

A I R

I N N O V A T I O N



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Heat recovery exchangers which are selected according to criteria that high efficiency and low pressure drop, plug fans suitable for Erp 2015 criteria, filters suitable for green building classification (LEED, BREEAM), resistive and compact structure are the main components of VESTA HR. Developed Senso automation system which is given together with the device controls both ventilation functions and like heating/cooling air conditioning functions provided by accessories as a standard.

As VESTA HR devices are used;;

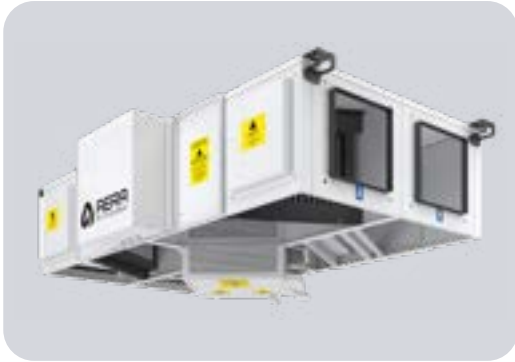
- Fresh air is provided for outside to inside.
- Decreased quality of inside air is given to outside.
- Energy economy is provided by heat transfer between disposal air and fresh air.
- As the fresh air is filtered the air quality is increased.
- By the smart control system which is given together with the device controlling is provided according to user's varying needs.



VESTA HR

CROSS FLOW
HEAT RECOVERY VENTILATION





CASING

VESTA HR units are produced using polyester painted sheet metal with high corrosion resistance. Inside the unit, Aluminum and Zinc coated AZ 150 quality Aluzinc sheet metal is used. The casing is patented with its low pressure drop and high stability.

All components that require service, have their own service doors. This way the unit does not have to be disconnected from ducting system for servicing. Units are serviceable from left and right by design. This prevents problematic installations where service doors and electrical panel removals might cause.



FILTER

Air is cleaned with standard G4 type filters before it reaches any component in VESTA HR units. Low pressure drop filters have a rate of 98% when it comes to particulate catching efficiency. Long lasting filters are easily cleaned with pressured air and after completing their lifecycle, they can be replaced easily. Optionally, F7 (MERV 13) filters can be used for if green building directives. High efficiency filters are produced especially for extending the surface area and reducing pressure drops. Filters fill up because of the particles they hold and this results in reduced air flow. In order to avoid dirty filters to affect air balance in the building, the unit has a filter cleaning alarm based on working hours.



HEAT RECOVERY EXCHANGER

The heat recovery exchangers are occurred by Aluminium plates which has high corrosion resistance in VESTA HR devices. In cross flow exchangers in order to increase the heat recovery efficiency and to decrease pressure drop, the plates are designed developed with engineering methods. Thus, it reaches the highest efficiency heat recovery exchanger performance values continuity is provided with EUROVENT certificate in their class. VESTA HR devices' heat recovery exchangers, have larger heat transfer surface up to 22-35% than competitors in market. The speed in air passing section is lower 11-29% than competitors in market also. Thus, by VESTA HR devices, high heat recovery efficiency and low pressure drop are provided.



FAN

VESTA HR units are designed with high energy efficiency, low sound pressure and low power consumption plug fans. All of our fans are compliant with ECO-DESIGN criteria by European Union Energy Committee and ErP 2015. All of the fans are suitable for variable speed control. Fans up to VESTA HR 5000 are controlled with built-in SENSO control. They have 3 fixed speeds or stepless control with the help of an air quality sensor.

Vesta HR units use single phase AC motors up to HR50 and 3 phase AC motors up to HR60. Required electrical protection is taken with electronic components against high temperature or locked rotor.

SENSO

SENSO Smart Control which is specifically developed and adjusted for Ceiling Type devices, controls both standard components in device and components attachable to ducts optionally to manage the desired supply air conditions. All of our devices work with plug and play logics and are sent after complete comprehensive tests of control equipments and all components.



The basic functions provided by SENSO control in ventilation;

- Fan speeds are adjusted in 3 different speed independently
- Weekly time schedule
- Building automation connection (ModBUS)
- Preheater control (Step control)
- Afterheater Control
- Exchanger Freezing Control
- Battery Freezing Control (with Optional Sensor)
- Automatic BOOST Mode (with Optional Sensor)
- Automatic Flow Rate Control (with Optional Sensor)
- Filter Pollution Control (with Optional Sensor)

Room Control Panel

The devices have a room control panel to adjust operating status easily. This user friendly interface panel can manage flow rate, heat settings, selection of operation mode, season selection, weekly time schedule easily and fast.

Building Automation Connection

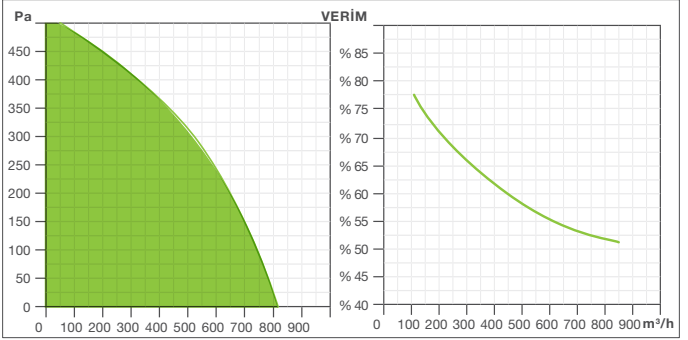
SENSO control, works in interaction with other air conditioning devices and building automation systems via Modbus protocol.



