AmberAir Compact
Product catalogue

EUROVENT CERTIFIED PERFORMANCE
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www.eurovent-certification.com

SALDA
SMART WAY TO HANDLE THE AIR

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The company reserves the right to make changes of technical data without prior notice

AmberAir Compact CX:
EXCEPTIONAL AIR HANDLING UNIT FOR YOUR PROJECT!

AmberAir Compact series offers combined flexibility of modular units and production speed of standardized units. 3D selection software makes modeling easy: select your unit from more than 4000 combinations and transfer directly to the ventilation system design drawings. Perfected construction leads to higher overall AHU efficiency approved by test results at independent laboratories. We guarantee extended durability, airtightness, thermal efficiency and smooth performance under European climatic conditions!

REASONS TO CHOOSE
AmberAir Compact

Customised air handling solution:
- Airflow up to 9000 m^3/h;
- Selectable components.

Hygienic level design:
- High draining efficiency–98% (5 l/m^2 at 20 min);
- Convenient servicing.

Reliability:
- Tested at conditions -35^0 C to +40^0 C, RH90%;
- Eurovent certification.

High energy efficiency:
- Heat recovery up to 92%.

AmberAir Compact CX
CREATES A PERFECT INDOOR CLIMATE IN:

Schools | **Offices** | **Retail stores** | **Public buildings** | **Industry** | **Hotels**

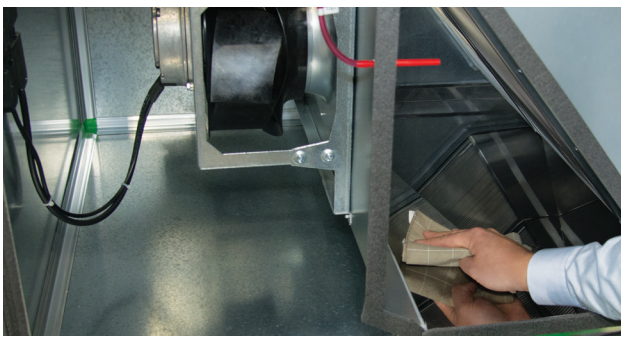
ADDITIONAL BONUSES
FOR RECONSTRUCTION PROJECTS!

You will easily find a place for an AmberAir Compact:
- Compact sizing for internal transportation and mounting in existing premises;
- Ceiling units can be installed under suspended ceilings due to their low height;
- All AmberAir Compacts are designed for outdoor installation with proper covering from precipitation;
- Silent performance makes the installation nearby working zones possible.

SERVICE FRIENDLY DESIGN
ENSURES THE PERFECT INDOOR CLIMATE

One of the main tasks in developing AmberAir Compact was to ensure easy servicing and cleaning.

› **Filter change.** Filter pollution is monitored by pressure switches. Filters are easily removable: in the CXP series there's even no need to remove the cover. This is critical when the unit hangs under the ceiling.



› **Cleaning.** Internal surfaces are easily accessible and resistant to most cleaners and disinfectants.

› **Component removal.** Components are conveniently removable for inspection. All of them can be changed with standard tools.

Easy and convenient servicing ensures long service life and low maintenace costs.

FIVE EFFICIENCY BONUSES

AmberAir Compact CXH provides the top energy savings in its class:

Up to 92% heat recovery

Efficient EC fans

External leakage<1%

Demand control ready ventilation*

Modulating control electrical heater

* RH sensor is integrated only in the CXP series; for other AmberAir Compact units it is available as an accessory with the other comfort sensors

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SMART AIR HANDLING

AmberAir Compact AHU is controlled by a remote panel, Ethernet, or mobile application. The unit can be connected to the BMS (building management system) via Modbus or BACnet/IP. The entire AHU has a demand level control option via comfort sensors such as CO_2, RH, presence detectors.

Connection to Ethernet: via MB-Gateway

Control panel

Demand ready control: integrated RH sensor (CXP) or optional CO_2 or presence sensors.

Mobile app for smartphone or tablet.

Connection to BMS via Modbus or BACnet/IP (via MB-Gateway) protocols

This set of functions ensures convenient air handling and a comfortable indoor climate and saves up to 30% electricity.

- 4 system modes
- Weekly Schedule
- Holiday Schedule
- Night cooling
- Constant pressure mode
- Constant airflow mode
- BOOST function
- Fireplace function
- CO_2 reduction
- Relative humidity reduction
- Protection against Dryness

QUALITY
CONFIRMED BY EXTENSIVE TESTING

Every AmberAir Compact unit went through testing in order to guarantee smooth performance in any conditions:

- Climatic chamber: thermal efficiency and performance at climate conditions of -35^0 C - +40^0 C, 90% RH and anti-frost protection of the heat exchanger;
- Multi tube airflow measurement chamber: aerodynamic characteristics of fans;
- Noise chamber: determination of sound power level.

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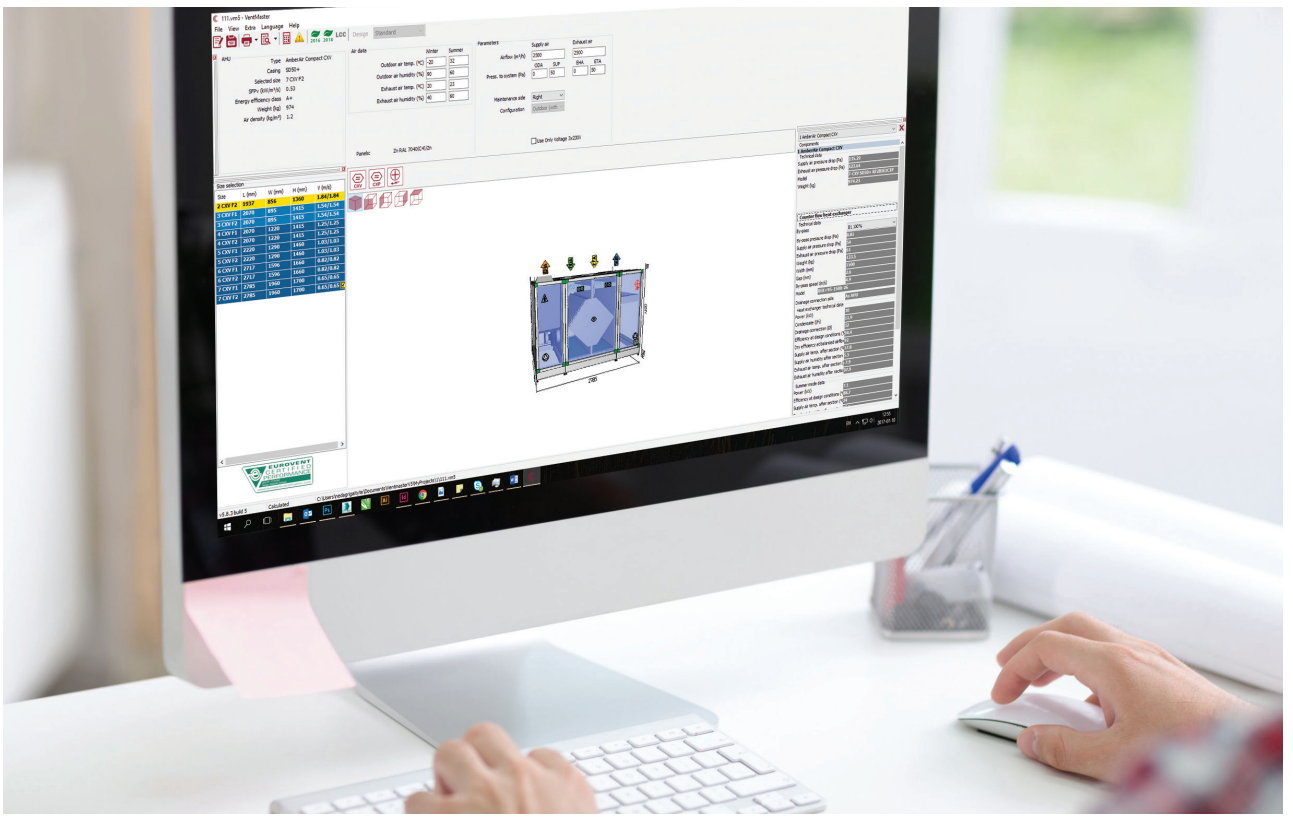
SMART SELECTION OF SOFTWARE

VENTMASTER V5



AmberAir Compact CX selection and modeling is easy with VentMaster:

- 3D modelling;
- Automatic heater capacity selection;
- Online price calculation and ordering (for registered users);
- Export of drawing in .DXF file;
- Export of drawing and technical data to Autodesk Revit;
- LCC calculation.

Select the most suitable solution by using an LCC calculator that includes:

- Primary investment;
- Electricity consumption of fans;
- Electricity, fuel or hot water consumption of heating elements.

Software is free of charge.

Go to www.salda.lt to get your VentMaster.

AmberAir Compact CXV

APPLICATION

Offices, stores, hotels, industry or other heated premises (classrooms, apartments, conference rooms, etc.)

DESCRIPTION

The AmberAir Compact CXV is designed to fulfil a client's desire for a reliable, efficient, commercial compact air handling unit with the flexibility of modular units. Certified selection software of VentMaster allows the design of a desired unit from a set of different components: fans, heaters, by-pass dampers, filters, etc.

REMOTE CONTROL

Four remote control options are available:
› Stouch remote controller.
› Flex MCB.
› Building management system connections MODBUS, BACnet/IP.
› Remote control via PC MB-Gateway (TPC/IP).
› SaldaAir app via MB-Gateway and WiFi.

FEATURES

› Customized compact air handling unit with selectable components.
› Top quality SD50+ casing: thermal bridging (TB2) and airtightness in the market (L1).
› Maintenance friendly: wide access via hinged doors and simple component removal.
› High efficiency: up to 92% heat recovery, new generation EC fans, smart demand ready control, 0-10V modulating controlled integrated electrical heater.
› Outdoor version as a standard in all European climate zones: tested in a climatic chamber.
› Easy 3D modelling and selection software VentMaster with export to .dxf or Autodesk Revit.

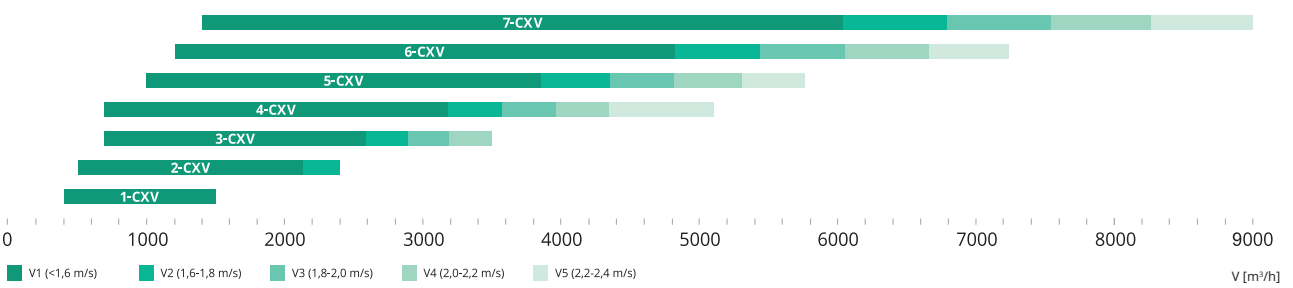
OPERATING CONDITIONS

Outdoor air temeperature without preheater (Salda Antifrost** off):	-5⁰/+40⁰ C*
Outdoor air temeperature without preheater (Salda Antifrost** on):	-15⁰/+40⁰ C
Outdoor air temperature with 100% by-pass***:	-23⁰/+40⁰ C
Outdoor air temperature with segmental by-pass***:	-30⁰/+40⁰ C
Outdoor air temperature limits with a selected pre-heater on an air duct:	-40⁰/+40⁰ C
Outdoor air max humidity:	90%
Temperature limits of an extracted air:	+15/+40⁰ C
Extract air max humidity:	60%
Maximum room temperature for installing the unit:	+40⁰ C

* – when relative humidity of extracted air is lower than 35 %.
** – uses dis-balancing of the airflow and it may cause negative pressure in premises.
*** – depends on AHU confguration.

L1

AIR FLOW DIAGRAM



PRODUCT CODE

AmberAir Compact **3 CX V SD50+ R F1 B1 W1 C1 P**

Product range - trademark

Unit size: 1 – first size; 7 - last size.

Heat exchanger: CX – counter-flow.

Casing: V – vertical.

Model box: SD50+ – premium;

Service side: R – right, L – left

Fan type: F1 – standard; F2 – more powerful; F3 – standart 3x230V; F4 – more powerful 3x230V

Bypass damper: B1 – 100%*; B2 – 100% with recirculation; B3 – segmented.

Heater: W1/W2 – water (1 – lower capacity, 2 – higher capacity); E1/E2/E3/E4 – electrical (1 – lower capacity, 2 – higher capacity, 3 – lower capacity 3x230V, 4 – higher capacity 3x230V).

Control: C1 – MCB control board; C2 – prewiring only; C3 – MCB + 3x230V.

Filter: P – panel; B – bag.

* - 100% means, that bypass damper separates airflows completely: all the supply airflow goes only through heat exchanger or only through bypass. The airflow though by-pass might be lower than maximal supply airflow of the unit.

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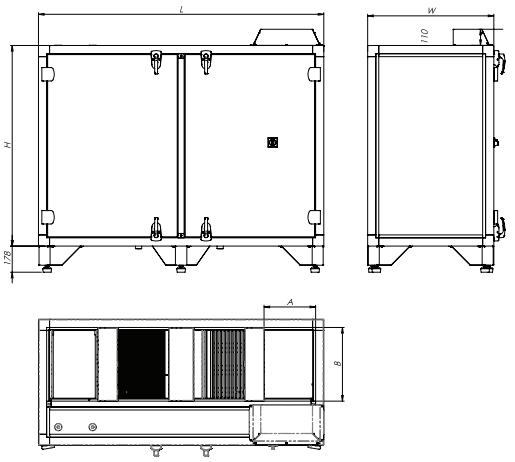
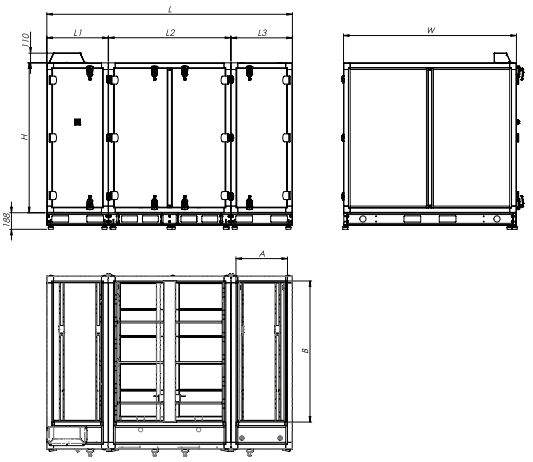
AmberAir Compact CXV

DIMENSIONS

AmberAir Compact 1-5CXV



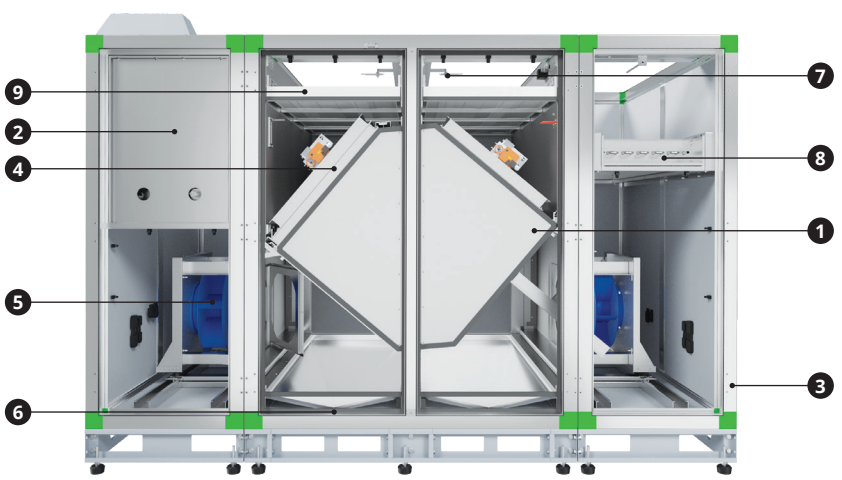
AmberAir Compact 6-7CXV



[mm]

Unit	A	B	L	L1	L2	L3	W	H
AmberAir Compact 1-CXV	300	500	1740	-	-	-	850	1300
AmberAir Compact 2-CXV	350	500	1935	-	-	-	855	1360
AmberAir Compact 3-CXV	350	600	2070	-	-	-	895	1415
AmberAir Compact 4-CXV	350	925	2070	-	-	-	1220	1415
AmberAir Compact 5-CXV	400	950	2220	-	-	-	1290	1460
AmberAir Compact 6-CXV	550	1250	2715	660	1385	660	1595	1660
AmberAir Compact 7-CXV	585	1600	2785	695	1385	695	1960	1700

CONSTRUCTION



1. Counter-flow aluminium heat exchanger:
- › Efficiency up to 92%;
- › Separated supply and exhaust air: virtually no moisture transfer, no mixing;
- › Low maintenance;
- › Pressure relays – anti-frost protection for heat exchanger.

