52.34 kW	52.34 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	2	20	5	166.07	6,100 m³/h	4.85 m/s	13.28 °C	3
32 x 28 1/2	56.03 kW	56.03 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	2	20	4	169.55	6,100 m³/h	4.85 m/s	15.06 °C	4
32 x 28 1/2	55.08 kW	55.08 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	2	20	5	169.55	6,100 m³/h	4.85 m/s	14.61 °C	4
32 x 28 1/2	50.69 kW	50.69 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	2	20	10	169.55	6,100 m³/h	4.85 m/s	12.49 °C	2
32 x 28 1/2	59.88 kW	59.88 kW	0.00 kW	100.00	0.00	100.00	0.00	2.5 mm	2	20	5	179.86	6,100 m³/h	4.85 m/s	16.93 °C	5
32 x 28 1/2	55.07 kW	55.07 kW	0.00 kW	100.00	0.00	100.00	0.00	2.5 mm	2	20	10	179.86	6,100 m³/h	4.85 m/s	14.60 °C	4
32 x 28 1/2	68.04 kW	68.04 kW	0.00 kW	100.00	0.00	100.00	0.00	2.1 mm	2	20	5	193.96	6,100 m³/h	4.85 m/s	20.87 °C	7
32 x 28 1/2	62.51 kW	62.51 kW	0.00 kW	100.00	0.00	100.00	0.00	2.1 mm	2	20	10	193.96	6,100 m³/h	4.85 m/s	18.19 °C	5
32 x 28 1/2	73.35 kW	73.35 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	3	20	5	235.64	6,100 m³/h	4.94 m/s	23.43 °C	8
32 x 28 1/2	72.52 kW	72.52 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	3	20	6	235.64	6,100 m³/h	4.94 m/s	23.03 °C	7
32 x 28 1/2	69.36 kW	69.36 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	3	20	10	235.64	6,100 m³/h	4.94 m/s	21.51 °C	7
32 x 28 1/2	75.71 kW	75.71 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	3	20	6	244.58	6,100 m³/h	4.94 m/s	24.57 °C	8
32 x 28 1/2	72.40 kW	72.40 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	3	20	10	244.58	6,100 m³/h	4.94 m/s	22.97 °C	7
32 x 28 1/2	79.25 kW	79.25 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	3	20	6	249.71	6,100 m³/h	4.94 m/s	26.28 °C	9
32 x 28 1/2	75.77 kW	75.77 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	3	20	10	249.71	6,100 m³/h	4.94 m/s	24.60 °C	8
32 x 28 1/2	85.35 kW	85.35 kW	0.00 kW	100.00	0.00	100.00	0.00	2.5 mm	3	20	6	264.89	6,100 m³/h	4.94 m/s	29.23 °C	10
32 x 28 1/2	81.59 kW	81.59 kW	0.00 kW	100.00	0.00	100.00	0.00	2.5 mm	3	20	10	264.89	6,100 m³/h	4.94 m/s	27.41 °C	9
32 x 28 1/2	77.19 kW	77.19 kW	0.00 kW	100.00	0.00	100.00	0.00	2.5 mm	3	20	15	264.89	6,100 m³/h	4.94 m/s	25.29 °C	8
32 x 28 1/2	91.17 kW	91.17 kW	0.00 kW	100.00	0.00	100.00	0.00	2.1 mm	3	20	10	285.65	6,100 m³/h	4.94 m/s	32.04 °C	11
32 x 28 1/2	86.24 kW	86.24 kW	0.00 kW	100.00	0.00	100.00	0.00	2.1 mm	3	20	15	285.65	6,100 m³/h	4.94 m/s	29.66 °C	10
32 x 28 1/2	26.88 kW	26.88 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	1	20	1	100.00	6,100 m³/h	4.85 m/s	0.98 °C	-3
Fluid velocity is not suitable ! (Minimum = 0.5 m/s - Maximum = 1.5 m/s)																
32 x 28 1/2	23.40 kW	23.40 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	1	20	5	100.00	6,100 m³/h	4.85 m/s	-0.66 °C	-4
Fluid velocity is not suitable ! (Minimum = 0.5 m/s - Maximum = 1.5 m/s)																
32 x 28 1/2	19.51 kW	19.51 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	1	20	10	100.00	6,100 m³/h	4.85 m/s	-2.55 °C	-5
Fluid velocity is not suitable ! (Minimum = 0.5 m/s - Maximum = 1.5 m/s)																
32 x 28 1/2	28.31 kW	28.31 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	1	20	1	103.80	6,100 m³/h	4.85 m/s	1.69 °C	-3

## COOLING COIL MODULE

Coil Module - [Cooling, 32 x 28 1/2, 32 x 28 1/2 20T 10R 525A 3.2P 10NC] (M4)

Trademark: Friterm 4.0

Coil Type: Cooling

Coil Name: 32 x 28 1/2

Tube Material: Copper, 0,35 mm

Fin Material: Aluminium, 0,12 mm

Fluid Kind: WATER

Connection Material: Default, Automatic

Connection Direction: Right, According To Surf...

Connection Count: Automatic, Automatic

Frame Material: Default, Oblique

Hygienic: ☐ Blygold: ☐ Center: Middle Center

Air Flow: 6,100 m³/h

Dry Therm.: 34.00 °C

Wet Therm.: 19.84 °C

Rel. Hum. (%): 28.00

Use Uncond. Air: ☐

Fluid In Temp.: 7.00 °C

Fluid Out Temp.: 12.00 °C

Condensation Pan: 0 mm

Bypass Damper: ☐ Only For Calculation

Drop Eliminator: ☒ Drop Eliminator Name: Polypropylene

Drop Eliminator Distance: 150 mm

Psychrometric Chart

Filter: Pitch Range (mm): 2.1, 3.2, Max. Air Press. Drop: 0 Pa, Min. Fld. Vel.: 0.0 m/s, Temperature Ra...: 0 °C, 0 °C, Choose

Row Range: 10, 11, Max. Fluid Press. Drop: 0 kPa, Max. Fld. Vel.: 0.0 m/s, Capacity Range: 0 kW, 0 kW

Capacity: 44.02 kW, 37.36 kW, Air Velocity: 5.08 m/s, Air Pressure Drop: 522 Pa, 433 Pa, Count: 1

Pitch: 3.20 mm, Row Count: 10, Tube Count: 20, Fluid Flow: 7,552.42 kg/h

Circuit Count: 10, Entry Conn. Diam.: 60.30 mm, Exit Conn. Diam.: 60.30 mm, Fluid Vol. Flow: 7553.52 dm³/h

Connection Count: 1, Manifold Count: 1, Coil Area: 53.17 m², Fluid Velocity: 1.7098 m/s

Width (LL): 525 mm, Height (LH): 635 mm, Length (TR): 340 mm, Fluid Pressure Drop: 67.00 kPa

Dry Therm.: 12.81 °C, Wet Therm.: 11.45 °C, Rel. Hum. (%): 86.12, Tube Inner Vol.: 17.94 L

Custom Size: Coil Width (LL): 0 mm, Coil Height (LH): 0 mm, Max. Coil Height: 0 mm, Coil Count: 1

Service Door: ☐ Service Door, ☐ Opposing Door, Type: Standard, Position: Right, Hinge Position: Right, Alignment: Default, Additional Panel: None

Subtr. Tube Cnt.: <None>, Subtract Width: 0 mm, Circuit Method: Standard, Fixed Fluid Flow: 0.00 kg/h, ☐ Extended

Copy To Other Modules, Special Properties, Ok, Cancel

## COOLING COIL MODULE – COILS

Coil Name	Capacity	Sensible Capacity	Latent Capacity	Sensible Capacity Ratio (%)	Latent Capacity Ratio (%)	Capacity Ratio (%)	Safety Margin (%)	Pitch	Row Count	Tube Count	Circuit Count	Price (%)	Air Flow	Air Velocity	Dry Thermometer	Wet Thermometer
32 x 28 1/2	44.02 kW	37.36 kW	6.66 kW	84.87	15.13	100.00	0.00	3.2 mm	10	20	10	100.00	6,100 m³/h	5.08 m/s	12.81 °C	11
32 x 28 1/2	40.30 kW	35.94 kW	4.36 kW	89.18	10.82	100.00	0.00	3.2 mm	10	20	20	101.90	6,100 m³/h	4.99 m/s	13.62 °C	12
32 x 28 1/2	38.40 kW	35.14 kW	3.26 kW	91.50	8.50	100.00	0.00	3.2 mm	10	20	25	101.90	6,100 m³/h	4.99 m/s	14.07 °C	12
32 x 28 1/2	44.98 kW	38.07 kW	6.91 kW	84.64	15.36	100.00	0.00	3 mm	10	20	10	103.53	6,100 m³/h	5.08 m/s	12.41 °C	11
32 x 28 1/2	41.19 kW	36.61 kW	4.58 kW	88.88	11.12	100.00	0.00	3 mm	10	20	20	105.50	6,100 m³/h	4.99 m/s	13.24 °C	12
32 x 28 1/2	39.28 kW	35.81 kW	3.47 kW	91.16	8.84	100.00	0.00	3 mm	10	20	25	105.50	6,100 m³/h	4.99 m/s	13.70 °C	12
32 x 28 1/2	45.99 kW	38.80 kW	7.19 kW	84.37	15.63	100.00	0.00	2.8 mm	10	20	10	107.59	6,100 m³/h	5.08 m/s	11.99 °C	11
32 x 28 1/2	42.14 kW	37.31 kW	4.84 kW	88.53	11.47	100.00	0.00	2.8 mm	10	20	20	109.64	6,100 m³/h	4.99 m/s	12.84 °C	11
32 x 28 1/2	40.21 kW	36.50 kW	3.71 kW	90.77	9.23	100.00	0.00	2.8 mm	10	20	25	109.64	6,100 m³/h	4.99 m/s	13.31 °C	12
32 x 28 1/2	46.21 kW	38.71 kW	7.50 kW	83.77	16.23	100.00	0.00	3.2 mm	11	20	10	110.00	6,100 m³/h	5.08 m/s	12.04 °C	12
32 x 28 1/2	45.79 kW	38.55 kW	7.24 kW	84.19	15.81	100.00	0.00	3.2 mm	11	20	11	110.00	6,100 m³/h	5.08 m/s	12.13 °C	11
32 x 28 1/2	47.59 kW	39.92 kW	7.67 kW	83.88	16.12	100.00	0.00	2.5 mm	10	20	10	112.09	6,100 m³/h	5.08 m/s	11.35 °C	10
32 x 28 1/2	43.36 kW	38.22 kW	5.14 kW	88.14	11.86	100.00	0.00	2.5 mm	10	20	20	112.09	6,100 m³/h	5.08 m/s	12.32 °C	11
32 x 28 1/2	41.91 kW	37.04 kW	4.87 kW	88.37	11.63	100.00	0.00	3.2 mm	11	20	22	112.10	6,100 m³/h	4.99 m/s	13.00 °C	11
32 x 28 1/2	47.13 kW	39.37 kW	7.76 kW	83.53	16.47	100.00	0.00	3 mm	11	20	10	113.88	6,100 m³/h	5.08 m/s	11.67 °C	10
32 x 28 1/2	46.70 kW	39.20 kW	7.50 kW	83.94	16.06	100.00	0.00	3 mm	11	20	11	113.88	6,100 m³/h	5.08 m/s	11.76 °C	10
32 x 28 1/2	42.47 kW	37.50 kW	4.97 kW	88.29	11.71	100.00	0.00	3 mm	11	20	22	113.88	6,100 m³/h	5.08 m/s	12.74 °C	11
32 x 28 1/2	41.70 kW	37.56 kW	4.14 kW	90.07	9.93	100.00	0.00	2.5 mm	10	20	25	114.22	6,100 m³/h	4.99 m/s	12.70 °C	11
32 x 28 1/2	48.09 kW	40.04 kW	8.05 kW	83.26	16.74	100.00	0.00	2.8 mm	11	20	10	118.35	6,100 m³/h	5.08 m/s	11.29 °C	10
32 x 28 1/2	47.66 kW	39.87 kW	7.79 kW	83.65	16.35	100.00	0.00	2.8 mm	11	20	11	118.35	6,100 m³/h	5.08 m/s	11.38 °C	10
32 x 28 1/2	43.39 kW	38.14 kW	5.25 kW	87.91	12.09	100.00	0.00	2.8 mm	11	20	22	118.35	6,100 m³/h	5.08 m/s	12.37 °C	11
32 x 28 1/2	49.92 kW	41.45 kW	8.47 kW	83.03	16.97	100.00	0.00	2.1 mm	10	20	10	122.20	6,100 m³/h	5.08 m/s	10.49 °C	10
32 x 28 1/2	45.64 kW	39.71 kW	5.93 kW	87.01	12.99	100.00	0.00	2.1 mm	10	20	20	122.20	6,100 m³/h	5.08 m/s	11.48 °C	11
32 x 28 1/2	43.60 kW	38.87 kW	4.74 kW	89.13	10.87	100.00	0.00	2.1 mm	10	20	25	122.20	6,100 m³/h	5.08 m/s	11.96 °C	11
32 x 28 1/2	49.60 kW	41.06 kW	8.54 kW	82.78	17.22	100.00	0.00	2.5 mm	11	20	10	123.30	6,100 m³/h	5.08 m/s	10.71 °C	10
32 x 28 1/2	49.19 kW	40.89 kW	8.29 kW	83.14	16.86	100.00	0.00	2.5 mm	11	20	11	123.30	6,100 m³/h	5.08 m/s	10.80 °C	10
32 x 28 1/2	44.86 kW	39.14 kW	5.72 kW	87.24	12.76	100.00	0.00	2.5 mm	11	20	22	123.30	6,100 m³/h	5.08 m/s	11.81 °C	11
32 x 28 1/2	51.38 kW	42.26 kW	9.12 kW	82.26	17.74	100.00	0.00	2.1 mm	11	20	11	134.42	6,100 m³/h	5.08 m/s	10.02 °C	9
32 x 28 1/2	47.03 kW	40.48 kW	6.55 kW	86.08	13.92	100.00	0.00	2.1 mm	11	20	22	134.42	6,100 m³/h	5.08 m/s	11.04 °C	10
32 x 28 1/2	48.83 kW	39.08 kW	9.75 kW	80.04	19.96	100.00	0.00	3.2 mm	10	20	1	100.00	6,100 m³/h	5.08 m/s	11.81 °C	10
Fluid velocity is not suitable ! (Minimum = 0.5 m/s - Maximum = 2 m/s)																
32 x 28 1/2	48.12 kW	38.85 kW	9.27 kW	80.73	19.27	100.00	0.00	3.2 mm	10	20	2	100.00	6,100 m³/h	5.08 m/s	11.95 °C	10
Fluid velocity is not suitable ! (Minimum = 0.5 m/s - Maximum = 2 m/s)																
32 x 28 1/2	46.93 kW	38.42 kW	8.49 kW	81.90	18.10	100.00	0.00	3.2 mm	10	20	4	100.00	6,100 m³/h	5.08 m/s	12.19 °C	10
Fluid velocity is not suitable ! (Minimum = 0.5 m/s - Maximum = 2 m/s)																
32 x 28 1/2	46.30 kW	38.24 kW	8.06 kW	82.43	17.57	100.00	0.00	3.2 mm	10	20	5	100.00	6,100 m³/h	5.08 m/s	12.30 °C	10

### DX COIL MODULE

**\* Coil Module - [DX, 32 x 28 1/2, 32 x 28 1/2 20T 6R 520A 2.1P 6NC] (M4)**

Trademark	Friterm 4.0	Air Flow	6,100 m³/h	Fluid Fouling Factor	0					
Coil Type	DX	Dry Therm.	34.00 °C	Air Fouling Factor	0					
Coil Name *	32 x 28 1/2	Wet Therm.	19.84 °C	<input type="checkbox"/> Drop Eliminator						
Tube Material	Copper 0,35 mm	Rel. Hum. (%)	28.00	Drop Eliminator Name *	Polypropylene					
Fin Material	Aluminium 0,1 mm	<input type="checkbox"/> Use Uncond. Air		Drop Eliminator Distance	150 mm					
Fluid Kind	R410A	Evaporation Temp.	8.00 °C	Condensation Temp.	49.00 °C					
Connection Material	Default	Sub Cooling Degree	7.00 °C	Over Heating	5.00 °C					
Connection Direction	Right	<input type="checkbox"/> Condensation Pan	0 mm	<input type="checkbox"/> Bypass Damper	<input type="checkbox"/> Damper					
Connection Count	Automatic	<input type="checkbox"/> Only For Calculation		<input type="button" value="Psychrometric Chart"/>						
Frame Material	Default									
<input type="checkbox"/> Hygienic										
<input type="checkbox"/> Blygold										
Center	Middle Center									
Pitch Range (mm)	2.1	3.2	Max. Air Press. Drop	0 Pa	Min. Fld. Vel.	0.0 m/s	Temperature Ra...	0 °C	0 °C	<input type="button" value="Choose"/>
Row Range	3	6	Max. Fluid Press. Drop	0 kPa	Max. Fld. Vel.	0.0 m/s	Capacity Range	0 kW	0 kW	
Capacity	31.18 kW	31.01 kW	Air Velocity	5.13 m/s	Air Pressure Drop	389 Pa	387 Pa	Count	1	
Pitch	2.10 mm	Row Count	6	Tube Count	20	Fluid Flow	702.38 kg/h			
Circuit Count	6	Entry Conn. Diam.	12.70 mm	Exit Conn. Diam.	28.00 mm	Fluid Vol. Flow	18552.66 dm³/h			
Connection Count	1	Manifold Count	1	Coil Area	46.85 m²	Fluid Velocity	0.3169 m/s			
Width (LL)	520 mm	Height (LH)	635 mm	Length (TR)	215 mm	Fluid Pressure Drop	26.25 kPa			
Dry Therm.	16.42 °C	Wet Therm.	14.17 °C	Rel. Hum. (%)	79.53	Tube Inner Vol.	9.32 L			
<input type="button" value="Add"/> <input type="button" value="Copy To Other Modules"/> <input type="button" value="Special Properties"/>		Custom Size Coil Width (LL) 0 mm Coil Height (LH) 0 mm Max. Coil Height 0 mm Coil Count * 1		Service Door <input type="checkbox"/> Service Door <input type="checkbox"/> Opposing Door Type Standard Position Right Hinge Position Right Alignment Default Additional Panel None		Subtr. Tube Cnt. <None> Subtract Width 0 mm Circuit Method Standard Fixed Fluid Flow 0.00 kg/h <input type="checkbox"/> Extended		<input type="button" value="Ok"/> <input type="button" value="Cancel"/>		