■ VESTA HR 07



■ FAN PERFORMANCE CURVES



UNIT INFORMATION

	VESTA HR 07
Exchanger Type	Aluminum Plate Cross Flow
Fan Type	AC Plug Fan
ERP Compatibility	-
Installation	Indoor
Installation Position	Horizontal
Service Location	Side and Bottom
Case structure	10 mm Insulated Single Walled

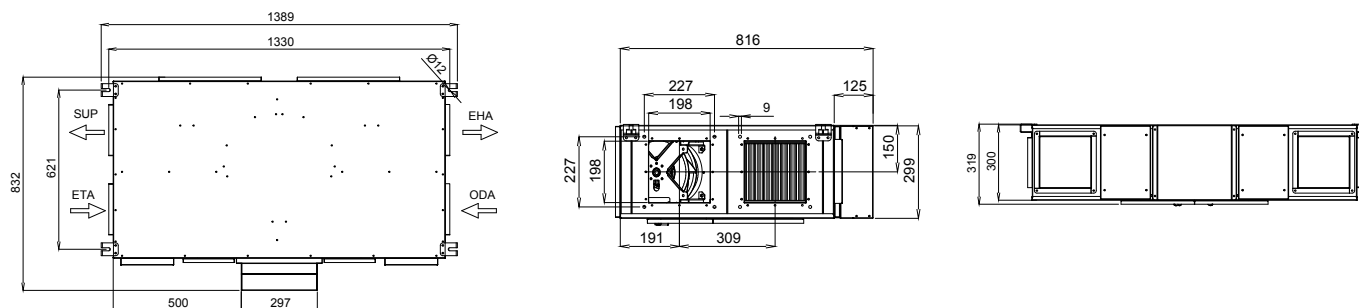
TECHNICAL INFORMATIONS

Minimum Flow Rate (m3/h)	160
Nominal Flow Rate (m3/h)	810
Efficiency (-5°C OA, 22°C 50%RH RA)	56%
Weight (kg)	60
Fresh Air Filter	Coarse (G4)
Exhaust Filter	Coarse (G4)
Operating Temperature (1) (°C)	-12/+46

Electrical Informations

Communicating Informations	Modbus RTU
Supply Voltage	230V, 1~, 50 Hz
Total Power (1) (kW)	0,27
Maksimum Current (A)	1,2
Sound Information (2)	
Surrounding Sound 3m. Distance (dBA)	57

■ DIMENSIONS [mm]



ACCESSORIES

Electric Pre Heater	Optional	External of device	Page 134
Electric After Heater	Optional	Internal of device	Page 134
Water After Heater	Optional	Internal of device	Page 134
Water Cooler	-	-	-
Duct Connection Damper	-	-	
Outside Protection Sheet	-	-	
Fresh Air Spigot	-	-	
Exhaust Spigot	-	-	
Drainage Pump	Optional	Page 135	
Bulk Siphon	Optional	Page 137	
Room Control Panel Type1	Standard	-	
Room Control Panel Type2	-	-	
Room Control Panel Type3	-	-	
Cloud Connections Right	-	-	
VOD Sensor CO2	Optional	Page 137	
VOD Sensor RH%	Optional	Page 137	
VOD Sensor VOC	Optional	Page 137	
Signal Converter	Optional	Page 137	
Constant Pressure Kit	-	-	

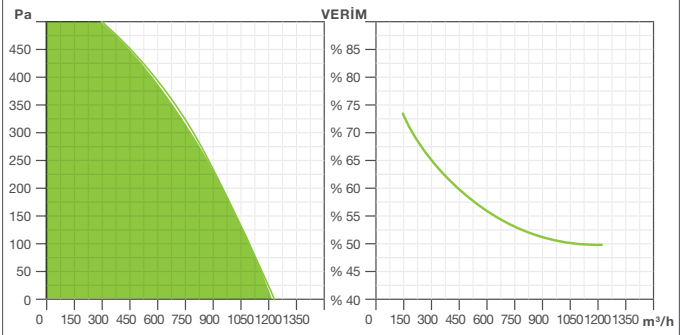
Exhaust Filter Coarse	Standard	
Exhaust Filter ePM10 50%	Standard	
Fresh Air Filter Coarse	Standard	
Fresh Air Filter ePM10 50%	Optional	Page 136
Fresh Air Filter ePM1 55%	Standard	
Fresh Air Filter ePM1 80%	Optional	Page 136

- (1) Together with Electrical Preheater
- (2) As a result of the measurement according to ISO 5136
- (3) Outside Kit is used
- (4) Bidirectional installation is provided via service covers located at front and back
- (5) Humidity transfer is possible with the selection of Adsorption Rotor

■ VESTA HR 12



■ FAN PERFORMANCE CURVES



UNIT INFORMATION

	VESTA HR 12
Exchanger Type	Aluminum Plate Cross Flow
Fan Type	AC Plug Fan
ERP Compatibility	-
Installation	Indoor
Installation Position	Horizontal
Service Location	Side and Bottom
Case structure	10 mm Insulated Single Walled

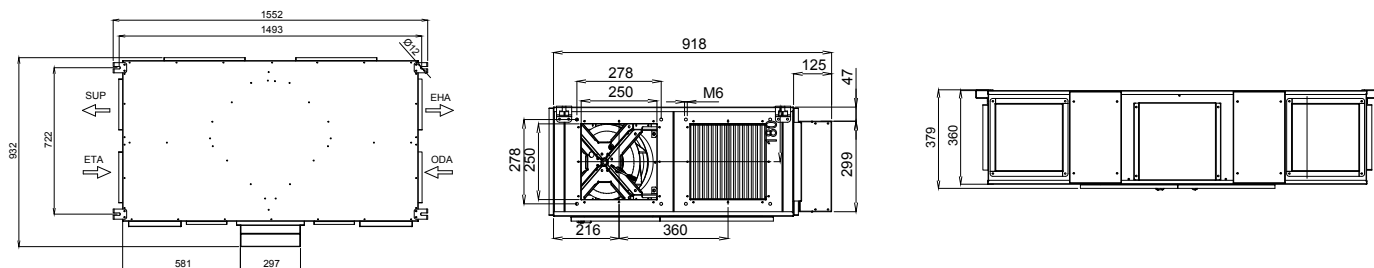
TECHNICAL INFORMATIONS

Minimum Flow Rate (m3/h)	310
Nominal Flow Rate (m3/h)	1340
Efficiency (-5°C OA, 22°C 50%RH RA)	51%
Weight (kg)	75
Fresh Air Filter	Coarse (G4)
Exhaust Filter	Coarse (G4)
Operating Temperature (1) (°C)	-12/+46