2. Integrated advanced MCB control board:
- › Demand control ready ventilation;
- › Control by remote controllers, PC via MB-Gateway, SaldaAir application via WiFi or BMS (ModBus, BACnet/IP);
- › Fire damper control and testing;
- › El. heater/preheater 0-10V control;
- › Water heater/preheater control and protection;
- › DX/water cooler, air damper control;
- › Constant airflow mode.

3. SD50+ casing features:
- › Galvanized steel with powder coating panels;
- › Aluminium frame;
- › Thermal insulation: polyurethane 45 mm;
- › Thermal breaking profiles with 25 mm plastic strips;
- › Profiles internally rounded for easy cleaning.

4. 3 bypass types: 100%, with recirculation or segmented.

5. Efficient EC fans with backward curved impellers: 2 versions for each size.

6. Stainless steel drip tray – high draining efficiency – up to 98%.

7. 4 air temperature sensors (supply, extract, outdoor and exhaust).

8. Heater:
- › Integrated modulating control electric heater (signal 0-10V);
- › Integrated water heater. Available accessories for anti-frost protection.

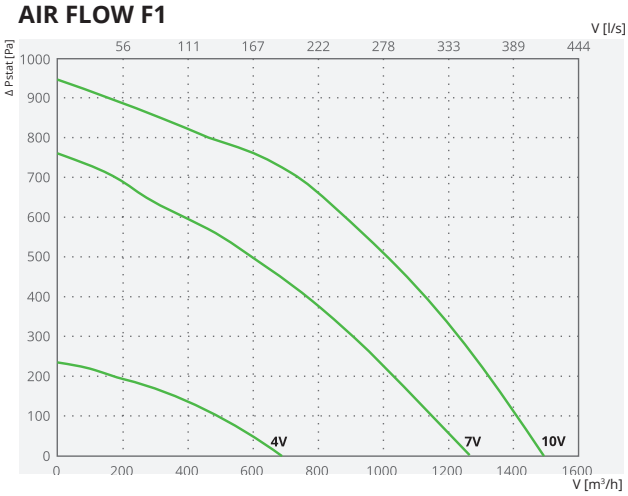
9. Filters:
- › Stitched pocket filters (external box) or panel filters (integrated);
- › Class: Coarse 65% (G4), ePM_{10} 55% (M5), ePM_1 70% (F7);
- › Filter pollution monitoring: pressure switches.

AmberAir Compact CXV

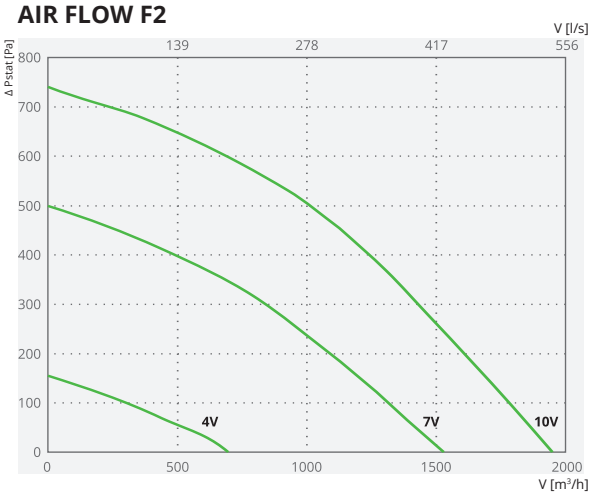
AmberAir Compact 1-CXVE/W

Performance
(with clean filter)

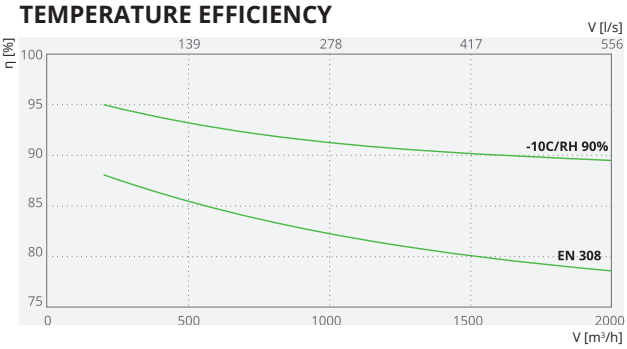
AIR FLOW F1



AIR FLOW F2



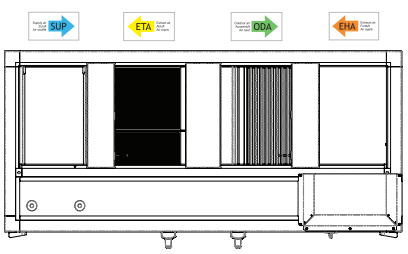
TEMPERATURE EFFICIENCY



Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

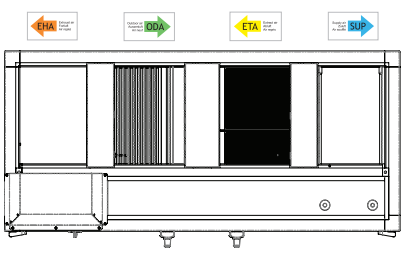
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



View from inspection side

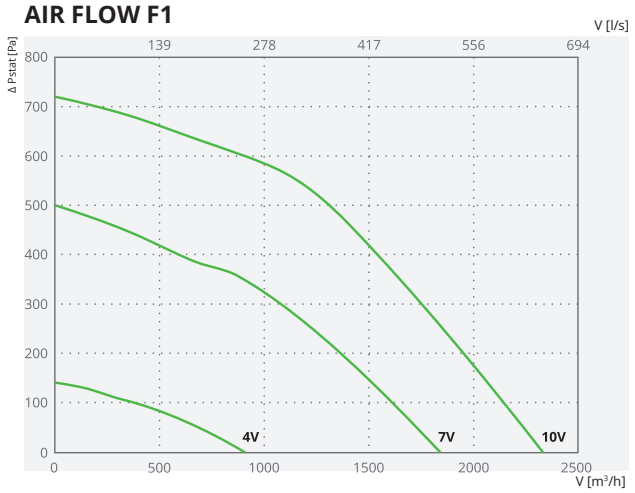
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]	~1, 230				-	-
		[kW]	2.00	3.00	2.00	3.00	-	-
Fans	phase/voltage	[50Hz/VAC]	~1, 230					
exhaust	power/current	[kW/A]	0.38/2.50		0.47/3.10		0.38/2.50	0.47/3.10
	fan speed	[min^{-1}]	3370		2530		3370	2530
supply	power/current	[kW/A]	0.38/2.50		0.47/3.10		0.38/2.50	0.47/3.10
	fan speed	[min^{-1}]	3370		2530		3370	2530
Max power consumption		[kW/A]	2.76/15.70	3.76/20.04	2.94/16.90	3.94/21.24	1.06/9.00	1.24/10.20
Power connection	phase/voltage	[50Hz/VAC]	~1, 230					
Control board			Comfort MCB					
Filter class	exhaust/supply		Coarse 65% (G4), ePM$_{10}$ 55% (M5), ePM$_1$ 70% (F7)					
Housing insulation, polyurethane		[mm]	45					
Colour	RAL	Grey	7040					
Weight (net, without packing)		[kg]	243		244		237	238
Comply with ERP			2018					
Operation			indoor/outdoor (with roofing)					

The company reserves the right to make changes of technical data without prior notice

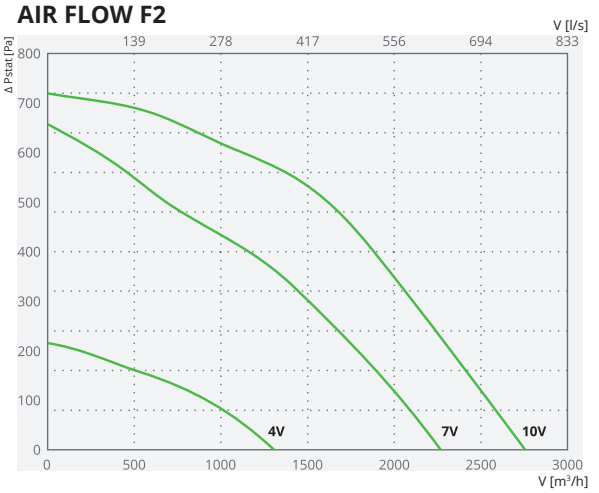
AmberAir Compact 2-CXVE/W

Performance
(with clean filter)

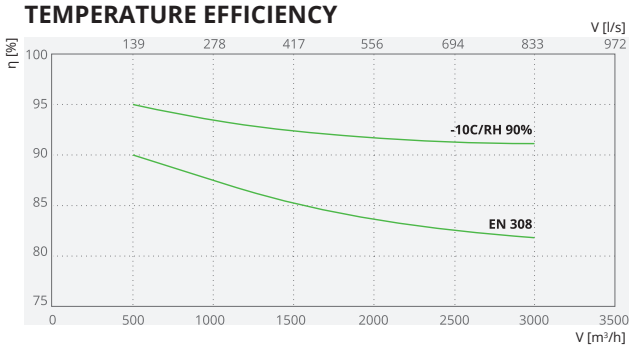
AIR FLOW F1



AIR FLOW F2



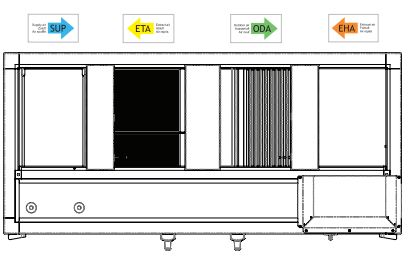
TEMPERATURE EFFICIENCY



Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

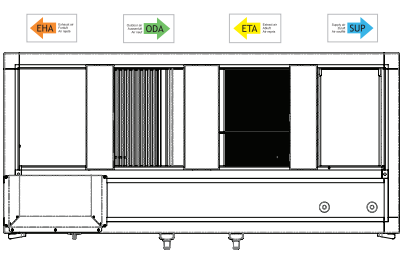
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



View from inspection side

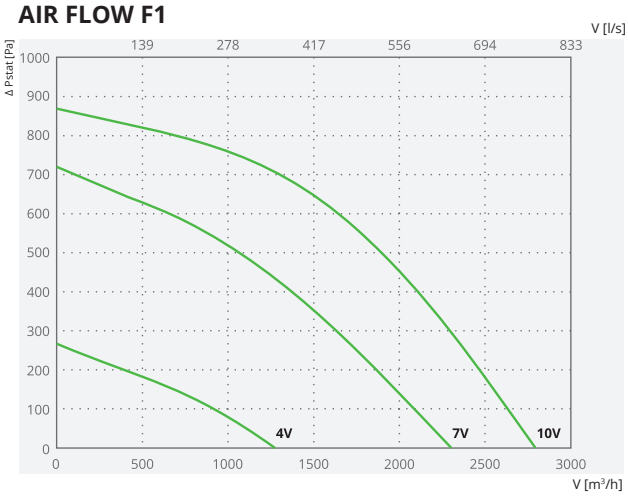
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]	~1, 230				-	-
		[kW]	3.00	3.60	3.00	3.60	-	-
Fans	phase/voltage	[50Hz/VAC]	~1, 230					
exhaust	power/current	[kW/A]	0.47/3.10		0.715/3.10		0.47/3.10	0.715/3.10
	fan speed	[min^{-1}]	2530		2800		2350	2800
supply	power/current	[kW/A]	0.47/3.10		0.715/3.10		0.47/3.10	0.715/3.10
	fan speed	[min^{-1}]	2530		2800		2530	2800
Max power consumption		[kW/A]	3.94/21.24	4.54/23.85	4.43/21.24	5.03/23.85	1.24/10.20	1.73/10.20
Power connection	phase/voltage	[50Hz/VAC]	~1, 230					
Control board			Comfort MCB					
Filter class	exhaust/supply		Coarse 65% (G4), ePM$_{10}$ 55% (M5), ePM$_1$ 70% (F7)					
Housing insulation, polyurethane		[mm]	45					
Colour	RAL	Grey	7040					
Weight (net, without packing)		[kg]	289		294		282	287
Comply with ERP			2018					
Operation			indoor/outdoor (with roofing)					

AmberAir Compact CXV

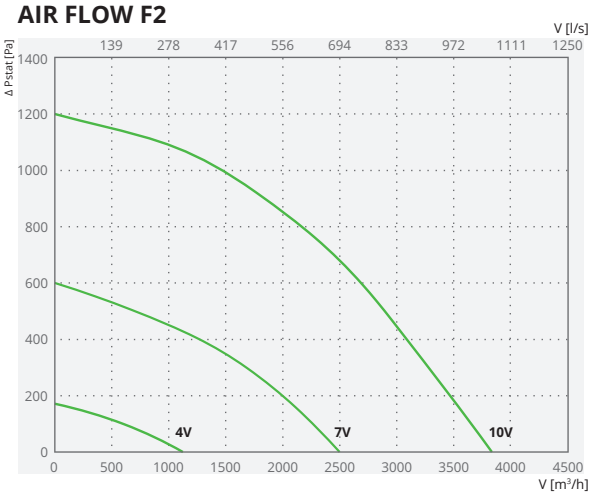
AmberAir Compact 3-CXVE/W

Performance
(with clean filter)

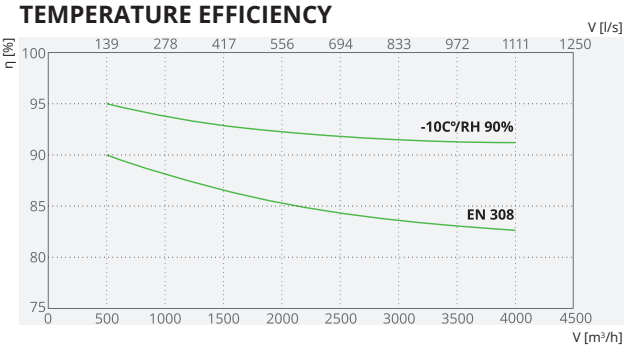
AIR FLOW F1



AIR FLOW F2



TEMPERATURE EFFICIENCY



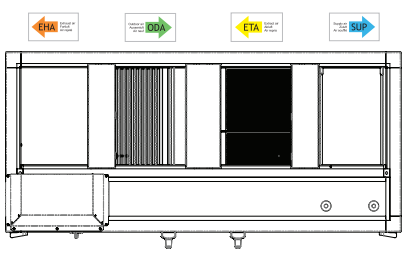
Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)

View from inspection side

Air supply side (R-right)



View from inspection side

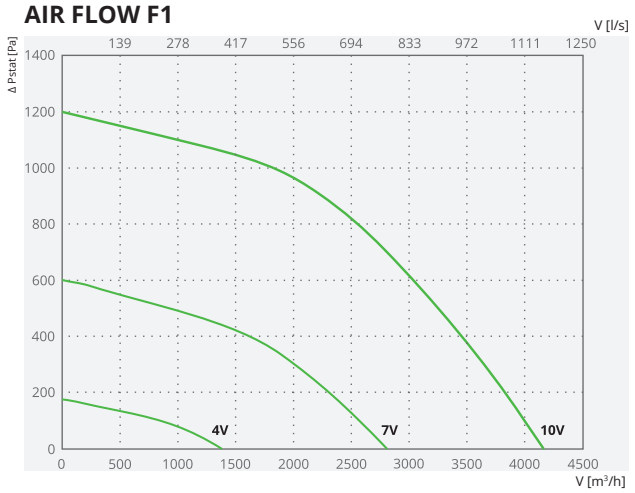
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]	~3, 400				-	-
		[kW]	3.60	6.00	3.60	6.00	-	-
Fans	phase/voltage	[50Hz/VAC]	~1, 230					
exhaust	power/current	[kW/A]	0.715/3.10		1.35/6.70		0.715/3.10	1.35/6.70
	fan speed	[min^{-1}]	2800		2920		2800	2920
supply	power/current	[kW/A]	0.715/3.10		1.35/6.70		0.715/3.10	1.35/6.70
	fan speed	[min^{-1}]	2800		2920		2800	2920
Max power consumption		[kW/A]	5.03/13.98	7.43/16.87	6.30/21.18	8.70/24.07	1.73/10.20	3.00/17.40
Power connection	phase/voltage	[50Hz/VAC]	~3, 400				~1, 230	
Control board			Comfort MCB					
Filter class	exhaust/supply		Coarse 65% (G4), ePM$_{10}$ 55% (M5), ePM$_1$ 70% (F7)					
Housing insulation, polyurethane		[mm]	45					
Colour	RAL	Grey	7040					
Weight (net, without packing)		[kg]	359		368		353	361
Comply with ERP			2018					
Operation			indoor/outdoor (with roofing)					

