

A I R

I N N O V A T I O N



aera.com.tr | aerabim.com | aeracloud.com | aereselect.com

AZURE units are designed to meet today's increasing energy efficiency demand using heat recovery and low electrical energy consumption. Units are built using high technology modern components optimised for market needs and state of the art control systems.

Unique features of AZURE units

- High thermal efficiency, counterflow plate heat exchanger ($\eta > 93\%$).
- F7 on fresh air side, M5 class filter on exhaust air.
- High sound and heat insulation with 50 mm at the casing, 50 mm rock wool insulation on service doors.
- Optional electric preheater and water after heater integrated in the casing.

With advanced web interface automation, constant air flow (CAV), constant pressure (VAV), heating / cooling capacity control, extended alarm options, by-pass ventilation, yearly timer, CO₂ or humidity sensor option with filter pollution, ventilation on demand, connection to building automation systems and many other control options.

AZURE units consist of panels with high sound and heat insulation and rock wool insulation. It is made of Aluzinc sheet with high resistance to corrosion. The appliance is easily serviceable between the designed service doors and the suspended ceiling.

AZURE devices are designed in 6 different models between 150 m³ / h and 3500 m³ / h air flow requirement. F7 class filter is provided on the fresh air side of the units and M5 class filter is provided standard on the exhaust side. The units are produced according to European Union energy criteria and have ECO-DESIGN label. Supply air can be brought to the desired conditions with the optional electric preheater and hot water heater located inside the units.



AZURE

COUNTER FLOW
HEAT RECOVERY VENTILATION





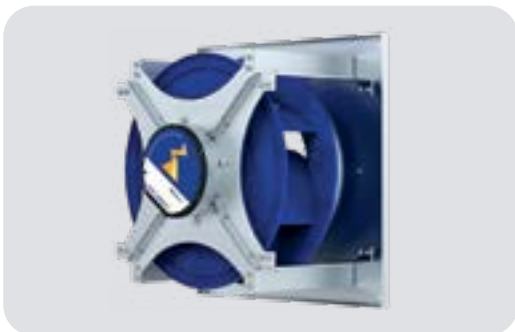
CASING

By using advanced technology components, Azure units achieve efficiency levels of today's and tomorrow's standards. The casing, which is developed using the latest engineering methods, also shows superior performance in terms of aerodynamics. The internal turbulence or dead zone losses are reduced to the minimum with the analysis.

In addition to achieving a high-strength design with patented fan support bracket design, the total efficiency is improved by avoiding dead zones and reverse flows which may occur behind the fan body.

AZURE units are designed with low air velocities, low filter and coil pressure drops are achieved despite its compact design. The fact that the electric preheater and the water type after heater can be placed inside the body contributes to the compact structure, preventing difficulties in wiring and automation. Water heating battery's piping has a specially designed connection, it provides high sealing and easy connection out of the casing.

AZURE units are designed in accordance with VDI6022. Inside of the unit is easily cleanable. The used seals are closed cell and prevent germ reproduction. 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.



FAN

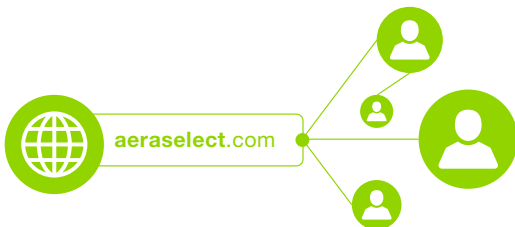
AZURE units are designed with high energy efficiency, low sound pressure and low power consumption plug fans. All the fans are compliant with ECO-DESIGN criteria by European Union Energy Committee and ErP 2015.

Plug fans with EC motors can be driven with 3 fixed speeds or steplessly with the help of an air quality sensor thanks to built in smart control system SENSO PLUS.

Plug fans with EC motors are AC-powered fans with DC motor technology. DC motor provides high electrical efficiency while it can be connected to AC mains via on board converter. It is perfectly in harmony with the hightech electronic components used and magnetic noise transmitted to the network is prevented.

SELECTION SOFTWARE (aerselect.com)

There is selection software to calculate the AZURE devices' performance results at the desired flow rates in the project. With the selection software from the address www.aerselect.com the devices can be selected easily suitable for the heating and cooling need with desired flow rate and the duct pressure. Devices automation and accessories can be defined via the software so, the device configuration is able to be done. Selection software can obtain the thermodynamic values, device measurements, ECO-DESIGN report and BIM file belongs to device as a print.





FILTER

AZURE units are produced with F7 class on the supply air side and M5 class filter on the exhaust side as ECO-DESIGN directives. With these highly efficient filters, indoor air quality is increased by keeping 90% of dust and particles up to diameter of 0,4 μm in the indoor environment.

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HEAT RECOVERY EXCHANGER

For the Azure devices, plate type heat recovery exchangers that works with the cross flow principles are used. Total high efficiency is provided with superior energy efficiency and low pressure drop. At the nominal rates the heat recovery reaches up to 93%. Between the exhaust and fresh air flows high impermeability is provided in the exchangers which are occurred by the aluminium plates which have the high corrosion resistance. The by-pass damper is provided as a standard. When the outside air temperature conditions are suitable, the fresh air directly is given to the place without going into the exchanger.