Electrical Informations

Communicating Informations	Modbus RTU
Supply Voltage	230V, 1~, 50 Hz
Total Power (1) (kW)	0,44
Maksimum Current (A)	1,8
Sound Information (2)	
Surrounding Sound 3m. Distance (dBA)	59

■ DIMENSIONS [mm]



ACCESSORIES

Electric Pre Heater	Optional	External of device	Page 134
Electric After Heater	Optional	Internal of device	Page 134
Water After Heater	Optional	Internal of device	Page 134
Water Cooler	-	-	-
Duct Connection Damper	-	-	
Outside Protection Sheet	-	-	
Fresh Air Spigot	-	-	
Exhaust Spigot	-	-	
Drainage Pump	Optional	Page 135	
Bulk Siphon	Optional	Page 137	
Room Control Panel Type1	Standard	-	
Room Control Panel Type2	-	-	
Room Control Panel Type3	-	-	
Cloud Connections Right	-	-	
VOD Sensor CO2	Optional	Page 137	
VOD Sensor RH%	Optional	Page 137	
VOD Sensor VOC	Optional	Page 137	
Signal Converter	Optional	Page 137	
Constant Pressure Kit	-	-	

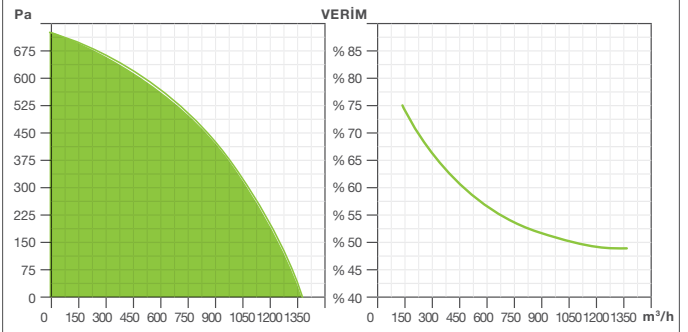
Exhaust Filter Coarse	Standard	
Exhaust Filter ePM10 50%	Standard	
Fresh Air Filter Coarse	Standard	
Fresh Air Filter ePM10 50%	Optional	Page 136
Fresh Air Filter ePM1 55%	Standard	
Fresh Air Filter ePM1 80%	Optional	Page 136

- (1) Together with Electrical Preheater
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- (5) Humidity transfer is possible with the selection of Adsorption Rotor

■ VESTA HR 15



■ FAN PERFORMANCE CURVES



UNIT INFORMATION

	VESTA HR 15
Exchanger Type	Aluminum Plate Cross Flow
Fan Type	AC Plug Fan
ERP Compatibility	-
Installation	Indoor
Installation Position	Horizontal
Service Location	Side and Bottom
Case structure	10 mm Insulated Single Walled

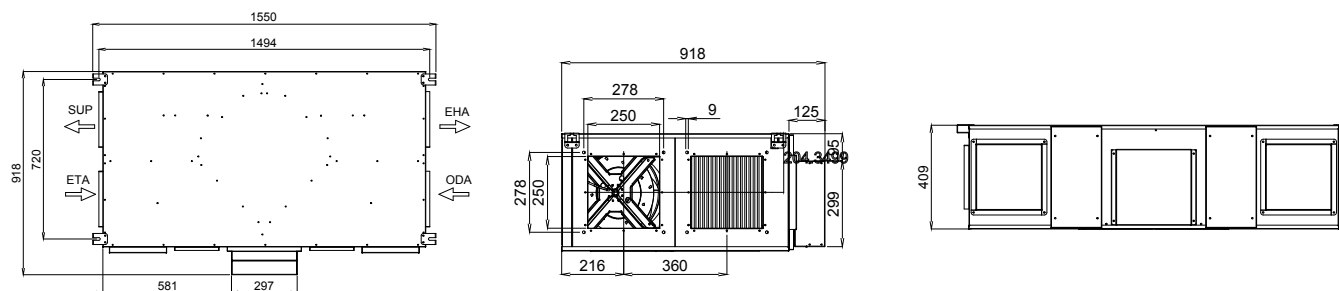
TECHNICAL INFORMATIONS

Minimum Flow Rate (m3/h)	480
Nominal Flow Rate (m3/h)	1470
Efficiency (-5°C OA, 22°C 50%RH RA)	50%
Weight (kg)	88
Fresh Air Filter	Coarse (G4)
Exhaust Filter	Coarse (G4)
Operating Temperature (1) (°C)	-12/+46

Electrical Informations

Communicating Informations	Modbus RTU
Supply Voltage	230V, 1~, 50 Hz
Total Power (1) (kW)	0,56
Maksimum Current (A)	2,4
Sound Information (2)	
Surrounding Sound 3m. Distance (dBA)	61

■ DIMENSIONS [mm]



Electric Pre Heater	Optional	External of device	Page 134
Electric After Heater	Optional	Internal of device	Page 134
Water After Heater	Optional	Internal of device	Page 134
Water Cooler	-	-	-
Duct Connection Damper	-	-	
Outside Protection Sheet	-	-	
Fresh Air Spigot	-	-	
Exhaust Spigot	-	-	
Drainage Pump	Optional	Page 135	
Bulk Siphon	Optional	Page 137	
Room Control Panel Type1	Standard	-	
Room Control Panel Type2	-	-	
Room Control Panel Type3	-	-	
Cloud Connections Right	-	-	
VOD Sensor CO2	Optional	Page 137	
VOD Sensor RH%	Optional	Page 137	
VOD Sensor VOC	Optional	Page 137	
Signal Converter	Optional	Page 137	
Constant Pressure Kit	-	-	