The company reserves the right to make changes of technical data without prior notice

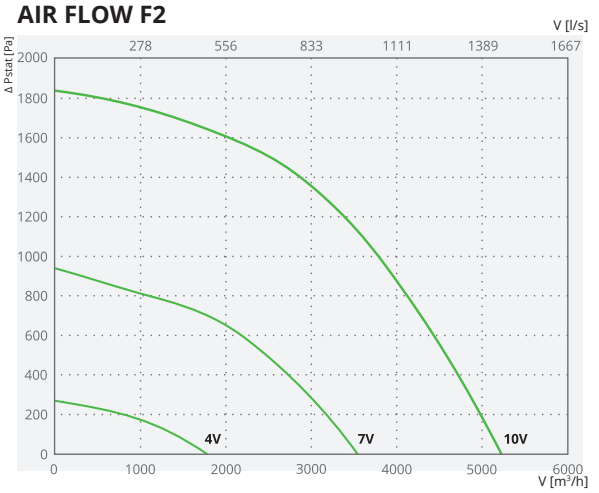
AmberAir Compact 4-CXVE/W

Performance
(with clean filter)

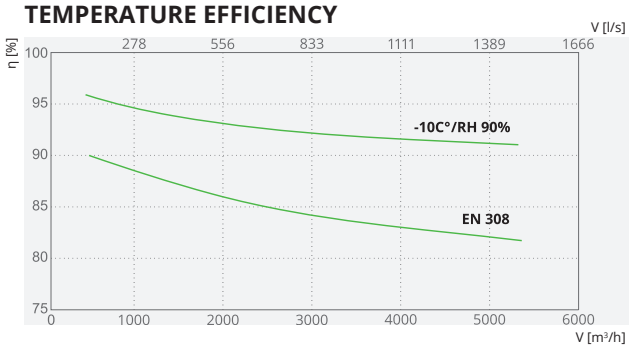
AIR FLOW F1



AIR FLOW F2



TEMPERATURE EFFICIENCY



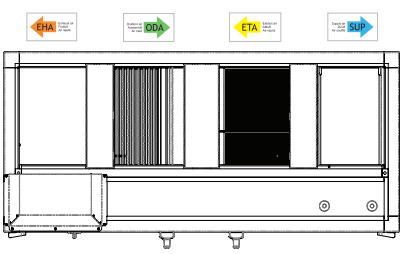
Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)

View from inspection side

Air supply side (R-right)



View from inspection side

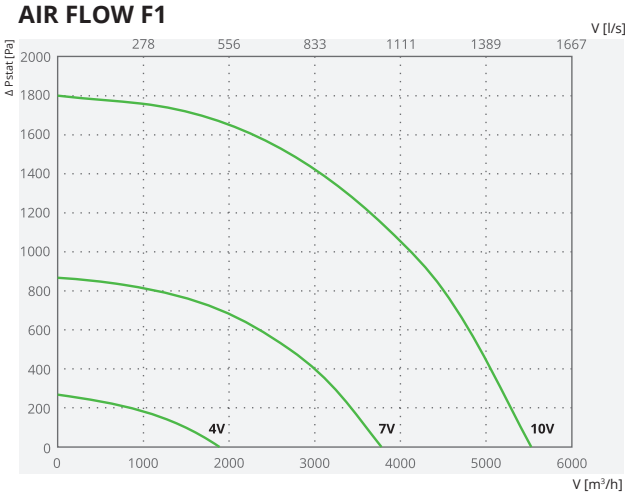
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]	~3, 400				-	-
		[kW]	6.00	7.20	6.00	7.20	-	-
Fans	phase/voltage	[50Hz/VAC]	~1, 230		~3, 400		~1, 230	~3, 400
exhaust	power/current	[kW/A]	1.35/6.70		2.50/4.00		1.35/6.70	2.50/4.00
	fan speed	[min^{-1}]	2920		3640		2920	3640
supply	power/current	[kW/A]	1.35/6.70		2.50/4.00		1.35/6.70	2.50/4.00
	fan speed	[min^{-1}]	2920		3640		2920	3640
Max power consumption		[kW/A]	8.70/24.07	9.90/25.80	11.00/18.67	12.20/20.40	3.00/17.40	5.30/12.00
Power connection	phase/voltage	[50Hz/VAC]	~3, 400					
Control board			Comfort MCB					
Filter class	exhaust/supply		Coarse 65% (G4), ePM$_{10}$ 55% (M5), ePM$_1$ 70% (F7)					
Housing insulation, polyurethane		[mm]	45					
Colour	RAL	Grey	7040					
Weight (net, without packing)		[kg]	409				401	
Comply with ERP			2018					
Operation			indoor/outdoor (with roofing)					

AmberAir Compact CXV

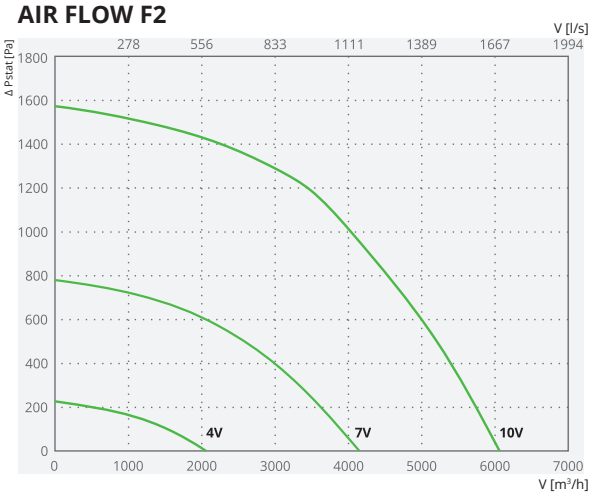
AmberAir Compact 5-CXVE/W

Performance
(with clean filter)

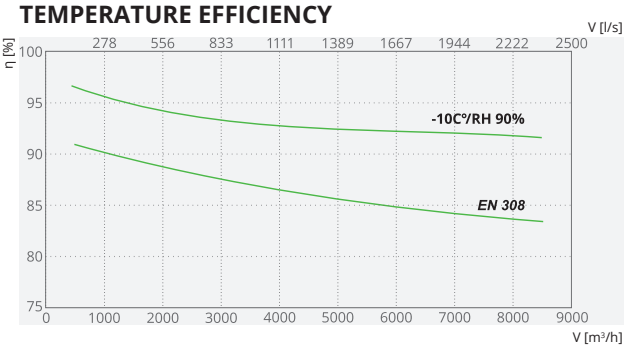
AIR FLOW F1



AIR FLOW F2



TEMPERATURE EFFICIENCY



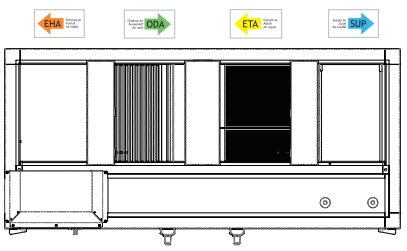
Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)

View from inspection side

Air supply side (R-right)



View from inspection side

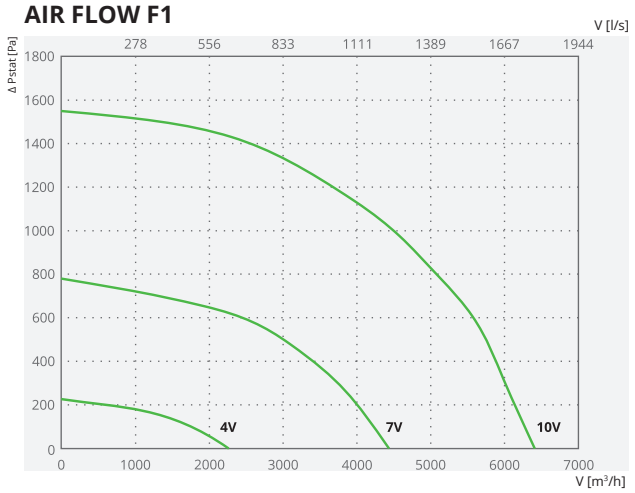
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]		~3, 400			-	-
		[kW]	7.20	9.00	7.20	9.00	-	-
Fans	phase/voltage	[50Hz/VAC]			~3, 400			
exhaust	power/current	[kW/A]			2.50/4.00			
	fan speed	[min^{-1}]	3640		2970		3640	2970
supply	power/current	[kW/A]			2.50/4.00			
	fan speed	[min^{-1}]	3640		2970		3640	2970
Max power consumption		[kW/A]	12.20/20.40	14.00/23.00	12.20/20.40	14.00/23.00	5.30/12.00	
Power connection	phase/voltage	[50Hz/VAC]			~3, 400			
Control board					Comfort MCB			
Filter class	exhaust/supply				Coarse 65% (G4), ePM$_{10}$ 55% (M5), ePM$_1$ 70% (F7)			
Housing insulation, polyurethane		[mm]			45			
Colour	RAL	Grey			7040			
Weight (net, without packing)		[kg]	475		479		469	473
Comply with ERP					2018			
Operation					indoor/outdoor (with roofing)			

The company reserves the right to make changes of technical data without prior notice

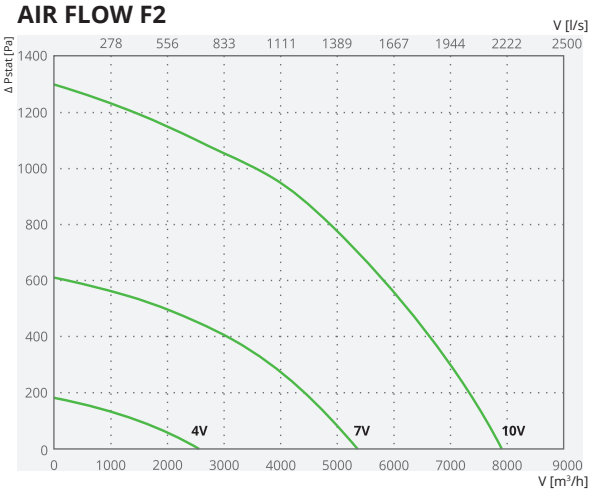
AmberAir Compact 6-CXVE/W

Performance
(with clean filter)

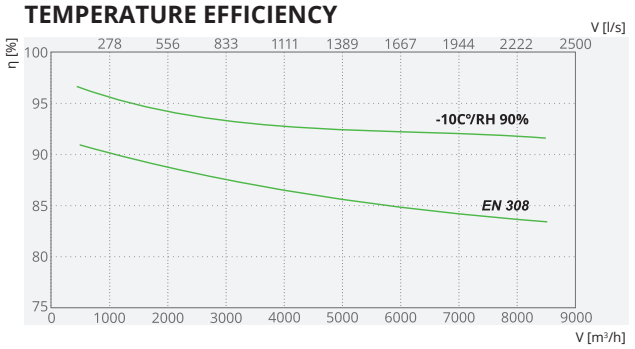
AIR FLOW F1



AIR FLOW F2



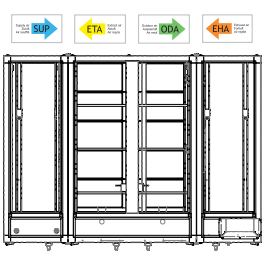
TEMPERATURE EFFICIENCY



Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

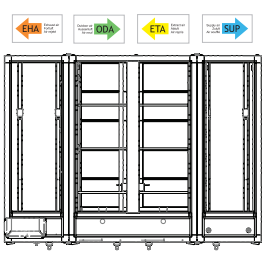
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



View from inspection side

Exhaust air
Extract air
Supply air
Outdoor air

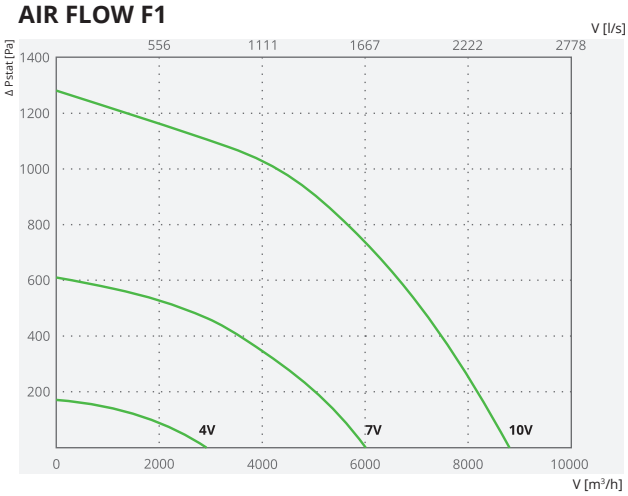
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]		~3, 400			-	-
		[kW]		9.00			-	-
Fans	phase/voltage	[50Hz/VAC]			~3, 400			
exhaust	power/current	[kW/A]	2.50/4.00		2.90/4.80		2.50/4.00	2.90/4.80
	fan speed	[min^{-1}]	2970		2120		2970	2120
supply	power/current	[kW/A]	2.50/4.00		2.90/4.80		2.50/4.00	2.90/4.80
	fan speed	[min^{-1}]	2970		2120		2970	2120
Max power consumption		[kW/A]	14.00/23.00		14.80/24.60		5.50/12.00	6.30/13.60
Power connection	phase/voltage	[50Hz/VAC]			~3, 400			
Control board					Comfort MCB			
Filter class	exhaust/supply				Coarse 65% (G4), ePM$_{10}$ 55% (M5), ePM$_1$ 70% (F7)			
Housing insulation, polyurethane		[mm]			45			
Colour	RAL	Grey			7040			
Weight (net, without packing)		[kg]	795		809		790	803
Comply with ERP					2018			
Operation					indoor/outdoor (with roofing)			

AmberAir Compact CXV

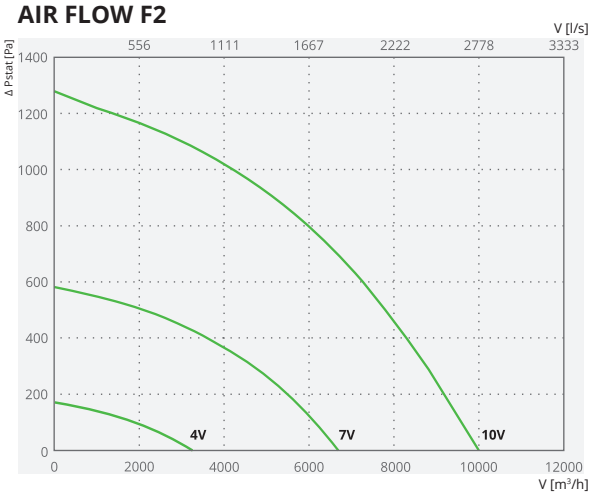
AmberAir Compact 7-CXVE/W

Performance
(with clean filter)

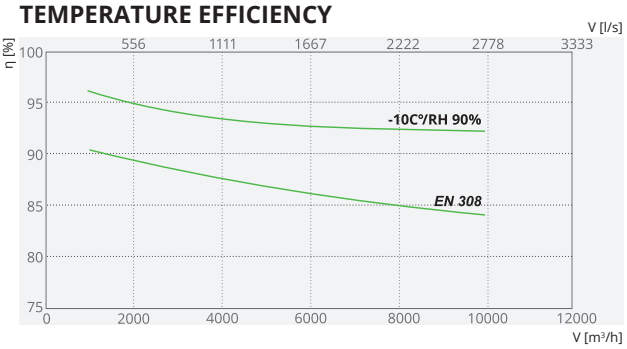
AIR FLOW F1



AIR FLOW F2



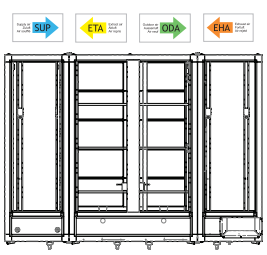
TEMPERATURE EFFICIENCY



Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

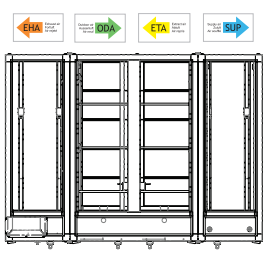
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



View from inspection side

Exhaust air
Extract air
Supply air
Outdoor air

			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]	~3, 400				-	-
		[kW]	12.0	15.0	12.0	15.0	-	-
Fans	phase/voltage	[50Hz/VAC]	~3, 400					
exhaust	power/current	[kW/A]	2.9/4.8		3.5/5.6		2.9/4.8	3.5/5.6
	fan speed	[min^{-1}]	2120		1860		2120	1860
supply	power/current	[kW/A]	2.9/4.8		3.5/5.6		2.9/4.8	3.5/5.6
	fan speed	[min^{-1}]	2120		1860		2120	1860
Max power consumption		[kW/A]	17.80/28.94	20.80/33.27	19.00/30.54	22.00/34.87	6.30/13.60	7.50/15.20
Power connection	phase/voltage	[50Hz/VAC]	~3, 400					
Control board			Comfort MCB					
Filter class	exhaust/supply		Coarse 65% (G4), ePM$_{10}$ 55% (M5), ePM$_1$ 70% (F7)					
Housing insulation, polyurethane		[mm]	45					
Colour	RAL	Grey	7040					
Weight (net, without packing)		[kg]	961		974		963	976
Comply with ERP			2018					
Operation			indoor/outdoor (with roofing)					