BIM FILES

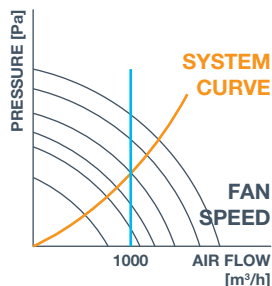
BIM files which belong to AZURE devices are uploaded from the address www.aerabim.com at the revit software can be used automatically. In the same way, with Magiccloud software or its plug-in it is possible to reach BIM files.

SENSO+

The advanced control system SENSO PLUS in AZURE Units, provides the most efficient control of all components which can be installed internally and as external accessories, ensuring the desired airflow conditions.

The SENSO PLUS control also provides system control besides equipment control, which means that the devices can be operated with the Yearly Timer Function according to the working periods: Daily, Weekly, Monthly or Yearly. In the Timer Function, values such as weekly working days, vacation times, daylight savings time can be defined and reported retrospectively.

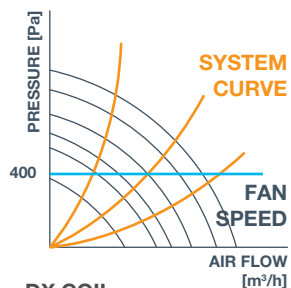
Besides, the Support Function which is used to prevent the undesired conditions from occurring indoors even when the device is not working. The indoor temperature from falling below or exceeding a certain value even during non-working hours is ensured.



Constant Air Volume

To meet the desired constant airflow requirement in the AZURE Handling Units, the SENSO PLUS control measures the air pressure drop in the suction ports of the fans and compares the air flow with the set value to produce a working signal that will change the EC fan fan speed.

Contamination of the filters can be controlled by static flow control within the fan operating curve, to the static pressure requirements of the unit which result in higher or lower than the project values.



Constant Air Pressure

In AZURE Units, constant pressure control is used to meet the variable airflow requirement of the air duct system. The SENSO PLUS control generates a working signal that will change the EC fan speed by continuously measuring the static pressure created in the supply air duct and comparing it with the value defined in the system. When a VAV damper opens or closes, higher or lower external static pressure needs can be met with constant pressure control within the fans operating curve. This way extreme noise in the ducts, unbalanced airflow distribution in different volumes is prevented.

DX COIL

Externally mounted duct type DX batteries are used for purposes such as lowering the supply air temperature, dehumidifying process and bringing the blown air to the desired temperature after dehumidification. It can be step controlled with on / off method, maximum 8 step setting is available.

HUMIDITY CONTROL EQUIPMENT

Humidity control equipments are used to raise or lower the humidity of the supply air. With the SENSO PLUS control, the humidifier / dehumidifiers can be controlled to bring the supply air to the desired humidity value.

COOLING COIL

Externally mounted duct-type water cooling coils are used for such purposes as lowering the blowing temperature and dehumidifying the air in the units. It can be driven either proportionally or by on / off method.

Heating Coil

Heating coils are used for increasing the supply air temperature and for bringing the supply air to the desired temperature after dehumidifying process. Hot water coils can be driven by proportional control via 2 or 3 way valves. With the SENSO PLUS control, frost protection mechanism is available as standard to prevent the temperature of the supply water from reaching freezing conditions in extreme cold climates. If the return water temperature falls below a certain value set on the control, the heating valve is switched to the 100% open position and a run signal is sent to the heating water circulation pump. If the temperature still does not rise to the desired value, the device is stopped and the user is given a freeze alarm.

Indoor Air Quality Control

The air quality sensor or the CO2 sensor, which is placed in the critical volume or return channel in the interior, continuously measures the air quality. This value generates a signal that will change the EC fan speed by comparing it to the set point on the controller. If the indoor air quality is lower than the desired value, the fan speed and thus the fresh air amount is increased; if the indoor air quality is higher than the desired indoor air quality, the fan speed and fresh air speed are decreased; Energy saving is achieved in considerable amounts in heating or cooling loads caused by fresh air.

FILTER POLLUTION CHECK

The pressure drops of the filters used to clean the air, can be controlled by SENSO PLUS control. Users are notified about the filter cleaning and replacement intervals. Pressure drop control can be made according to a constant pressure drop (Static) or variable air flow (Dynamic). Especially with units designed with variable speed fans, Dynamic Filter Control enables filter service at the right time.

USER INTERFACE

With SENSO+ EVO ECO control panel which has buttons or EVO TOUCH 7" touch screen control panel is presented. Also there is a web server for observing or controlling the device which is integrated in the card. On the server the settings can be done, also both of the instantaneous operating values and history of operating values are able to be followed.



The web server on SENSO+, as connecting to web, via a computer/tablet or a mobile phone at anywhere in the world, operating situation can be viewed and the access for changing the settings is provided. Without needing a complex web settings, this feature can be activated with a simple web connected cable.

The devices in the different projects, with cumulating all of the devices in the same display, as it is synchronized, operating values, active alarms etc. values as followed and the settings can be changed if it is desired. Especially in the projects within the multiple devices or for servicing the multiple devices in different places this system is provided optionally together with SENSO+ .