### DX COIL MODULE – COILS

Coil Name	Capacity	Sensible Capacity	Latent Capacity	Sensible Capacity Ratio (%)	Latent Capacity Ratio (%)	Capacity Ratio (%)	Safety Margin (%)	Pitch	Row Count	Tube Count	Circuit Count	Price (%)	Air Flow	Air Velocity	Dry Thermometer	Wet Thermometer
32 x 28 1/2	16.52 kW	16.52 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	3	20	3	100.00	6,100 m³/h	5.03 m/s	24.63 °C	16
32 x 28 1/2	15.05 kW	15.05 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	3	20	5	100.00	6,100 m³/h	5.03 m/s	25.47 °C	17
32 x 28 1/2	17.24 kW	17.24 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	3	20	3	103.80	6,100 m³/h	5.03 m/s	24.23 °C	16
32 x 28 1/2	15.73 kW	15.73 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	3	20	5	103.80	6,100 m³/h	5.03 m/s	25.08 °C	17
32 x 28 1/2	15.36 kW	15.36 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	3	20	6	103.80	6,100 m³/h	5.03 m/s	25.29 °C	17
32 x 28 1/2	18.11 kW	18.11 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	3	20	3	105.97	6,100 m³/h	5.03 m/s	23.73 °C	16
32 x 28 1/2	16.09 kW	16.09 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	3	20	6	105.97	6,100 m³/h	5.03 m/s	24.88 °C	17
32 x 28 1/2	19.19 kW	19.19 kW	0.00 kW	100.00	0.00	100.00	0.00	2.5 mm	3	20	3	110.29	6,100 m³/h	5.13 m/s	23.12 °C	16
32 x 28 1/2	17.48 kW	17.48 kW	0.00 kW	100.00	0.00	100.00	0.00	2.5 mm	3	20	5	112.42	6,100 m³/h	5.03 m/s	24.09 °C	16
32 x 28 1/2	21.25 kW	21.25 kW	0.00 kW	100.00	0.00	100.00	0.00	2.1 mm	3	20	3	118.94	6,100 m³/h	5.13 m/s	21.95 °C	16
32 x 28 1/2	19.23 kW	19.23 kW	0.00 kW	100.00	0.00	100.00	0.00	2.1 mm	3	20	5	118.94	6,100 m³/h	5.13 m/s	23.10 °C	16
32 x 28 1/2	20.23 kW	20.23 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	4	20	4	130.82	6,100 m³/h	5.13 m/s	22.53 °C	16
32 x 28 1/2	19.17 kW	19.17 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	4	20	5	130.82	6,100 m³/h	5.13 m/s	23.13 °C	16
32 x 28 1/2	23.45 kW	23.45 kW	0.00 kW	100.00	0.00	100.00	0.00	2.5 mm	4	20	4	133.19	6,100 m³/h	5.13 m/s	20.71 °C	15
32 x 28 1/2	21.77 kW	21.77 kW	0.00 kW	100.00	0.00	100.00	0.00	2.5 mm	4	20	5	133.19	6,100 m³/h	5.13 m/s	21.66 °C	16
32 x 28 1/2	20.95 kW	20.95 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	4	20	4	135.78	6,100 m³/h	5.13 m/s	22.13 °C	16
32 x 28 1/2	19.82 kW	19.82 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	4	20	5	135.78	6,100 m³/h	5.13 m/s	22.77 °C	16
32 x 28 1/2	21.88 kW	21.88 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	4	20	4	138.63	6,100 m³/h	5.13 m/s	21.59 °C	15
32 x 28 1/2	20.54 kW	20.54 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	4	20	5	138.63	6,100 m³/h	5.13 m/s	22.35 °C	16
32 x 28 1/2	25.68 kW	25.68 kW	0.00 kW	100.00	0.00	100.00	0.00	2.1 mm	4	20	4	141.17	6,100 m³/h	5.13 m/s	19.44 °C	15
32 x 28 1/2	23.92 kW	23.92 kW	0.00 kW	100.00	0.00	100.00	0.00	2.1 mm	4	20	5	141.17	6,100 m³/h	5.13 m/s	20.44 °C	15
32 x 28 1/2	23.26 kW	23.26 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	5	20	5	145.45	6,100 m³/h	5.13 m/s	20.81 °C	15
32 x 28 1/2	24.12 kW	24.12 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	5	20	5	151.02	6,100 m³/h	5.13 m/s	20.32 °C	15
32 x 28 1/2	25.03 kW	25.03 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	5	20	5	157.19	6,100 m³/h	5.13 m/s	19.81 °C	15
32 x 28 1/2	26.48 kW	26.48 kW	0.00 kW	100.00	0.00	100.00	0.00	2.5 mm	5	20	5	166.49	6,100 m³/h	5.13 m/s	18.99 °C	15
32 x 28 1/2	26.94 kW	26.94 kW	0.38 kW	96.60	1.40	100.00	0.00	3.2 mm	6	20	5	174.54	6,100 m³/h	5.13 m/s	18.94 °C	15
32 x 28 1/2	25.67 kW	25.67 kW	0.02 kW	99.94	0.06	100.00	0.00	3.2 mm	6	20	6	174.54	6,100 m³/h	5.13 m/s	19.45 °C	15
32 x 28 1/2	28.76 kW	28.76 kW	0.00 kW	100.00	0.00	100.00	0.00	2.1 mm	5	20	5	176.46	6,100 m³/h	5.13 m/s	17.69 °C	14
32 x 28 1/2	26.08 kW	26.08 kW	0.00 kW	100.00	0.00	100.00	0.00	2.1 mm	5	20	10	176.46	6,100 m³/h	5.13 m/s	19.21 °C	14
32 x 28 1/2	27.78 kW	27.78 kW	0.39 kW	96.60	1.40	100.00	0.00	3 mm	6	20	5	181.23	6,100 m³/h	5.13 m/s	18.47 °C	14
32 x 28 1/2	26.48 kW	26.48 kW	0.02 kW	99.91	0.09	100.00	0.00	3 mm	6	20	6	181.23	6,100 m³/h	5.13 m/s	19.00 °C	15
32 x 28 1/2	28.67 kW	28.67 kW	0.40 kW	96.59	1.41	100.00	0.00	2.8 mm	6	20	5	188.62	6,100 m³/h	5.13 m/s	17.98 °C	14
32 x 28 1/2	27.33 kW	27.33 kW	0.03 kW	99.87	0.13	100.00	0.00	2.8 mm	6	20	6	188.62	6,100 m³/h	5.13 m/s	18.52 °C	14
32 x 28 1/2	25.72 kW	25.72 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	6	20	10	188.62	6,100 m³/h	5.13 m/s	19.42 °C	15
32 x 28 1/2	30.09 kW	29.66 kW	0.42 kW	96.60	1.40	100.00	0.00	2.5 mm	6	20	5	199.79	6,100 m³/h	5.13 m/s	17.18 °C	14
32 x 28 1/2	28.89 kW	28.82 kW	0.07 kW	99.74	0.26	100.00	0.00	2.5 mm	6	20	6	199.79	6,100 m³/h	5.13 m/s	17.66 °C	14

## CONDENSING COIL MODULE

**\* Coil Module - [Condensing, 32 x 28 1/2, 32 x 28 1/2 2OT 6R 520A 2.8P 6NC] (M4)**

Trademark	Friterm 4.0	Air Flow	6,100 m³/h	Fluid Fouling Factor	0
Coil Type	Condensing	Dry Therm.	-12.00 °C	Air Fouling Factor	0
Coil Name *	32 x 28 1/2	Wet Therm.	-12.32 °C	<input type="checkbox"/> Drop Eliminator	
Tube Material	Copper 0,35 mm	Rel. Hum. (%)	90.01	Drop Eliminator Name *	Polypropylene
Fin Material	Aluminium 0,1 mm	<input type="checkbox"/> Use Uncond.Air		Drop Eliminator Distance	150 mm
Fluid Kind	R410A	Evaporation Temp.	8.00 °C	Condensation Temp.	49.00 °C
Connection Material	Default Automatic	Sub Cooling Degree	5.00 °C	Over Heating	5.00 °C
Connection Direction	Right According To Surf...	<input checked="" type="checkbox"/> Condensation Pan	0 mm	<input type="checkbox"/> Bypass Damper	<input type="button" value="Damper"/>
Connection Count	Automatic Automatic	<input type="checkbox"/> Only For Calculation		<input type="button" value="Psychrometric Chart"/>	
Frame Material	Default <input type="checkbox"/> Oblique				
<input type="checkbox"/> Hygienic	<input type="checkbox"/> Blygold Heating				
Center	Middle Center				

Filter Pitch Range (mm)	2.1 3.2	Max.Air Press.Drop	0 Pa	Min.Fld.Vel.	0.0 m/s	Temperature Ra...	0 °C	0 °C	<input type="button" value="Choose"/>
Row Range	3 6	Max.Fluid Press.Drop	0 kPa	Max.Fld.Vel.	0.0 m/s	Capacity Range	0 kW	0 kW	

Capacity	79.81 kW	79.81 kW	Air Velocity	5.13 m/s	Air Pressure Drop	349 Pa	349 Pa	Count	1
Pitch	2.80 mm	Row Count	6	Tube Count	20	Fluid Flow	1,780.41 kg/h		
Circuit Count	6	Entry Conn.Diam.	0.00 mm	Exit Conn.Diam.	35.00 mm	Fluid Vol.Flow	14325.68 dm³/h		
Connection Count	1	Manifold Count	1	Coil Area	35.76 m²	Fluid Velocity	0.6990 m/s		
Width (LL)	520 mm	Height (LH)	635 mm	Length (TR)	215 mm	Fluid Pressure Drop	48.93 kPa		
Dry Therm.	26.55 °C	Wet Therm.	9.52 °C	Rel. Hum. (%)	5.63	Tube Inner Vol.	10.02 L		

<input type="button" value="Add"/>	Custom Size	Service Door	Subtr.Tube Cnt.	<None>
	Coil Width (LL)	<input type="checkbox"/> Service Door <input type="checkbox"/> Opposing Door	Subtract Width	0 mm
	Coil Height (LH)	Type Standard	Circuit Method	Standard
	Max.Coil Height	Position Right	Fixed Fluid Flow	0.00 kg/h
	Coil Count *	Hinge Position Right <input type="checkbox"/> Extended		
	Alignment Default			
	Additional Panel None			

Copy To Other Modules    Special Properties    Ok    Cancel

## CONDENSING COIL MODULE – COILS

Coils																
Coil Name	Capacity	Sensible Capacity	Latent Capacity	Sensible Capacity Ratio (%)	Latent Capacity Ratio (%)	Capacity Ratio (%)	Safety Margin (%)	Pitch	Row Count	Tube Count	Circuit Count	Price (%)	Air Flow	Air Velocity	Dry Thermometer	Wet Thermometer
32 x 28 1/2	42.69 kW	42.69 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	3	20	5	100.00	6,100 m³/h	5.03 m/s	8.62 °C	0
32 x 28 1/2	41.03 kW	41.03 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	3	20	6	100.00	6,100 m³/h	5.03 m/s	7.82 °C	0
32 x 28 1/2	44.44 kW	44.44 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	3	20	5	103.80	6,100 m³/h	5.03 m/s	9.47 °C	1
32 x 28 1/2	42.68 kW	42.68 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	3	20	6	103.80	6,100 m³/h	5.03 m/s	8.62 °C	0
32 x 28 1/2	46.38 kW	46.38 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	3	20	5	105.97	6,100 m³/h	5.03 m/s	10.40 °C	0
32 x 28 1/2	44.57 kW	44.57 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	3	20	6	105.97	6,100 m³/h	5.03 m/s	9.53 °C	1
32 x 28 1/2	49.72 kW	49.72 kW	0.00 kW	100.00	0.00	100.00	0.00	2.5 mm	3	20	5	112.42	6,100 m³/h	5.03 m/s	12.02 °C	2
32 x 28 1/2	47.74 kW	47.74 kW	0.00 kW	100.00	0.00	100.00	0.00	2.5 mm	3	20	6	112.42	6,100 m³/h	5.03 m/s	11.06 °C	2
32 x 28 1/2	55.19 kW	55.19 kW	0.00 kW	100.00	0.00	100.00	0.00	2.1 mm	3	20	5	121.22	6,100 m³/h	5.03 m/s	14.66 °C	4
32 x 28 1/2	52.95 kW	52.95 kW	0.00 kW	100.00	0.00	100.00	0.00	2.1 mm	3	20	6	121.22	6,100 m³/h	5.03 m/s	13.58 °C	3
32 x 28 1/2	64.09 kW	64.09 kW	0.00 kW	100.00	0.00	100.00	0.00	2.5 mm	4	20	5	133.19	6,100 m³/h	5.13 m/s	18.96 °C	6
32 x 28 1/2	56.49 kW	56.49 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	4	20	5	133.33	6,100 m³/h	5.03 m/s	15.29 °C	4
32 x 28 1/2	51.84 kW	51.84 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	4	20	8	133.33	6,100 m³/h	5.03 m/s	13.04 °C	3
32 x 28 1/2	49.07 kW	49.07 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	4	20	10	133.33	6,100 m³/h	5.03 m/s	11.70 °C	2
32 x 28 1/2	59.29 kW	59.29 kW	0.00 kW	100.00	0.00	100.00	0.00	2.5 mm	4	20	8	135.75	6,100 m³/h	5.03 m/s	16.64 °C	5
32 x 28 1/2	58.58 kW	58.58 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	4	20	5	138.39	6,100 m³/h	5.03 m/s	16.30 °C	4
32 x 28 1/2	53.73 kW	53.73 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	4	20	8	138.39	6,100 m³/h	5.03 m/s	13.95 °C	3
32 x 28 1/2	50.82 kW	50.82 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	4	20	10	138.39	6,100 m³/h	5.03 m/s	12.55 °C	2
32 x 28 1/2	60.20 kW	60.20 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	4	20	5	138.63	6,100 m³/h	5.13 m/s	17.08 °C	5
32 x 28 1/2	70.27 kW	70.27 kW	0.00 kW	100.00	0.00	100.00	0.00	2.1 mm	4	20	5	141.17	6,100 m³/h	5.13 m/s	21.95 °C	7
32 x 28 1/2	64.17 kW	64.17 kW	0.00 kW	100.00	0.00	100.00	0.00	2.1 mm	4	20	8	141.17	6,100 m³/h	5.13 m/s	19.00 °C	6
32 x 28 1/2	55.80 kW	55.80 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	4	20	8	141.29	6,100 m³/h	5.03 m/s	14.96 °C	4
32 x 28 1/2	67.01 kW	67.01 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	5	20	5	145.45	6,100 m³/h	5.13 m/s	20.37 °C	6
32 x 28 1/2	59.83 kW	59.83 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	5	20	10	145.45	6,100 m³/h	5.13 m/s	16.90 °C	5
32 x 28 1/2	61.82 kW	61.82 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	5	20	10	151.02	6,100 m³/h	5.13 m/s	17.86 °C	5
32 x 28 1/2	64.00 kW	64.00 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	5	20	10	157.19	6,100 m³/h	5.13 m/s	18.91 °C	6
32 x 28 1/2	67.63 kW	67.63 kW	0.00 kW	100.00	0.00	100.00	0.00	2.5 mm	5	20	10	166.49	6,100 m³/h	5.13 m/s	20.67 °C	6
32 x 28 1/2	75.06 kW	75.06 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	6	20	6	174.54	6,100 m³/h	5.13 m/s	24.26 °C	8
32 x 28 1/2	69.77 kW	69.77 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	6	20	10	174.54	6,100 m³/h	5.13 m/s	21.70 °C	7
32 x 28 1/2	67.31 kW	67.31 kW	0.00 kW	100.00	0.00	100.00	0.00	3.2 mm	6	20	12	174.54	6,100 m³/h	5.13 m/s	20.51 °C	6
32 x 28 1/2	73.32 kW	73.32 kW	0.00 kW	100.00	0.00	100.00	0.00	2.1 mm	5	20	10	176.46	6,100 m³/h	5.13 m/s	23.42 °C	8
32 x 28 1/2	77.32 kW	77.32 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	6	20	6	181.23	6,100 m³/h	5.13 m/s	25.35 °C	9
32 x 28 1/2	71.89 kW	71.89 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	6	20	10	181.23	6,100 m³/h	5.13 m/s	22.73 °C	7
32 x 28 1/2	69.32 kW	69.32 kW	0.00 kW	100.00	0.00	100.00	0.00	3 mm	6	20	12	181.23	6,100 m³/h	5.13 m/s	21.48 °C	7
32 x 28 1/2	79.81 kW	79.81 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	6	20	6	186.62	6,100 m³/h	5.13 m/s	26.55 °C	9
32 x 28 1/2	74.17 kW	74.17 kW	0.00 kW	100.00	0.00	100.00	0.00	2.8 mm	6	20	10	186.62	6,100 m³/h	5.13 m/s	23.83 °C	8
2 sec. 154 ms.																

## STEAM COIL MODULE

**\* Coil Module - [Steam, 32 x 28 1/2, 32 x 28 1/2 20T 3R 460A 2.1P 60NC] (M4)**

Trademark: Termokar

Coil Type: **Steam**

Coil Name: 32 x 28 1/2

Tube Material: Copper 0,35 mm

Fin Material: Aluminium 0,1 mm

Fluid Kind: WATER

Connection Material: Default Automatic

Connection Direction: Right According To Surf...

Connection Count: Automatic Automatic

Frame Material: Default Oblique

Hygienic: Blygold Heating

Center: Middle Center

Air Flow: 6,100 m³/h

Dry Therm.: -12.00 °C

Wet Therm.: -12.32 °C

Rel. Hum. (%): 90.01

Use Uncond. Air: ☐

Saturation Pressure: 1.0000 atm

Sub Cooling Degree: 5.00 °C

Condensation Pan: 0 mm

Bypass Damper: ☐

Only For Calculation: ☐

Psychrometric Chart:

Fluid Fouling Factor: 0

Air Fouling Factor: 0

Drop Eliminator: ☐

Drop Eliminator Name: Polypropylene

Drop Eliminator Distance: 150 mm

Pitch Range (mm): 2.1 3.2 Max. Air Press. Drop: 0 Pa Min. Fld. Vel.: 0.0 m/s Temperature Ra...: 0 °C 0 °C

Row Range: 1 3 Max. Fluid Press. Drop: 0 kPa Max. Fld. Vel.: 0.0 m/s Capacity Range: 0 kW 0 kW

Capacity: 92.66 kW 92.66 kW Air Velocity: 5.80 m/s Air Pressure Drop: 264 Pa 264 Pa Count: 1

Pitch: 2.10 mm Row Count: 3 Tube Count: 20 Fluid Flow: 144,539.87 kg/h

Circuit Count: 60 Entry Conn. Diam.: 133.00 mm Exit Conn. Diam.: 133.00 mm Fluid Vol. Flow: 144560.82 dm³/h

Connection Count: 1 Manifold Count: 1 Coil Area: 20.45 m² Fluid Velocity: 0.0056 m/s

Width (LL): 460 mm Height (LH): 635 mm Length (TR): 320 mm Fluid Pressure Drop: 0.04 kPa

Dry Therm.: 33.46 °C Wet Therm.: 12.31 °C Rel. Hum. (%): 3.84 Tube Inner Vol.: 3.44 L

Custom Size: Coil Width (LL): 0 mm Coil Height (LH): 0 mm Max. Coil Height: 0 mm Coil Count: 1

Service Door: ☐ Service Door ☐ Opposing Door Type: Standard Position: Right Hinge Position: Right Alignment: Default Additional Panel: None

Subtr. Tube Cnt.: <None> Subtract Width: 0 mm Circuit Method: Standard Fixed Fluid Flow: 0.00 kg/h

☐ Extended

Copy To Other Modules Special Properties

Ok Cancel

## STEAM COIL MODULE – COILS

Coil Name	Capacity	Sensible Capacity	Latent Capacity	Sensible Capacity Ratio (%)	Latent Capacity Ratio (%)	Pitch	Row Count	Tube Count	Circuit Count	Price (%)	Air Flow	Air Velocity	Dry Thermometer	Wet Thermometer	Relative Humidity (%)	Air Pressure Drop
32 x 28 1/2	29.48 kW	29.48 kW	0.00 kW	100.00	0.00	3.2 mm	1	20	20	100.00	6,100 m³/h	5.56 m/s	2.46 °C	-2.75 °C	27.02	6
32 x 28 1/2	30.87 kW	30.87 kW	0.00 kW	100.00	0.00	3 mm	1	20	20	103.81	6,100 m³/h	5.56 m/s	3.14 °C	-2.33 °C	25.77	6
32 x 28 1/2	32.46 kW	32.46 kW	0.00 kW	100.00	0.00	2.8 mm	1	20	20	105.73	6,100 m³/h	5.56 m/s	3.92 °C	-1.85 °C	24.48	6
32 x 28 1/2	35.21 kW	35.21 kW	0.00 kW	100.00	0.00	2.5 mm	1	20	20	112.18	6,100 m³/h	5.56 m/s	5.27 °C	-1.04 °C	22.41	7
32 x 28 1/2	38.67 kW	38.67 kW	0.00 kW	100.00	0.00	2.1 mm	1	20	20	115.94	6,100 m³/h	5.80 m/s	6.97 °C	-0.08 °C	19.74	8
32 x 28 1/2	57.42 kW	57.42 kW	0.00 kW	100.00	0.00	2.8 mm	2	20	40	162.12	6,100 m³/h	5.80 m/s	16.17 °C	4.80 °C	10.78	14
32 x 28 1/2	61.80 kW	61.80 kW	0.00 kW	100.00	0.00	2.5 mm	2	20	40	172.01	6,100 m³/h	5.80 m/s	18.32 °C	5.84 °C	9.40	15
32 x 28 1/2	68.97 kW	68.97 kW	0.00 kW	100.00	0.00	2.1 mm	2	20	40	185.50	6,100 m³/h	5.80 m/s	21.84 °C	7.47 °C	7.56	17
32 x 28 1/2	52.57 kW	52.57 kW	0.00 kW	100.00	0.00	3.2 mm	2	20	40	191.67	6,100 m³/h	5.80 m/s	13.79 °C	3.60 °C	12.57	13
32 x 28 1/2	54.88 kW	54.88 kW	0.00 kW	100.00	0.00	3 mm	2	20	40	198.96	6,100 m³/h	5.80 m/s	14.92 °C	4.19 °C	11.77	14
32 x 28 1/2	72.67 kW	72.67 kW	0.00 kW	100.00	0.00	3.2 mm	3	20	60	230.00	6,100 m³/h	5.80 m/s	23.65 °C	8.29 °C	6.79	20
32 x 28 1/2	75.54 kW	75.54 kW	0.00 kW	100.00	0.00	3 mm	3	20	60	238.75	6,100 m³/h	5.80 m/s	25.06 °C	8.91 °C	6.28	21
32 x 28 1/2	78.72 kW	78.72 kW	0.00 kW	100.00	0.00	2.8 mm	3	20	60	243.17	6,100 m³/h	5.80 m/s	26.62 °C	9.56 °C	5.68	22
32 x 28 1/2	84.06 kW	84.06 kW	0.00 kW	100.00	0.00	2.5 mm	3	20	60	258.02	6,100 m³/h	5.80 m/s	29.24 °C	10.65 °C	4.90	23
32 x 28 1/2	92.66 kW	92.66 kW	0.00 kW	100.00	0.00	2.1 mm	3	20	60	278.25	6,100 m³/h	5.80 m/s	33.46 °C	12.31 °C	3.84	26