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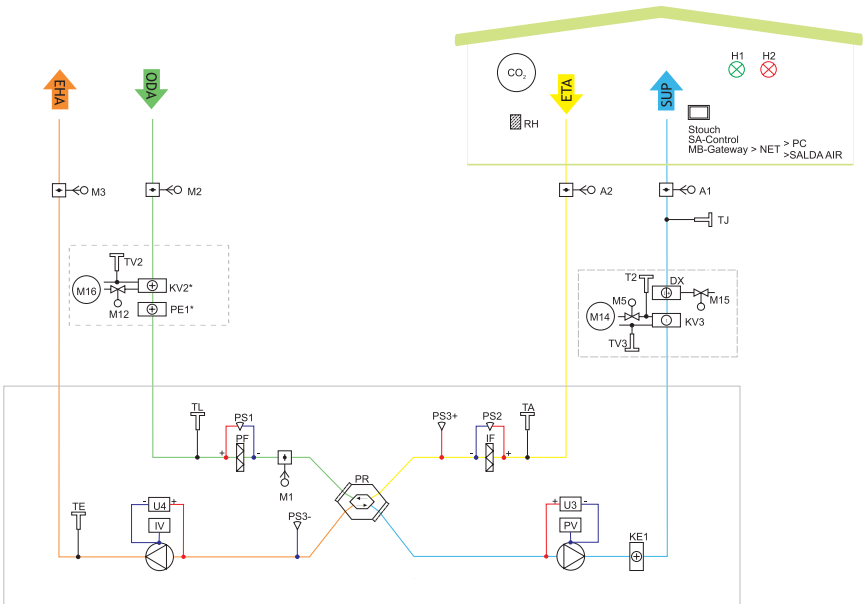
AmberAir Compact 1-7CXVE
VERSIONS WITH ELECTRICAL HEATER



List of Components

PR	Plate heat excahnger	**M15**	DX cooler valve motor**
PV	Supply air fan	**M16**	Water preheater circulation pump
IF	Filter for extract air	**A1**	Fire alarm damper actuator
PF	Filter for supply air	**A2**	Fire alarm damper actuator
IV	Exhaust air fan	**TJ**	Supply air temperature sensor
KE1	Electric heater	**TL**	Outdoor air temperature sensor
PE1*	Electric pre-heater	**TE**	Exhaust air temperature sensor
KV2*	Water pre-heater	**TA**	Extract air temperature sensor
KV3	Water cooler	**TV2**	Water pre-heater water temperature sensor
DX	DX cooler	**TV3**	Water cooler water temperature sensor
M1	Actuator for by-pass damper	**PS1**	Supply air filter pressure switch
M2	Actuator for outdoor air damper	**PS2**	Extract air filter pressure switch
M3	Actuator for exhaust air damper	**PS3**	Heat exchanger anti-frost pressure switch
M5	Water cooler valve motor	**U3**	Supply air fan pressure sensor
M12	Water preheater valve motor	**U4**	Exhaust air fan pressure sensor
M14	Water cooler circulation pump**		

List of external sensors, inputs/outputs and controllers

RH	RH sensor	**PC**	Computer
CO_2	CO_2 sensor	**FA**	Fire alarm
Stouch	Remote control panel	**FPP**	Fireplace protection
Flex MCB	Remote control panel		System mode switch (start/stop)
MB-Gateway	Network module		Fans speed switch (BOOST)
SaldaAir	Mobile application	**H1**	Operation indication output
NET	Network	**H2**	Alarm indication output

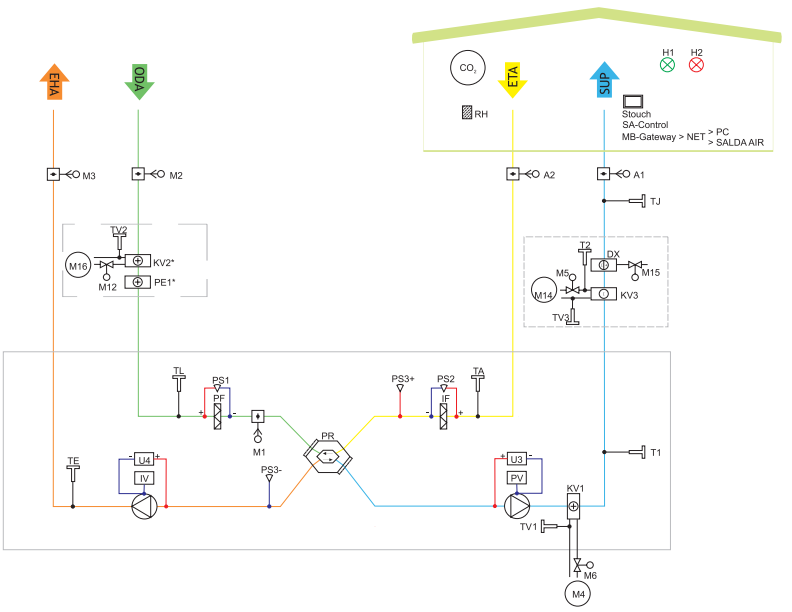
Symbols

ODA Outdoor air | ETA Extract air | EHA Exhaust air | SUP Supply air | Ventilated premises

* - only one preheater can be connected.
** - only one cooler can be connected.

AmberAir Compact CXV

AmberAir Compact 1-7CXVW
VERSIONS WITH WATER HEATER



List of Components

PR	Plate heat excahnger	**M15**	DX cooler valve motor**
PV	Supply air fan	**M16**	Water preheater circulation pump
IF	Filter for extract air	**A1**	Fire alarm damper actuator
PF	Filter for supply air	**A2**	Fire alarm damper actuator
IV	Exhaust air fan	**TJ**	Supply air temperature sensor
PE1*	Electric pre-heater	**TL**	Outdoor air temperature sensor
KV1	Water heater (reverse mode available)	**TE**	Exhaust air temperature sensor
KV2*	Water pre-heater	**TA**	Extract air temperature sensor
KV3	Water cooler	**TV1**	Water heater water temperature sensor
DX	DX cooler	**TV2**	Water pre-heater water temperature sensor
M1	Actuator for by-pass damper	**TV3**	Water cooler water temperature sensor
M2	Actuator for outdoor air damper	**T1**	Water heater thermostat
M3	Actuator for exhaust air damper	**T2**	Water heater/cooler switching thermostat
M4	Water heater circulation pump	**PS1**	Supply air filter pressure switch
M5	Water cooler valve motor	**PS2**	Extract air filter pressure switch
M6	Water heater valve motor	**PS3**	Heat exchanger anti-frost pressure switch
M12	Water preheater valve motor	**U3**	Supply air fan pressure sensor
M14	Water cooler circulation pump**	**U4**	Exhaust air fan pressure sensor

List of external sensors, inputs/outputs and controllers

RH	RH sensor	**PC**	Computer
CO_2	CO_2 sensor	**FA**	Fire alarm
Stouch	Remote control panel	**FPP**	Fireplace protection
Flex MCB	Remote control panel		System mode switch (start/stop)
MB-Gateway	Network module		Fans speed switch (BOOST)
SaldaAir	Mobile application	**H1**	Operation indication output
NET	Network	**H2**	Alarm indication output

Symbols

ODA Outdoor air | ETA Extract air | EHA Exhaust air | SUP Supply air | Ventilated premises

* - only one preheater can be connected.
** - only one cooler can be connected.

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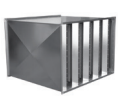
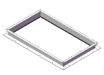
ACCESSORIES

Network Module	Nano Router	Remote controller	Remote controller	CO2 sensor	Humidity sensor	Temperature sensor	Duct smoke detector	Presence detectors	Motion detector	Pressure transmitter	Pre-heater
MB-Gateway PRGPU082	**TL-WR802N** PRGPU105	**Stouch** PRGPU051	**Flex MCB (EN)** PRGPU107	**S-RC02-F2** ZAKKT0048 **S-RC02** ZAKKT0049	**S-KFF-U** ZAKKT0051 **S-KFF-U-D-F2** ZAKKT0050	**TJ1TE-NTC10K3B-4.5x90P-2x6,0mPVC-FL** PJUT0071 **TJ1-NTC10k3B-6x240S-2x2.0mPVC-CF** PJUT0076	**UG3A4O** ZAKKT0110	**IR24-P** ZAKJT019 **IR24-PC** ZAKJT020	**PATROL_701** ZAKJT021	**SPD-G-6K0** ZAKKT0125 **S-1141** ZAKKT0047	**Circular or rectangular connection**
p. 57	**p. 58**	**p. 59**	**p. 60**	**p. 61**	**p. 62**	**p. 63**	**p. 64**	**p. 65**	**p. 66**	**p. 67**	**p. 68**

Accessories	Name	Art No.	Page	Unit						
	DAMPER ACTUATORS			1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	NM230A-TP	ZAKP0055		✓	✓	✓	✓	✓	✓	✓
	LF 230	ZAKP0039	p. 81	✓	✓	✓	✓	✓		
	NF230A	ZAKP0051							✓	✓
	ENERGY ANALYZERS			1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	Energy analyzer EM23 (PULSE)	ZAKKT0118		✓	✓					
	Energy analyzer EM210 (PULSE)	ZAKKT0116				✓	✓	✓	✓	✓
	Energy analyzer EM23 (PULSE+MODBUS)	ZAKKT0119	p. 82	✓	✓					
	Energy analyzer EM210 (PULSE+MODBUS)	ZAKKT0120				✓	✓	✓	✓	✓
	Energy analyzer EM24 (M-BUS)	ZAKKT0121		✓	✓	✓	✓	✓	✓	✓
	WATER COOLERS			1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	AVA 315	GSIAVA006		✓						
	AVA 400	GSIAVA007			✓	✓				
	AVA 500	GSIAVA015	p. 83				✓			
	AVA 630	GSIAVA008						✓	✓	
	AVA 710	GSIAVA009								✓
	DX COOLERS			1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	AVA-DX 315	GSIAVA010		✓						
	AVA-DX 400	GSIAVA011			✓	✓				
	AVA-DX 500	GSIAVA012	p. 85				✓			
	AVA-DX 630	GSIAVA013						✓	✓	
	AVA-DX 710	GSIAVA014								✓
	SILENCERS FOR CIRCULAR DUCTS			1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	MUTE 315X900	GSOMUTE024	p. 93	✓						
	SILENCERS FOR RECTANGULAR DUCTS			1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	SSP 500x300x1000 - 2/100	GSOSSP0216_011		✓						
	SSP 500x350x1000 - 2/100	GSOSSP216_1015			✓					
	SSP 600x350x1000 - 3/100	GSOSSP0216_024				✓				
	SSP 925x350x1000 - 5/100	GSOSSP216_1016	p. 94				✓			
	SSP 950x400x1000 - 5/100	GSOSSP216_1017						✓		
	SSP 1250x550x1000 - 6/100	GSOSSP216_1018							✓	
	SSP 1600x585x1000 - 8, 100	GSOSSP216_1019								✓
	RECTANGULAR FLEXIBLE CONNECTIONS			1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	LJ-E 50-30	GLJLJ/E005		✓						
	LJ-E 50-35	GLJLJ/E003			✓					
	LJ-E 60-35	GLJLJ/E008				✓				
	LJ-E 92.5-35	GLJLJ/E006	p. 97				✓			
	LJ-E 95-40	GLJLJ/E013						✓		
	LJ-E 125-55	GLJLJ/E014							✓	
	LJ-E 160-58.5	GLJLJ/E015								✓
	CIRCULAR FLEXIBLE CONNECTIONS			1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	LSVF 315	GVELSVF005		✓						
	LSVF 400	GVELSVF007			✓	✓				
	LSVF 500	GVELSVF009	p. 98				✓			
	LSVF 630	GVELSVF010						✓	✓	
	LSVF 710	GVELSVF018								✓
	RECTANGULAR SHUT-OFF DAMPERS			1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	SSK 500-300	GSKSSK014		✓						
	SSK 500-350	GSKSSK015			✓					
	SSK 600-350	GSKSSK022				✓				
	SSK 925-350	GSKSSKM004	p. 99				✓			
	SSK 950-400	GSKSSKM005						✓		
	SSK 1250-550	GSKSSKM006							✓	
	SSK 1600-585	GSKSSKM007								✓

AmberAir Compact CXV

ACCESSORIES

Accessories	Name	Art No.	Page	Unit						
CIRCULAR SHUT-OFF DAMPERS				1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	SKG-A 315	GSKSKG035	p. 100	✓						
	SKG-A 400	GSKSKG037			✓	✓				
RECTANGULAR FLANGE				1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	RF 500X300	GNGPR168_1078_0	p. 101	✓						
	RF 500X350	GNGPR168_1079_0			✓					
	RF 600X350	GNGPR168_1031_0				✓				
	RF 950X350	GNGPR168_1080_0					✓			
	RF 950X400	GNGPR168_1081_0						✓		
	RF 1250X550	GNGPR168_1082_0							✓	
	RF 1600X585	GNGPR168_1083_0								✓
FLANGE ADAPTERS				1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	STP-RI 500x300-315 (FLAU)	GSFSTPRI161_336	p. 103	✓						
	STP-RI 500x350-400 (FLAU)	GSFSTPRI161_337			✓					
	STP-RI 600x350-400 (FLAU-R)	GSFSTPRI161_316				✓				
	STP-RI 925x350-500 (FLAU)	GSFSTPRI161_343					✓			
	STP-RI 950x400-630 (FLAU)	GSFSTPRI161_322						✓		
	STP-RI 1250x550-630 (FLAU)	GSFSTPRI161_333							✓	
	STP-RI 1600x585-710 (FLAU)	GSFSTPRI161_338								✓
DUAL FILTER BOX				1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	BFB 500x300	GNGPR168_1086_0	p. 108	✓						
	BFB 500x350	GNGPR168_1087_0			✓					
	BFB 600x350	GNGPR168_1076_0				✓				
	BFB 925x350	GNGPR168_1088_0					✓			
	BFB 950x400	GNGPR168_1089_0						✓		
	BFB 1250x550	GNGPR168_1090_0							✓	
	BFB 1600x585	GNGPR168_1091_0								✓
PANEL FILTERS ePM$_1$ 70% (F7)				1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	MPL 747x365x46 F7	ZFEPF170	p. 109	✓						
	MPL 750x496x46 F7	ZFEPF166			✓					
	MPL 565x395x46 F7	ZFEPF148				✓				
	MPL 557x495x46 F7	ZFEPF179					✓			
	MPL 565x395x46 F7	ZFEPF148						✓		
	MPL 565x373x46 F7	ZFEPF163							✓	
	MPL 565x927x46 F7	ZFEPF188								✓
	MPL 565x927x90 F7	ZFEPF173								✓
PANEL FILTERS COARSE 65% (G4)				1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	MPL 747x365x46 G4	ZFEPF186	p. 109	✓						
	MPL 750x496x46 G4	ZFEPF168			✓					
	MPL 565x395x46 G4	ZFEPF165				✓				
	MPL 557x495x46 G4	ZFEPF182					✓			
	MPL 565x395x46 G4	ZFEPF165						✓		
	MPL 565x373x46 G4	ZFEPF164							✓	
	MPL 565x927x46 G4	ZFEPF172								✓
	MPL 565x927x90 G4	ZFEPF175								✓
PANEL FILTERS ePM$_{10}$ 55% (M5)				1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	MPL 747x365x46 M5	ZFEPF169	p. 109	✓						
	MPL 750x496x46 M5	ZFEPF167			✓					
	MPL 565x395x46 M5	ZFEPF147				✓				
	MPL 557x495x46 M5	ZFEPF180					✓			
	MPL 565x395x46 M5	ZFEPF147						✓		
	MPL 565x373x46 M5	ZFEPF162							✓	
	MPL 565x927x46 M5	ZFEPF171								✓
	MPL 565x927x90 M5	ZFEPF174								✓
BAG FILTERS ePM$_{10}$ 75% (F7)				1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	FMK 540x397x430-6 F7	GFIFMK1075	p. 109	✓						
	FMK 540x445x430-6 F7	GFIFMK1076			✓					
	FMK 640x510x430-7 F7	GFIFMK1077				✓				
	FMK 990x510x430-7 F7	GFIFMK1079					✓			
	FMK 990x535x430-7 F7	GFIFMK1080						✓		
	FMK 643x636x430-7 F7	GFIFMK1078							✓	
	FMK 818x636x430-9 F7	GFIFMK1081								✓

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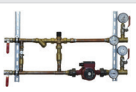
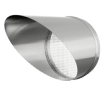
ACCESSORIES