COMMUNICATION OPTIONS

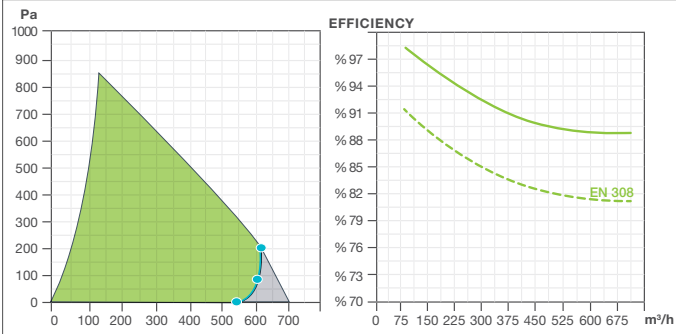
SENSO PLUS control supports all of the universal communication protocols and interacts with other air handling units as well as with other building automation systems. ModBUS, BACnet and EXOline protocols are open as standard and there is also possibility to connect with LONWORKS protocol as an option.



■ AZURE 500



■ FAN PERFORMANCE CURVES



UNIT INFORMATION

	AZURE 500
Exchanger Type	Aluminum Plate With Counter Flow
Fan Type	EC Plug Fan
ERP Compatibility	ERP 2018
Installation	Inside
Installation Position	Horizontal
Service Location	From side and under
Case structure	50 mm Insulated Double Walled

TECHNICAL INFORMATIONS

Minimum Flow Rate (m3/h)	130
Nominal Flow Rate (m3/h)	590
Efficiency (EN 308)	84%
Efficiency (-5°C OA, 22°C 50%RH RA)	91%
Weight (kg)	130
According to EN 1886 Case Features	D1/L1/TB3/T3
Fresh Air Filter	ePM1 55% (F7)
Exhaust Filter	ePM10 50% (M5)
Operating Temperature (1) (°C)	-20/+50
Protecting Class	IP 31

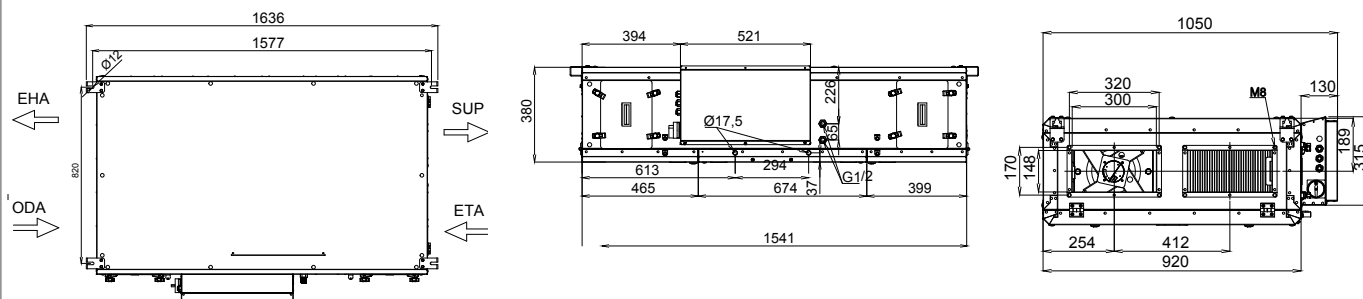
Electrical Informations

Communicating Informations	BACnet, Modbus TCP/IP
Supply Voltage	230V, 1~, 50 Hz
Total Power (1) (kW)	1,6
Maksimum Current (A)	17,3

Sound Information (2)

Sound Level at Supply (dBA)	71
Sound Level at Return (dBA)	64
Surrounding Sound 1m. Distance (dBA)	43
Surrounding Sound 3m. Distance (dBA)	33
Surrounding Sound 5m. Distance (dBA)	29

■ DIMENSIONS [mm]



ACCESSORIES

Electric Preheater	Standard		
Electric After Heater	Optional	Internal of device	Page 26
Water After Heater	Optional	Internal of device	Page 26
Water Cooler	Optional	External of device	Page 27
Duct Connection Damper	Optional	Page 27	
Outside Protection Sheet	-	-	
Fresh Air Spigot	-	-	
Exhaust Spigot	-	-	
Drainage Pump	Optional	Page 27	
Bulk Siphon	Optional	Page 30	
Room Control Panel Type1	EVO ECO	Page 28	
Room Control Panel Type2	EVO TOUCH	Page 28	
Room Control Panel Type3	-	-	
Cloud Connections Right	Optional	Page 29	
VOD Sensor CO2	Optional	Page 30	
VOD Sensor RH%	Optional	Page 30	
VOD Sensor VOC	Optional	Page 30	
Signal Converter	Optional	Page 29	
Constant Pressure Kit	Optional	Page 29	