## STEAMY HUMIDIFIER MODULE

**\* Steamy Humidifier Module - [Standard, 100.00, [110 kg/h / 82.74 kW] x 1] (M7)**

Properties				
Trademark Name *	Standard			
Season	Summer			
Air Flow	6,100 m³/h			
Pressure Drop *	50 Pa			
Capacity *	100.00 kg/h    110.00 kg/h			
Power	82.74 kW			
<input type="checkbox"/> Hygienic				
Air Entrance Values				
Air Density Type	AHU			
Air Density	1.2131 kg/m³			
Dry Thermometer	34.00 °C			
Wet Thermometer	19.84 °C			
Relative Humidity (%)	28.00			
Air Exit Values				
Dry Thermometer	34.00 °C			
Wet Thermometer	27.74 °C			
Relative Humidity (%)	63.19			
Psychrometric Chart				
Condensation Pan				
<input checked="" type="checkbox"/> Condensation Pan	0 mm			
Drop Eliminator				
<input type="checkbox"/> Drop Eliminator	Polypropylene			
Service Door				
<input type="checkbox"/> Service Door	<input type="checkbox"/> Opposing Door			
Type	Standard			
Position	Right			
Hinge Position	Right			
Alignment	Default			
Additional Panel	None			
Electricity				
Voltage *	380			
Phase *	3			
Frequency (Hz) *	50			
Accessories				
Add				
Siphon	1			
Steamy Humidifier Allocations				
Capacity	Count	Total Capacity	Power	Total Power
110.00 kg/h	1	110.00 kg/h	82.74 kW	82.74 kW
		110.00 kg/h	82.74 kW	

Copy To Other Modules    Special Properties    Ok    Cancel

## WATERY HUMIDIFIER MODULE

**\* Watery Humidifier Module - [Standard, Aquapak, SIGMAA54A, 30.00, Humidifier 4] (M7)**

Properties	
Trademark Name *	Standard
Water Pump Trademark Name *	Aquapak
Water Pump Name *	SIGMAA54A
Season	Summer
Air Flow	6,100 m³/h
Pressure Drop *	50 Pa
Capacity *	30.00 kg/h
Humidifier Name *	Humidifier 4
<input type="checkbox"/> Hygienic	


  

Air Entrance Values	
Air Density Type	AHU
Air Density	1.2131 kg/m³
Dry Thermometer	34.00 °C
Wet Thermometer	19.84 °C
Relative Humidity (%)	28.00

Air Exit Values	
Dry Thermometer	24.22 °C
Wet Thermometer	19.84 °C
Relative Humidity (%)	68.14

 Psychrometric Chart

Condensation Pan	
<input checked="" type="checkbox"/> Condensation Pan	0 mm

Drop Eliminator	
<input checked="" type="checkbox"/> Entry Drop Eliminator	<input checked="" type="checkbox"/> Exit Drop Eliminator
Drop Eliminator Name *	Polypropylene

- Service Door
 

<input type="checkbox"/> Service Door	<input type="checkbox"/> Opposing Door
Type	Standard
Position	Right
Hinge Position	Right
Alignment	Default
Additional Panel	None
- Service Door
 





<input type="checkbox"/> Service Door	<input type="checkbox"/> Opposing Door
Type	Standard
Position	Right
Hinge Position	Left
Alignment	Default
Additional Panel	None

Electricity	
Voltage *	380
Phase *	3
Frequency (Hz) *	50

**Accessories**

 Add	  
► Siphon	1

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Ok    Cancel

## EVAPORATIVE HUMIDIFIER MODULE

**\* Evaporative Humidifier Module - [Munters, Celdek 6560, Aquapak, SIGMAA54A] (M7)**

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### Properties

Honeycomb Trademark Name *	Munters
Honeycomb Name *	Celdek 6560
Thickness (mm) *	102
Water Pump Trademark Name *	Aquapak
Water Pump Name *	SIGMAA54A
Season	Summer
Air Flow	6,100 m³/h
Capacity *	30.00 kg/h
<input type="checkbox"/> Hygienic	

---

### Air Entrance Values

Air Density Type	AHU
Air Density	1.2131 kg/m³
Dry Thermometer	34.00 °C
Wet Thermometer	19.84 °C
Relative Humidity (%)	28.00

---

### Air Exit Values

Dry Thermometer	29.21 °C
Wet Thermometer	19.84 °C
Relative Humidity (%)	43.63

---

### Honeycomb Allocations

Width	Height	Count
305 mm	610 mm	2

Count = 2

---

### Condensation Pan

☒ Condensation Pan      0 mm

---

### Drop Eliminator

☐ Drop Eliminator

Drop Eliminator Name \* Polypropylene

Drop Eliminator Distance 150 mm

---

### Electricity

Voltage \* 380

Phase \* 3

Frequency (Hz) \* 50

---

### Service Door

☐ Service Door      ☐ Opposing Door

Type Standard

Position Right

Hinge Position Right

Alignment Default

Additional Panel None

---

### Accessories

- Siphon 1

---

### Psychrometric Chart

Air Velocity \* 4.55 m/s

Efficiency (%) \* 48.89

Pressure Drop \* 60 Pa

---

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## AIR WASHER MODULE

**\* Air Washer Module - [Standard, AMK 11.1, EBARA, 3M 32-200/3.0] (M7)**

<b>Properties</b> Trademark Name * <b>Standard</b> Season <b>Winter</b> Air Flow <b>6,100 m³/h</b> Capacity * <b>0.00 kg/h</b> <input type="checkbox"/> Hygienic		<b>Air Entrance Values</b> Air Density Type <b>AHU</b> Air Density <b>1.2131 kg/m³</b> Dry Thermometer <b>0.53 °C</b> Wet Thermometer <b>-3.96 °C</b> Relative Humidity (%) <b>30.80</b>		<b>1. Service Door</b> <input type="checkbox"/> Service Door <input type="checkbox"/> Opposing Door Type <b>Standard</b> Position <b>Right</b> Hinge Position <b>Right</b> Alignment <b>Default</b> Additional Panel <b>None</b>	
<b>Air Washer</b> Air Washer Name * <b>AMK 11.1</b> Air Washer Width * <b>1010 mm</b> Air Washer Height * <b>1000 mm</b> Air Washer Length * <b>1300 mm</b> Sump Height * <b>300 mm</b> Nozzle Count * <b>4</b> Pressure Drop * <b>189 Pa</b> Water Weight <b>262 kg</b> Additional Weight <b>0 kg</b>		<b>Air Exit Values</b> Dry Thermometer <b>0.53 °C</b> Wet Thermometer <b>-3.96 °C</b> Relative Humidity (%) <b>30.80</b> <b>Psychrometric Chart</b> Condensation Pan <input checked="" type="checkbox"/> Condensation Pan <b>0 mm</b>		<b>2. Service Door</b> <input type="checkbox"/> Service Door <input type="checkbox"/> Opposing Door Type <b>Standard</b> Position <b>Right</b> Hinge Position <b>Left</b> Alignment <b>Default</b> Additional Panel <b>None</b>	
<b>Water Pump</b> Water Pump Trademark Name * <b>EBARA</b> Water Pump Name * <b>3M 32-200/3.0</b> Water Pump Capacity <b>15000 kg/h</b> Water Pump Power <b>3 kW</b> Water Pump Pressure <b>3.5 bar</b> Water Pump Count * <b>1</b>		<b>Drop Eliminator</b> <input checked="" type="checkbox"/> Entry Drop Eliminator <input checked="" type="checkbox"/> Exit Drop Eliminator Drop Eliminator Name * <b>Polypropylene</b>		<b>Electricity</b> Voltage * <b>380</b> Phase * <b>3</b> Frequency (Hz) * <b>50</b>	
		<b>Accessories</b> Add <input type="button" value="Add"/> <input type="button" value="Remove"/> <input type="button" value="Up"/> <input type="button" value="Down"/> <input type="button" value="Delete"/>			

## SINGLE CONNECTION MODULE

**\* Single Connection Module - [Automatic, Gear Damper, Forehead, Top Center, Automatic] (M7)**

**Properties**

Pressure Drop  Damper Control Type

**Connection**

Connection Type   Surface

Alignment

Air Flow \*  Pressure Drop

Width  Height

Air Velocity  Calculated Air Velocity

☐ Entire Surface ☐ Flexible Connector ☐ Edit Values ☐ Filter

**Accessories**

**Condensation Pan**

☐ Condensation Pan

**Service Door**

☒ Service Door ☐ Opposing Door

Type

Position

Hinge Position

Alignment

Additional Panel

## DOUBLE CONNECTION MIXTURE MODULE

**\* Double Connection Mixture Module - [Automatic, Gear Damper, Top, Top Center, Automatic, Gear Damper, Forehead, Top Center, Automatic]...**

Fresh Air	Connection Type	Gear Damper	None	Surface	Top	Automatic	Pressure Drop	0 Pa																			
	Alignment	Top Center	Surface Alignment	Automatic			Damper Control Type	Automatic																			
	Air Flow *	6,100 m³/h	Pressure Drop	10 Pa			Season	Winter / Summer																			
	Width	620 mm	Height	540 mm			<input checked="" type="checkbox"/> Mixture																				
	Air Velocity	5 m/s	Calculated Air Velocity	5.06 m/s			<input type="checkbox"/> Switch Fresh And Return Connection																				
Return Air	Capacity %	50.00	Capacity Effect	None			<input type="checkbox"/> Condensation Pan	0 mm																			
	<input type="checkbox"/> Entire Surface	<input type="checkbox"/> Flexible Connector	<input type="checkbox"/> Edit Values	<input type="checkbox"/> Filter			<input checked="" type="checkbox"/> Service Door	<input type="checkbox"/> Opposing Door																			
	Connection Type	Gear Damper	None	Surface	Forehead	Automatic	Type	Standard																			
	Alignment	Top Center	Surface Alignment	Automatic			Position	Right																			
	Air Flow *	6,100 m³/h	Pressure Drop	10 Pa			Hinge Position	Right																			
Mixture	Width	620 mm	Height	540 mm			Alignment	Default																			
	Air Velocity	5 m/s	Calculated Air Velocity	5.06 m/s			Additional Panel	None																			
	Capacity %	50.00	Capacity Effect	None			<input type="button" value="Add"/> <input type="button" value="Up"/> <input type="button" value="Down"/> <input type="button" value="Delete"/>																				
	<input type="checkbox"/> Entire Surface	<input type="checkbox"/> Flexible Connector	<input type="checkbox"/> Edit Values	<input type="checkbox"/> Filter			<input type="button" value="Psychrometric Chart"/>																				
	<table border="1"> <thead> <tr> <th colspan="2">Winter</th> <th colspan="2">Summer</th> </tr> </thead> <tbody> <tr> <td>Effic. (%)</td> <td>46.83</td> <td>Effic. (%)</td> <td>50.83</td> </tr> <tr> <td>Dry Therm.</td> <td>3.92 °C</td> <td>Dry Therm.</td> <td>28.92 °C</td> </tr> <tr> <td>Wet Therm.</td> <td>3.37 °C</td> <td>Wet Therm.</td> <td>18.34 °C</td> </tr> <tr> <td>Rel. Hum. (%)</td> <td>92.25</td> <td>Rel. Hum. (%)</td> <td>37.39</td> </tr> </tbody> </table>								Winter		Summer		Effic. (%)	46.83	Effic. (%)	50.83	Dry Therm.	3.92 °C	Dry Therm.	28.92 °C	Wet Therm.	3.37 °C	Wet Therm.	18.34 °C	Rel. Hum. (%)	92.25	Rel. Hum. (%)
Winter		Summer																									
Effic. (%)	46.83	Effic. (%)	50.83																								
Dry Therm.	3.92 °C	Dry Therm.	28.92 °C																								
Wet Therm.	3.37 °C	Wet Therm.	18.34 °C																								
Rel. Hum. (%)	92.25	Rel. Hum. (%)	37.39																								



## TRIPLE CONNECTION MIXTURE MODULE

**\* Triple Connection Mixture Module - [Automatic, Gear Damper, Top, Top Center, Automatic, Gear Damper, Middle Center, Gear Damper, Top, ...]**

Fresh Air	Connection Type	Gear Damper	None	Surface	Top	Automatic	Pressure Drop	0 Pa
	Alignment	Top Center	Surface Alignment		Automatic		Damper Control Type	Automatic
	Air Flow	6,100 m³/h	Pressure Drop	10 Pa		Double Air Flow Type	None	
	Width	620 mm	Height	540 mm		Season	Winter / Summer	
	Air Velocity	5 m/s	Calculated Air Velocity	5.06 m/s		Fresh Air Flow *	6,100 m³/h	
Mixture	Capacity %	50.00	Capacity Effect	None		Return Air Flow *	6,100 m³/h	
	<input type="checkbox"/> Entire Surface		<input type="checkbox"/> Flexible Connector		<input type="checkbox"/> Edit Values	<input type="checkbox"/> Switch Fresh And Return Connection		
	Connection Type	Gear Damper	Direction	Automatic		<input checked="" type="checkbox"/> Service Door	<input type="checkbox"/> Opposing Door	
	Alignment	Middle Center	Surface Alignment		Automatic	Type	Standard	
	Air Flow *	6,100 m³/h	Pressure Drop	10 Pa		Position	Right	
Return Air	Width	560 mm	Height	648 mm		Hinge Position	Right	
	Air Velocity	5 m/s	Calculated Air Velocity	4.67 m/s		Alignment	Default	
	Capacity %	50.00	Capacity Effect	None		Additional Panel	None	
	<input type="checkbox"/> Entire Surface		<input type="checkbox"/> Flexible Connector		<input type="checkbox"/> Edit Values	<input checked="" type="checkbox"/> Service Door		
	Connection Type	Gear Damper	Direction	Automatic		Type	Standard	
Co	Alignment	Top Center	Surface Alignment		Automatic	Position	Right	
	Air Flow *	6,100 m³/h	Pressure Drop	10 Pa		Hinge Position	Left	
	Width	620 mm	Height	540 mm		Alignment	Default	
	Air Velocity	5 m/s	Calculated Air Velocity	5.06 m/s		Additional Panel	None	
	Capacity %	50.00	Capacity Effect	None		<input type="button" value="Add"/> <input type="button" value="Up"/> <input type="button" value="Down"/> <input type="button" value="Delete"/>		
<input type="checkbox"/> Entire Surface		<input type="checkbox"/> Flexible Connector		<input type="checkbox"/> Edit Values	<input type="checkbox"/> Service Door			
<input type="checkbox"/> Condensation Pan				0 mm	Accessories			

Psychrometric Chart

Winter		Summer	
Effic. (%)	47.99	Effic. (%)	50.83
Dry Therm.	10.83 °C	Dry Therm.	28.92 °C
Wet Therm.	6.73 °C	Wet Therm.	18.34 °C
Rel. Hum. (%)	57.32	Rel. Hum. (%)	37.39

## PLATE HEAT EXCHANGER MODULE

**\* Plate Heat Exchanger Module - [Automatic] (M1)**

Trademark	Hoval	Fresh Air Flow *	14,000 m³/h	Hoval	
Settlement	Vertical	Return Air Flow *	14,000 m³/h	Product	All
Inner Settlement	Normal	D. Control Type	Automatic	Series	Standard (V)
Season	Winter / Summer	Cross Flow	Yes	Bypass Orientation	None
Max. Pressure Drop	300 Pa	Angle	0	Recirculating Damper	No Recircula...
Min. Effic. (%)	30	Max. Width	0 mm	4 Block Delivery	Assembled
				<input type="checkbox"/> No Bypass Delivery	
				<input type="checkbox"/> Strong Packing	

Winter		Summer	
Fresh Air		Fresh Air	
Dry Therm.	-12.00 °C	Dry Therm.	34.00 °C
Wet Therm.	-12.32 °C	Wet Therm.	19.47 °C
Rel. Hum. (%)	90.00	Rel. Hum. (%)	28.00
Return Air		Return Air	
Dry Therm.	22.00 °C	Dry Therm.	25.00 °C
Wet Therm.	15.34 °C	Wet Therm.	17.76 °C
Rel. Hum. (%)	51.78	Rel. Hum. (%)	51.59

Choice	
Reference	SV-120/-E/1810
Length	1670 mm
Width	1810 mm
Device Count	1
Edge Length	1190 mm
Bypass Width	0 mm
Weight	338.00 kg
Max. Inter. Leak. Rate (%)	1.00
Condensation Pan	1. Part and 2. Part
Filter Exists	None
No DLL Trademark	None
Psychrometric Chart	
Filters	Choose

Winter	Summer
Capacity	120.20 kW
W. Temp. Effic. (%)	83.70
W. Temp. Bal. Effic. (%)	83.70
D. Temp. Effic. (%)	74.10
D. Temp. Bal. Effic. (%)	74.10
ErP Effic. (%)	73.23
Dry Therm.	16.40 °C
Wet Therm.	4.89 °C
Rel. Hum. (%)	10.50
Air Condensation	2.82 L/h
Frosted Surf. (%)	0.00
Air Velocity	1.70 m/s
Pressure Drop	211 Pa
P.D. (1.2kg/m³)	190 Pa
Dry Therm.	3.70 °C
Wet Therm.	3.70 °C
Rel. Hum. (%)	100.00
Air Condensation	58.36 L/h
Frosted Surf. (%)	0.00
Air Velocity	1.70 m/s
Pressure Drop	222 Pa
P.D. (1.2kg/m³)	190 Pa

Accessories	1. Service Door
Add	

Copy To Other Modules   Special Properties   Change Module Type  

Ok   Cancel



## COUNTERFLOW HEAT EXCHANGER MODULE

Counterflow Heat Exchanger Module - [Automatic] (M1)

Trademark	Hoval	Fresh Air Flow *	14,000 m³/h	Hoval	
Settlement	Vertical	Return Air Flow *	14,000 m³/h	Product	G
Inner Settlement	Normal	D.Control Type	Automatic	Series	Standard (V)
Device Settlement	Horizontal	Cross Flow	Yes	Bypass Orientation	None
Season	Winter / Summer	Angle	0	Recirculating Damper	No Recircula...
Max. Pressure Drop	300 Pa	Max. Width	0 mm	4 Block Delivery	Assembled
Min. Effic. (%)	30			<input type="checkbox"/> No Bypass Delivery	
				<input type="checkbox"/> Strong Packing	

Winter

Fresh Air

Dry Therm. -12.00 °C  
Wet Therm. -12.32 °C  
Rel. Hum. (%) 90.00

Return Air

Dry Therm. 22.00 °C  
Wet Therm. 15.43 °C  
Rel. Hum. (%) 51.78

Summer

Fresh Air

Dry Therm. 34.00 °C  
Wet Therm. 19.84 °C  
Rel. Hum. (%) 28.00

Return Air

Dry Therm. 25.00 °C  
Wet Therm. 17.89 °C  
Rel. Hum. (%) 51.59

Choice

Reference

GVC110/P1/1810,G2

Length

1298 mm

Horiz. Edge Len.

246 mm

Width

905 mm

Bypass Width

0 mm

Edge Length

754 mm

Vert. Edge Len.