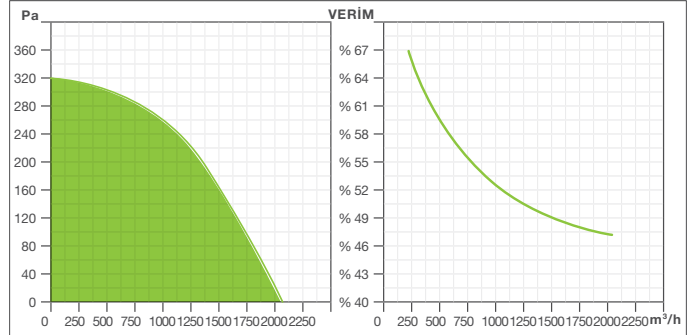
Exhaust Filter Coarse	Standard	
Exhaust Filter ePM10 50%	Standard	
Fresh Air Filter Coarse	Standard	
Fresh Air Filter ePM10 50%	Optional	Page 136
Fresh Air Filter ePM1 55%	Standard	
Fresh Air Filter ePM1 80%	Optional	Page 136

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- (3) Outside Kit is used
- (4) Bidirectional installation is provided via service covers located at front and back
- (5) Humidity transfer is possible with the selection of Adsorption Rotor

■ VESTA HR 20



■ FAN PERFORMANCE CURVES



UNIT INFORMATION

	VESTA HR 20
Exchanger Type	Aluminum Plate Cross Flow
Fan Type	AC Plug Fan
ERP Compatibility	-
Installation	Indoor
Installation Position	Horizontal
Service Location	Side and Bottom
Case structure	10 mm Insulated Single Walled

TECHNICAL INFORMATIONS

Minimum Flow Rate (m3/h)	630
Nominal Flow Rate (m3/h)	2160
Efficiency (-5°C OA, 22°C 50%RH RA)	48%
Weight (kg)	110
Fresh Air Filter	Coarse (G4)
Exhaust Filter	Coarse (G4)
Operating Temperature (1) (°C)	-12/+46

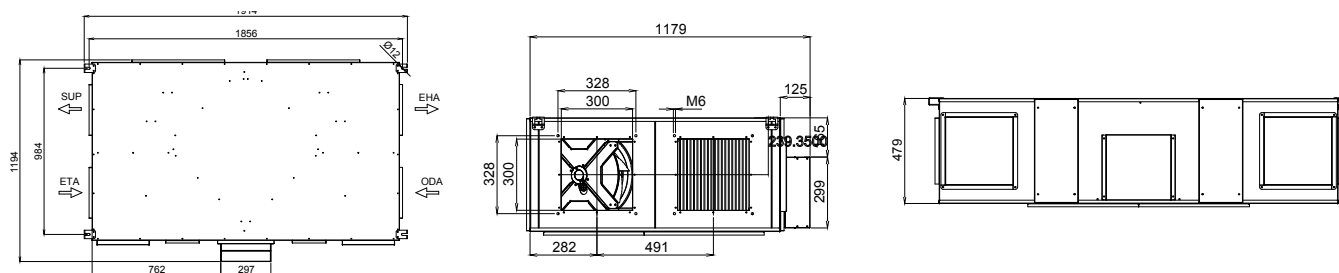
Electrical Informations

Communicating Informations	Modbus RTU
Supply Voltage	230V, 1~, 50 Hz
Total Power (1) (kW)	0,65
Maksimum Current (A)	2,9

Sound Information (2)

Surrounding Sound 3m. Distance (dBA)	60
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■ DIMENSIONS [mm]



Electric Pre Heater	Optional	External of device	Page 134
Electric After Heater	Optional	Internal of device	Page 134
Water After Heater	Optional	Internal of device	Page 134
Water Cooler	-	-	-
Duct Connection Damper	-	-	
Outside Protection Sheet	-	-	
Fresh Air Spigot	-	-	
Exhaust Spigot	-	-	
Drainage Pump	Optional	Page 135	
Bulk Siphon	Optional	Page 137	
Room Control Panel Type1	Standard	-	
Room Control Panel Type2	-	-	
Room Control Panel Type3	-	-	
Cloud Connections Right	-	-	
VOD Sensor CO2	Optional	Page 137	
VOD Sensor RH%	Optional	Page 137	
VOD Sensor VOC	Optional	Page 137	
Signal Converter	Optional	Page 137	
Constant Pressure Kit	-	-	

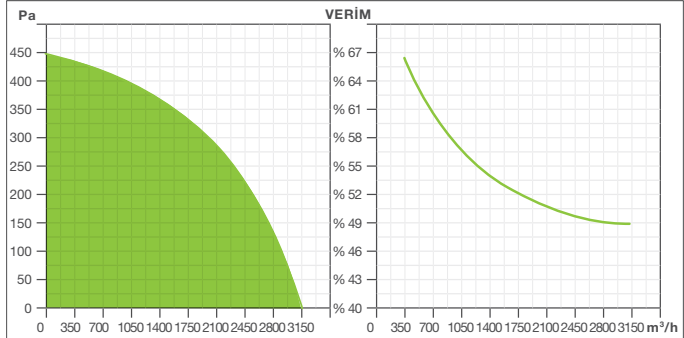
Exhaust Filter Coarse	Standard	
Exhaust Filter ePM10 50%	Standard	
Fresh Air Filter Coarse	Standard	
Fresh Air Filter ePM10 50%	Optional	Page 136
Fresh Air Filter ePM1 55%	Standard	
Fresh Air Filter ePM1 80%	Optional	Page 136

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- (3) Outside Kit is used
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- (5) Humidity transfer is possible with the selection of Adsorption Rotor

■ VESTA HR 30



■ FAN PERFORMANCE CURVES



UNIT INFORMATION

	VESTA HR 30
Exchanger Type	Aluminum Plate Cross Flow
Fan Type	AC Plug Fan
ERP Compatibility	-
Installation	Indoor
Installation Position	Horizontal
Service Location	Side and Bottom
Case structure	10 mm Insulated Single Walled