Accessories	Name	Art No.	Page	Unit						
BAG FILTERS COARSE 60% (G4)				1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	FMK 540x397x430-6 G4	GFIFMK1082	p. 109	✓						
	FMK 540x445x430-6 G4	GFIFMK1083			✓					
	FMK 640x510x430-7 G4	GFIFMK1084				✓				
	FMK 990x510x430-7 G4	GFIFMK1086					✓			
	FMK 990x535x430-7 G4	GFIFMK1087						✓		
	FMK 643x636x430-7 G4	GFIFMK1085							✓	
	FMK 818x636x430-9 G4	GFIFMK1088								✓
BAG FILTERS COARSE 85% (M5)				1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	FMK 540x397x430-6 M5	GFIFMK1089	p. 109	✓						
	FMK 540x445x430-6 M5	GFIFMK1090			✓					
	FMK 640x510x430-7 M5	GFIFMK1091				✓				
	FMK 990x510x430-7 M5	GFIFMK1093					✓			
	FMK 990x535x430-7 M5	GFIFMK1094						✓		
	FMK 643x636x430-7 M5	GFIFMK1092							✓	
	FMK 818x636x430-9 M5	GFIFMK1095								✓
MIXING POINT				1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	RMG3-0,63-4	PRMG0001	p. 110	✓	✓	✓	✓	✓	✓	✓
2 AND 3 WAY VALVES				1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	VVP45.10-0.63	PRMV005	p. 111	✓	✓	✓	✓	✓	✓	✓
OUTLET-INTAKE COVER				1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	ABV 315	GFDABV0315	p. 112	✓						
	ABV 400	GFDABV0400			✓	✓				
	ABV 500	GFDABV0500					✓			
	ABV 630	GFDABV0630						✓	✓	
	ABV 710	GFDABV0710								✓

AmberAir Compact CXV

FUNCTIONS

Description of the functions	MCB E	MCB W
System modes	●	
BOOST function	●	
Cold/heat recovery	●	
Supply air temperature control and compensation	●	
Weekly schedule	●	
Holiday schedule	●	
Night cooling function	●	
CO2 level reduction function	○	
RH level reduction	○	
Dryness protection	○	
Constant air pressure	●	
Constant airflow mode	●	
Heat exchanger frost protection	●	
Manual components control	●	
Fire place function	●	
Fireplace protection (NC)	○	
Fire protection from the external contact	○	
Winter/summer mode	●	
System monitoring	●	
Alarm indication output	●	
Operation indication output	●	
Digital input confguration	●	
Event register (storing up to 50 entries)	●	
Date and time settings	●	
Reset to factory defaults	●	
Air dampers		
Supply/exhaust air dampers control	●	
Fans		
Supply/exhaust air fan fault indication (NC)	●	
Protection by RPM	●	
Protection by pressure	●	
Sensors		
Supply air temperature sonsor	●	
Outdoor air temperature sensor	●	
Extract air temperature sensor	●	
Exhaust air temperature sensor	●	
Water heater temperature sensor	-	●
Water pre-heater temperature sensor	-	○
Water cooler temperature sensor	○	
Electric heater		
On/off and 0-10V control	●	-
Automatic and Manual protection (NC)	●	-
Electrical pre-heater		
On/off (PWM) and 0-10V control	●	●*
Automatic and Manual protection (NC)	●	●*
Water heater		
0-10V valve control	-	●
Water heater protection – thermostat (NC)	-	○
Water heater circulation pump control	-	●
Water pre-heater		
0-10V valve control	●*	●
Water heater circulation pump control	●*	●
Water cooler		
0-10V valve control	●	
Water cooler circulation pump control	●	
Water cooler operation switching (cooling/heating)	○	
Filters clogging monitoring		
Air flter protection according to pressure relays	●	
Air flters timer	●	

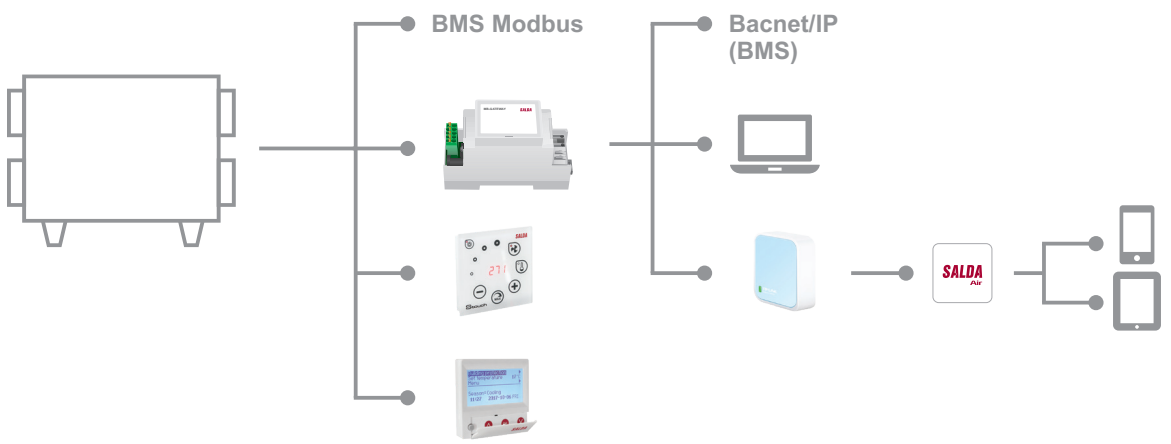
The company reserves the right to make changes of technical data without prior notice

FUNCTIONS

Description of the functions	MCB E	MCB W
Fire alarm damper		
Fire valves control (on/off)	●	
Fire valves testing	●	
DX cooler		
On/off and 0-10V control	●	
DX cooler breakdown indication (NC)	●	
DX cooler operation switching (NO – cooling; NC – heating)	●	
Recirculation		
3P and 0-10V valve control	●	
Recirculation stepped motor control	●	
Bypass damper		
3P and 0-10V damper control	●	
Bypass damper stepped motor control	●	
Remote controllers		
S-Touch	x	
Flex MCB	x	
MB Gateway	x	
Building management system		
Modbus	●	
BACnet/IP	○	

○	Required additional components: CO2 and moisture sensors, switches, etc.
●	Standard feature (the number of features depends on the ventilation unit in which the automatics are used); to be confgured through BMS network or remote control console
x	Remote control consoles
*	The possibility to connect water or electrical pre-heater

REMOTE CONTROL OPTIONS



Google Play store: iTunes Apple store:

Salda Air

mobile application: smart indoor climate control solution!

AmberAir Compact CXH

FEATURES

› Customized compact air handling unit with selectable components.
› Top quality SD50+ casing: thermal bridging (TB2) and airtightness in the market (L1).
› Tested at independent laboratories.
› Maintenance friendly: wide access via hinged doors and simple component removal.
› High efficiency: up to 92% heat recovery, new generation EC fans, smart demand ready control, 0-10V modulating controlled integrated electrical heater.
› Outdoor version as a standard in all European climate zones: tested in a climatic chamber.
› Easy 3D modelling and selection with export to .dxf or Autodesk Revit.

APPLICATION

Offices, stores, hotels, industry or other heated premises (classrooms, apartments, conference rooms, etc.)

DESCRIPTION

The AmberAir Compact CXH is designed to fulfil a client's desire for a reliable, efficient, commercial compact air handling unit with the flexibility of modular units. Certified selection software of VentMaster allows the design of a desired unit from a set of different components: fans, heaters, by-pass dampers, filters, etc.

REMOTE CONTROL

Four remote control options are available:
› Stouch remote controller.
› Flex MCB.
› Building management system connections MODBUS, BACnet/IP.
› Remote control via PC MB-Gateway (TPC/IP).
› SaldaAir app via MB-Gateway and WiFi.

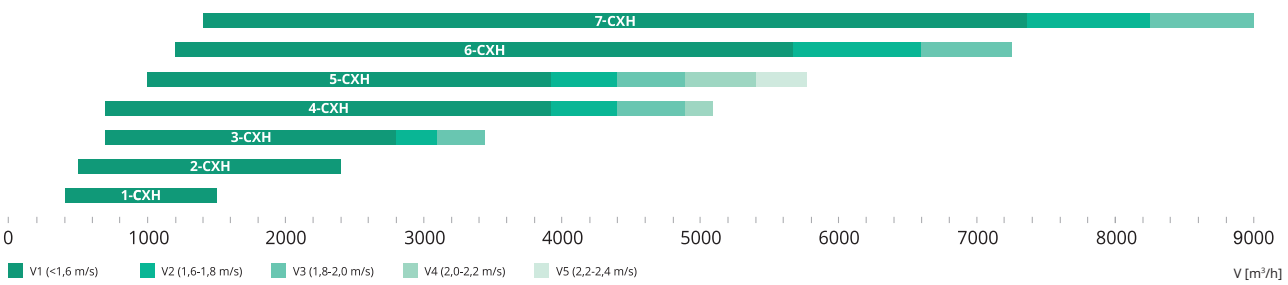
OPERATING CONDITIONS

Outdoor air temeperature without preheater (Salda Antifrost** off):	-5⁰/+40⁰ C*
Outdoor air temeperature without preheater (Salda Antifrost** on):	-15⁰/+40⁰ C
Outdoor air temperature with 100% by-pass***:	-23⁰/+40⁰ C
Outdoor air temperature with segmental by-pass***:	-30⁰/+40⁰ C
Outdoor air temperature limits with a selected pre-heater on an air duct:	-40⁰/+40⁰ C
Outdoor air max humidity:	90%
Temperature limits of an extracted air:	+15/+40⁰ C
Extract air max humidity:	60%
Maximum room temperature for installing the unit:	+40⁰ C

* – when relative humidity of extracted air is lower than 35 %.
** – uses dis-balancing of the airflow and it may cause negative pressure in premises.
*** – depends on AHU confguration.

L1

AIR FLOW DIAGRAM



PRODUCT CODE

AmberAir Compact **3 CX H SD50+ R F1 B1 W1 C1 P**

Product range - trademark
Unit size: 1 – first size; 7 - last size.
Heat exchanger: CX – counter-flow.
Casing: H – horizontal.
Model box: SD50+ – premium;
Service side: R – right, L – left
Fan type: F1 – standard; F2 – more powerful; F3 – standart 3x230V; F4 – more powerful 3x230V
Bypass damper: B1 – 100%*; B2 – 100% with recirculation; B3 – segmented.
Heater: W1/W2 – water (1 – lower capacity, 2 – higher capacity); E1/E2/E3/E4 – electrical (1 – lower capacity, 2 – higher capacity, 3 – lower capacity 3x230V, 4 – higher capacity 3x230V).
Control: C1 – MCB control board; C2 – prewiring only; C3 – MCB + 3x230V.
Filter: P – panel; B – bag.

* - 100% means, that bypass damper separates airflows completely: all the supply airflow goes only through heat exchanger or only through bypass. The airflow though by-pass might be lower than maximal supply airflow of the unit.

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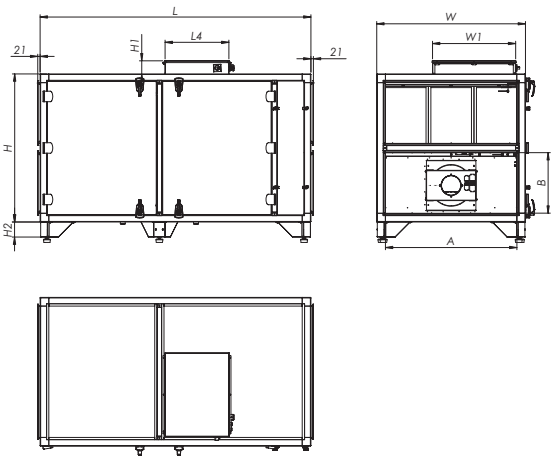
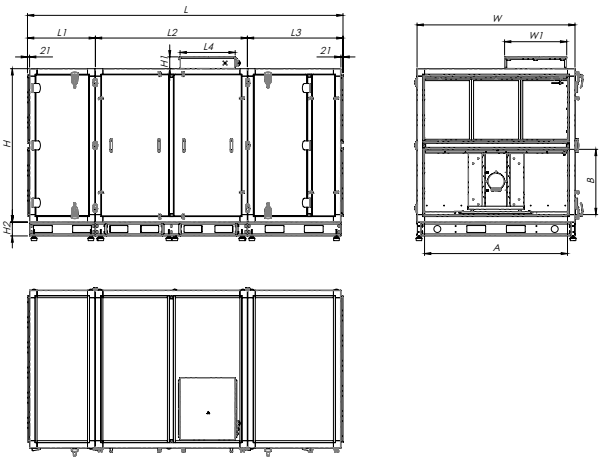
AmberAir Compact CXH

DIMENSIONS

AmberAir Compact 1-5CXV



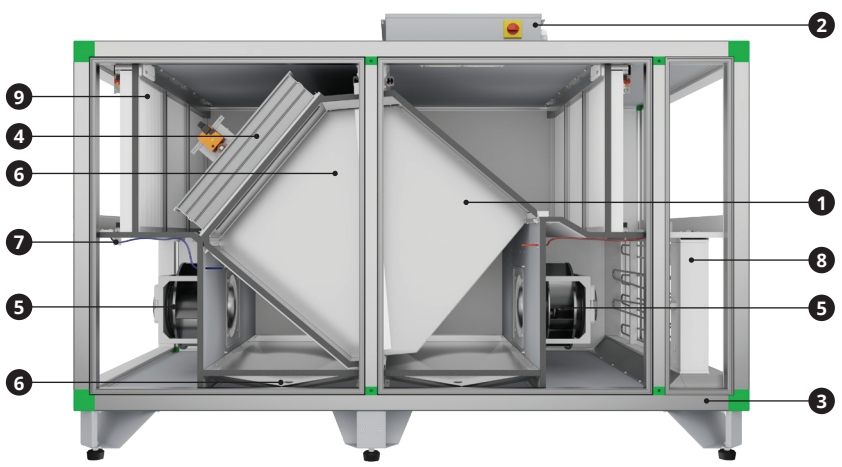
AmberAir Compact 6-7CXV



[mm]

Unit	L	L1	L2	L3	L4	W	W1	H	H1	H2	A	B
AmberAir Compact 1-CXH	1796	-	-	-		850	624	950	120	130	700	395.5
AmberAir Compact 2-CXH	2195	-	-	-		860	624	1210	120	130	707	489.5
AmberAir Compact 3-CXH	2350	-	-	-		895	624	1285	120	130	743	526.5
AmberAir Compact 4-CXH	2350	-	-	-	**550**	1220	721	1285	120	130	1070	526.5
AmberAir Compact 5-CXH	2350	-	-	-		1290	721	1285	120	130	1139	526.5
AmberAir Compact 6-CXH	3147	685	1540	965		1596	624	1550	120	140	1445	659.5
AmberAir Compact 7-CXH	3215	720	1540	1000		1961	624	1550	120	140	1810	659.5

CONSTRUCTION



1. Counter-flow aluminium heat exchanger:
- Efficiency up to 92%;
- Separated supply and exhaust air: virtually no moisture transfer, no mixing;
- Low maintenance;
- Pressure relays – anti-frost protection for heat exchanger.

2. Integrated advanced MCB control board:
- Demand control ready ventilation;
- Control by remote controllers, PC via MB-Gateway, SALDA AIR application via WiFi or BMS (ModBus, BACnet);
- Fire damper control and testing;
- El. heater/preheater 0-10V control;
- Water heater/preheater control and protection;
- DX/water cooler, air damper control;
- Constant airflow mode.

3. SD50+ casing features:
- Galvanized steel with powder coating panels;
- Aluminium frame;
- Thermal insulation: polyurethane 45 mm;
- Thermal breaking profiles with 25 mm plastic strips;
- Profiles internally rounded for easy cleaning.

4. 3 bypass types: 100%, with recirculation or segmented.

5. Efficient EC fans with backward curved impellers: 2 versions.

6. Stainless steel drip tray – high draining efficiency – 98% (5 l/m² at 20 min).

7. 4 air temperature sensors (supply, extract, outdoor and exhaust).

8. Heater:
- Integrated modulating control electric heater (signal 0-10V);
- Integrated water heater. Available accessories for anti-frost protection.

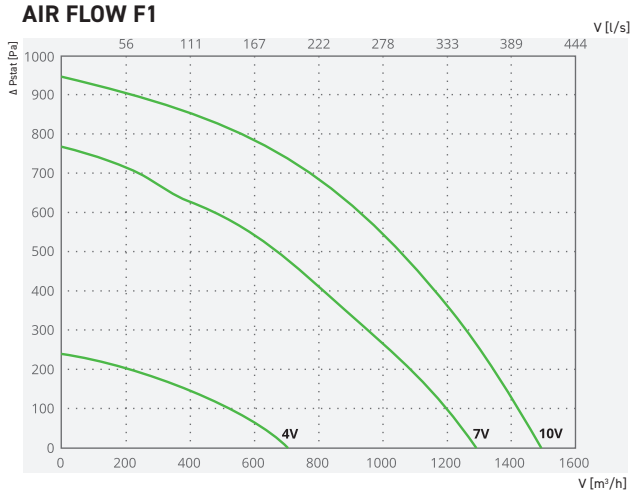
9. Filters:
- Stitched pocket filters (external box) or panel filters (integrated);
- Class: Coarse 65% (G4), ePM_{10} 55% (M5), ePM_1 70% (F7);
- Filter pollution monitoring: pressure switches and timer.