11 mm

Height

1068 mm

Weight

230.00 kg

Parallel Device Count

2

Serial Device Count

1

Condensation Pan

1. Part and 2...

No DLL Trademark

None

Max. Inter. Leak. Rate (%)

1.00

Psychrometric Chart

Choose

Capacity

118.70 kW

Dry Therm.

16.10 °C

W. Temp. Effic. (%)

82.60

Wet Therm.

4.75 °C

W. Temp. Bal. Eff. (%)

82.60

Rel. Hum. (%)

10.70

D. Temp. Effic. (%)

73.90

Air Condensation

2.81 L/h

D. Temp. Bal. Eff. (%)

73.90

Frosted Surf. (%)

0.00

ErP Effic. (%)

72.47

Air Velocity

2.70 m/s

Supply Air

Pressure Drop

247 Pa

P.D. (1.2kg/m³)

224 Pa

Exhaust Air

Dry Therm.

3.90 °C

Wet Therm.

3.90 °C

Rel. Hum. (%)

100.00

Air Condensation

58.78 L/h

Frosted Surf. (%)

0.00

Air Velocity

2.70 m/s

Pressure Drop

258 Pa

P.D. (1.2kg/m³)

224 Pa

Accessories

1. Service Door

2.

Add

Copy To Other Modules

Special Properties

Change Module Type

Ok

Cancel

SPD SMART  
PROJECT  
designer

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### COUNTERFLOW HEAT EXCHANGER MODULE – DEVICES

Reference	E/P Compliance	Length	Edge Length	Horizontal Edge Length	Vertical Edge Length	Width	Height	Bypass Width	Bypass Air Velocity	Parallel Device Count	Serial Device Count	Max. Inter. Leak. Rate (%)	Weight	Current
GVC110/P1/1810,G2	2016 & 2018	1298 mm	754 mm	246 mm	11 mm	905 mm	1068 mm	0 mm	0.00 m/s	2	1	1.00	230.00 kg	EUR
GVC130/P1/1810,G2	2016 & 2018	1581 mm	954 mm	246 mm	11 mm	905 mm	1350 mm	0 mm	0.00 m/s	2	1	1.00	257.00 kg	EUR
GVC130/P4/1810,G2	2016 & 2018	1581 mm	954 mm	246 mm	11 mm	905 mm	1350 mm	0 mm	0.00 m/s	2	1	1.00	285.00 kg	EUR
GVC150/P1/1810,G2	2016 & 2018	1864 mm	1154 mm	246 mm	11 mm	905 mm	1632 mm	0 mm	0.00 m/s	2	1	1.00	384.00 kg	EUR
GVC150/P4/1810,G2	2016 & 2018	1864 mm	1154 mm	246 mm	11 mm	905 mm	1632 mm	0 mm	0.00 m/s	2	1	1.00	374.00 kg	EUR
GVC170/P1/1810,G2	2016 & 2018	2147 mm	1354 mm	246 mm	11 mm	905 mm	1916 mm	0 mm	0.00 m/s	2	1	1.00	434.00 kg	EUR
GVC170/P4/1810,G2	2016 & 2018	2147 mm	1354 mm	246 mm	11 mm	905 mm	1916 mm	0 mm	0.00 m/s	2	1	1.00	425.00 kg	EUR

### COUNTERFLOW HEAT EXCHANGER MODULE – PREVIOUS SELECTIONS

Company ID	Project ID	Project Name	AHU ID	AHU Name	Trademark	Version	Settlement	Inner Settlement	Device Settlement	Cross Flow	Angle	Season	Fresh Air Flow	Return Air Flow	D. Control Type	Air Dir.
3	3067	Sampeh	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3060	SAMPLE PROJECT (AAidulani3)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3058	SAMPLE PROJECT (parwez8744)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3056	SAMPLE PROJECT (s.alvansaz)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3054	SAMPLE PROJECT (MahdiRanaei1374)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3052	SAMPLE PROJECT (Danish9069)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3051	SAMPLE PROJECT (Danish)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3050	SAMPLE PROJECT (MinaElias)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3045	SAMPLE PROJECT (Javad)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3044	SAMPLE PROJECT (ali)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3042	SAMPLE PROJECT (AMIRSERKAN)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3041	SAMPLE PROJECT (Paulina)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3039	SAMPLE PROJECT (cstolem)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3038	SAMPLE PROJECT (amircleantech)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3033	SAMPLE PROJECT (anees4111)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3027	SAMPLE PROJECT (rfan)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3023	SAMPLE PROJECT (Nader.Mousavi)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3021	SAMPLE PROJECT (KHALED3991)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3020	SAMPLE PROJECT (joseniguel_2035)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3017	SAMPLE PROJECT (kaling)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3016	SAMPLE PROJECT (m.talkhabi)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3014	SAMPLE PROJECT (sarjay)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3009	SAMPLE PROJECT (shiva)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡
3	3008	SAMPLE PROJECT (nadejeh)	10	COUNTERFLOW HEAT RECOVERY (1)	Hoval	2.0.6.0	Vertical	Normal	Horizontal	Yes	0 °	Winter / ...	14,000 m³/h	14,000 m³/h	Automatic	≡

## ROTARY HEAT EXCHANGER MODULE

\* Rotary Heat Exchanger Module - [SC1-SL-WV-1800-SM-WO-DU-0,W1900,H1900] (M1)

Trademark	Hoval	Settlement	Vertical	Min.Effic. (%)	30	Max.Pressure Drop	200 Pa
Fresh Air Flow *	8,000 m³/h	Return Air Flow *	8,000 m³/h	Rpm	15	<input type="checkbox"/> Bypass Damper	<input checked="" type="checkbox"/> Damper
Season	Winter / Summer	<input type="checkbox"/> Frequency Converter					

Hoval

Properties

Accessories

Product	All	Foil Type	All	Foil Material	All	Wave Height	All
Wheel Depth	D 200 mm (L)	Wheel Construction	Optimize	Diameter (mm)	0	Size Step	50 mm
Casing Type	Slide-In Casin...	Motor Position	Without	Purge Angle	No Purge	Rotation Guard	Without
Drive Type	Without	Cable Length	Standard				

Winter

Fresh Air

Return Air

Dry Therm.	-12.00 °C	Dry Therm.	22.00 °C
Wet Therm.	-12.32 °C	Wet Therm.	15.15 °C
Rel. Hum. (%)	90.00	Rel. Hum. (%)	50.00

Summer

Fresh Air

Return Air

Dry Therm.	34.00 °C	Dry Therm.	24.00 °C
Wet Therm.	19.47 °C	Wet Therm.	16.79 °C
Rel. Hum. (%)	28.00	Rel. Hum. (%)	50.00

Reference SC1-SL-WV-1800-SM-WO-DU-0,W1900,H1900

Diameter	1800 mm	Width	1900 mm
Height	1900 mm	Depth	290 mm
Weight	236.00 kg		

Choice

Device Count

1

1

Psychrometric Chart

\* OACF and EATR values can be calculated truly after fans selection.

No DLL Trademark	None	OACF / EATR (%)	1.05	3.82
Condensation Pan	1. Part and 2. Part	Second Rotor Exists	No	
	0 mm	Coil Exists	No	

Second Module

Coil Module

Winter

Summer

Capacity	104.20 kW	Dry Therm.	16.10 °C	Dry Therm.	-6.10 °C
Sensible Capacity	67.90 kW	Wet Therm.	11.32 °C	Wet Therm.	-6.25 °C
Temp. Effic. (%)	82.50	Rel. Hum. (%)	58.00	Rel. Hum. (%)	96.60
Temp. Bal. Eff. (%)	82.50	Air Condensation	0 L/h	Air Condensation	56.39 L/h
Hum. Effic. (%)	76.40	Air Velocity	1.80 m/s	Air Velocity	1.80 m/s
Hum. Bal. Effic. (%)	76.40	Pressure Drop	88 Pa	Pressure Drop	99 Pa
ErP Effic. (%)	81.70	P.D.(1.2kg/m³)	98 Pa	P.D.(1.2kg/m³)	98 Pa

Supply Air

Exhaust Air

Choose

Accessories

1. Service Door

2. ...

Add

Copy To Other Modules

Special Properties

Change Module Type

Ok

Cancel



### ROTARY HEAT EXCHANGER MODULE – DEVICES

Rotary Heat Exchangers															Winter
Reference	E/P Compliance	Diameter	Width	Height	Depth	Weight	Parallel Device Count	Serial Device Count	OACF	EATR (%)	Currency Code	Price (%)	Fresh Air Flow	Return Air Flow	Capacity
SE3-HL-WV-1800-SM-WO-DU-0, W190...	2016	1800 mm	1900 mm	1900 mm	290 mm	181.00 kg	1	1	1.05	3.82	EUR	294.66	8,000 m³/h	8,000 m³/h	90.00 kW
SE3-LL-WV-1600-SM-WO-DU-0, W170...	2016 & 2018	1600 mm	1700 mm	1700 mm	290 mm	182.00 kg	1	1	1.05	3.02	EUR	294.78	8,000 m³/h	8,000 m³/h	97.50 kW
SC1-LL-WV-1700-SM-WO-DU-0, W180...	2016 & 2018	1700 mm	1800 mm	1800 mm	290 mm	189.00 kg	1	1	1.05	3.41	EUR	295.08	8,000 m³/h	8,000 m³/h	98.90 kW
SH1-LL-WV-1750-SM-WO-DU-0, W185...	2016	1750 mm	1850 mm	1850 mm	290 mm	179.00 kg	1	1	1.05	6.02	EUR	295.22	8,000 m³/h	8,000 m³/h	89.10 kW
HM1-LL-WV-1500-SM-WO-DU-0, W160...	Non Compliant	1500 mm	1600 mm	1600 mm	290 mm	146.00 kg	1	1	1.04	4.43	EUR	295.40	8,000 m³/h	8,000 m³/h	89.10 kW
ST1-HL-WV-1350-SP-WO-DU-0, W1490...	Non Compliant	1350 mm	1490 mm	1490 mm	290 mm	142.00 kg	1	1	1.04	2.15	EUR	295.86	8,000 m³/h	8,000 m³/h	77.30 kW
SE3-NL-WV-1150-SP-WO-DU-0, W1290...	Non Compliant	1150 mm	1290 mm	1290 mm	290 mm	131.00 kg	1	1	1.04	1.56	EUR	295.88	8,000 m³/h	8,000 m³/h	79.50 kW
SC1-HL-WV-1200-SP-WO-DU-0, W1340...	Non Compliant	1200 mm	1340 mm	1340 mm	290 mm	126.00 kg	1	1	1.04	1.70	EUR	296.10	8,000 m³/h	8,000 m³/h	69.90 kW
SE3-HL-WV-1250-SP-WO-DU-0, W1390...	Non Compliant	1250 mm	1390 mm	1390 mm	290 mm	134.00 kg	1	1	1.04	1.84	EUR	296.28	8,000 m³/h	8,000 m³/h	72.10 kW
ST1-NL-WV-1250-SP-WO-DU-0, W1390...	2016	1250 mm	1390 mm	1390 mm	290 mm	139.00 kg	1	1	1.04	1.84	EUR	296.32	8,000 m³/h	8,000 m³/h	86.40 kW
ST2-LL-WV-1500-SM-WO-DU-0, W160...	2016 & 2018	1500 mm	1600 mm	1600 mm	290 mm	192.00 kg	1	1	1.05	2.66	EUR	296.45	8,000 m³/h	8,000 m³/h	92.90 kW
Can be ordered until: 11/30/2022															
SH1-LL-WV-1700-SM-WO-DU-0, W180...	2016 & 2018	1700 mm	1800 mm	1800 mm	290 mm	199.00 kg	1	1	1.05	5.68	EUR	296.91	8,000 m³/h	8,000 m³/h	95.50 kW
SE3-NL-WV-1750-SM-WO-DU-0, W185...	2016 & 2018	1750 mm	1850 mm	1850 mm	290 mm	200.00 kg	1	1	1.05	3.41	EUR	297.90	8,000 m³/h	8,000 m³/h	97.00 kW
ST2-LL-WV-1600-SM-WO-DU-0, W170...	2016	1600 mm	1700 mm	1700 mm	290 mm	182.00 kg	1	1	1.05	3.02	EUR	297.44	8,000 m³/h	8,000 m³/h	86.40 kW
Can be ordered until: 11/30/2022															
ST1-HL-WV-1900-SM-WO-DU-0, W200...	2016 & 2018	1900 mm	2000 mm	2000 mm	290 mm	184.00 kg	1	1	1.05	4.26	EUR	297.69	8,000 m³/h	8,000 m³/h	94.60 kW
ST1-LL-WV-1700-SM-WO-DU-0, W180...	2016 & 2018	1700 mm	1800 mm	1800 mm	290 mm	201.00 kg	1	1	1.05	3.41	EUR	297.90	8,000 m³/h	8,000 m³/h	107.50 kW
ST2-LL-WV-1400-SM-WO-DU-0, W150...	2016 & 2018	1400 mm	1500 mm	1500 mm	290 mm	183.00 kg	1	1	1.05	2.31	EUR	298.85	8,000 m³/h	8,000 m³/h	92.90 kW
Can be ordered until: 11/30/2022															
SC1-SL-WV-1500-SM-WO-DU-0, W160...	2016 & 2018	1500 mm	1600 mm	1600 mm	290 mm	170.00 kg	1	1	1.05	2.66	EUR	299.39	8,000 m³/h	8,000 m³/h	99.40 kW
HM1-LL-WV-1350-SM-WO-DU-0, W145...	2016 & 2018	1350 mm	1450 mm	1450 mm	290 mm	153.00 kg	1	1	1.04	3.58	EUR	300.11	8,000 m³/h	8,000 m³/h	97.50 kW
(W3) Pressure drop is high, can affect running and operational costs negatively															
HM1-NL-WV-1450-SM-WO-DU-0, W155...	2016 & 2018	1450 mm	1550 mm	1550 mm	290 mm	162.00 kg	1	1	1.04	4.14	EUR	300.20	8,000 m³/h	8,000 m³/h	96.00 kW
SH1-HL-WV-1200-SP-WO-DU-0, W1340...	Non Compliant	1200 mm	1340 mm	1340 mm	290 mm	130.00 kg	1	1	1.04	2.83	EUR	300.57	8,000 m³/h	8,000 m³/h	71.10 kW
SE3-LL-WV-1550-SM-WO-DU-0, W165...	2016 & 2018	1550 mm	1650 mm	1650 mm	290 mm	188.00 kg	1	1	1.05	2.84	EUR	300.64	8,000 m³/h	8,000 m³/h	103.20 kW
ST3-BL-WV-1950-SM-WO-DU-0, W205...	2016 & 2018	1950 mm	2050 mm	2050 mm	290 mm	164.00 kg	1	1	1.05	7.48	EUR	300.72	8,000 m³/h	8,000 m³/h	93.60 kW
Can be ordered until: 11/30/2022															
ST1-NL-WV-1850-SM-WO-DU-0, W195...	2016 & 2018	1850 mm	1950 mm	1950 mm	290 mm	201.00 kg	1	1	1.05	4.04	EUR	300.78	8,000 m³/h	8,000 m³/h	101.50 kW
ST1-LL-WV-1750-SM-WO-DU-0, W185...	2016 & 2018	1750 mm	1850 mm	1850 mm	290 mm	194.00 kg	1	1	1.05	3.61	EUR	300.89	8,000 m³/h	8,000 m³/h	103.00 kW
SC1-LL-WV-1550-SM-WO-DU-0, W165...	2016 & 2018	1550 mm	1650 mm	1650 mm	290 mm	170.00 kg	1	1	1.05	2.84	EUR	301.07	8,000 m³/h	8,000 m³/h	99.40 kW
ST3-PL-WV-1700-SM-WO-DU-0, W180...	2016 & 2018	1700 mm	1800 mm	1800 mm	290 mm	167.00 kg	1	1	1.05	5.68	EUR	303.31	8,000 m³/h	8,000 m³/h	109.90 kW
Can be ordered until: 11/30/2022															
SH1-SL-WV-1500-SM-WO-DU-0, W160...	2016 & 2018	1500 mm	1600 mm	1600 mm	290 mm	180.00 kg	1	1	1.05	4.43	EUR	303.66	8,000 m³/h	8,000 m³/h	97.70 kW
SH1-LL-WV-1550-SM-WO-DU-0, W165...	2016 & 2018	1550 mm	1650 mm	1650 mm	290 mm	179.00 kg	1	1	1.05	4.73	EUR	304.66	8,000 m³/h	8,000 m³/h	96.30 kW
ST1-NL-WV-1300-SP-WO-DU-0, W1440...	2016	1300 mm	1440 mm	1440 mm	290 mm	147.00 kg	1	1	1.04	1.99	EUR	304.96	8,000 m³/h	8,000 m³/h	88.40 kW

### ROTARY HEAT EXCHANGER MODULE – PREVIOUS SELECTIONS

Rotary Heat Exchanger Modules															Properties
Company ID	Project ID	Project Name	AHU ID	AHU Name	Trademark	Version	Settlement	Season	Fresh Air Flow	Return Air Flow	Rpm	Bypass Damper	Second Rotor Exists	Coil Exists	Frequency Converter
3	3067	Sampel	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3060	SAMPLE PROJECT (Aakulani3)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3058	SAMPLE PROJECT (parwez8744)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3056	SAMPLE PROJECT (s.alvansaz)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3054	SAMPLE PROJECT (MahdiRanaei1374)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3052	SAMPLE PROJECT (Danish9069)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3051	SAMPLE PROJECT (Danish)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3050	SAMPLE PROJECT (MinaElias)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3045	SAMPLE PROJECT (Javad)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3044	SAMPLE PROJECT (ali)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3042	SAMPLE PROJECT (AMIRSERKAN)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3041	SAMPLE PROJECT (Paulina)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3039	SAMPLE PROJECT (cstole)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3038	SAMPLE PROJECT (amircondelantech)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3036	CREST DAHU	1	DAHU-1	Recupera...	18.03.0008	Vertical	Winter / ...	19,555 m³/h	19,555 m³/h	10	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3035	Ashorian Mall	1	AHU's 1-4	Recupera...	18.03.0008	Vertical	Winter / ...	7,750 m³/h	3,875 m³/h	10	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3033	SAMPLE PROJECT (anees4111)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3027	SAMPLE PROJECT (rfan)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3023	SAMPLE PROJECT (Nader.Mousavi)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3021	SAMPLE PROJECT (KHALED3991)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3020	SAMPLE PROJECT (josemiguel_2035)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3017	SAMPLE PROJECT (kaling)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3016	SAMPLE PROJECT (n.talkhabi)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3014	SAMPLE PROJECT (sanjar)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>
3	3009	SAMPLE PROJECT (dhuu)	6	ROTARY HEAT RECOVERY	Recupera...	18.03.0008	Vertical	Winter / ...	8,000 m³/h	8,000 m³/h	15	<input type="checkbox"/>	No	No	<input type="checkbox"/>