TECHNICAL INFORMATIONS

Minimum Flow Rate (m3/h)	940
Nominal Flow Rate (m3/h)	3220
Efficiency (-5°C OA, 22°C 50%RH RA)	49%
Weight (kg)	140
Fresh Air Filter	Coarse (G4)
Exhaust Filter	Coarse (G4)
Operating Temperature (1) (°C)	-12/+46

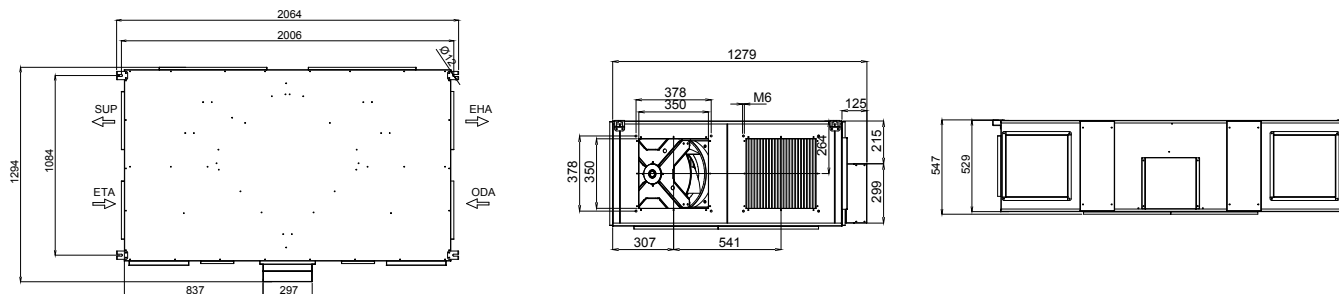
Electrical Informations

Communicating Informations	Modbus RTU
Supply Voltage	230V, 1~, 50 Hz
Total Power (1) (kW)	1
Maksimum Current (A)	4,6

Sound Information (2)

Surrounding Sound 3m. Distance (dBA)	55
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■ DIMENSIONS [mm]



Electric Pre Heater	Optional	External of device	Page 134
Electric After Heater	Optional	Internal of device	Page 134
Water After Heater	Optional	Internal of device	Page 134
Water Cooler	-	-	-
Duct Connection Damper	-	-	
Outside Protection Sheet	-	-	
Fresh Air Spigot	-	-	
Exhaust Spigot	-	-	
Drainage Pump	Optional	Page 135	
Bulk Siphon	Optional	Page 137	
Room Control Panel Type1	Standard	-	
Room Control Panel Type2	-	-	
Room Control Panel Type3	-	-	
Cloud Connections Right	-	-	
VOD Sensor CO2	Optional	Page 137	
VOD Sensor RH%	Optional	Page 137	
VOD Sensor VOC	Optional	Page 137	
Signal Converter	Optional	Page 137	
Constant Pressure Kit	-	-	

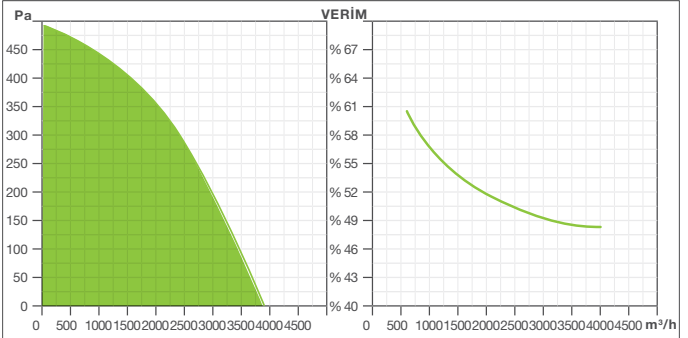
Exhaust Filter Coarse	Standard	
Exhaust Filter ePM10 50%	Standard	
Fresh Air Filter Coarse	Standard	
Fresh Air Filter ePM10 50%	Optional	Page 136
Fresh Air Filter ePM1 55%	Standard	
Fresh Air Filter ePM1 80%	Optional	Page 136

- (1) Together with Electrical Preheater
- (2) As a result of the measurement according to ISO 5136
- (3) Outside Kit is used
- (4) Bidirectional installation is provided via service covers located at front and back
- (5) Humidity transfer is possible with the selection of Adsorption Rotor

■ VESTA HR 40



■ FAN PERFORMANCE CURVES



UNIT INFORMATION

	VESTA HR 40
Exchanger Type	Aluminum Plate Cross Flow
Fan Type	AC Plug Fan
ERP Compatibility	-
Installation	Indoor
Installation Position	Horizontal
Service Location	Side and Bottom
Case structure	10 mm Insulated Single Walled

TECHNICAL INFORMATIONS

Minimum Flow Rate (m3/h)	1140
Nominal Flow Rate (m3/h)	4200
Efficiency (-5°C OA, 22°C 50%RH RA)	49%
Weight (kg)	170
Fresh Air Filter	Coarse (G4)
Exhaust Filter	Coarse (G4)
Operating Temperature (1) (°C)	-12/+46

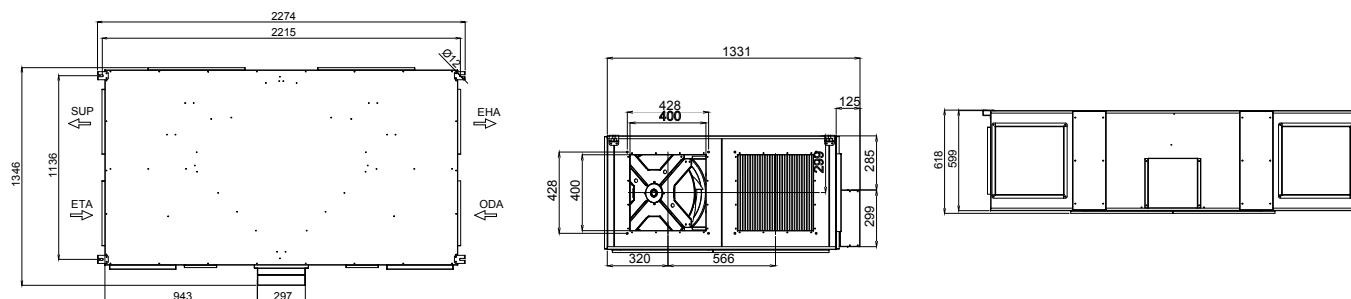
Electrical Informations

Communicating Informations	Modbus RTU
Supply Voltage	230V, 1~, 50 Hz
Total Power (1) (kW)	1,2
Maksimum Current (A)	4,8