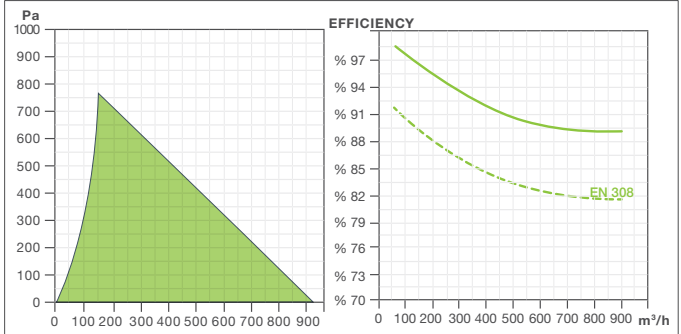
Exhaust Filter Coarse	-	
Exhaust Filter ePM10 50%	Standard	
Fresh Air Filter Coarse	-	
Fresh Air Filter ePM10 50%	Optional	Page 28
Fresh Air Filter ePM1 55%	Standard	
Fresh Air Filter ePM1 80%	Optional	Page 28

- (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

■ AZURE 700



■ FAN PERFORMANCE CURVES



UNIT INFORMATION

	AZURE 700
Exchanger Type	Aluminum Plate With Counter Flow
Fan Type	EC Plug Fan
ERP Compatibility	ERP 2018
Installation	Inside
Installation Position	Horizontal
Service Location	From side and under
Case structure	50 mm Insulated Double Walled

TECHNICAL INFORMATIONS

Minimum Flow Rate (m3/h)	155
Nominal Flow Rate (m3/h)	905
Efficiency (EN 308)	83%
Efficiency (-5°C OA, 22°C 50%RH RA)	90%
Weight (kg)	155
According to EN 1886 Case Features	D1/L1/TB3/T3
Fresh Air Filter	ePM1 55% (F7)
Exhaust Filter	ePM10 50% (M5)
Operating Temperature (1) (°C)	-20/+50
Protecting Class	IP 31

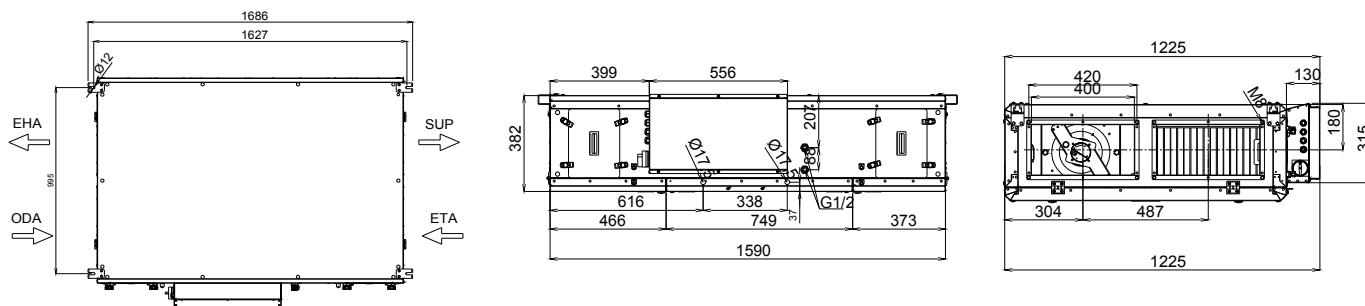
Electrical Informations

Communicating Informations	BACnet, Modbus TCP/IP
Supply Voltage	400V, 3~, 50 Hz
Total Power (1) (kW)	2,3
Maksimum Current (A)	9,7

Sound Information (2)

Sound Level at Supply (dBA)	68
Sound Level at Return (dBA)	61
Surrounding Sound 1m. Distance (dBA)	41
Surrounding Sound 3m. Distance (dBA)	31
Surrounding Sound 5m. Distance (dBA)	27

■ DIMENSIONS [mm]



ACCESSORIES

Electric Preheater	Standard		
Electric After Heater	Optional	Internal of device	Page 26
Water After Heater	Optional	Internal of device	Page 26
Water Cooler	Optional	External of device	Page 27
Duct Connection Damper	Optional		Page 27
Outside Protection Sheet	-	-	
Fresh Air Spigot	-	-	
Exhaust Spigot	-	-	
Drainage Pump	Optional		Page 27
Bulk Siphon	Optional		Page 30
Room Control Panel Type1	EVO ECO		Page 28
Room Control Panel Type2	EVO TOUCH		Page 28
Room Control Panel Type3	-	-	
Cloud Connections Right	Optional		Page 29
VOD Sensor CO2	Optional		Page 30
VOD Sensor RH%	Optional		Page 30
VOD Sensor VOC	Optional		Page 30
Signal Converter	Optional		Page 29
Constant Pressure Kit	Optional		Page 29

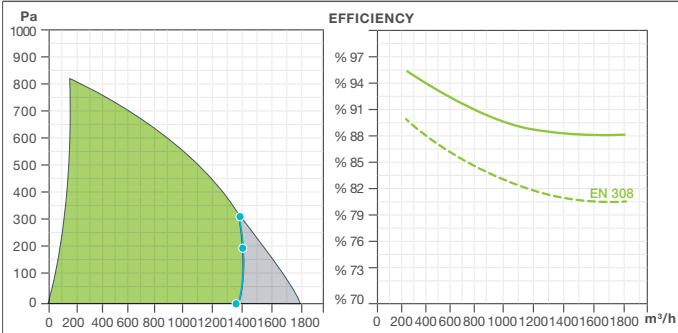
Exhaust Filter Coarse	-
Exhaust Filter ePM10 50%	Standard
Fresh Air Filter Coarse	-
Fresh Air Filter ePM10 50%	Optional
Fresh Air Filter ePM1 55%	Standard
Fresh Air Filter ePM1 80%	Optional