## RUN AROUND COIL HEAT EXCHANGER MODULE

Run Around Coil Heat Exchanger Module - [32 x 28 1/2, Aluminium, 32 x 28 1/2 24T 8R 1726A 2.5P 4NC, 32 x 28 1/2 24T 8R 1726A 2.5P 4NC] (M1)																											
Trademark		Friterm 4.0		<input type="checkbox"/> Double Layer		0 mm Settlement		Vertical		Fluid In Temperature		13.99 °C		Fluid In Temperature		26.36 °C											
Coil Name *		32 x 28 1/2		<input checked="" type="checkbox"/> Connection Material		Default		Automatic		Frame Material		Default		Fluid Out Temperature		-4.71 °C											
Fluid Kind		ETHYLENE GLYCOL		<input type="checkbox"/> % 40		Fin Material		Aluminium		Fin Thickness (mm)		0,1 mm		Fixed Fluid Flow		0.00 kg/h											
Season		Winter / Summer		Tube Material		Copper		Tube Thickness (mm)		0,35 mm		Fluid Fouling Factor		0		Air Fouling Factor		0									
Air Flow *		22,000 m³/h		Pitch Selection Type		Pitch Range (mm)		2.5		2.5		Center		<input checked="" type="checkbox"/> Middle Center		<input checked="" type="checkbox"/> Condensation Pan		0 mm									
Connection Direction		Right		Accord...		Row Selection Type		Row Range		8		8		Dry Therm.		-12.00 °C		Dry Therm.		34.00 °C							
Circuit Method		Standard		Subtract Tube Count		<None>		0 mm		<input checked="" type="checkbox"/> Drop Eliminator		Winter		Wet Therm.		-12.32 °C		Wet Therm.		19.47 °C							
<input checked="" type="checkbox"/> Hygienic		<input type="checkbox"/> Blygold		<input type="checkbox"/> Oblique		Connection Count		Automatic		0 kPa		Winter		Rel. Hum. (%)		90.00		Summer		Rel. Hum. (%)		28.00					
Air Velocity		2.32 m/s		Air Pressure Drop		121 Pa		Count		2		Capacity		130.55 kW		Air Cond.		4.45 L/h		Capacity		36.47 kW		Air Cond.		0 L/h	
Pitch		2.50 mm		Row Count		8		Tube Count		24		D.Temp.Effic.(%)		51.43		Fluid Flow		3,678.3 kg/h		D.Temp.Effic.(%)		57.33		Fluid Flow		3,411.6 kg/h	
Circuit Count		4		Entry Conn.Diam.		42.20 mm		Exit Conn.Diam.		42.20 mm		Dry Therm.		5.49 °C		Fluid Vol.Flow		3463.1 dm³/h		Dry Therm.		28.27 °C		Fluid Vol.Flow		3227.1 dm³/h	
Connection Count		1		Coil Area		211.12 m²		Tube Inner Vol.		88.66 L		Wet Therm.		-0.96 °C		Fluid Velocity		1.9599 m/s		Wet Therm.		18.13 °C		Fluid Velocity		1.8265 m/s	
Width		1726 mm		Height		762 mm		Length		285 mm		Winter		Rel. Hum. (%)		21.68		Fld. Press.Drop		Summer		38.81		Fld. Press.Drop		454.50 kPa	
Air Flow *		20,000 m³/h		Pitch Selection Type		Pitch Range (mm)		2.5		2.5		Center		<input checked="" type="checkbox"/> Middle Center		<input checked="" type="checkbox"/> Condensation Pan		0 mm									
Connection Direction		Right		Accord...		Row Selection Type		Row Range		8		8		Dry Therm.		22.00 °C		Dry Therm.		24.00 °C							
Circuit Method		Standard		Subtract Tube Count		<None>		0 mm		<input checked="" type="checkbox"/> Drop Eliminator		Winter		Wet Therm.		15.06 °C		Wet Therm.		16.68 °C							
<input checked="" type="checkbox"/> Hygienic		<input type="checkbox"/> Blygold		<input type="checkbox"/> Oblique		Connection Count		Automatic		0 kPa		Winter		Rel. Hum. (%)		50.00		Summer		Rel. Hum. (%)		50.00					
Air Velocity		2.11 m/s		Air Pressure Drop		109 Pa		Count		2		Capacity		136.82 kW		Air Cond.		59.67 L/h		Capacity		36.13 kW		Air Cond.		0.0012 L/h	
Pitch		2.50 mm		Row Count		8		Tube Count		24		D.Temp.Effic.(%)		46.71		Fluid Flow		3,678.3 kg/h		D.Temp.Effic.(%)		60.43		Fluid Flow		3,411.6 kg/h	
Circuit Count		4		Entry Conn.Diam.		42.2 mm		Exit Conn.Diam.		42.2 mm		Dry Therm.		6.12 °C		Fluid Vol.Flow		3443.1 dm³/h		Dry Therm.		30.04 °C		Fluid Vol.Flow		3235.1 dm³/h	
Connection Count		1		Coil Area		211.12 m²		Tube Inner Vol.		88.66 L		Wet Therm.		5.96 °C		Fluid Velocity		1.9486 m/s		Wet Therm.		18.68 °C		Fluid Velocity		1.8308 m/s	
Width		1726 mm		Height		762 mm		Length		285 mm		Winter		Rel. Hum. (%)		97.96		Fld. Press.Drop		Summer		35.07		Fld. Press.Drop		454.03 kPa	
<input type="checkbox"/> Bypass Damper		<input checked="" type="checkbox"/> Damper		<input type="checkbox"/> Extended		<input type="checkbox"/> Service Door		<input type="checkbox"/> Opposing Door		<input type="checkbox"/> Service Door		<input type="checkbox"/> Opposing Door		Coil Width		0 mm											
Add		Drop Elim.Name *		Polypropylene		Type		Standard		Type		Standard		Coil Height		0 mm											
Drop		Drop Elim.Distance		150 mm		Position		Right		Position		Right		Max.Coil Height		0 mm											

## RUN AROUND COIL HEAT EXCHANGER MODULE – DEVICES

Run Around Coil Heat Exchangers

Supply Air

ErP Compliance

Coil Name

Pitch

Row Count

Tube Count

Circuit Count

Price (%)

Air Flow

Air Velocity

Non Compliant

32 x 28 1/2

2.5 mm

8

24

4

100.00

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

8

24

6

100.00

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

8

24

8

100.58

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

8

24

12

100.58

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

8

24

16

100.58

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

8

24

24

100.58

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

8

24

32

100.58

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

9

24

6

112.50

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

9

24

9

113.15

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

9

24

12

113.15

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

9

24

18

113.15

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

9

24

27

113.15

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

9

24

36

113.15

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

10

24

5

125.00

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

10

24

6

125.00

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

10

24

8

125.00

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

10

24

10

125.72

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

10

24

12

125.72

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

10

24

15

125.72

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

10

24

20

125.72

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

10

24

24

125.72

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

10

24

30

125.72

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

11

24

6

137.50

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

11

24

11

138.30

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

11

24

12

138.30

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

11

24

22

138.30

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

11

24

33

138.30

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

12

24

6

150.00

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

12

24

8

150.00

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

12

24

9

150.00

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

12

24

12

150.87

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

12

24

16

150.87

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

12

24

18

150.87

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

12

24

24

150.87

22,000 m³/h

Non Compliant

32 x 28 1/2

2.5 mm

12

24

36

150.87

22,000 m³/h

Exhaust Air

Coil Name

Pitch

Row Count

Tube Count

Circuit Count

Price (%)

Air Flow

Air Velocity

Air Pressure Drop

Dry Air

32 x 28 1/2

2.5 mm

8

24

4

100.00

20,000 m³/h

2.11 m/s

109 Pa

32 x 28 1/2

2.5 mm

8

24

6

100.00

20,000 m³/h

2.11 m/s

108 Pa

32 x 28 1/2

2.5 mm

8

24

8

100.58

20,000 m³/h

2.10 m/s

100 Pa

32 x 28 1/2

2.5 mm

8

24

12

100.58

20,000 m³/h

2.10 m/s

92 Pa

32 x 28 1/2

2.5 mm

8

24

16

100.58

20,000 m³/h

2.10 m/s

90 Pa

32 x 28 1/2

2.5 mm

8

24

24

100.58

20,000 m³/h

2.10 m/s

87 Pa

32 x 28 1/2

2.5 mm

8

24

32

100.58

20,000 m³/h

2.10 m/s

86 Pa

32 x 28 1/2

2.5 mm

9

24

6

112.50

20,000 m³/h

2.11 m/s

123 Pa

32 x 28 1/2

2.5 mm

9

24

9

113.15

20,000 m³/h

2.10 m/s

113 Pa

32 x 28 1/2

2.5 mm

9

24

12

113.15

20,000 m³/h

2.10 m/s

106 Pa

32 x 28 1/2

2.5 mm

9

24

18

113.15

20,000 m³/h

2.10 m/s

103 Pa

32 x 28 1/2

2.5 mm

9

24

27

113.15

20,000 m³/h

2.10 m/s

100 Pa

32 x 28 1/2

2.5 mm

9

24

36

113.15

20,000 m³/h

2.10 m/s

98 Pa

32 x 28 1/2

2.5 mm

10

24

5

125.00

20,000 m³/h

2.11 m/s

139 Pa

32 x 28 1/2

2.5 mm

10

24

6

125.00

20,000 m³/h

2.11 m/s

136 Pa

32 x 28 1/2

2.5 mm

10

24

8

125.00

20,000 m³/h

2.11 m/s

136 Pa

32 x 28 1/2

2.5 mm

10

24

10

125.72

20,000 m³/h

2.10 m/s

127 Pa

32 x 28 1/2

2.5 mm

10

24

12

125.72

20,000 m³/h

2.10 m/s

121 Pa

32 x 28 1/2

2.5 mm

10

24

15

125.72

20,000 m³/h

2.10 m/s

119 Pa

32 x 28 1/2

2.5 mm

10

24

20

125.72

20,000 m³/h

2.10 m/s

116 Pa

32 x 28 1/2

2.5 mm

10

24

24

125.72

20,000 m³/h

2.10 m/s

114 Pa

32 x 28 1/2

2.5 mm

10

24

30

125.72

20,000 m³/h

2.10 m/s

112 Pa

32 x 28 1/2

2.5 mm

11

24

6

137.50

20,000 m³/h

2.11 m/s

154 Pa

32 x 28 1/2

2.5 mm

11

24

11

138.30

20,000 m³/h

2.10 m/s

140 Pa

32 x 28 1/2

2.5 mm

11

24

12

138.30

20,000 m³/h

2.10 m/s

137 Pa

32 x 28 1/2

2.5 mm

11

24

22

138.30

20,000 m³/h

2.10 m/s

130 Pa

32 x 28 1/2

2.5 mm

11

24

33

138.30

20,000 m³/h

2.10 m/s

126 Pa

32 x 28 1/2

2.5 mm

12

24

6

150.00

20,000 m³/h

2.11 m/s

169 Pa

32 x 28 1/2

2.5 mm

12

24

8

150.00

20,000 m³/h

2.11 m/s

168 Pa

32 x 28 1/2

2.5 mm

12

24

9

150.00

20,000 m³/h

2.11 m/s

167 Pa

32 x 28 1/2

2.5 mm

12

24

12

150.87

20,000 m³/h

2.10 m/s

154 Pa

32 x 28 1/2

2.5 mm

12

24

16

150.87

20,000 m³/h

2.10 m/s

149 Pa

32 x 28 1/2

2.5 mm

12

24

18

150.87

20,000 m³/h

2.10 m/s

147 Pa

32 x 28 1/2

2.5 mm

12

24

24

150.87

20,000 m³/h

2.10 m/s

144 Pa

32 x 28 1/2

2.5 mm

12

24

36

150.87

20,000 m³/h

2.10 m/s

140 Pa

OK

Cancel

1 sec. 609 ms.

### RUN AROUND COIL HEAT EXCHANGER MODULE – PREVIOUS SELECTIONS

Run Around Coil Heat Exchanger Modules

File Edit Appearance Help

## HORSE SHOE HEAT PIPE MODULE

**Heat Pipe Dehumidifier Module - [32 x 28 1/2, 32 x 28 1/2 24T 1R 1139A 2.1P 24NC] (M6)**

**Trademark:** Friterm

**Coil Name \*** 32 x 28 1/2

**Tube Material:** Copper 0,35 mm

**Fin Material:** Epoxy Coated Aluminum 0,1 mm

**Fluid Kind:** R134A

**Frame Material:** Default

**Adiabatic Length:** 360 mm

**Center:** Middle Center

☒ Hygienic ☐ Blygold

**Pitch Selection Type:** Pitch (mm) 2.1

**Row Selection Type:** Row 1

**Coil Exists:** Yes **Coil Module:**

**Efficiency (%)** 12.13 **Fluid Temperature** 22.91 °C

Dry Therm.	31.40 °C	Dry Air Pressure Drop	13 Pa	Dry Therm.	16.43 °C	Dry Air Pressure Drop	12 Pa
Wet Therm.	19.08 °C	Air Condensation	0.0005 L/h	Wet Therm.	13.89 °C	Air Condensation	0.0001 L/h
Rel. Hum. (%)	32.40	Fluid Flow	91.43 kg/h	Rel. Hum. (%)	77.00	Fluid Flow	91.43 kg/h
Capacity	4.58 kW	Fluid Vol.Flow	3017.74 dm³/h	Capacity	4.58 kW	Fluid Vol.Flow	3017.73 dm³/h
Sensible Capacity	4.58 kW	Fluid Velocity	0.0071 m/s	Sensible Capacity	4.58 kW	Fluid Velocity	0.0071 m/s
Air Pressure Drop	13 Pa	Fluid Pressure Drop	1.93 kPa	Air Pressure Drop	12 Pa	Fluid Pressure Drop	1.01 kPa

**Pitch:** 2.10 mm **Row Count:** 1 **Tube Count:** 24 **Circuit Count:** 24

**Coil Area:** 41.05 m² **Width (LL):** 1139 mm **Height (LH):** 762 mm **Length (TR):** 110 mm

**Weight:** 24.63 kg **Tube Inner Vol.:** 7.24 L **Air Velocity:** 1.95 m/s **Count:** 1

**Coil Width (LL):** 0 mm **Coil Height (LH):** 0 mm **Max. Coil Height:** 0 mm **Coil Count \*** 1

☒ Service Door ☐ Opposing Door

**Type:** Standard **Position:** Right **Hinge Position:** Right **Alignment:** Default **Additional Panel:** None

**Subtr. Tube Cnt.:** <None> **Subtract Width:** 0 mm

**Copy To Other Modules** **Special Properties** **Ok** **Cancel**

### HORSE SHOE HEAT PIPE MODULE – COIL

**Heat Pipe Dehumidifier Coil Module - [DX, 32 x 28 1/2, 32 x 28 1/2 2BT 4R 1134A 2.1P 7NC] (M6)**

**Trademark:** Friterm 4.0

**Coil Type:** DX

**Coil Name \*:** 32 x 28 1/2

**Tube Material:** Copper 0,35 mm

**Fin Material:** Aluminium 0,1 mm

**Fluid Kind:** R410A

**Connection Material:** Default Automatic

**Connection Direction:** Right According To Surf...

**Connection Count:** Automatic Automatic

**Frame Material:** Default Oblique

☐ Hygienic ☐ Blygold

**Air Flow:** 6,100 m³/h

**Dry Therm.:** 31.40 °C

**Wet Therm.:** 19.08 °C

**Rel. Hum. (%):** 32.40

**Evaporation Temp.:** 8.00 °C

**Sub Cooling Degree:** 7.00 °C

**Condensation Temp.:** 49.00 °C

**Over Heating:** 5.00 °C

**Fluid Fouling Factor:** 0

**Air Fouling Factor:** 0

☐ Only For Calculation

**Psychrometric Chart**

**Pitch Range (mm):** 2.1 3.2 Max. Air Press. Drop 0 Pa Min. Fld. Vel. 0.0 m/s Temperature 14 °C

**Row Range:** 3 6 Max. Fluid Press. Drop 0 kPa Max. Fld. Vel. 0.0 m/s Capacity Range 0 kW 0 kW

**Capacity:** 33.56 kW 30.96 kW

**Air Velocity:** 1.68 m/s

**Air Pressure Drop:** 42 Pa 38 Pa

**Count:** 1

**Pitch:** 2.10 mm

**Row Count:** 4

**Tube Count:** 28

**Fluid Flow:** 755.97 kg/h

**Circuit Count:** 7

**Entry Conn. Diam.:** 19.00 mm

**Exit Conn. Diam.:** 35.00 mm

**Fluid Vol. Flow:** 19968.32 dm³/h

**Connection Count:** 1

**Manifold Count:** 1

**Coil Area:** 95.36 m²

**Fluid Velocity:** 0.2924 m/s

**Width (LL):** 1134 mm

**Height (LH):** 889 mm

**Length (TR):** 145 mm

**Fluid Pressure Drop:** 21.78 kPa

**Dry Therm.:** 14.00 °C

**Wet Therm.:** 12.79 °C

**Rel. Hum. (%):** 87.99

**Tube Inner Vol.:** 17.58 L

**Custom Size**

**Coil Width (LL):** 0 mm

**Coil Height (LH):** 0 mm

**Max. Coil Height:** 0 mm

**Coil Count \*:** 1

**Subtr. Tube Cnt.:** <None>

**Subtract Width:** 0 mm

**Circuit Method:** Standard

**Fixed Fluid Flow:** 0.00 kg/h

☐ Extended

**Close**

### HORSE SHOE HEAT PIPE MODULE – PREVIOUS SELECTIONS

Heat Pipe Dehumidifier Modules

File Edit Appearance Help

Last 5000 record listed. If the record you want to open is not exist in the list you can filter.

Company ID	Project ID	Project Name	AHU ID	AHU Name	Edit Values	Hygienic	Blygold	Subtr. Tube Cnt.	Subtract Width	Alignment	Surface Alignment	Adiabatic Length	Coil Exists	Trademark	Version	Coil Name
3	3049	CREST AHU	1	fdt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<None>	0 mm	Center	Middle Center	360 mm	No	Friterm	4.5.6.0	32 x 28 1/2
3	3049	CREST AHU	2	AHU-AMBL-2022082301	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<None>	0 mm	Center	Middle Center	360 mm	Yes	Friterm	4.5.6.0	38 x 33 5/8
3	3049	CREST AHU	3	GHL-AHU-20220823-01	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<None>	0 mm	Center	Middle Center	360 mm	Yes	Colis32	1.01	38 x 33 5/8
3	3049	CREST AHU	4	GHL-AHU-20220823-02	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<None>	0 mm	Center	Middle Center	360 mm	Yes	Colis32	1.01	38 x 33 5/8
3	3049	CREST AHU	6	AHU-AMBL-2022082302	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<None>	0 mm	Center	Middle Center	360 mm	Yes	Friterm	4.5.6.0	38 x 33 5/8
3	2851	31313test313	1	33232	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<None>	0 mm	Center	Middle Center	360 mm	No	Friterm	4.5.6.0	40 x 35 5/8
3	2434	Dx & CHW AHU (CSUNIT) HEAT PIPE	2	CHW-AHU-01 - 7600 CFM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<None>	0 mm	Center	Middle Center	360 mm	No	Friterm	4.5.4.0	25 x 22 3/8 C S
3	2281	4550-AHU-Desiccant	1	AHU-02	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<None>	0 mm	Center	Middle Center	360 mm	Yes	Friterm	4.5.4.0	40 x 35 5/8
3	2215	testproject1	1	testsantral1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<None>	0 mm	Center	Middle Center	360 mm	No	Friterm	4.5.4.0	40 x 35 5/8
3	862	SAMPLE PROJECT	8	HORSE SHOE HEAT PIPE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<None>	0 mm	Center	Middle Center	360 mm	Yes	Friterm	4.5.6.0	32 x 28 1/2

Filter <Friterm> 1 / 10 162 ms

## SILENCER MODULE

\* Silencer Module - [22, 200d 100s 4n 1000L 990H 1309A] (M7)

Air Flow

6100 m³/h

Settlement

Vertical

Acoustical Insulation (250 Hz) \*

22 dB

Choose

Properties

Width \*

1309 mm

Height \*

990 mm

Length \*

1000 mm

Thickness \*

200 mm

Pitch \*

100 mm

Air Velocity \*

3.27 m/s

Pressure Drop \*

11 Pa

Count \*

4

Notation \*

200d 100s 4n 1000L 990H 1309A

☐ Hygienic

Accessories

Add

Condensation Pan

☐ Condensation Pan

Condensation Pan Length

0 mm

Service Door

☐ Service Door

☐ Opposing Door

Type

Standard

Position

Right

Hinge Position

Right

Alignment

Default

Additional Panel

None

Copy To Other Modules

Special Properties

Ok

Cancel



## SILENCER MODULE – SLENCERS

Silencers												
File Edit Appearance Help												
✓ Choose ✕ Close (List)												
Acoustical Insulation (250 Hz)	Width	Height	Length	Thickness	Pitch	Acoustical Insulation At 63 Hz dB	Acoustical Insulation At 125 Hz dB	Acoustical Insulation At 250 Hz dB	Acoustical Insulation At 500 Hz dB	Acoustical Insulation At 1000 Hz dB	Acoustical Insulation At 2000 Hz dB	Acoustical Insulation At 4000 Hz dB
22 dB	1309 mm	990 mm	1000 mm	200 mm	100 mm	4.40	6.60	22.00	20.53	23.47		
27 dB	1309 mm	990 mm	1500 mm	200 mm	100 mm	5.40	8.10	27.00	25.20	28.80		
27 dB	1309 mm	990 mm	1500 mm	200 mm	120 mm	5.40	8.10	27.00	25.20	28.80		
32 dB	1309 mm	990 mm	1500 mm	200 mm	100 mm	6.40	9.60	32.00	29.87	34.13		
36 dB	1309 mm	990 mm	2000 mm	200 mm	100 mm	7.20	10.80	36.00	33.60	38.40		
36 dB	1309 mm	990 mm	2000 mm	200 mm	120 mm	7.20	10.80	36.00	33.60	38.40		
42 dB	1309 mm	990 mm	2000 mm	200 mm	100 mm	8.40	12.60	42.00	39.20	44.80		
43 dB	1309 mm	990 mm	2500 mm	200 mm	100 mm	8.60	12.90	43.00	40.13	45.87		
43 dB	1309 mm	990 mm	2500 mm	200 mm	120 mm	8.60	12.90	43.00	40.13	45.87		
50 dB	1309 mm	990 mm	2500 mm	200 mm	100 mm	10.00	15.00	50.00	46.67	53.33		