AmberAir Compact CXH

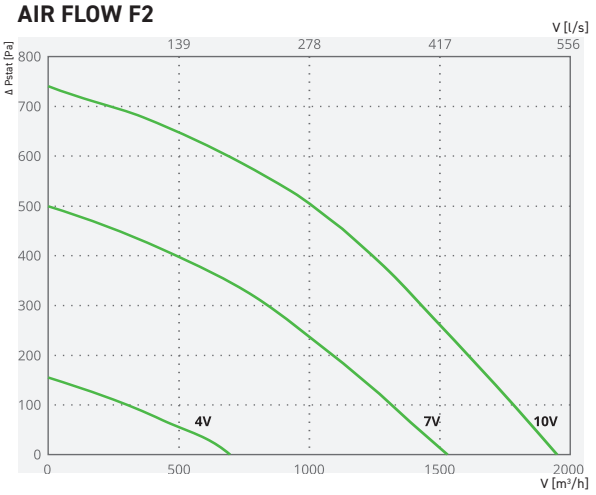
AmberAir Compact 1-CXHE/W

——— Performance (with clean filter)

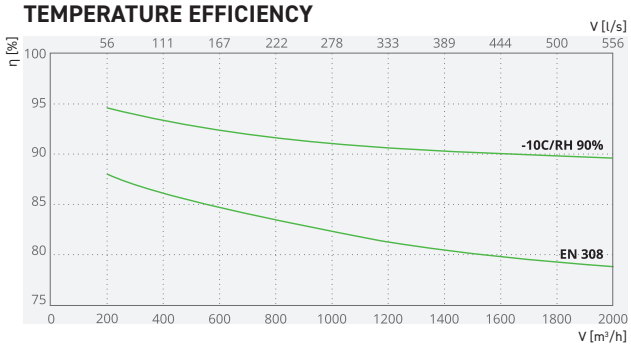
AIR FLOW F1



AIR FLOW F2



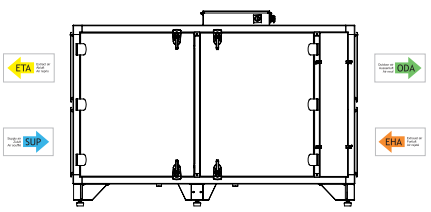
TEMPERATURE EFFICIENCY



Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

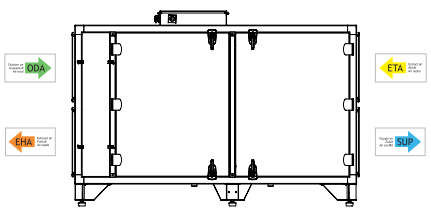
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



View from inspection side

			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]	~1, 230				-	-
		[kW]	2.00	3.00	2.00	3.00	-	-
Fans	phase/voltage	[50Hz/VAC]	~1, 230					
exhaust	power/current	[kW/A]	0.38/2.50		0.47/3.10		0.38/2.50	0.47/3.10
	fan speed	[min^{-1}]	3370		2530		3370	2530
supply	power/current	[kW/A]	0.38/2.50		0.47/3.10		0.38/2.50	0.47/3.10
	fan speed	[min^{-1}]	3370		2530		3370	2530
Max power consumption		[kW/A]	2.76/15.70	3.76/20.04	2.94/16.90	3.94/21.24	1.06/9.00	1.24/10.20
Power connection	phase/voltage	[50Hz/VAC]	~1, 230					
Control board			Comfort MCB					
Filter class	exhaust/supply		Coarse 65% (G4), ePM$_{10}$ 55% (M5), ePM$_1$ 70% (F7)					
Housing insulation, polyurethane		[mm]	45					
Colour	RAL	Grey	7040					
Weight (net, without packing)		[kg]	258		259		256	257
Comply with ERP			2018					
Operation			indoor/outdoor (with roofing)					

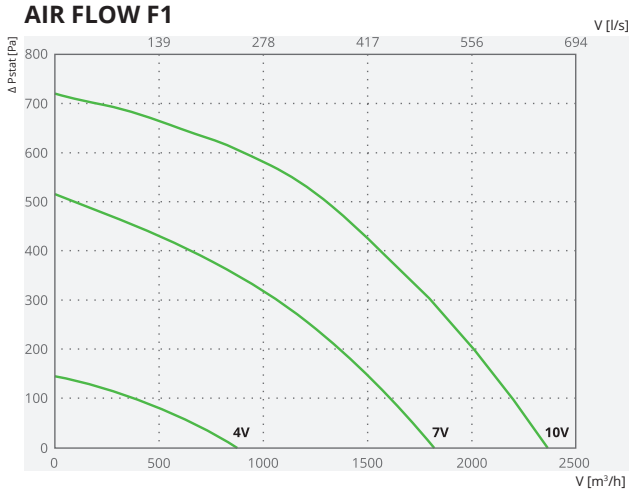
The company reserves the right to make changes of technical data without prior notice

AmberAir Compact CXH

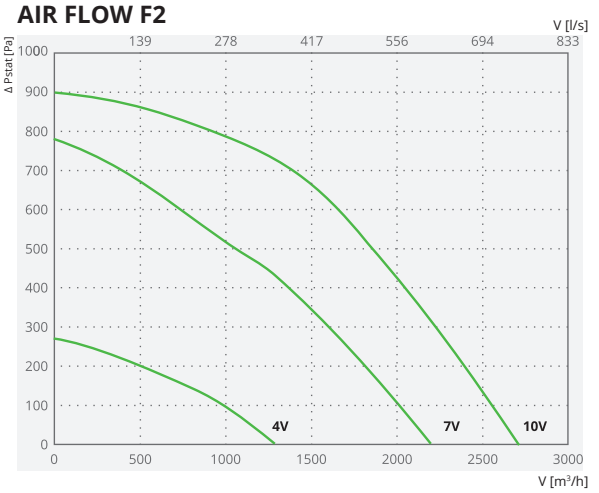
AmberAir Compact 2-CXHE/W

Performance
(with clean filter)

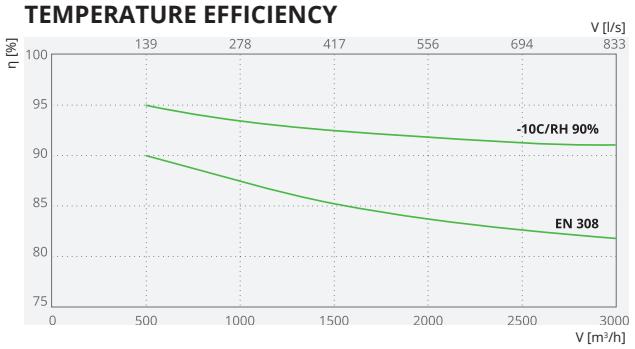
AIR FLOW F1



AIR FLOW F2



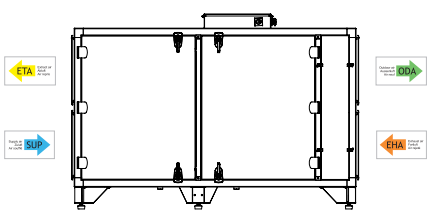
TEMPERATURE EFFICIENCY



Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

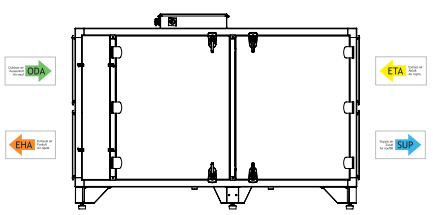
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



View from inspection side

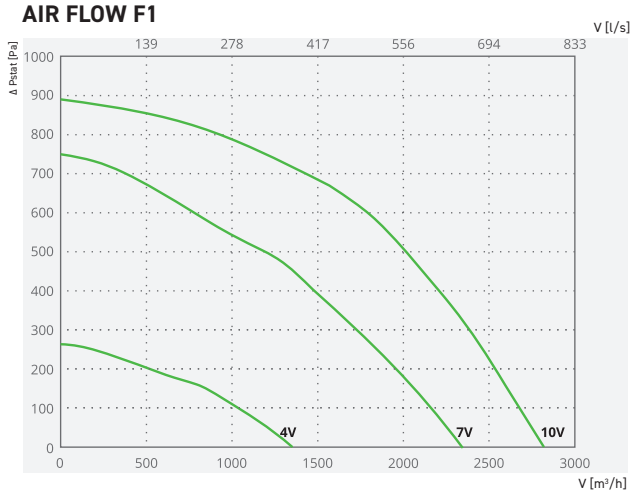
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]	~1, 230				-	-
		[kW]	3.00	3.60	3.00	3.60	-	-
Fans	phase/voltage	[50Hz/VAC]	~1, 230					
exhaust	power/current	[kW/A]	0.47/3.10		0.715/3.10		0.47/3.10	0.715/3.10
	fan speed	[min^{-1}]	2530		2800		2350	2800
supply	power/current	[kW/A]	0.47/3.10		0.715/3.10		0.47/3.10	0.715/3.10
	fan speed	[min^{-1}]	2530		2800		2530	2800
Max power consumption		[kW/A]	3.94/21.24	4.54/23.85	4.43/21.24	5.03/23.85	1.24/10.20	1.73/10.20
Power connection	phase/voltage	[50Hz/VAC]	~1, 230					
Control board			Comfort MCB					
Filter class	exhaust/supply		Coarse 65% (G4), ePM$_{10}$ 55% (M5), ePM$_1$ 70% (F7)					
Housing insulation, polyurethane		[mm]	45					
Colour	RAL	Grey	7040					
Weight (net, without packing)		[kg]	320		325		318	323
Comply with ERP			2018					
Operation			indoor/outdoor (with roofing)					

AmberAir Compact CXH

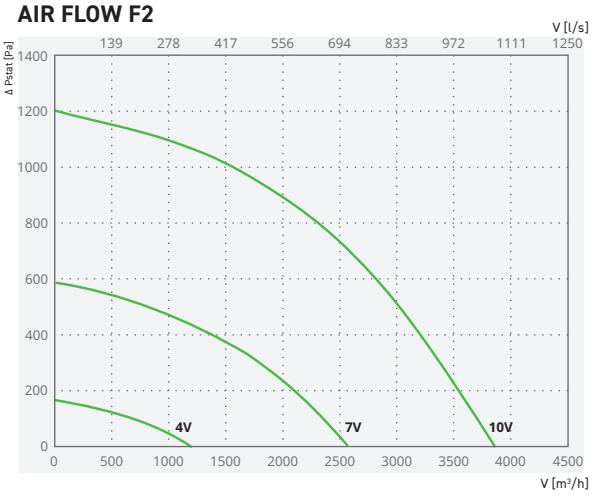
AmberAir Compact 3-CXHE/W

——— Performance (with clean filter)

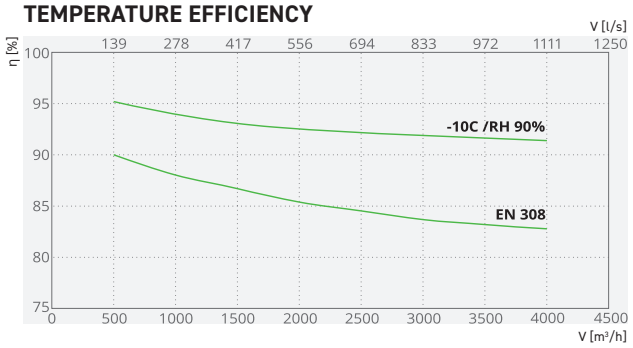
AIR FLOW F1



AIR FLOW F2



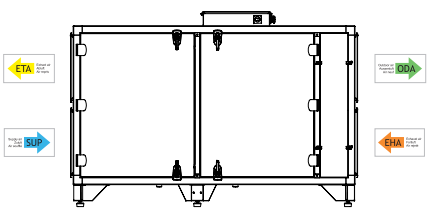
TEMPERATURE EFFICIENCY



Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

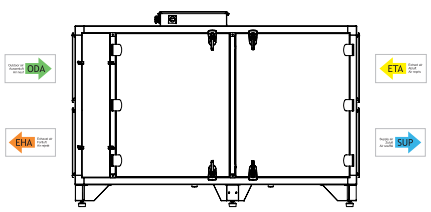
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



View from inspection side

			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]		~3, 400			-	-
		[kW]	3.60	6.00	3.60	6.00	-	-
Fans	phase/voltage	[50Hz/VAC]			~1, 230			
exhaust	power/current	[kW/A]	0.715/3.10		1.35/6.70		0.715/3.10	1.35/6.70
	fan speed	[min^{-1}]	2800		2920		2800	2920
supply	power/current	[kW/A]	0.715/3.10		1.35/6.70		0.715/3.10	1.35/6.70
	fan speed	[min^{-1}]	2800		2920		2800	2920
Max power consumption		[kW/A]	5.03/13.98	7.43/16.87	6.30/21.18	8.70/24.07	1.73/10.20	3.00/17.40
Power connection	phase/voltage	[50Hz/VAC]		~3, 400			~1, 230	
Control board					Comfort MCB			
Filter class	exhaust/supply				Coarse 65% (G4), ePM$_{10}$ 55% (M5), ePM$_1$ 70% (F7)			
Housing insulation, polyurethane		[mm]			45			
Colour	RAL	Grey			7040			
Weight (net, without packing)		[kg]	374		382		373	381
Comply with ERP					2018			
Operation					indoor/outdoor (with roofing)			

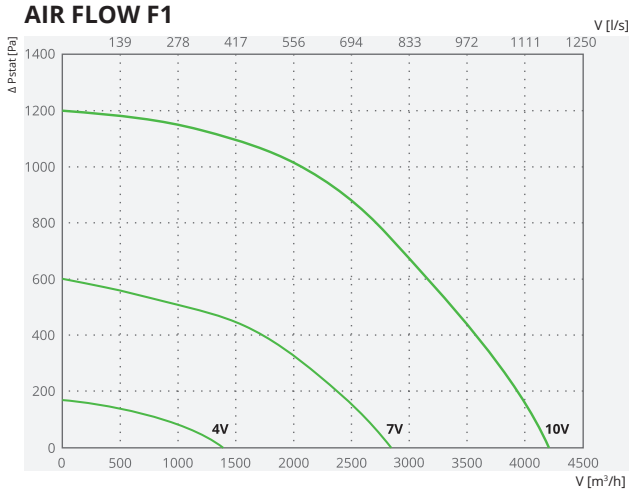
The company reserves the right to make changes of technical data without prior notice

AmberAir Compact CXH

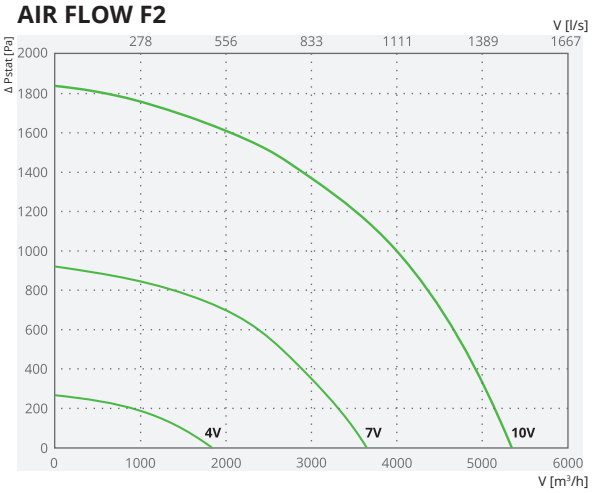
AmberAir Compact 4-CXHE/W

Performance
(with clean filter)

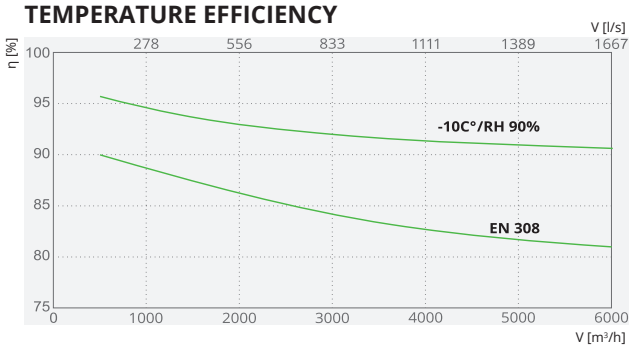
AIR FLOW F1



AIR FLOW F2



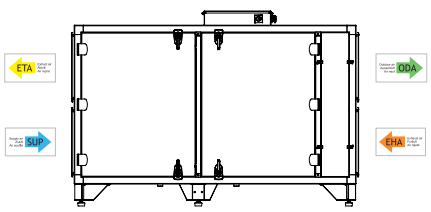
TEMPERATURE EFFICIENCY



Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

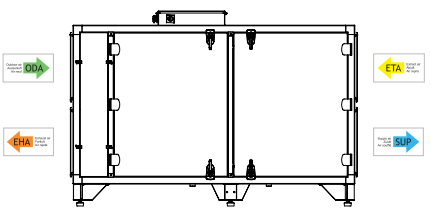
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