Sound Information (2)

Surrounding Sound 3m. Distance (dBA)	53
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■ DIMENSIONS [mm]



ACCESSORIES

Electric Pre Heater	Optional	External of device	Page 134
Electric After Heater	Optional	Internal of device	Page 134
Water After Heater	Optional	Internal of device	Page 134
Water Cooler	-	-	-
Duct Connection Damper	-	-	
Outside Protection Sheet	-	-	
Fresh Air Spigot	-	-	
Exhaust Spigot	-	-	
Drainage Pump	Optional	Page 135	
Bulk Siphon	Optional	Page 137	
Room Control Panel Type1	Standard	-	
Room Control Panel Type2	-	-	
Room Control Panel Type3	-	-	
Cloud Connections Right	-	-	
VOD Sensor CO2	Optional	Page 137	
VOD Sensor RH%	Optional	Page 137	
VOD Sensor VOC	Optional	Page 137	
Signal Converter	Optional	Page 137	
Constant Pressure Kit	-	-	

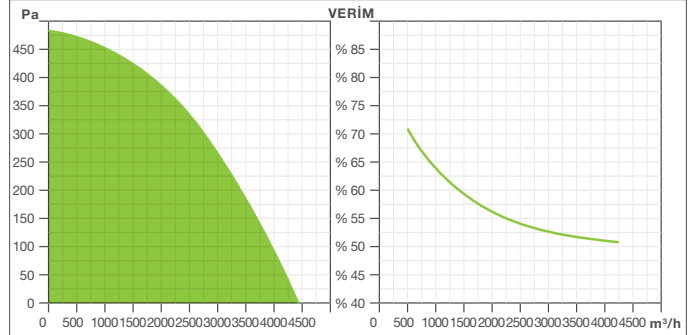
Exhaust Filter Coarse	Standard	
Exhaust Filter ePM10 50%	Standard	
Fresh Air Filter Coarse	Standard	
Fresh Air Filter ePM10 50%	Optional	Page 136
Fresh Air Filter ePM1 55%	Standard	
Fresh Air Filter ePM1 80%	Optional	Page 136

- (1) Together with Electrical Preheater
- (2) As a result of the measurement according to ISO 5136
- (3) Outside Kit is used
- (4) Bidirectional installation is provided via service covers located at front and back
- (5) Humidity transfer is possible with the selection of Adsorption Rotor

■ VESTA HR 50



■ FAN PERFORMANCE CURVES



UNIT INFORMATION

	VESTA HR 50
Exchanger Type	Aluminum Plate Cross Flow
Fan Type	AC Plug Fan
ERP Compatibility	-
Installation	Indoor
Installation Position	Horizontal
Service Location	Side and Bottom
Case structure	10 mm Insulated Single Walled

TECHNICAL INFORMATIONS

Minimum Flow Rate (m3/h)	1270
Nominal Flow Rate (m3/h)	4950
Efficiency (-5°C OA, 22°C 50%RH RA)	51%
Weight (kg)	190
Fresh Air Filter	Coarse (G4)
Exhaust Filter	Coarse (G4)
Operating Temperature (1) (°C)	-12/+46

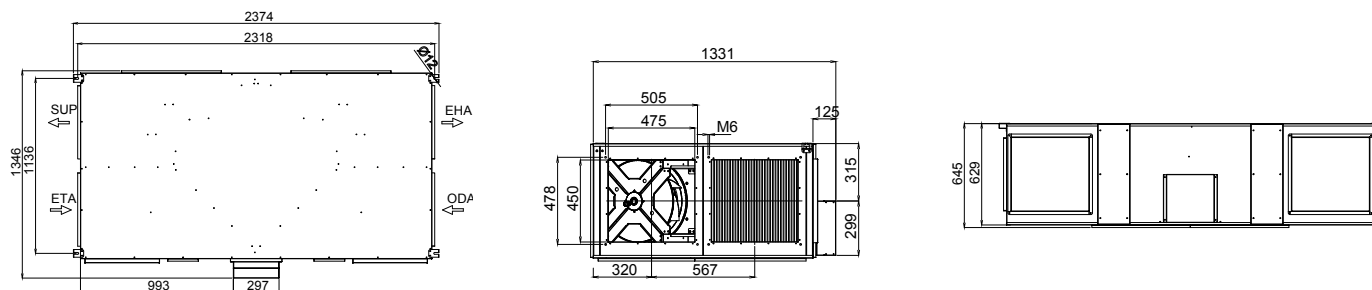
Electrical Informations

Communicating Informations	Modbus RTU
Supply Voltage	230V, 1~, 50 Hz
Total Power (1) (kW)	1,3
Maksimum Current (A)	5,4

Sound Information (2)

Surrounding Sound 3m. Distance (dBA)	58
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■ DIMENSIONS [mm]



ACCESSORIES

Electric Pre Heater	Optional	External of device	Page 134
Electric After Heater	Optional	Internal of device	Page 134
Water After Heater	Optional	Internal of device	Page 134
Water Cooler	-	-	-
Duct Connection Damper	-	-	
Outside Protection Sheet	-	-	
Fresh Air Spigot	-	-	
Exhaust Spigot	-	-	
Drainage Pump	Optional	Page 135	
Bulk Siphon	Optional	Page 137	
Room Control Panel Type1	Standard	-	
Room Control Panel Type2	-	-	
Room Control Panel Type3	-	-	
Cloud Connections Right	-	-	
VOD Sensor CO2	Optional	Page 137	
VOD Sensor RH%	Optional	Page 137	
VOD Sensor VOC	Optional	Page 137	
Signal Converter	Optional	Page 137	
Constant Pressure Kit	-	-	