- (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

■ AZURE 1400



■ FAN PERFORMANCE CURVES



UNIT INFORMATION

	AZURE 1400
Exchanger Type	Aluminum Plate With Counter Flow
Fan Type	EC Plug Fan
ERP Compatibility	ERP 2018
Installation	Inside
Installation Position	Horizontal
Service Location	From side and under
Case structure	50 mm Insulated Double Walled

TECHNICAL INFORMATIONS

Minimum Flow Rate (m³/h)	170
Nominal Flow Rate (m³/h)	1520
Efficiency (EN 308)	84%
Efficiency (-5°C OA, 22°C 50%RH RA)	91%
Weight (kg)	200
According to EN 1886 Case Features	D1/L1/TB3/T3
Fresh Air Filter	ePM1 55% (F7)
Exhaust Filter	ePM10 50% (M5)
Operating Temperature (1) (°C)	-20/+50
Protecting Class	IP 31

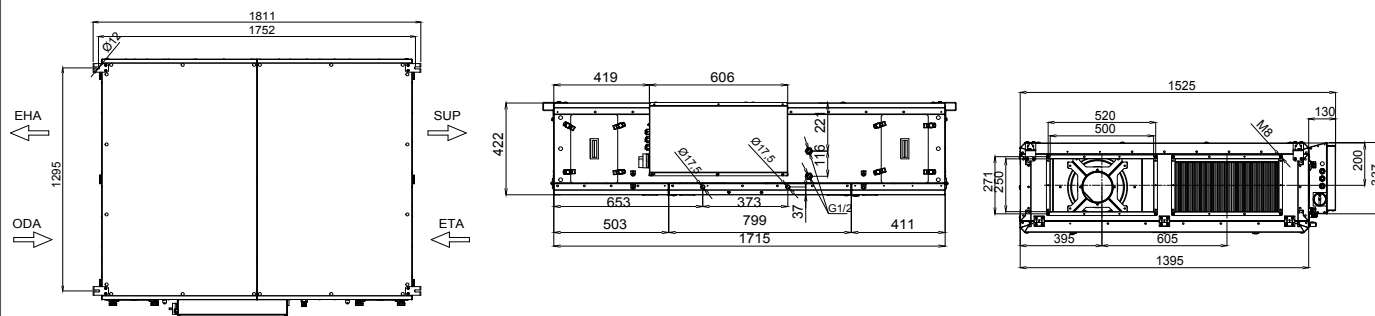
Electrical Informations

Communicating Informations	BACnet, Modbus TCP/IP
Supply Voltage	400V, 3~, 50 Hz
Total Power (1) (kW)	4,5
Maksimum Current (A)	15,2

Sound Information (2)

Sound Level at Supply (dBA)	71
Sound Level at Return (dBA)	63
Surrounding Sound 1m. Distance (dBA)	46
Surrounding Sound 3m. Distance (dBA)	37
Surrounding Sound 5m. Distance (dBA)	32

■ DIMENSIONS [mm]



ACCESSORIES

Electric Pre Heater	Standard		
Electric After Heater	Optional	Internal of device	Page 26
Water After Heater	Optional	Internal of device	Page 26
Water Cooler	Optional	External of device	Page 27
Duct Connection Damper	Optional	Page 27	
Outside Protection Sheet	-	-	
Fresh Air Spigot	-	-	
Exhaust Spigot	-	-	
Drainage Pump	Optional	Page 27	
Bulk Siphon	Optional	Page 30	
Room Control Panel Type1	EVO ECO	Page 28	
Room Control Panel Type2	EVO TOUCH	Page 28	
Room Control Panel Type3	-	-	
Cloud Connections Right	Optional	Page 29	
VOD Sensor CO2	Optional	Page 30	
VOD Sensor RH%	Optional	Page 30	
VOD Sensor VOC	Optional	Page 30	
Signal Converter	Optional	Page 29	
Constant Pressure Kit	Optional	Page 29	

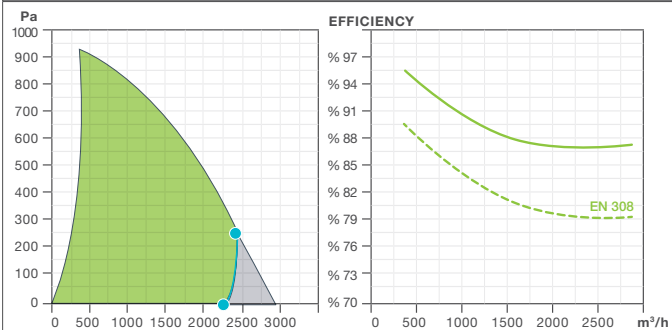
Exhaust Filter Coarse	-	
Exhaust Filter ePM10 50%	Standard	
Fresh Air Filter Coarse	-	
Fresh Air Filter ePM10 50%	Optional	Page 28
Fresh Air Filter ePM1 55%	Standard	
Fresh Air Filter ePM1 80%	Optional	Page 28