## VERTICAL MIXTURE MODULE

**\* Vertical Mixture Module - [Automatic, Right, Gear Damper, Forehead, Top Center, Automatic, Gear Damper, Middle Center, Gear Damper, For...**

<b>Connection Type</b> Gear Damper <input type="checkbox"/> None <input type="checkbox"/> Surface <b>Alignment</b> <input checked="" type="checkbox"/> Top Center <input type="checkbox"/> Surface Alignment <b>Air Flow *</b> 6,100 m³/h <b>Width</b> 1234 mm <input type="checkbox"/> <b>Height</b> 324 mm <input type="checkbox"/> <b>Air Velocity</b> 5 m/s <b>Calculated Air Velocity</b> 4.24 m/s <b>Capacity %</b> 50.00 <b>Capacity Effect</b> None <input type="checkbox"/> Entire Surface <input type="checkbox"/> Flexible Connector <input type="checkbox"/> Edit Values <input type="checkbox"/> Filter	<b>Forehead</b> Automatic <b>Pressure Drop</b> 10 Pa <b>Settlement</b> Vertical <b>Pressure Drop</b> 0 Pa <b>Damper Control Type</b> Automatic <b>Alignment</b> Right <b>Double Air Flow Type</b> None <b>Season</b> Winter / Summer <b>Fresh Air Flow *</b> 6,100 m³/h <b>Return Air Flow *</b> 6,100 m³/h <input type="checkbox"/> Only For Double Layer <input type="checkbox"/> Switch Fresh And Return Connection <input checked="" type="checkbox"/> Service Door <input type="checkbox"/> Opposing Door <b>Type</b> Standard <b>Position</b> Right <b>Hinge Position</b> Right <b>Alignment</b> Default <b>Additional Panel</b> None
<b>Connection Type</b> Gear Damper <input type="checkbox"/> None <input type="checkbox"/> Surface <b>Alignment</b> <input checked="" type="checkbox"/> Middle Center <input type="checkbox"/> Surface Alignment <b>Air Flow *</b> 6,100 m³/h <b>Width</b> 1174 mm <input type="checkbox"/> <b>Height</b> 324 mm <input type="checkbox"/> <b>Air Velocity</b> 5 m/s <b>Calculated Air Velocity</b> 4.45 m/s <b>Capacity %</b> 50.00 <b>Capacity Effect</b> None <input type="checkbox"/> Entire Surface <input type="checkbox"/> Flexible Connector <input type="checkbox"/> Edit Values <input type="checkbox"/> Filter	<b>Automatic</b> 10 Pa <input checked="" type="checkbox"/> Service Door <input type="checkbox"/> Opposing Door <b>Type</b> Standard <b>Position</b> Right <b>Hinge Position</b> Right <b>Alignment</b> Default <b>Additional Panel</b> None
<b>Connection Type</b> Gear Damper <input type="checkbox"/> None <input type="checkbox"/> Surface <b>Alignment</b> <input checked="" type="checkbox"/> Top Center <input type="checkbox"/> Surface Alignment <b>Air Flow *</b> 6,100 m³/h <b>Width</b> 1234 mm <input type="checkbox"/> <b>Height</b> 324 mm <input type="checkbox"/> <b>Air Velocity</b> 5 m/s <b>Calculated Air Velocity</b> 4.24 m/s <b>Capacity %</b> 50.00 <b>Capacity Effect</b> None <input type="checkbox"/> Entire Surface <input type="checkbox"/> Flexible Connector <input type="checkbox"/> Edit Values <input type="checkbox"/> Filter	<b>Automatic</b> 10 Pa <input checked="" type="checkbox"/> Service Door <input type="checkbox"/> Opposing Door <b>Type</b> Standard <b>Position</b> Right <b>Hinge Position</b> Right <b>Alignment</b> Default <b>Additional Panel</b> None

**Psychrometric Chart**

<b>Winter</b> Effic. (%) 49.53 Dry Therm. 19.19 °C Wet Therm. 14.52 °C Rel. Hum. (%) 62.11	<b>Summer</b> Effic. (%) 50.83 Dry Therm. 28.92 °C Wet Therm. 18.34 °C Rel. Hum. (%) 37.39
--	--

## EMPTY MODULE

**\* Empty Module (M7)**

<b>Properties</b> Air Flow 6100 m³/h Length * 10. mm Pressure Drop 0 Pa	<b>Condensation Pan</b> <input type="checkbox"/> Condensation Pan 0 mm <b>Drop Eliminator</b> <input type="checkbox"/> Drop Eliminator Polypropylene
<b>Service Door</b> <input checked="" type="checkbox"/> Service Door <input type="checkbox"/> Opposing Door <b>Type</b> Standard <b>Position</b> Right <b>Hinge Position</b> Right <b>Alignment</b> Default <b>Additional Panel</b> None	<b>Accessories</b> <input type="button" value="Add"/>

## MODULE SPECIAL PROPERTIES - MATERIALS

**\* Special Properties - [9, Fan]**

Custom Air Flow  m³/h

Width  0 mm  0 mm

Height  0 mm  0 mm

Length \*  0 mm  0 mm

Horizontal Alignment  Center

Vertical Alignment  Top

☒ Show In Technical Report ☒ Add Device Cost

Materials  Service Door  Panel  Condensation Pan  **Connections**

Inside Sheet Name

Inside Sheet Thickness (mm) \*  0

Outside Sheet Name

Outside Sheet Thickness (mm) \*  0

Insulation Name

Insulation Thickness (mm) \*  0

Bypass Sheet Name

Close

## MODULE SPECIAL PROPERTIES – SERVICE DOOR

**\* Special Properties - [9, Fan]**

Custom Air Flow  m³/h

Width  0 mm  0 mm

Height  0 mm  0 mm

Length \*  0 mm  0 mm

Horizontal Alignment  Center

Vertical Alignment  Top

☒ Show In Technical Report ☒ Add Device Cost

Materials  **Service Door**  Panel  Condensation Pan  Connections

Door Width (mm)  0

Maximum Door Height  0 mm

Handle Type  With Lock

Door Vertical Alignment  Bottom

Door Profile Surface  Default

Close

## MODULE SPECIAL PROPERTIES – PANEL

**\* Special Properties - [9, Fan]**

Custom Air Flow  m³/h

Width  0 mm  0 mm

Height  0 mm  0 mm

Length \*  0 mm  0 mm

Horizontal Alignment  Center

Vertical Alignment  Top

☒ Show In Technical Report ☒ Add Device Cost

Materials | Service Door | **Panel** | Condensation Pan | Connections

☐ Free Panel Length

☐ Custom Panel

Minimum Panel Size  0 mm

Maximum Panel Width  0 mm

Maximum Panel Height  0 mm

Panel Size Step  0 mm

Panel Sizing Type  Inside

Panel Splitting Orientation  Automatic

Additional Module Length  0 mm

Close

## MODULE SPECIAL PROPERTIES – CONDENSATION PAN

**\* Special Properties - [9, Fan]**

Custom Air Flow  m³/h

Width  0 mm  0 mm

Height  0 mm  0 mm

Length \*  0 mm  0 mm

Horizontal Alignment  Center

Vertical Alignment  Top

☒ Show In Technical Report ☒ Add Device Cost

Materials | Service Door | Panel | **Condensation Pan** | Connections

Condensation Pan Connection Direction  Default

Close

## MODULE SPECIAL PROPERTIES – CONNECTIONS

**\* Special Properties - [9, Fan]**

Custom Air Flow  m³/h

Width  0 mm  0 mm

Height  0 mm  0 mm

Length \*  0 mm  0 mm

Horizontal Alignment  Center

Vertical Alignment  Top

☒ Show In Technical Report ☒ Add Device Cost

Service Door | Panel | Condensation Pan | **Connections** | Texts | Ac

	Damper Control Type	Connection Type	Additional Co
	Automatic	Joint Damper	None

Close

## MODULE SPECIAL PROPERTIES – CONNECTION

**\* AHU Module Connection - [Automatic, Joint Damper, Forehead, Top Center, Automatic]**

Damper Control Type  Automatic

Connection Type  Joint Damper  None  Surface  Forehead  Automatic

Alignment  Top Center  Surface Alignment  Automatic

Air Flow \*  14,000 m³/h Pressure Drop  10 Pa

Width  1810 mm  Height  465 mm

Air Velocity  5 m/s Calculated Air Velocity  4.62 m/s

☐ Entire Surface ☐ Flexible Connector ☐ Edit Values ☐ Filter

Ok Cancel

## MODULE SPECIAL PROPERTIES – TEXTS

**\* Special Properties - [9, Fan]**

Custom Air Flow  m³/h

Width  0 mm  0 mm

Height  0 mm  0 mm

Length \*  0 mm  0 mm

Horizontal Alignment  Center

Vertical Alignment  Top

☒ Show In Technical Report ☒ Add Device Cost

Service Door | Panel | Condensation Pan | **Connections** | **Texts** | Ac

Text	Surface	Alignm
UV-C Emitter	Right	Middle Center

Close

## MODULE SPECIAL PROPERTIES – TEXT

**\* AHU Module Text - [UV-C Emitter]**

Text \*  UV-C Emitter

Surface  Right Alignment  Middle Center

X Distance  0 Y Distance  0

Z Distance  0 Size \*  100

Color  0, 255, 255, 255 Show Place  All

Ok Cancel



## MODULE SPECIAL PROPERTIES – ACCESSORIES

**\* Special Properties - [9, Fan]**

Custom Air Flow  m³/h

Width  0 mm  0 mm

Height  0 mm  0 mm

Length \*  0 mm  0 mm

Horizontal Alignment  Center

Vertical Alignment  Top

☒ Show In Technical Report ☒ Add Device Cost

Panel Condensation Pan **Connections** Texts Accessories Acc

Accessory Name	Count
Lightening	1
Air Diffuser	1
Belt / Pulley Guard	1
Observation Glass	1
Maintenance Switch	1
Flexible Connector	1
Emergency Stop Button	1

Close

## MODULE SPECIAL PROPERTIES – ACOUSTICAL INSULATION

**\* Special Properties - [9, Fan]**

Custom Air Flow  m³/h

Width  0 mm  0 mm

Height  0 mm  0 mm

Length \*  0 mm  0 mm

Horizontal Alignment  Center

Vertical Alignment  Top

☒ Show In Technical Report ☒ Add Device Cost

**Connections** Texts Accessories **Acoustical Insulation** Special

☐ Custom Acoustical Insulation

Acoustical Insulation At 63 Hz dB  0

Acoustical Insulation At 125 Hz dB  0

Acoustical Insulation At 250 Hz dB  0

Acoustical Insulation At 500 Hz dB  0

Acoustical Insulation At 1000 Hz dB  0

Acoustical Insulation At 2000 Hz dB  0

Acoustical Insulation At 4000 Hz dB  0

Acoustical Insulation At 8000 Hz dB  0

Close

## MODULE SPECIAL PROPERTIES – SPECIAL

**\* Special Properties - [9, Fan]**

Custom Air Flow  m³/h

Width  0 mm  0 mm

Height  0 mm  0 mm

Length \*  0 mm  0 mm

Horizontal Alignment  Center

Vertical Alignment  Top

☒ Show In Technical Report ☒ Add Device Cost

**Connections** **Texts** **Accessories** **Acoustical Insulation** **Special**

☐ Return Air Air Direction  ← Opposit

Module ID  9 Seq ID  1

Module Type  Fan Pressure Type  Negative

Layer Status  Bottom Join Type  None

Calculated Width  1900 mm Real Width  1960 mm

Calculated Height  1200 mm Real Height  1300 mm

Calculated Length  1273 mm Real Length  1273 mm

Weight  398.31 kg Surface Area  10.17 m²

Close

## MODULE SPECIAL PROPERTIES – NOTES

**\* Special Properties - [9, Fan]**

Custom Air Flow  m³/h

Width  0 mm  0 mm

Height  0 mm  0 mm

Length \*  0 mm  0 mm

Horizontal Alignment  Center

Vertical Alignment  Top

☒ Show In Technical Report ☒ Add Device Cost

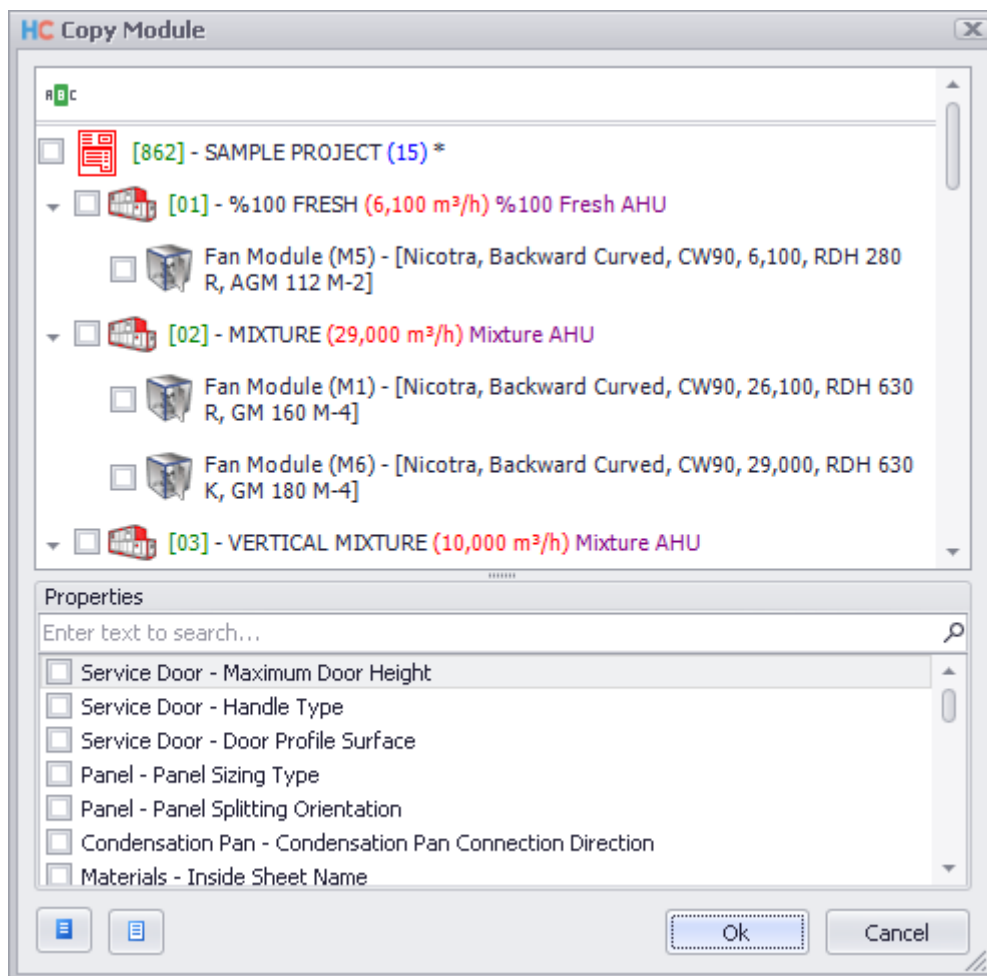
**Texts** **Accessories** **Acoustical Insulation** **Special** **Notes** **Custom**

Notes

Technical Report Notes

Close

## COPY MODULE TO OTHER MODULES



## ACCOUNTING SOFTWARE INTEGRATION

All AHU materials are defined in the “BackOffice / Materials” section of the software. All materials have unique material codes. Users can equalize the material codes and names with the accounting software material codes to transfer data between the HVAC Calculator software and the accounting software. Also the HVAC Calculator software prices can be updated batch by using the Excel file. By this way the material prices will be the same with the accounting software.

Material - [32.01.03.AT SC-9/9, AT SC-9/9]

File Edit Appearance Help

New [Icons] Close

Material Code \* 32.01.03.AT SC-9/9

Material Name \* AT SC-9/9

2. Material Name Name will be seen in AHU production

Material Type Raw Material Group Name Fans

2. Group Name 3. Group Name

Unit Name \* Unit Weight \* 8 kg

Currency Code \* EUR Currency Name \* EURO

Price 63.05 63.05 Shipping Price (Kilo) 0

Maturity Ratio (%) 0.00% Discount Ratio (%) 0.00%

Profit Ratio (%) 0.00% Loss Ratio (%) 0.00%

☐ Weight Price (Unit / Weight) ☐ Spare Part

Spare Part Profit Ratio (%) 0.00% ☐ Ignore Project Profit Ratio

☒ Add With Components Amount Round Type None

☐ Additional Material Status Active

Components Operations Other

Add New [Icons] <Find> 0 / 0

	Material Code	Material Name	Unit Name
▼	ABC	ABC	ABC

451 ms.

HVAC Calculator - BackOffice 2.2.3.37

Navigation: Definitions, Materials, Material Groups, Units, Models, Machines, Workers, Worker Groups, Operations, Operation Groups, Isolators, Fan Models, Fans, Motor Trademarks, Motors, Damper Motor Tradem..., Damper Motors, Frequency Converter..., Frequency Converters, Belts, Pulleys, Bushes

File Edit Appearance Help

New, Close, (List)

Create Update Prices File Update Prices Filter

Material Code	Material Name	2. Material Name	Material Type	Trademark Name	Unit Name	Weight	Currency Code	Currency Name
32.01.09.AT 15/15 S	AT 15-15 S		Raw Material	Fan Trademark / Nicotra	Unit	21 kg	EUR	EURO
32.04.01.RDA 315 R	RDA 315 R		Raw Material	Fan Trademark / Nicotra	Unit	25 kg	EUR	EURO
32.04.02.RDA 355 R	RDA 355 R		Raw Material	Fan Trademark / Nicotra	Unit	34 kg	EUR	EURO
32.04.03.RDA 400 R	RDA 400 R		Raw Material	Fan Trademark / Nicotra	Unit	42 kg	EUR	EURO
32.04.04.RDA 450 R	RDA 450 R		Raw Material	Fan Trademark / Nicotra	Unit	57 kg	EUR	EURO
32.04.05.RDA 500 R	RDA 500 R		Raw Material	Fan Trademark / Nicotra	Unit	70 kg	EUR	EURO
32.04.06.RDA 560 R	RDA 560 R		Raw Material	Fan Trademark / Nicotra	Unit	92 kg	EUR	EURO
32.04.07.RDA 630 R	RDA 630 R		Raw Material	Fan Trademark / Nicotra	Unit	119 kg	EUR	EURO
32.04.08.RDA 710 R	RDA 710 R		Raw Material	Fan Trademark / Nicotra	Unit	165 kg	EUR	EURO
32.04.09.RDA 315 K	RDA 315 K		Raw Material	Fan Trademark / Nicotra	Unit	32 kg	EUR	EURO
32.04.10.RDA 355 K	RDA 355 K		Raw Material	Fan Trademark / Nicotra	Unit	46 kg	EUR	EURO
32.04.11.RDA 400 K	RDA 400 K		Raw Material	Fan Trademark / Nicotra	Unit	57 kg	EUR	EURO
32.04.12.RDA 450 K	RDA 450 K		Raw Material	Fan Trademark / Nicotra	Unit	73 kg	EUR	EURO
32.04.13.RDA 500 K	RDA 500 K		Raw Material	Fan Trademark / Nicotra	Unit	90 kg	EUR	EURO
32.04.14.RDA 560 K	RDA 560 K		Raw Material	Fan Trademark / Nicotra	Unit	141 kg	EUR	EURO
32.04.15.RDA 630 K	RDA 630 K		Raw Material	Fan Trademark / Nicotra	Unit	173 kg	EUR	EURO
32.04.16.RDA 710 K	RDA 710 K		Raw Material	Fan Trademark / Nicotra	Unit	220 kg	EUR	EURO
32.04.17.RDA 800 K	RDA 800 K		Raw Material	Fan Trademark / Nicotra	Unit	270 kg	EUR	EURO
32.04.18.RDA 900 K	RDA 900 K		Raw Material	Fan Trademark / Nicotra	Unit	343 kg	EUR	EURO
32.04.19.RDA 1000 K	RDA 1000 K		Raw Material	Fan Trademark / Nicotra	Unit	415 kg	EUR	EURO
32.04.20.RDA 315 K1	RDA 315 K1		Raw Material	Fan Trademark / Nicotra	Unit	34 kg	EUR	EURO
32.04.21.RDA 355 K1	RDA 355 K1		Raw Material	Fan Trademark / Nicotra	Unit	47 kg	EUR	EURO
32.04.22.RDA 400 K1	RDA 400 K1		Raw Material	Fan Trademark / Nicotra	Unit	58 kg	EUR	EURO
32.04.23.RDA 450 K1	RDA 450 K1		Raw Material	Fan Trademark / Nicotra	Unit	75 kg	EUR	EURO
32.04.24.RDA 500 K1	RDA 500 K1		Raw Material	Fan Trademark / Nicotra	Unit	92 kg	EUR	EURO
32.04.25.RDA 560 K1	RDA 560 K1		Raw Material	Fan Trademark / Nicotra	Unit	148 kg	EUR	EURO
32.04.26.RDA 630 K1	RDA 630 K1		Raw Material	Fan Trademark / Nicotra	Unit	180 kg	EUR	EURO
32.04.27.RDA 710 K1	RDA 710 K1		Raw Material	Fan Trademark / Nicotra	Unit	240 kg	EUR	EURO
32.04.28.RDA 800 K1	RDA 800 K1		Raw Material	Fan Trademark / Nicotra	Unit	297 kg	EUR	EURO
32.04.29.RDA 900 K1	RDA 900 K1		Raw Material	Fan Trademark / Nicotra	Unit	365 kg	EUR	EURO
32.04.30.RDA 1000 K1	RDA 1000 K1		Raw Material	Fan Trademark / Nicotra	Unit	424 kg	EUR	EURO
32.04.31.RDA 500 K2	RDA 500 K2		Raw Material	Fan Trademark / Nicotra	Unit	110 kg	EUR	EURO

Navigation Favorites Filter 1 / 3369 1 sec. 554 ms.