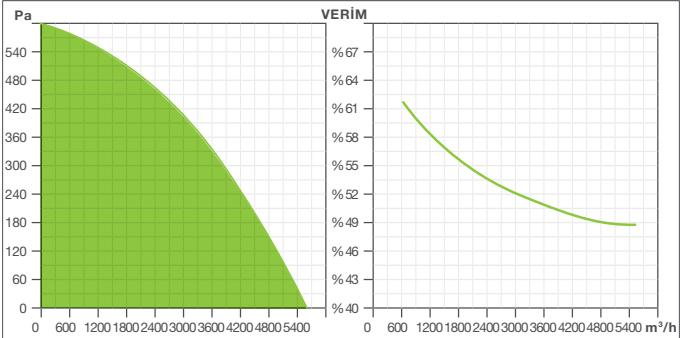
Exhaust Filter Coarse	Standard	
Exhaust Filter ePM10 50%	Standard	
Fresh Air Filter Coarse	Standard	
Fresh Air Filter ePM10 50%	Optional	Page 136
Fresh Air Filter ePM1 55%	Standard	
Fresh Air Filter ePM1 80%	Optional	Page 136

- (1) Together with Electrical Preheater
- (2) As a result of the measurement according to ISO 5136
- (3) Outside Kit is used
- (4) Bidirectional installation is provided via service covers located at front and back
- (5) Humidity transfer is possible with the selection of Adsorption Rotor

■ VESTA HR 60



■ FAN PERFORMANCE CURVES



UNIT INFORMATION

	VESTA HR 60
Exchanger Type	Aluminum Plate Cross Flow
Fan Type	AC Plug Fan
ERP Compatibility	-
Installation	Indoor
Installation Position	Horizontal
Service Location	Side and Bottom
Case structure	10 mm Insulated Single Walled

TECHNICAL INFORMATIONS

Minimum Flow Rate (m3/h)	2240
Nominal Flow Rate (m3/h)	5640
Efficiency (-5°C OA, 22°C 50%RH RA)	49%
Weight (kg)	210
Fresh Air Filter	Coarse (G4)
Exhaust Filter	Coarse (G4)
Operating Temperature (1) (°C)	-12/+46

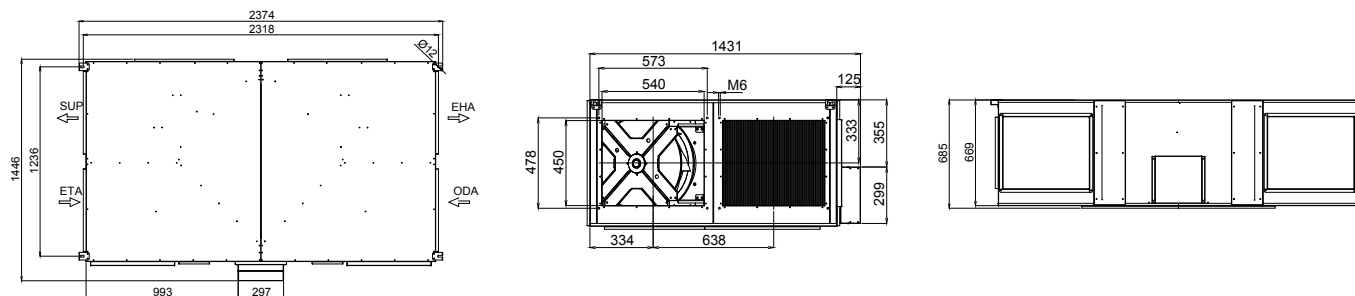
Electrical Informations

Communicating Informations	Modbus RTU
Supply Voltage	230V, 1~, 50 Hz
Total Power (1) (kW)	1,9
Maksimum Current (A)	3,8

Sound Information (2)

Surrounding Sound 3m. Distance (dBA)	52
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■ DIMENSIONS [mm]



ACCESSORIES

Electric Pre Heater	Optional	External of device	Page 134
Electric After Heater	Optional	Internal of device	Page 134
Water After Heater	Optional	Internal of device	Page 134
Water Cooler	-	-	-
Duct Connection Damper	-	-	
Outside Protection Sheet	-	-	
Fresh Air Spigot	-	-	
Exhaust Spigot	-	-	
Drainage Pump	Optional	Page 135	
Bulk Siphon	Optional	Page 137	
Room Control Panel Type1	Standard	-	
Room Control Panel Type2	-	-	
Room Control Panel Type3	-	-	
Cloud Connections Right	-	-	
VOD Sensor CO2	Optional	Page 137	
VOD Sensor RH%	Optional	Page 137	
VOD Sensor VOC	Optional	Page 137	
Signal Converter	Optional	Page 137	
Constant Pressure Kit	-	-	

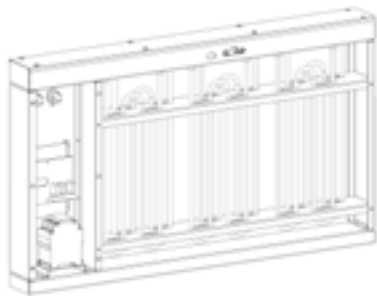
Exhaust Filter Coarse	Standard	
Exhaust Filter ePM10 50%	Standard	
Fresh Air Filter Coarse	Standard	
Fresh Air Filter ePM10 50%	Optional	Page 136
Fresh Air Filter ePM1 55%	Standard	
Fresh Air Filter ePM1 80%	Optional	Page 136

- (1) Together with Electrical Preheater
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- (3) Outside Kit is used
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- (5) Humidity transfer is possible with the selection of Adsorption Rotor

ACCESSORIES

■ ELECTRICAL PREHEATER

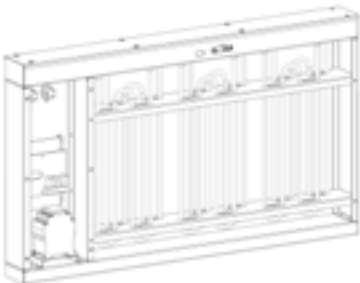
Used in order to prevent freezing at the exchanger in the situations which the outside air is very low. Controlled as a single step with SENSO control. Provides controllable energy efficiency with SENSO+ control via proportional signal.