- (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

■ AZURE 2200



■ FAN PERFORMANCE CURVES



UNIT INFORMATION

	AZURE 2200
Exchanger Type	Aluminum Plate With Counter Flow
Fan Type	EC Plug Fan
ERP Compatibility	ERP 2018
Installation	Inside
Installation Position	Horizontal
Service Location	From side and under
Case structure	50 mm Insulated Double Walled

TECHNICAL INFORMATIONS

Minimum Flow Rate (m³/h)	280
Nominal Flow Rate (m³/h)	2360
Efficiency (EN 308)	83%
Efficiency (-5°C OA, 22°C 50%RH RA)	90%
Weight (kg)	285
According to EN 1886 Case Features	D1/L1/TB3/T3
Fresh Air Filter	ePM1 55% (F7)
Exhaust Filter	ePM10 50% (M5)
Operating Temperature (1) (°C)	-20/+50
Protecting Class	IP 31

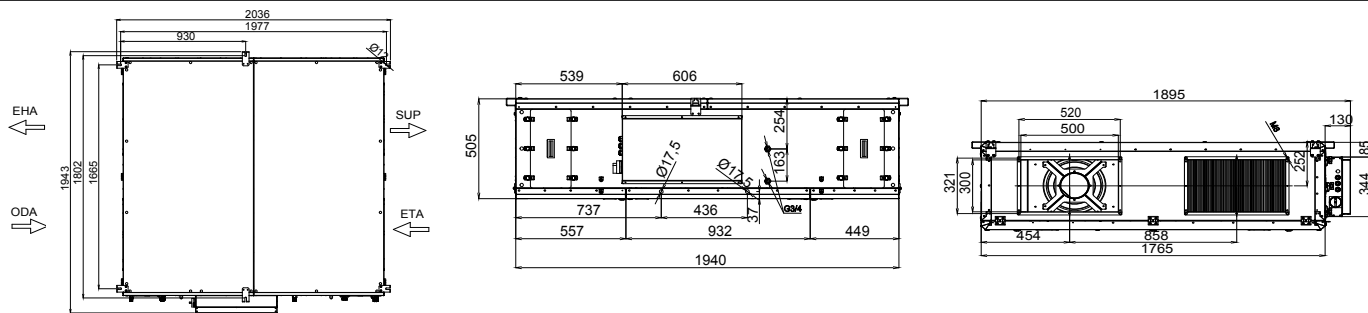
Electrical Informations

Communicating Informations	BACnet, Modbus TCP/IP
Supply Voltage	400V, 3~, 50 Hz
Total Power (1) (kW)	7,1
Maksimum Current (A)	23,8

Sound Information (2)

Sound Level at Supply (dBA)	73
Sound Level at Return (dBA)	65
Surrounding Sound 1m. Distance (dBA)	47
Surrounding Sound 3m. Distance (dBA)	38
Surrounding Sound 5m. Distance (dBA)	33

■ DIMENSIONS [mm]



ACCESSORIES

Electric Preheater	Standard		
Electric After Heater	Optional	Internal of device	Page 26
Water After Heater	Optional	Internal of device	Page 26
Water Cooler	Optional	External of device	Page 27
Duct Connection Damper	Optional		Page 27
Outside Protection Sheet	-	-	
Fresh Air Spigot	-	-	
Exhaust Spigot	-	-	
Drainage Pump	Optional		Page 27
Bulk Siphon	Optional		Page 30
Room Control Panel Type1	EVO ECO		Page 28
Room Control Panel Type2	EVO TOUCH		Page 28
Room Control Panel Type3	-	-	
Cloud Connections Right	Optional		Page 29
VOD Sensor CO2	Optional		Page 30
VOD Sensor RH%	Optional		Page 30
VOD Sensor VOC	Optional		Page 30
Signal Converter	Optional		Page 29
Constant Pressure Kit	Optional		Page 29

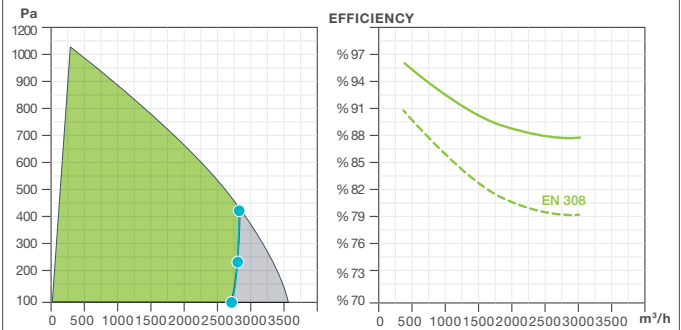
Exhaust Filter Coarse	-	
Exhaust Filter ePM10 50%	Standard	
Fresh Air Filter Coarse	-	
Fresh Air Filter ePM10 50%	Optional	Page 28
Fresh Air Filter ePM1 55%	Standard	
Fresh Air Filter ePM1 80%	Optional	Page 28

- (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

■ AZURE 3200



■ FAN PERFORMANCE CURVES



UNIT INFORMATION

	AZURE 3200
Exchanger Type	Aluminum Plate With Counter Flow
Fan Type	EC Plug Fan
ERP Compatibility	ERP 2018
Installation	Inside
Installation Position	Horizontal
Service Location	From side and under
Case structure	50 mm Insulated Double Walled