### PROFILE DEFINITION

Users can define their own certified profiles or third party profiles in the software easily. Countless profiles can be defined.

The screenshot shows the 'Profile Definition' window in the HVAC Calculator software. The window is titled 'HVAC Calculator - BackOffice 2.2.3.37'. It has a menu bar (File, Edit, Appearance, Help) and a toolbar. On the left is a navigation pane with icons for Definitions, Materials, Material Groups, Units, Models, Machines, Workers, Worker Groups, Operations, Operation Groups, Isolators, Fan Models, Fans, Motor Trademarks, Motors, Damper Motor Trademark, Damper Motors, Frequency Converter, Frequency Converters, Belts, Pulleys, and Bushes. The main area is divided into two sections: 'Edge' and 'Middle Link'. Each section has a 'Setup Type' dropdown (set to 'External') and a 'Door Profile Surface' dropdown (set to 'Active'). Below these are various input fields for material codes, names, weights, and production/assembly codes. The 'Edge' section is for 'Oval Profile 24' and the 'Middle Link' section is for 'T PROFILLER (ADET BAŞINA İŞÇİLİK)'. The status bar at the bottom shows 'sa localhost 12:30 AM 332.48 MB'.

### MODEL DEFINITION

Users can define their own models and own model sizes in the software easily. Countless models can be defined.

The screenshot shows the 'Model Definition' window in the HVAC Calculator software. The window is titled 'HVAC Calculator - BackOffice 2.2.3.37'. It has a menu bar (File, Edit, Appearance, Help) and a toolbar. On the left is a navigation pane with icons for Definitions, Materials, Material Groups, Units, Models, Machines, Workers, Worker Groups, Operations, Operation Groups, Isolators, Fan Models, Fans, Motor Trademarks, Motors, Damper Motor Trademark, Damper Motors, Frequency Converter, Frequency Converters, Belts, Pulleys, and Bushes. The main area is divided into two sections: 'Model' and 'Model Sizes'. The 'Model' section has fields for 'Model Name' (CASE), 'Model Type' (AHU), 'Length Sizing Type' (With Profile), 'Profile Name' (Aluminium), and 'Status' (Active). The 'Model Sizes' section is a table with columns: Size Name, Width, Height, Status, Panel, Custom Panel, Minimum Panel Size, Maximum Panel Width, Maximum Panel Height, Panel Size Step, Panel Sizing Type, Panel Splitting Orientation, and Additional Module Length. The table lists various model sizes from CASE 080 X 080 to CASE 540 X 260. The status bar at the bottom shows 'sa localhost 11:52 PM 266.41 MB'.



## MATERIALS

It is also possible to define new filter, profile, model, accessory, sheet, insulation, belt, pulley, bush, drop eliminator, roof and steam humidifier.

The screenshot shows the HVAC Calculator - BackOffice 2.2.3.37 software interface. The left sidebar contains a navigation tree with categories like Definitions, Materials, Material Groups, Units, Models, Machines, Workers, Worker Groups, Operations, Operation Groups, Isolators, Fan Models, Fans, Motor Trademarks, Motors, Damper Motor Tradem..., Damper Motors, Frequency Converter..., Frequency Converters, Belts, Pulleys, and Bushes. The main window displays a table of materials with columns for Material Code, Material Name, 2. Material Name, Material Type, Trademark Name, Unit Name, Weight, Currency Code, and Currency Name. The table lists various raw materials (RDA) with their respective weights and currency codes (EUR, EURO). The status bar at the bottom indicates 1 / 3369 items and a response time of 1 sec. 554 ms.

Material Code	Material Name	2. Material Name	Material Type	Trademark Name	Unit Name	Weight	Currency Code	Currency Name
32.01.09.AT 15/15 S	AT 15-15 S		Raw Material	Fan Trademark / Nicotra	Unit	21 kg	EUR	EURO
32.04.01.RDA 315 R	RDA 315 R		Raw Material	Fan Trademark / Nicotra	Unit	25 kg	EUR	EURO
32.04.02.RDA 355 R	RDA 355 R		Raw Material	Fan Trademark / Nicotra	Unit	34 kg	EUR	EURO
32.04.03.RDA 400 R	RDA 400 R		Raw Material	Fan Trademark / Nicotra	Unit	42 kg	EUR	EURO
32.04.04.RDA 450 R	RDA 450 R		Raw Material	Fan Trademark / Nicotra	Unit	57 kg	EUR	EURO
32.04.05.RDA 500 R	RDA 500 R		Raw Material	Fan Trademark / Nicotra	Unit	70 kg	EUR	EURO
32.04.06.RDA 560 R	RDA 560 R		Raw Material	Fan Trademark / Nicotra	Unit	92 kg	EUR	EURO
32.04.07.RDA 630 R	RDA 630 R		Raw Material	Fan Trademark / Nicotra	Unit	119 kg	EUR	EURO
32.04.08.RDA 710 R	RDA 710 R		Raw Material	Fan Trademark / Nicotra	Unit	165 kg	EUR	EURO
32.04.09.RDA 315 K	RDA 315 K		Raw Material	Fan Trademark / Nicotra	Unit	32 kg	EUR	EURO
32.04.10.RDA 355 K	RDA 355 K		Raw Material	Fan Trademark / Nicotra	Unit	46 kg	EUR	EURO
32.04.11.RDA 400 K	RDA 400 K		Raw Material	Fan Trademark / Nicotra	Unit	57 kg	EUR	EURO
32.04.12.RDA 450 K	RDA 450 K		Raw Material	Fan Trademark / Nicotra	Unit	73 kg	EUR	EURO
32.04.13.RDA 500 K	RDA 500 K		Raw Material	Fan Trademark / Nicotra	Unit	90 kg	EUR	EURO
32.04.14.RDA 560 K	RDA 560 K		Raw Material	Fan Trademark / Nicotra	Unit	141 kg	EUR	EURO
32.04.15.RDA 630 K	RDA 630 K		Raw Material	Fan Trademark / Nicotra	Unit	173 kg	EUR	EURO
32.04.16.RDA 710 K	RDA 710 K		Raw Material	Fan Trademark / Nicotra	Unit	220 kg	EUR	EURO
32.04.17.RDA 800 K	RDA 800 K		Raw Material	Fan Trademark / Nicotra	Unit	270 kg	EUR	EURO
32.04.18.RDA 900 K	RDA 900 K		Raw Material	Fan Trademark / Nicotra	Unit	343 kg	EUR	EURO
32.04.19.RDA 1000 K	RDA 1000 K		Raw Material	Fan Trademark / Nicotra	Unit	415 kg	EUR	EURO
32.04.20.RDA 315 K1	RDA 315 K1		Raw Material	Fan Trademark / Nicotra	Unit	34 kg	EUR	EURO
32.04.21.RDA 355 K1	RDA 355 K1		Raw Material	Fan Trademark / Nicotra	Unit	47 kg	EUR	EURO
32.04.22.RDA 400 K1	RDA 400 K1		Raw Material	Fan Trademark / Nicotra	Unit	58 kg	EUR	EURO
32.04.23.RDA 450 K1	RDA 450 K1		Raw Material	Fan Trademark / Nicotra	Unit	75 kg	EUR	EURO
32.04.24.RDA 500 K1	RDA 500 K1		Raw Material	Fan Trademark / Nicotra	Unit	92 kg	EUR	EURO
32.04.25.RDA 560 K1	RDA 560 K1		Raw Material	Fan Trademark / Nicotra	Unit	148 kg	EUR	EURO
32.04.26.RDA 630 K1	RDA 630 K1		Raw Material	Fan Trademark / Nicotra	Unit	180 kg	EUR	EURO
32.04.27.RDA 710 K1	RDA 710 K1		Raw Material	Fan Trademark / Nicotra	Unit	240 kg	EUR	EURO
32.04.28.RDA 800 K1	RDA 800 K1		Raw Material	Fan Trademark / Nicotra	Unit	297 kg	EUR	EURO
32.04.29.RDA 900 K1	RDA 900 K1		Raw Material	Fan Trademark / Nicotra	Unit	355 kg	EUR	EURO
32.04.30.RDA 1000 K1	RDA 1000 K1		Raw Material	Fan Trademark / Nicotra	Unit	424 kg	EUR	EURO
32.04.31.RDA 500 K2	RDA 500 K2		Raw Material	Fan Trademark / Nicotra	Unit	110 kg	EUR	EURO

## INTERNET / ONLINE

You can select the AHU through Internet all over the world.

### COMMON DATABASE

The projects prepared by all of the users are stored in a common database and the users can access the projects within the scope of their authorization.

Projects

File Edit Appearance Help

Choose [Icons] Close [Icons] (List)

Please choose the project that you want to open. (Attention: Last 5000 projects listed. If the project you want to open is not exist in the list you can filter.)

Project ID	Project Name	Tracking Number	Special Code	Revision	Device Names	Minimum Air Flow	Maximum Air Flow	AHU Count	Module Count	PHE Count	CHE Count	RHE Count	RACHE Count	HP Count	Electric Heater Count
3062	CPP-AHUJ20220827				CPP-AHUJ-01, CPP-AHUJ-02, CPP...	5,210	27,462	8	40	0	0	0	0	0	0
3061	Ashorean Mall	1	1		AHUJ	15,000	15,000	1	5	0	0	0	0	0	0
3060	SAMPLE PROJECT (AaldJami3)				%100 FRESH, COUNTERFLOW H...	6,100	29,000	7	48	1	1	1	1	1	0
3059	ap				AHUJ	5,000	5,000	1	1	0	0	0	0	0	0
3058	SAMPLE PROJECT (parves28744)				%100 FRESH, COUNTERFLOW H...	6,100	29,000	7	48	1	1	1	1	1	0
3056	SAMPLE PROJECT (s.alvansaz)				%100 FRESH, COUNTERFLOW H...	6,100	29,000	7	48	1	1	1	1	1	0
3055	Clinic Dr.Mashayekhi	1			AHUJ	5,097	5,097	1	5	0	0	0	0	0	0
3054	SAMPLE PROJECT (MahdRanaei1374)				%100 FRESH, COUNTERFLOW H...	6,100	29,000	7	48	1	1	1	1	1	0
3053	Evap 1.5 (RECOVERED)				Coil 1.5	500	500	1	1	0	0	0	0	0	0
3052	SAMPLE PROJECT (Danish9069)				%100 FRESH, COUNTERFLOW H...	6,100	29,000	7	48	1	1	1	1	1	0
3051	SAMPLE PROJECT (Danish)				%100 FRESH, COUNTERFLOW H...	6,100	29,000	7	48	1	1	1	1	1	0
3050	SAMPLE PROJECT (MinaEllas)				%100 FRESH, COUNTERFLOW H...	6,100	29,000	7	48	1	1	1	1	1	0
3049	CREST AHUJ				AHUJ-AMBL-2022082301, AHUJ-AM...	1,060	70,484	6	34	0	0	0	0	0	5
3048	MEHRASL FCU SELECTION SAMPLE				FMCL-HCT-0(2)-2(2)-32-L-R	0	0	0	0	0	0	0	0	0	0
3047	MULTI ZONE TEST PROJECT - MEHRASL				AHUJ	10,000	10,000	1	5	0	0	0	0	0	0
3046	HR2				HR-1	6,100	10,000	1	9	0	0	0	0	0	0
3045	SAMPLE PROJECT (javasf)				%100 FRESH, COUNTERFLOW H...	6,100	29,000	7	48	1	1	1	1	1	0
3044	SAMPLE PROJECT (ali)				%100 FRESH, COUNTERFLOW H...	6,100	29,000	7	48	1	1	1	1	1	0
3043	CREST20220822				AHUJ-1	37,587	37,587	1	9	0	0	0	0	0	0
3042	SAMPLE PROJECT (AMIRSERKAN)				%100 FRESH, COUNTERFLOW H...	6,100	29,000	7	48	1	1	1	1	1	0
3041	SAMPLE PROJECT (Paulina)				%100 FRESH, COUNTERFLOW H...	6,100	29,000	7	48	1	1	1	1	1	0
3040	AHUJ TEST#1					0	0	0	0	0	0	0	0	0	0
3039	SAMPLE PROJECT (cstolen)				%100 FRESH, COUNTERFLOW H...	6,100	29,000	7	48	1	1	1	1	1	0
3038	SAMPLE PROJECT (amirondreantech)				%100 FRESH, COUNTERFLOW H...	6,100	29,000	7	48	1	1	1	1	1	0
3037	YTY				I2	15,000	15,000	1	3	0	0	0	0	0	0
3036	CREST DAHUJ				DAHUJ-1	19,555	19,555	1	12	0	0	0	0	0	0
3035	Ashorean Mall	1	1		AHUJ's 1-4	7,750	7,750	1	8	0	0	0	0	0	0
3034	asndnmnd				AHUJ	8,495	8,495	1	1	0	0	0	0	0	0
3033	SAMPLE PROJECT (anees4111)				%100 FRESH, COUNTERFLOW H...	6,100	29,000	7	48	1	1	1	1	1	0
3032	HEAHUJ				AHUJ-HE	14,325	14,325	1	10	1	0	0	0	0	0
3031	asd (RECOVERED)	1	16			0	0	0	0	0	0	0	0	0	0
3030	FERDOWSI UNIVERCITY (RECOVERED)	1	16		AHUJ1, AHUJ11, AHUJ14, AHUJ...	10,000	40,000	9	45	0	0	0	0	0	0
3029	CTG MD				AHUJ-1-OT	7,325	7,325	1	13	0	0	0	0	0	0
3028	ctg medical				AHUJ-1,2,3,4,5 &amp; 6-OT	7,325	7,325	1	8	0	0	0	0	0	0
3027	SAMPLE PROJECT (rifan)				%100 FRESH, COUNTERFLOW H...	6,100	29,000	7	48	1	1	1	1	1	0
3026	KALEH CORPORATION				AHUJ 6000 CFM	10,194	10,194	1	6	0	0	0	0	0	0

Filter <Filter> 1 / 2103

Ok Cancel

360 ms.

## DETAILED PROJECT SEARCH

Finding previous projects will be hard when stored projects increased much. To avoid this situation users can search any value in the project. For example; users can list projects which project name includes "ROCK" or AHU airflow is greater than or equal to 50.000 m3/h or "Klingenburg" branded rotary heat recovery module including AHUs.

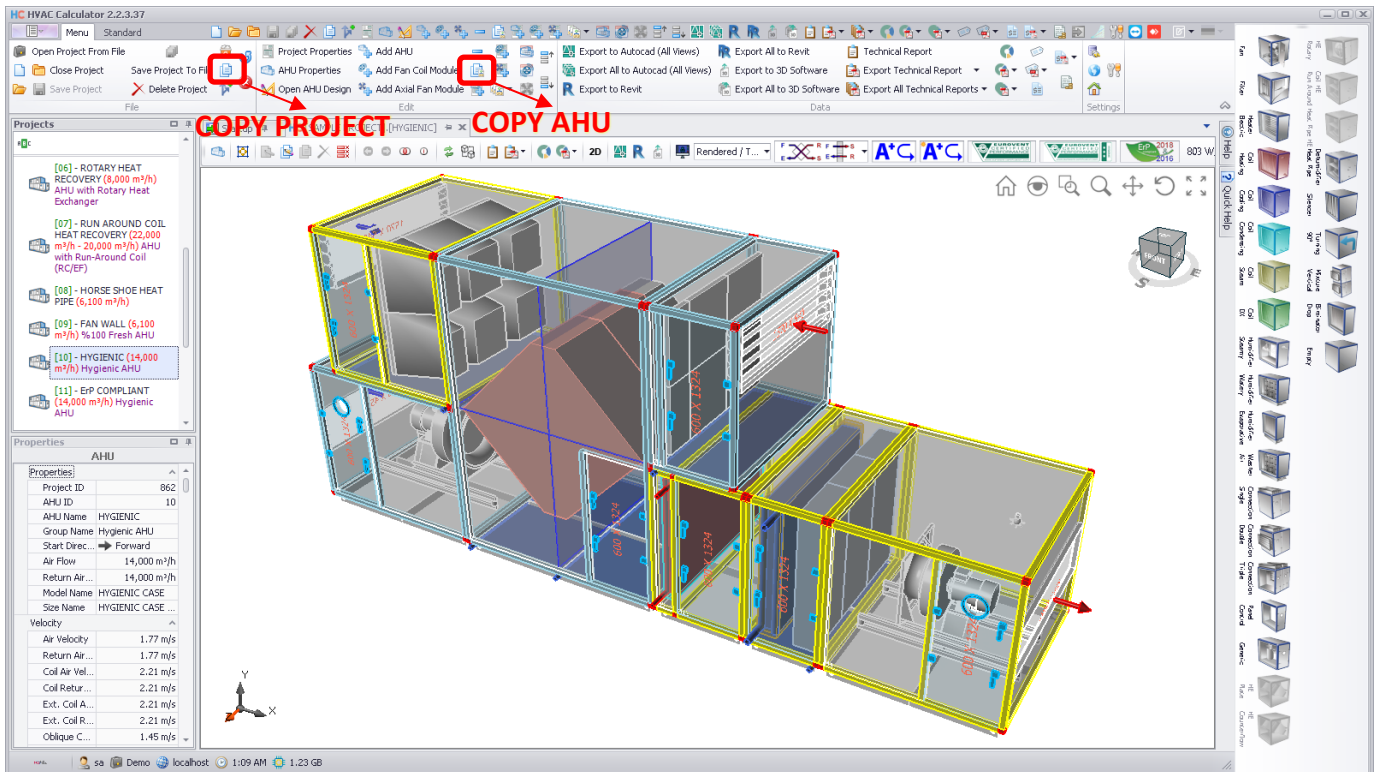
The screenshot shows a window titled "HC Filter" with a search interface. It features a "Processes" button and a red "And" connector. Below these are two search conditions: "Project Name" with the operator "Include" and the value "SAMPLE", and "Project Date" with the operator "This Week". A button labeled "Press button to add new condition" is located below the search criteria. At the bottom of the window, a text box displays the constructed search query: `('Project Name' Include 'SAMPLE') And ('Project Date' This Week )`. Below the text box are buttons for "Save", "Load", "Settings", "Ok", "Cancel", and "Apply".

## USER FRIENDLY

Its user-friendly interface will easily adapt you into using the program. As all of the screens operate with the same standard logic, after learning how a screen is used, it will be much easier to understand and learn the others.