View from inspection side

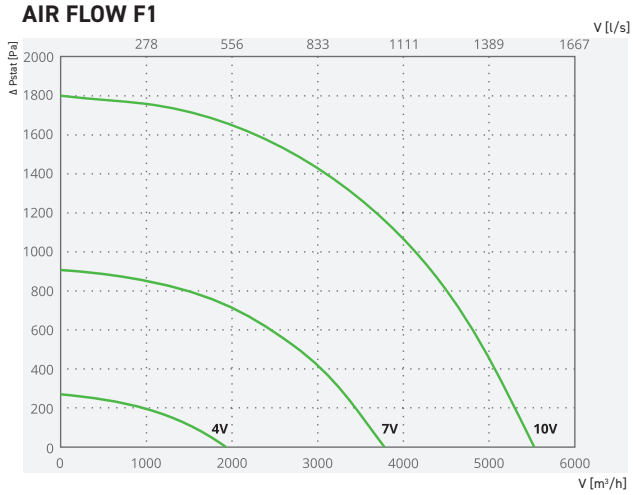
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]	~3, 400				-	-
		[kW]	6.00	7.20	6.00	7.20	-	-
Fans	phase/voltage	[50Hz/VAC]	~1, 230		~3, 400		~1, 230	~3, 400
exhaust	power/current	[kW/A]	1.35/6.70		2.50/4.00		1.35/6.70	2.50/4.00
	fan speed	[min^{-1}]	2920		3640		2920	3640
supply	power/current	[kW/A]	1.35/6.70		2.50/4.00		1.35/6.70	2.50/4.00
	fan speed	[min^{-1}]	2920		3640		2920	3640
Max power consumption		[kW/A]	8.70/24.07	9.90/25.80	11.00/18.67	12.20/20.40	3.00/17.40	5.30/12.00
Power connection	phase/voltage	[50Hz/VAC]	~3, 400					
Control board			Comfort MCB					
Filter class	exhaust/supply		Coarse 65% (G4), ePM$_{10}$ 55% (M5), ePM$_1$ 70% (F7)					
Housing insulation, polyurethane		[mm]	45					
Colour	RAL	Grey	7040					
Weight (net, without packing)		[kg]	439				438	
Comply with ERP			2018					
Operation			indoor/outdoor (with roofing)					

AmberAir Compact CXH

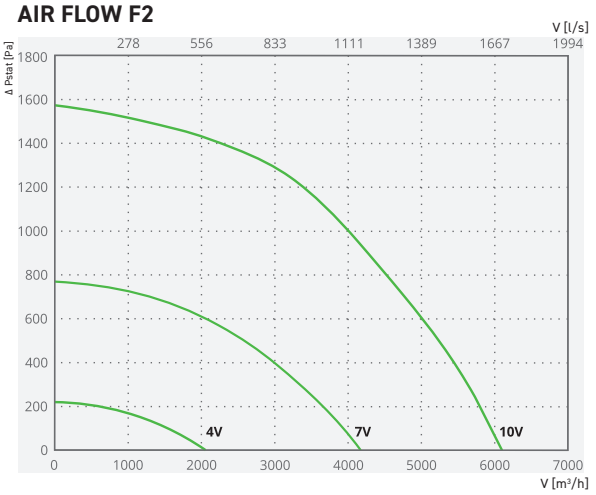
AmberAir Compact 5-CXHE/W

——— Performance (with clean filter)

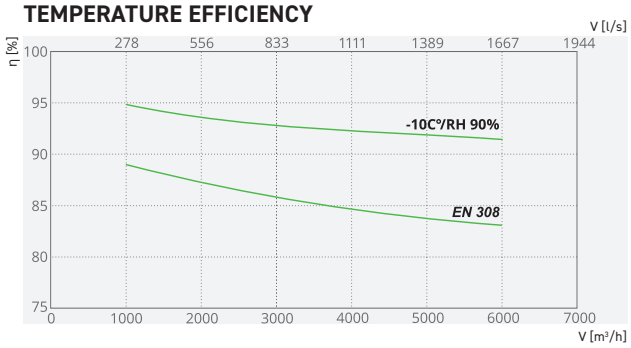
AIR FLOW F1



AIR FLOW F2



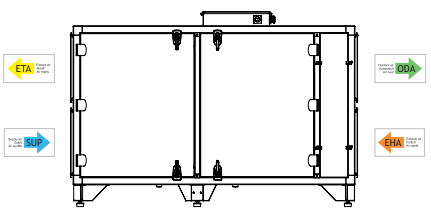
TEMPERATURE EFFICIENCY



Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

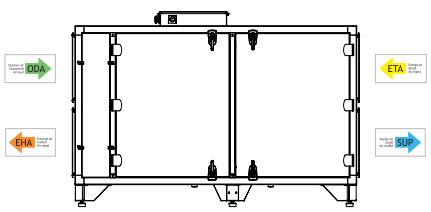
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



View from inspection side

			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]		~3, 400			-	-
		[kW]	7.20	9.00	7.20	9.00	-	-
Fans	phase/voltage	[50Hz/VAC]			~3, 400			
exhaust	power/current	[kW/A]	2.50/4.00		2.50/4.00		2.50/4.00	2.50/4.00
	fan speed	[min^{-1}]	3640		2970		3640	2970
supply	power/current	[kW/A]	2.50/4.00		2.50/4.00		2.50/4.00	2.50/4.00
	fan speed	[min^{-1}]	3640		2970		3640	2970
Max power consumption		[kW/A]	12.20/20.40	14.00/23.00	12.20/20.40	14.00/23.00	5.30/12.00	5.30/12.00
Power connection	phase/voltage	[50Hz/VAC]			~3, 400			
Control board					Comfort MCB			
Filter class	exhaust/supply				Coarse 65% (G4), ePM$_{10}$ 55% (M5), ePM$_1$ 70% (F7)			
Housing insulation, polyurethane		[mm]			45			
Colour	RAL	Grey			7040			
Weight (net, without packing)		[kg]	490		495		490	495
Comply with ERP					2018			
Operation					indoor/outdoor (with roofing)			

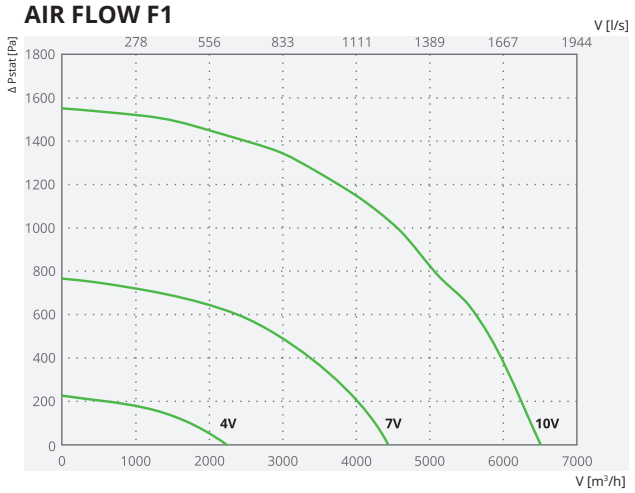
The company reserves the right to make changes of technical data without prior notice

AmberAir Compact CXH

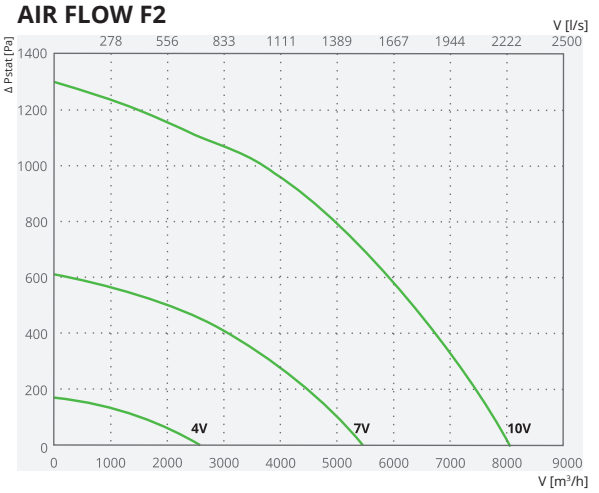
AmberAir Compact 6-CXHE/W

Performance
(with clean filter)

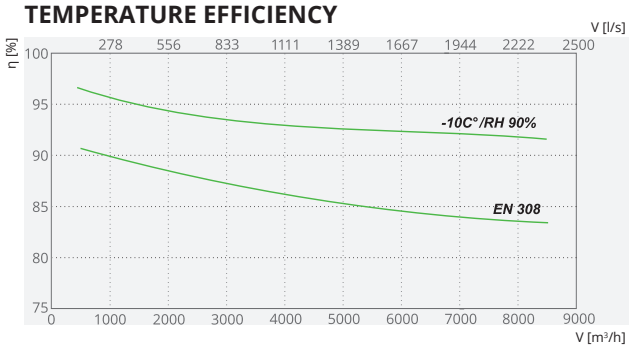
AIR FLOW F1



AIR FLOW F2



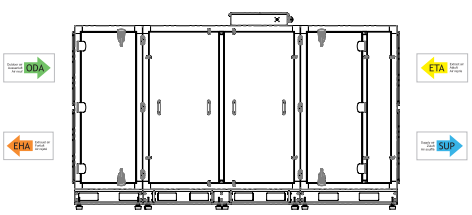
TEMPERATURE EFFICIENCY



Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

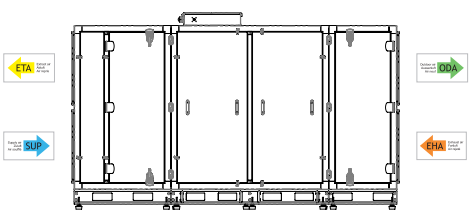
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



View from inspection side

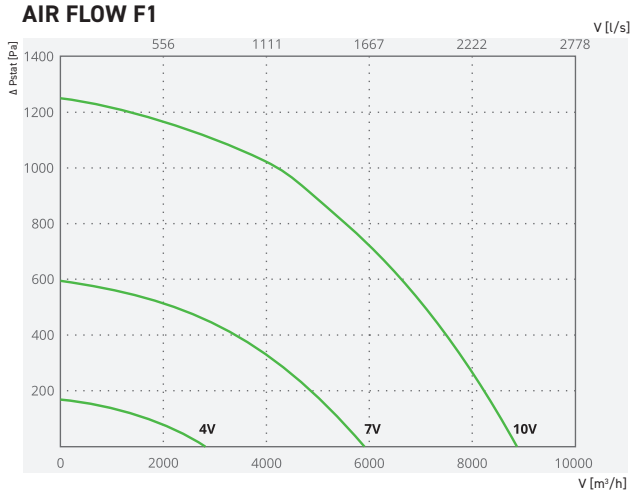
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]	~3, 400				-	-
		[kW]	9.00				-	-
Fans	phase/voltage	[50Hz/VAC]	~3, 400					
exhaust	power/current	[kW/A]	2.50/4.00		2.90/4.80		2.50/4.00	2.90/4.80
	fan speed	[min^{-1}]	2970		2120		2970	2120
supply	power/current	[kW/A]	2.50/4.00		2.90/4.80		2.50/4.00	2.90/4.80
	fan speed	[min^{-1}]	2970		2120		2970	2120
Max power consumption		[kW/A]	14.00/23.00		14.80/24.60		5.50/12.00	6.30/13.60
Power connection	phase/voltage	[50Hz/VAC]	~3, 400					
Control board			Comfort MCB					
Filter class	exhaust/supply		Coarse 65% (G4), ePM$_{10}$ 55% (M5), ePM$_1$ 70% (F7)					
Housing insulation, polyurethane		[mm]	45					
Colour	RAL	Grey	7040					
Weight (net, without packing)		[kg]	840		854		843	857
Comply with ERP			2018					
Operation			indoor/outdoor (with roofing)					

AmberAir Compact CXH

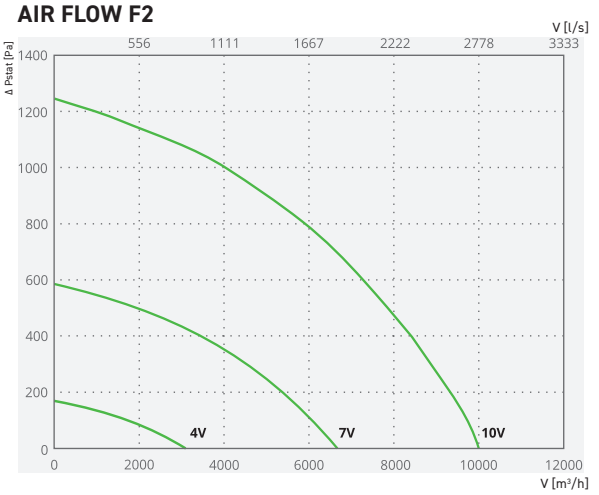
AmberAir Compact 7-CXHE/W

——— Performance (with clean filter)

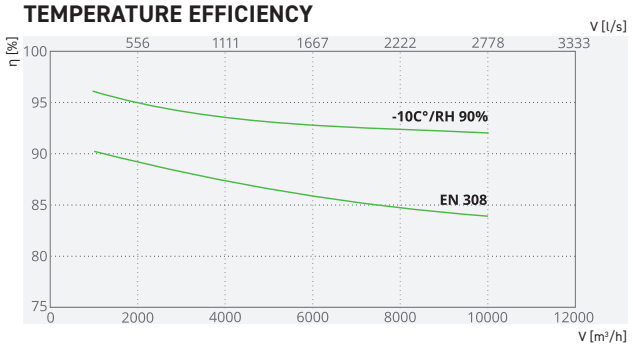
AIR FLOW F1



AIR FLOW F2



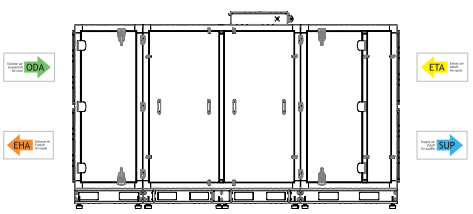
TEMPERATURE EFFICIENCY



Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

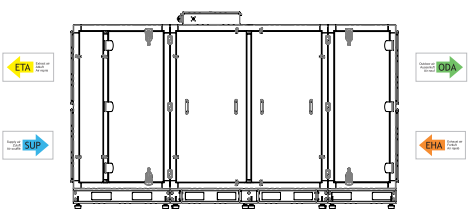
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



View from inspection side

			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]	~3, 400				-	-
		[kW]	12.00	15.00	12.00	15.00	-	-
Fans	phase/voltage	[50Hz/VAC]	~3, 400					
exhaust	power/current	[kW/A]	2.90/4.80		3.50/5.60		2.90/4.80	3.50/5.60
	fan speed	[min^{-1}]	2120		1860		2120	1860
supply	power/current	[kW/A]	2.90/4.80		3.50/5.60		2.90/4.80	3.50/5.60
	fan speed	[min^{-1}]	2120		1860		2120	1860
Max power consumption		[kW/A]	17.80/28.94	20.80/33.27	19.00/30.54	22.00/34.87	6.30/13.60	7.50/15.20
Power connection	phase/voltage	[50Hz/VAC]	~3, 400					
Control board			Comfort MCB					
Filter class	exhaust/supply		Coarse 65% (G4), ePM$_{10}$ 55% (M5), ePM$_1$ 70% (F7)					
Housing insulation, polyurethane		[mm]	45					
Colour	RAL	Grey	7040					
Weight (net, without packing)		[kg]	994		1007		994	1007
Comply with ERP			2018					
Operation			indoor/outdoor (with roofing)					

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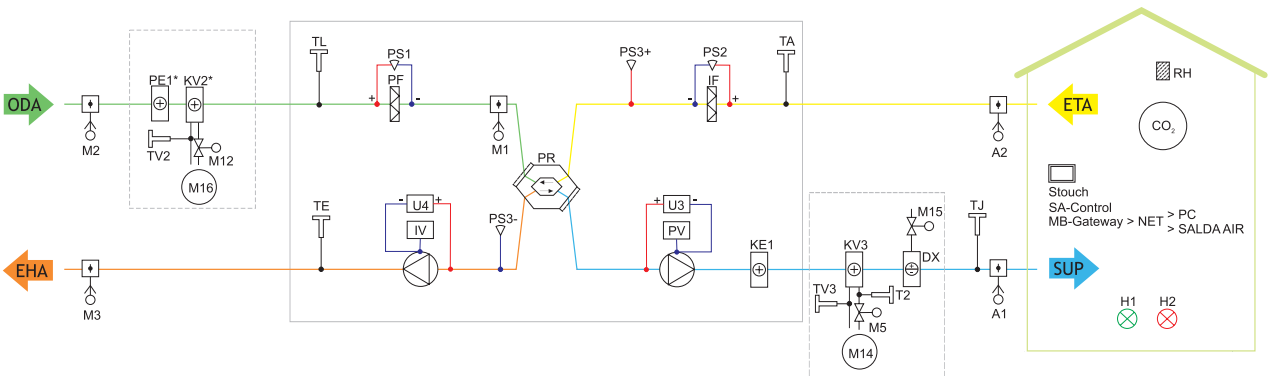
AmberAir Compact 1-7CXHE
VERSIONS WITH ELECTRICAL HEATER