TECHNICAL INFORMATIONS

Minimum Flow Rate (m3/h)	320
Nominal Flow Rate (m3/h)	3100
Efficiency (EN 308)	83%
Efficiency (-5°C OA, 22°C 50%RH RA)	90%
Weight (kg)	370
According to EN 1886 Case Features	D1/L1/TB3/T3
Fresh Air Filter	ePM1 55% (F7)
Exhaust Filter	ePM10 50% (M5)
Operating Temperature (1) (°C)	-20/+50
Protecting Class	IP 31

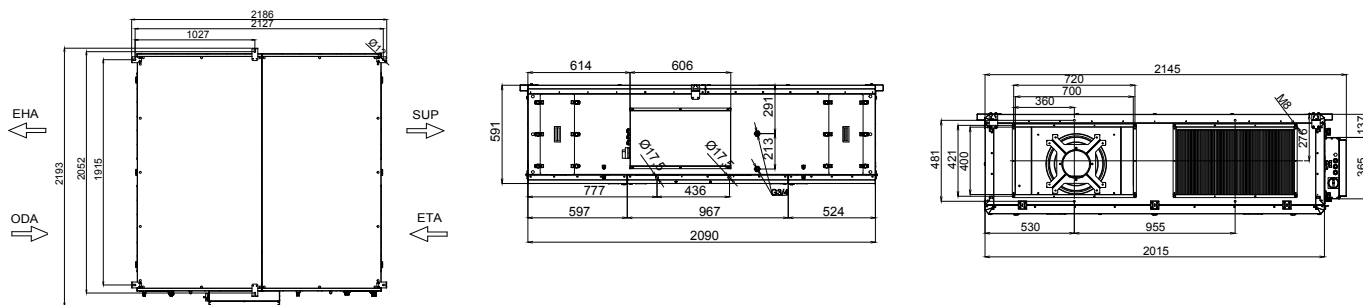
Electrical Informations

Communicating Informations	BACnet, Modbus TCP/IP
Supply Voltage	400V, 3~, 50 Hz
Total Power (1) (kW)	10,5
Maksimum Current (A)	36,1

Sound Information (2)

Sound Level at Supply (dBA)	77
Sound Level at Return (dBA)	69
Surrounding Sound 1m. Distance (dBA)	52
Surrounding Sound 3m. Distance (dBA)	43
Surrounding Sound 5m. Distance (dBA)	38

■ DIMENSIONS [mm]



ACCESSORIES

Electric Preheater	Standard		
Electric After Heater	Optional	Internal of device	Page 26
Water After Heater	Optional	Internal of device	Page 26
Water Cooler	Optional	External of device	Page 27
Duct Connection Damper	Optional		Page 27
Outside Protection Sheet	-	-	
Fresh Air Spigot	-	-	
Exhaust Spigot	-	-	
Drainage Pump	Optional		Page 27
Bulk Siphon	Optional		Page 30
Room Control Panel Type1	EVO ECO		Page 28
Room Control Panel Type2	EVO TOUCH		Page 28
Room Control Panel Type3	-	-	
Cloud Connections Right	Optional		Page 29
VOD Sensor CO2	Optional		Page 30
VOD Sensor RH%	Optional		Page 30
VOD Sensor VOC	Optional		Page 30
Signal Converter	Optional		Page 29
Constant Pressure Kit	Optional		Page 29

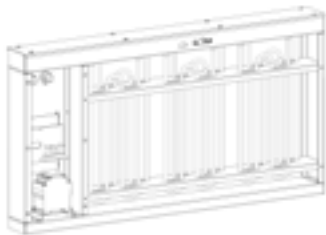
Exhaust Filter Coarse	-	
Exhaust Filter ePM10 50%	Standard	
Fresh Air Filter Coarse	-	
Fresh Air Filter ePM10 50%	Optional	Page 28
Fresh Air Filter ePM1 55%	Standard	
Fresh Air Filter ePM1 80%	Optional	Page 28

- (1) Together with Electrical Preheater
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ACCESSORIES

■ ELECTRICAL PRE HEATER

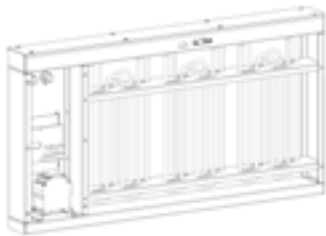
Used in order to prevent freezing at the exchanger in the situations which the outside air is very low. Controlled as a single step with SENSO control. Provides controllable energy efficiency with SENSO+ control via proportional signal.



Model	Heater Capacity (kW)	Current (A)	Control
AZ-PREH 500	1,6	7	Oransal
AZ-PREH 700	2,3	3,3	Oransal
AZ-PREH 1400	4,5	6,5	Oransal
AZ-PREH 2200	7,05	10,2	Oransal
AZ-PREH 3200	10,5	15,2	Oransal

■ ELECTRICAL AFTER HEATER

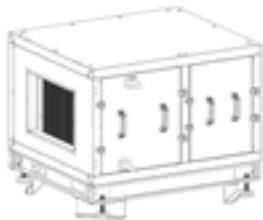
Used for increasing the supply air temperature. Operates automatically according to desired room temperature or desired supply temperature. Controlled as a single step with SENSO control. Provides controllable energy efficiency with SENSO+ control via proportional signal.