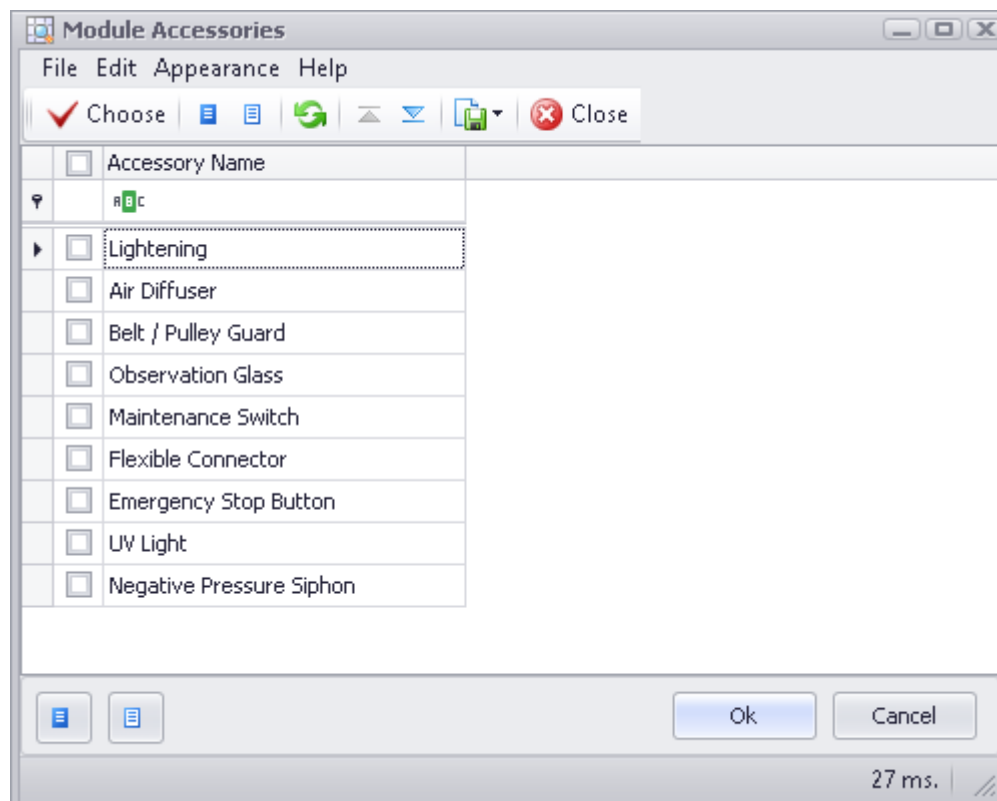
## PROJECT / AHU COPYING

You can copy and edit the previously prepared project / AHU with a single button and save as a new project / AHU.



## ACCESSORIES

You can define new module-based accessory types, select them in your preferred AHUs and add automatically to the cost of AHU.



## CUSTOM SIZE

You can specify a new AHU dimension specific for that AHU except the standard AHU modules during selection. It is also possible to specify module-based special dimension within the AHU.

**AHU - [1, %100 FRESH, %100 Fresh AHU, 30]**

AHU Name \*  1

Group Name  Start Direction

Air Flow \*  Return Air Flow \*

Model Name \*  Size Name \*

Velocity

Air Velocity	<input type="text" value="3.36 m/s"/>	<input type="text" value="3.36 m/s"/>	Coil Air Velocity	<input type="text" value="5.03 m/s"/>	<input type="text" value="5.03 m/s"/>
Ext. Coil Air Vel.	<input type="text" value="5.03 m/s"/>	<input type="text" value="5.03 m/s"/>	Oblique Coil Air Vel.	<input type="text" value="3.87 m/s"/>	<input type="text" value="3.87 m/s"/>

**Size**

☒ Special Size Width \*  Height \*  Top Layer Height

**Materials**

Inside Sheet Name \*  Inside Sheet Thickness (mm) \*

Outside Sheet Name \*  Outside Sheet Thickness (mm) \*

Insulation Name \*  Insulation Thickness (mm) \*

☒ Pedestal  Pedestal Height (mm) \*

☐ Roof  Profile Name

Connection Points Additional Materials Design Conditions Energy Class SFP ErP Eurovent Panel Service Door Aco

Air Direction Fresh - Straight / Return - Opposite

Connection Location  Default Damper Control Type

**Fresh Air**

Air Direction  Damper Control Type

**Return Air**

Connection Type   Surface

Alignment   Surface Alignment

Air Flow \*  Pressure Drop

Width  ☐ Height  ☐

Air Velocity  Calculated Air Velocity

☒ Entire Surface ☐ Flexible Connector ☐ Edit Values ☐ Filter

Connection Function

Copy To Other AHUs Set Accessories Ok Cancel

## CUSTOM MODULE SIZE

It is also possible to specify module-based special dimension within the AHU.

**\* Special Properties - [9, Fan]**

Custom Air Flow  m³/h

Width	<input type="text"/> 0 mm	<input type="text"/> 0 mm
Height	<input type="text"/> 0 mm	<input type="text"/> 0 mm
Length *	<input type="text"/> 0 mm	<input type="text"/> 0 mm

Horizontal Alignment  Center

Vertical Alignment  Top

☒ Show In Technical Report ☒ Add Device Cost

Materials  Service Door  Panel  Condensation Pan  Connections

Inside Sheet Name

Inside Sheet Thickness (mm) \*  0

Outside Sheet Name

Outside Sheet Thickness (mm) \*  0

Insulation Name

Insulation Thickness (mm) \*  0

Bypass Sheet Name

Close



## COMPANIES

You can authorize a person/company outside your own company who prepares an external project to access the projects prepared by that person or company and you can also access to those projects. You might not permit that person or company to view your production costs, specify a multiplier for the company-based prices they will see and give prices for each organization with special profit margin.

Company - [Trane]

File Edit Appearance Help

New [Icons] Close Check Databases Rights

Company Name \* **Trane** 2

Long Name \* Trane A.S.

^ Related

Related Person [Text Box]

Related Person e-Mail [Text Box] Related Person Phone [Text Box]

^ Contact

Phone +90(216) 556 50 00 Phone 2 +90(216) 499 01 00

Fax +90(216) 556 50 91 2. Fax +90(216) 526 63 13

Country [Text Box] City [Text Box]

District [Text Box] Neighborhood [Text Box] Post Code [Text Box]


Address [Text Area]

e-Mail info@trane.com Web Address www.trane.com

^ Tax

Tax Department [Text Box] Tax Number [Text Box]

Logos Explanation

Logo  2. Logo [Text Box]

☒ Default Database Status Active

217 ms.

## SECURITY / AUTHORIZATION

Every user can use software with their own user name and password, users can not use software without user name and password. You can authorize the application in a very detailed way. For instance; at the BackOffice part of application, we can authorize a single user for updating the prices of materials by permitting that user's access to only section of materials, and not permitting adding new records and deleting those. We can turn off that user's authorization to access all other sections, thereby preventing user based faults.

**User - [sa]**

File Edit Appearance Help Processes

New [Icons] Close Processes ▾

---

**User**

User Name *	sa	User Type	System ▾
Password *	*****	Password Confirmation *	*****
Name		Surname	
Title		e-Mail	deniz.tahtali@akilliprojeler.com
Manager User Name	▾	<input type="checkbox"/> Single Sign On	

---

**Password**

☐ Must Change Password At First Logon ☐ Can Not Change Password

☒ Password Never Expires Password Expire Time \*

Renewed Password Validity Duration (Day) \*  30 Unrepeated Password Count \*  5

Minimum Password Length  0 Password Strength  None ▾

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**Status**

**There is/are person(s) authenticated with this user.**

☐ Disabled ☒ Never Expires

Expire Time \*  1/1/2021 12:00:00 AM

Last Authentication Time  8/30/2022 8:34:38 PM User Status  Multi Active ▾

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**Groups Roles Limits Authority Company Contact Explanation**

Add New [Icons] <Find> ▾ 1 / 1

	Group Name	Preferred
▼	sa	<input checked="" type="checkbox"/>
▶	Administrators	<input type="checkbox"/>

345 ms.

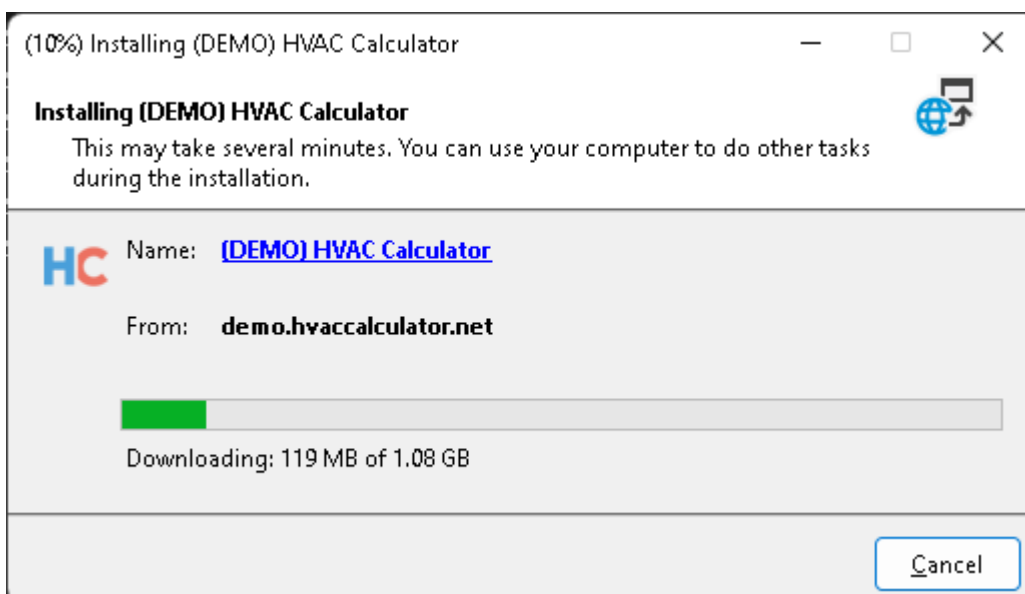
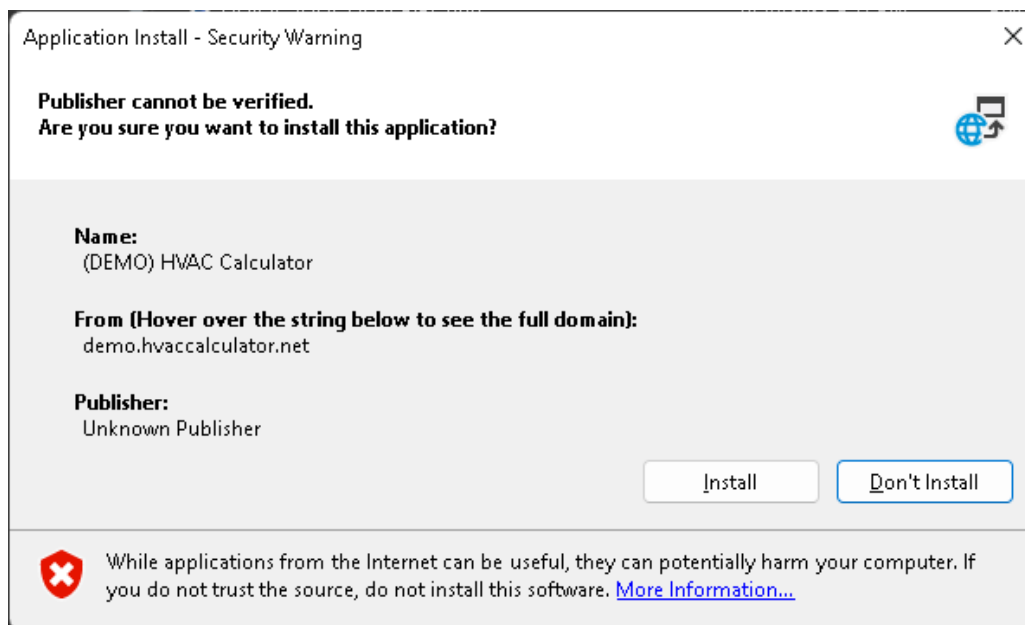
## LOGS

All the transactions done by users are recorded in the server. All the things about the date and time of user's log in, where exactly in the program is used, which date is added, edited or deleted, when the program was logged off, and through which IP Address, MAC Address, computer the transactions was made and by which user are recorded. Thus, any fault that might occur on the records and the user that caused it can easily be specified. Also, it is possible to bring back the changed or deleted records. By doing this, the changes in the data which are made by fault or malicious intention can be taken back.

[illegible]

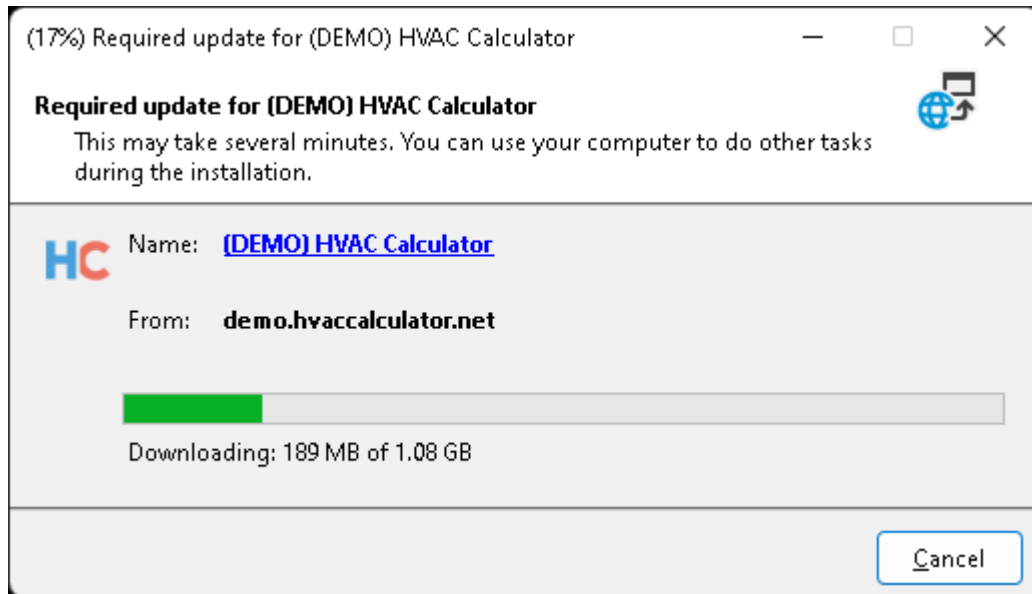
## INSTALLATION

When the program is initially installed into the computer, you can start using it as logging into a web site. In order to make the installation, you will login to the web site where the application will be operated, click on a link from there and start using the application. If there are any files or programs needed for the operation of program; the program will download from Internet and there is no need for you to make any settings etc.



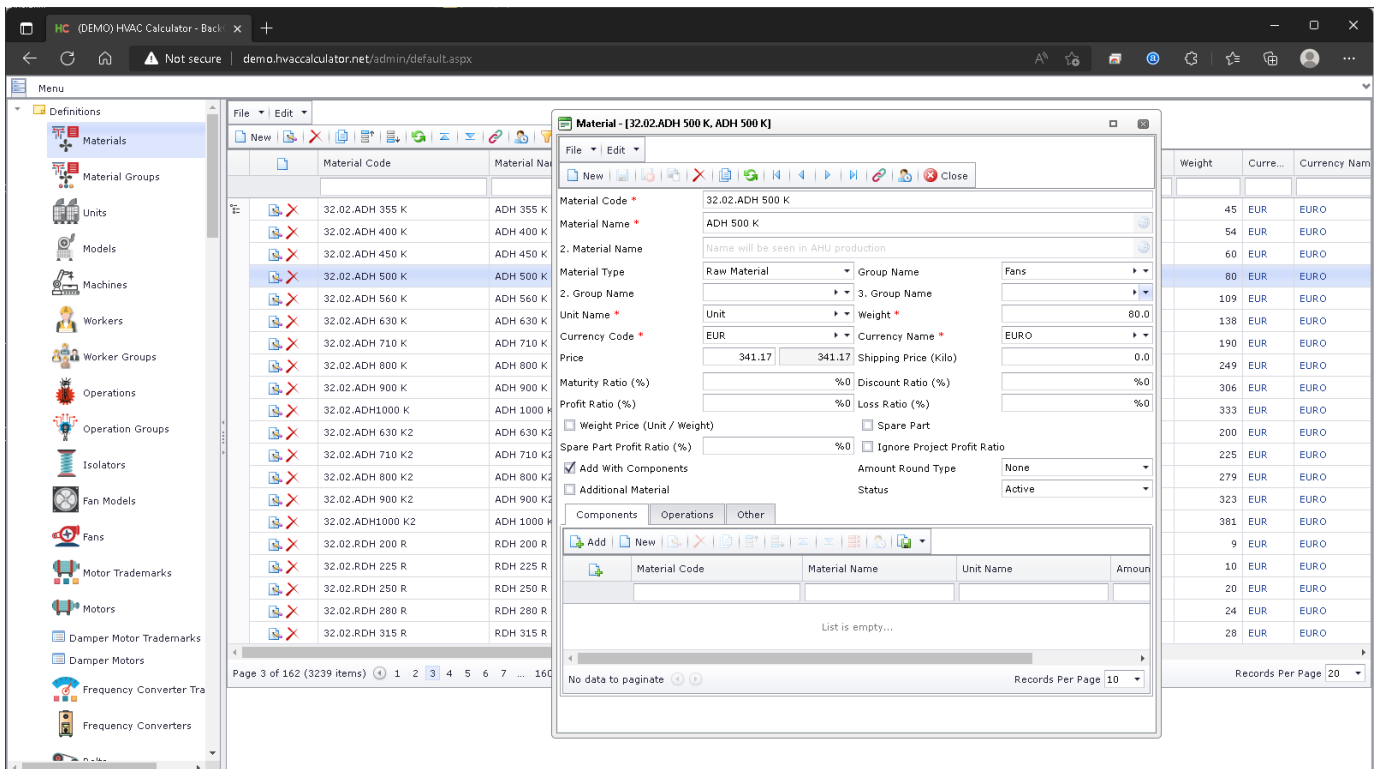
## UPDATE

The application checks at any time of operation for a new edition, downloads automatically if there is any, and user does not need to do anything.






















## WEB

Our BackOffice program is operated as a Windows application from the Web and it can also be operated on "Internet Explorer", "Firefox", "Chrome", "Safari", "Opera" browsers without any installation.



## MODULES / CELLS

	Fan (Nicotra, Nicotra-Gebhardt, Ziehl-Abegg, Yilida, Comefri, Punker, Soler&Palau, Kruger, Ebmpapst, Sanmu)
	Filter (Panel, Bag, Hepa, Carbon Cartridge, Compact)
	Electric Heater
	Coil (Heating, Cooling, Condensing, Steam, DX) (Friterm, Coils32)
	Steam Humidifier
	Watery Humidifier
	Evaporative Humidifier
	Single Connection
	Double Connection Mixture
	Triple Connection Mixture
	Vertical Mixture
	Crossflow Heat Exchanger (Recuperator, Heatex, Klingenburg, Hoval, Karyer, Barbor)
	Counterflow Heat Exchanger (Klingenburg, Eri, Hoval)
	Rotary Heat Exchanger (Recuperator, Heatex, Klingenburg, Enventus, DRI, Hoval, Karyer)
	Double Coil / Run Around Coil Heat Exchanger (Friterm, Coils32)
	Silencer
	90° Turning
	Drop Eliminator
	Empty

## SUPPORTED BRANDS



## SUPPORTED CERTIFICATES

Supported certificates are listed below and users are able to define new certificates in the BackOffice.

## HARDWARE AND SOFTWARE REQUIREMENTS

### Supported operating systems;

- Microsoft Windows 7/8/10
- Microsoft Windows Server 2008/2012/2016/2109

### Hardware Requirements; (First value is minimum, second value is recommended)

- 1.2-2 GHZ
- 2-4 Logical CPU
- 4-8 GB RAM
- 5-10 GB HD Space

### Server Hardware Requirements; (First value is minimum, second value is recommended)

- 2-3 GHZ
- 4-8 Logical CPU
- 8-16 GB RAM
- 100-150 GB HD Space (SSD HD if possible)

### Client Software Requirements;

- Microsoft Windows 7/8/10 Operating System

### Server Software Requirements;

- Microsoft Windows Server 2008/2012/2016/2019 Operating System
- Microsoft Windows SQL Server 2008/2012/2014/2016/2019 Database Server (Express Edition can be used)

## REFERENCES