Model	Heater Capacity (kW)	Current (A)	Control
VT-PREH 07	1,2	5,2	On/off
VT-PREH-12	2	2,8	On/off
VT-PREH-15	2,4	3,4	On/off
VT-PREH-20	3	4,2	On/off
VT-PREH-30	4,5	6,3	On/off
VT-PREH-40	6	8,4	On/off
VT-PREH-50	7,5	10,5	On/off
VT-PREH-60	9	12,6	On/off

■ ELECTRICAL AFTER HEATER

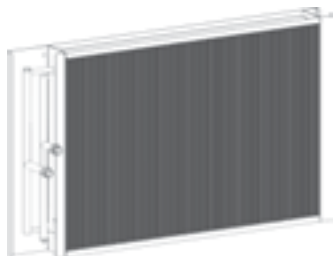
Used for increasing the supply air temperature. Operates automatically according to desired room temperature or desired supply temperature. Controlled as a single step with SENSO control. Provides controllable energy efficiency with SENSO+ control via proportional signal.



Model	Heater Capacity (kW)	Current (A)	Control
VT-POEH 07	1,2	5,2	On/off
VT-POEH-12	2	2,8	On/off
VT-POEH-15	2,4	3,4	On/off
VT-POEH-20	3	4,2	On/off
VT-POEH-30	4,5	6,3	On/off
VT-POEH-40	6	8,4	On/off
VT-POEH-50	7,5	10,5	On/off
VT-POEH-60	9	12,6	On/off

■ WATER AFTER HEATER

Used for increasing the supply air temperature. Operates automatically according to desired room temperature or desired supply temperature. Controlled as a single step with SENSO control. Provides controllable energy efficiency with SENSO+ control via proportional signal.



Model	Heater Capacity (kW)	Water Regime	Control
VT-POWH 07	1,2	80-60	On/off
VT-POWH-12	2	80-60	On/off
VT-POWH-15	2,4	80-60	On/off
VT-POWH-20	3	80-60	On/off
VT-POWH-30	4,5	80-60	On/off
VT-POWH-40	6	80-60	On/off
VT-POWH-50	7,5	80-60	On/off
VT-POWH-60	9	80-60	On/off

■ Drainage Pump

Used when unloading the water occurred from condensation at the exchanger or battery cell in the device not possible via the present slope.



Model	Maximum Flow (l/h)	Max Head (m)	Max Suction Height (m)	Energy Supply
DP 01	13	10	1,5	230 V, 50/60 Hz
DP 02	40	10	2	230 V, 50/60 Hz

■ SENSO HMI

The keypad user panel provides the communication with main PCB via the AERA-link protocol. Connection is made with 2x0.75 mm² cable.



Model
SENSO HMI

ACCESSORIES

■ FILTER

In the projects, it is designed as a standard for more sensitive than the present filter's filtering



Model	Code
Egzoz Hava filtresi ePM10 50%	HR7EAEPM10-50
	HR12EAEPM10-50
	HR15EAEPM10-50
	HR20EAEPM10-50
	HR30EAEPM10-50
	HR40EAEPM10-50
	HR50EAEPM10-50
Taze Hava filtresi ePM10 50%	HR60EAEPM10-50
	HR7FAEPM10-50
	HR12FAEPM10-50
	HR15FAEPM10-50
	HR20FAEPM10-50
	HR30FAEPM10-50
	HR40FAEPM10-50
Taze Hava filtresi ePM1 55%	HR50FAEPM10-50
	HR60FAEPM10-50
	HR7FAEPM1-55
	HR12FAEPM1-55
	HR15FAEPM1-55
	HR20FAEPM1-55
	HR30FAEPM1-55
	HR40FAEPM1-55
	HR50FAEPM1-55
	HR60FAEPM1-55

■BULK SIPHON

Used for disposal of water In the heat recovery sections, the result of condensation at the exhaust air or the result of condensation at the cooking batteries. Can operate in both positive negative pressure.



Model
SIPH

■VOD

Located in inside of critical volume or return duct, the optional air quality sensor (VOC or CO₂) or relative humidity sensor (RH%) consistently measures the air quality or relative humidity. This value, as being compared with set value which is arranged on control, creates operating which changes EC fan's fan speed. If the air in room is lower than desired air quality or the relative humidity is higher than the desired value, the fan speed is increased so, fresh air amount increased, if the air in room is higher than desired air quality or the relative humidity is lower than the desired value, the fan speed is decreased so, fresh air amount decreased; Thus, a significant energy save is provided at the heating or cooling loads caused by the fresh air.



Model	Measurement	Installation Position
VOD-VOC-RM	VOC	Room
VOD-VOC-DUCT	VOC	Channel
VOD-CO ₂ -DUCT	CO ₂	Room
VOD-CO ₂ -RM	CO ₂	Channel
VOD-RH-DUCT	RH%	Room
VOD-RH-RM	RH%	Channel
PS-MW	-	-

■Signal Converter

SENSO+ devices as make an access that connect up to 3 VOD sensors, both measure gas and different volume gases, change the capacity according to these measurements of air conditioning plants. Via Signal Converter, in 3 different types, for each type up to 6 measurements or obtained values from 18 different measurement volumes are used for controlling air conditioning plant is provided.



Model
SENSIO+ SK



SEPTEMBER 2019
THE MANUFACTURER RESERVES THE RIGHT TO CHANGE THE SPECIFICATION WITHOUT PRIOR NOTICE.

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