Model	Heater Capacity(kW)	Current (A)	Control
AZ-POEH 500	1,6	7	Oransal
AZ-POEH 700	2,3	3,3	Oransal
AZ-POEH 1400	4,5	6,5	Oransal
AZ-POEH 2200	7,05	10,2	Oransal
AZ-POEH 3200	10,5	15,2	Oransal

■ WATER AFTER HEATER

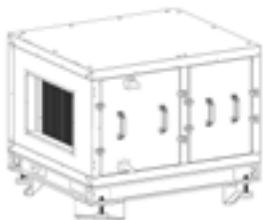
Used for increasing the supply air temperature. Operates automatically according to desired room temperature or desired supply temperature. Controlled as a single step with SENSO control. Provides controllable energy efficiency with SENSO+ control via proportional signal.



Model	Heater Capacity (kW)	Water Regime	Control
AZ-POWH 500	1,6	80-60	Oransal
AZ-POWH 700	2,3	80-60	Oransal
AZ-POWH 1400	4,5	80-60	Oransal
AZ-POWH 2200	7,05	80-60	Oransal
AZ-POWH 3200	10,5	80-60	Oransal

■ WATER COOLING

Used for cooling inside, water type cooling batteries are existed as accesories. With SENSO+ control, controlled proportionally according to desired supply temperature or desired room temperature.



Model	Heater Capacity (kW)	Water Regime	Control
AZ-KR 500	1,5	7-12	Oransal
AZ-KR 700	2	7-12	Oransal
AZ-KR 1400	4	7-12	Oransal
AZ-KR 2200	6	7-12	Oransal
AZ-KR 3200	9	7-12	Oransal

■ Duct Connection Damper

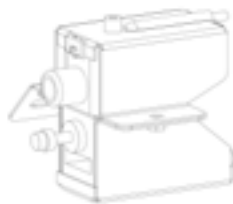
The motor operated damper, as turned itself off when the devices is turned off, prevent the leakage can be occurred via air duct. Has the Class 3 impermeability as a standard.



Model	Operation Time	Energy Supply
AZ-DAMP 500	40...75 s	24C DC , yay geri dönüşlü
AZ-DAMP 700	40...75 s	24C DC , yay geri dönüşlü
AZ-DAMP 1400	40...75 s	24C DC , yay geri dönüşlü
AZ-DAMP 2200	40...75 s	24C DC , yay geri dönüşlü
AZ-DAMP 3200	40...75 s	24C DC , yay geri dönüşlü

■ 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.

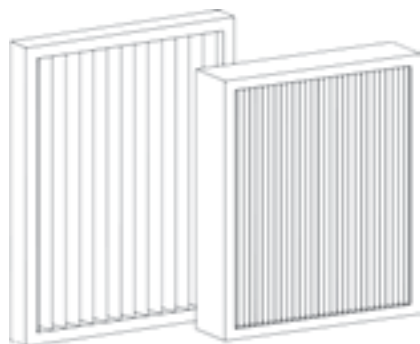


Model	Maximum Flow (l/h)	Max Head (m)	Max Suction Height (m)	Energy Supply
DP 01	13	10	1,5	230 V, 50/60 Hz
DP 02	40	10	2	230 V, 50/60 Hz

ACCESSORIES

■ FILTER

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



Model	Code
Fresh Air Filter ePM10 50%	AZ500FAEPM10-50
	AZ700FAEPM10-50
	AZ1400FAEPM10-50
	AZ2200FAEPM10-50
	AZ3200FAEPM10-50
Fresh Air Filter ePM1 80%	AZ500FAEPM1-80
	AZ700FAEPM1-80
	AZ1400FAEPM1-80
	AZ2200FAEPM1-80
	AZ3200FAEPM1-80

■ EVO-ECO

Is a user panel used as a user interface in the devices has the SENSO+ control card. Connected to control panel via 4x0.75 cable or RJ-12 Jack.



Model
EVO-ECO

■ EVO-TOUCH

Is a 7" sized touch type user panel used as a user interface. Connected to control panel via 4x0.75 cable or RJ-12 Jack.



Model
EVO-TOUCH

■ CLOUD CONNECTION

The web server on SENSO+, as connecting to web, via a computer/tablet or a mobile phone at anywhere in the world, operating situation can be viewed and the access for changing the settings is provided. Without needing a complex web settings, this feature can be activated with a simple web connected cable.



Model

SENSO+ CLOUD

■ Constant Pressure Kit

Used for serving the purpose of ventilation system's varying flow rate. SENSO+, creates the signal which can change EC fan's fan speed as measuring static pressure value consistently, as comparing with defined value to the system. Turning up or down the VAV damper which are different volume in duct system, serve the purpose of static pressure out of device as a result of higher or lower values than projected values with constant pressure control. In the fan operating characteristic, extreme volume sound occurred in the ducts and flow rate in different volumes are prevented.



Model

SENSO-CAP

■ 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

SENSO+ SK

ACCESSORIES

■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	-	-

■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

NOTES



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

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