List of Components

PR	Plate heat excahnger	**M15**	DX cooler valve motor**
PV	Supply air fan	**M16**	Water preheater circulation pump
IF	Filter for extract air	**A1**	Fire alarm damper actuator
PF	Filter for supply air	**A2**	Fire alarm damper actuator
IV	Exhaust air fan	**TJ**	Supply air temperature sensor
KE1	Electric heater	**TL**	Outdoor air temperature sensor
PE1*	Electric pre-heater	**TE**	Exhaust air temperature sensor
KV2*	Water pre-heater	**TA**	Extract air temperature sensor
KV3	Water cooler	**TV2**	Water pre-heater water temperature sensor
DX	DX cooler	**TV3**	Water cooler water temperature sensor
M1	Actuator for by-pass damper	**T2**	Water heater/cooler switching thermostat
M2	Actuator for outdoor air damper	**PS1**	Supply air filter pressure switch
M3	Actuator for exhaust air damper	**PS2**	Extract air filter pressure switch
M5	Water cooler valve motor	**PS3**	Heat exchanger anti-frost pressure switch
M12	Water preheater valve motor	**U3**	Supply air fan pressure sensor
M14	Water cooler circulation pump**	**U4**	Exhaust air fan pressure sensor

List of external sensors, inputs/outputs and controllers

RH	RH sensor	**PC**	Computer
CO_2	CO_2 sensor	**FA**	Fire alarm
Stouch	Remote control panel	**FPP**	Fireplace protection
Flex MCB	Remote control panel		System mode switch (START/STOP)
MB-Gateway	Network module		Fans speed switch (BOOST)
SaldaAir	Mobile application	**H1**	Operation indication output
NET	Network	**H2**	Alarm indication output

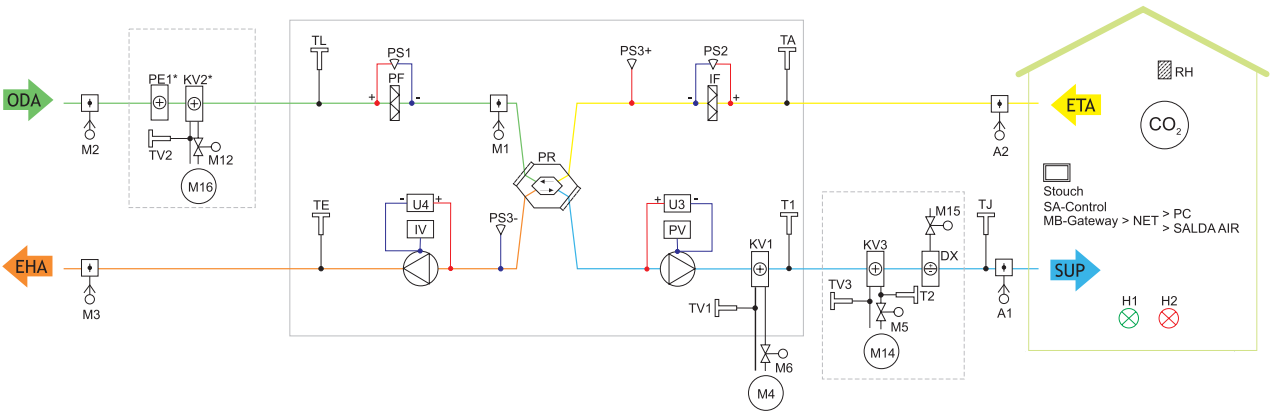
Symbols

ODA Outdoor air | ETA Extract air | EHA Exhaust air | SUP Supply air | Ventilated premises

* - only one preheater can be connected.
** - only one cooler can be connected.

AmberAir Compact CXH

AmberAir Compact 1-7CXHW
VERSIONS WITH WATER HEATER



List of Components

PR	Plate heat excahnger	**M15**	DX cooler valve motor**
PV	Supply air fan	**M16**	Water preheater circulation pump
IF	Filter for extract air	**A1**	Fire alarm damper actuator
PF	Filter for supply air	**A2**	Fire alarm damper actuator
IV	Exhaust air fan	**TJ**	Supply air temperature sensor
PE1*	Electric pre-heater	**TL**	Outdoor air temperature sensor
KV1	Water heater (reverse mode available)	**TE**	Exhaust air temperature sensor
KV2*	Water pre-heater	**TA**	Extract air temperature sensor
KV3	Water cooler	**TV1**	Water heater water temperature sensor
DX	DX cooler	**TV2**	Water pre-heater water temperature sensor
M1	Actuator for by-pass damper	**TV3**	Water cooler water temperature sensor
M2	Actuator for outdoor air damper	**T1**	Water heater thermostat
M3	Actuator for exhaust air damper	**T2**	Water heater/cooler switching thermostat
M4	Water heater circulation pump	**PS1**	Supply air filter pressure switch
M5	Water cooler valve motor	**PS2**	Extract air filter pressure switch
M6	Water heater valve motor	**PS3**	Heat exchanger anti-frost pressure switch
M12	Water preheater valve motor	**U3**	Supply air fan pressure sensor
M14	Water cooler circulation pump**	**U4**	Exhaust air fan pressure sensor

List of external sensors, inputs/outputs and controllers

RH	RH sensor	**PC**	Computer
CO_2	CO_2 sensor	**FA**	Fire alarm
Stouch	Remote control panel	**FPP**	Fireplace protection
Flex MCB	Remote control panel		System mode switch (START/STOP)
MB-Gateway	Network module		Fans speed switch (BOOST)
SaldaAir	Mobile application	**H1**	Operation indication output
NET	Network	**H2**	Alarm indication output

Symbols

ODA Outdoor air | ETA Extract air | EHA Exhaust air | SUP Supply air | Ventilated premises

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ACCESSORIES

Network Module	Nano Router	Remote controller	Remote controller	CO2 sensor	Humidity sensor	Temperature sensor	Duct smoke detector	Presence detectors	Motion detector	Pressure transmitter	Pre-heater
MB-Gateway PRGPU082	**TL-WR802N** PRGPU105	**Stouch** PRGPU051	**Flex MCB (EN)** PRGPU107	**S-RC02-F2** ZAKKT0048 **S-RC02** ZAKKT0049	**S-KFF-U** ZAKKT0051 **S-KFF-U-D-F2** ZAKKT0050	**TJ1TE-NTC10K3B-4.5x90P-2x6,0mPVC-FL** PJUT0071 **TJ1-NTC10k3B-6x240S-2x2.0mPVC-CF** PJUT0076	**UG3A4O** ZAKKT0110	**IR24-P** ZAKJT019 **IR24-PC** ZAKJT020	**PATROL_701** ZAKJT021	**SPD-G-6K0** ZAKKT0125 **S-1141** ZAKKT0047	**Circular or rectangular connection**
p. 57	**p. 58**	**p. 59**	**p. 60**	**p. 61**	**p. 62**	**p. 63**	**p. 64**	**p. 65**	**p. 66**	**p. 67**	**p. 68**

Accessories	Name	Art No.	Page	Unit						
DAMPER ACTUATORS				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	NM230A-TP	ZAKP0055	p. 81	✓	✓	✓	✓	✓	✓	✓
	LF 230	ZAKP0039					✓	✓		
	NF230A	ZAKP0051							✓	✓
ENERGY ANALYZERS				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	Energy analyzer EM23 (PULSE)	ZAKKT0118	p. 82	✓	✓					
	Energy analyzer EM210 (PULSE)	ZAKKT0116				✓	✓	✓	✓	✓
	Energy analyzer EM23 (PULSE+MODBUS)	ZAKKT0119		✓	✓					
	Energy analyzer EM210 (PULSE+MODBUS)	ZAKKT0120				✓	✓	✓	✓	✓
	Energy analyzer EM24 (M-BUS)	ZAKKT0121		✓	✓	✓	✓	✓	✓	✓
WATER COOLERS				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	AVA 315	GSIAVA006	p. 83	✓						
	AVA 400	GSIAVA007			✓	✓				
	AVA 500	GSIAVA015					✓			
	AVA 630	GSIAVA008						✓	✓	
	AVA 710	GSIAVA009								✓
DX COOLERS				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	AVA-DX 315	GSIAVA010	p. 85	✓						
	AVA-DX 400	GSIAVA011			✓	✓				
	AVA-DX 500	GSIAVA012					✓			
	AVA-DX 630	GSIAVA013						✓	✓	
	AVA-DX 710	GSIAVA014								✓
SILENCERS FOR CIRCULAR DUCTS				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	MUTE 315X900	GSOMUTE024	p. 93	✓						
SILENCERS FOR RECTANGULAR DUCTS				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	SSP 695x355x1000 (3x100x100)	GSOSSP216_1027	p. 94	✓						
	SSP 700x485x1000 (3x100x100)	GSOSSP216_1028			✓					
	SSP 735x520x1000 (4x100x80)	GSOSSP216_1029				✓				
	SSP 1065x520x1000 (5x100x100)	GSOSSP216_1030					✓			
	SSP 1135x520x1000 (6x100x80)	GSOSSP216_1031						✓		
	SSP 1440x655x1000 (7x100x100)	GSOSSP216_1032							✓	
	SSP 1805x655x1000 (9x100x100)	GSOSSP216_1033								✓
RECTANGULAR FLEXIBLE CONNECTIONS				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	LJ-E 69.5-35.5	GLJLJ/E044	p. 97	✓						
	LJ-E 70-48.5	GLJLJ/E045			✓					
	LJ-E 73.5-52	GLJLJ/E046				✓				
	LJ-E 106-52	GLJLJ/E047					✓			
	LJ-E 113.5-52	GLJLJ/E048						✓		
	LJ-E 144-65.5	GLJLJ/E049							✓	
	LJ-E 180.5-65.5	GLJLJ/E050								✓
CIRCULAR FLEXIBLE CONNECTIONS				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	LSVF 315	GVELSVF005	p. 98	✓						
	LSVF 400	GVELSVF007			✓	✓				
	LSVF 500	GVELSVF009					✓			
	LSVF 630	GVELSVF010						✓	✓	
	LSVF 710	GVELSVF018								✓
RECTANGULAR SHUT-OFF DAMPERS				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	SSK 695-355	GSKSSK751	p. 99	✓						
	SSK 700-485	GSKSSK752			✓					
	SSK 735-520	GSKSSK753				✓				
	SSK 1060-520	GSKSSK754					✓			
	SSK 1135-520	GSKSSK755						✓		
	SSK 1440-655	GSKSSK756							✓	
	SSK 1805-655	GSKSSK757								✓

AmberAir Compact CXH

ACCESSORIES

Accessories	Name	Art No.	Page	Unit						
CIRCULAR SHUT-OFF DAMPERS				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	SKG-A 315	GSKSKG035	p. 100	✓						
	SKG-A 400	GSKSKG037			✓	✓				
FLANGE ADAPTERS				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	STP-CI 695x355-315	GSFSTPRI161_356	p. 104	✓						
	STP-CI 705x485-400	GSFSTPCI161_404			✓					
	STP-CI 735x520-500	GSFSTPCI161_331				✓				
	STP-CI 1062x520-500	GSFSTPRI161_403					✓			
	STP-CI 1133x520-630	GSFSTPCI161_355						✓		
	STP-CI 1440x655-630	GSFSTPCI161_407							✓	
	STP-CI 1804x654-710	GSFSTPCI161_406								✓
FILTER BOX				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	FDS-S 69.5-35.5	GFZFDS059	p. 107	✓						
	FDS-S 70-48.5	GFZFDS065			✓					
	FDS-S 74-52	GFZFDS060				✓				
	FDS-S 106-52	GFZFDS061					✓			
	FDS-S 113.5-52	GFZFDS062						✓		
	FDS-S 114-65.5	GFZFDS063							✓	
	FDS-S 108.5-65.5	GFZFDS064								✓
PANEL FILTERS ePM_1 70% (F7)				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	MPL 747x365x46 F7	ZFEPF170	p. 109	✓						
	MPL 750x496x46 F7	ZFEPF166			✓					
	MPL 565x395x46 F7	ZFEPF148				✓				
	MPL 558x564x46 F7	ZFEPF197					✓			
	MPL 565x395x46 F7	ZFEPF148						✓		
	MPL 635x497x46 F7	ZFEPF199							✓	
	MPL 635x619x90 F7	ZFEPF189								✓
	MPL 635x619x46 F7	ZFEPF190								✓
PANEL FILTERS COARSE 65% (G4)				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	MPL 747x365x46 G4	ZFEPF186	p. 109	✓						
	MPL 750x496x46 G4	ZFEPF168			✓					
	MPL 565x395x46 G4	ZFEPF165				✓				
	MPL 558x564x46 G4	ZFEPF195					✓			
	MPL 565x395x46 G4	ZFEPF165						✓		
	MPL 635x497x46 G4	ZFEPF201							✓	
	MPL 635x619x90 G4	ZFEPF193								✓
	MPL 635x619x46 G4	ZFEPF194								✓
PANEL FILTERS ePM_{10} 55% (M5)				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	MPL 747x365x46 M5	ZFEPF169	p. 109	✓						
	MPL 750x496x46 M5	ZFEPF167			✓					
	MPL 565x395x46 M5	ZFEPF147				✓				
	MPL 558x564x46 M5	ZFEPF196					✓			
	MPL 565x395x46 M5	ZFEPF147						✓		
	MPL 635x497x46 M5	ZFEPF200							✓	
	MPL 635x619x90 M5	ZFEPF191								✓
	MPL 635x619x46 M5	ZFEPF192								✓
BAG FILTERS ePM_{10} 75% (F7)				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	FMK 689x328x430-7 F7	GFIFMK1140	p. 109	✓						
	FMK 694x458x430-7 F7	GFIFMK1146			✓					
	FMK 727x493x410-8 F7	GFIFMK1141				✓				
	FMK 525x493x450-5 F7	GFIFMK1142					✓			
	FMK 563x493x415-6 F7	GFIFMK1143						✓		
	FMK 715x627x450-7 F7	GFIFMK1144							✓	
	FMK 598x627x430-6 F7	GFIFMK1145								✓
BAG FILTERS COARSE 60% (G4)				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	FMK 689x328x520-9 G4	GFIFMK1154	p. 109	✓						
	FMK 694x458x510-10 G4	GFIFMK1155			✓					
	FMK 727x493x610-10 G4	GFIFMK1156				✓				
	FMK 525x493x610-7 G4	GFIFMK1157					✓			
	FMK 563x493x610-8 G4	GFIFMK1158						✓		
	FMK 715x627x530-10 G4	GFIFMK1159							✓	
	FMK 598x627x610-7 G4	GFIFMK1160								✓

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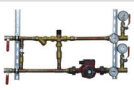
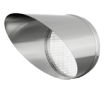
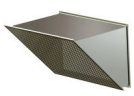
ACCESSORIES

Accessories	Name	Art No.	Page	Unit						
BAG FILTERS COARSE 85% (M5)				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	FMK 689x328x420-9 M5	GFIFMK1147	p. 109	✓						
	FMK 694x458x420-10 M5	GFIFMK1148			✓					
	FMK 727x493x480-10 M5	GFIFMK1149				✓				
	FMK 525x493x480-7 M5	GFIFMK1150					✓			
	FMK 563x493x550-8 M5	GFIFMK1151						✓		
	FMK 715x627x460-9 M5	GFIFMK1152							✓	
	FMK 598x627x490-8 M5	GFIFMK1153								✓
MIXING POINT				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	RMG3-0,63-4	PRMG0001	p. 110	✓	✓	✓	✓	✓	✓	✓
2 AND 3 WAY VALVES				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	VVP45.10-0.63	PRMV005	p. 111	✓	✓	✓	✓	✓	✓	✓
OUTLET-INTAKE COVER				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	ABV 315	GFDABV0315	p. 112	✓						
	ABV 400	GFDABV0400			✓	✓				
	ABV 500	GFDABV0500					✓			
	ABV 630	GFDABV0630						✓	✓	
	ABV 710	GFDABV0710								✓
OUTLET-INTAKE COVER				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	OCR 695X355	GNGPR168_1142_0	p. 112	✓						
	OCR 700X485	GNGPR168_1143_0			✓					
	OCR 740X520	GNGPR168_1144_0				✓				
	OCR 1065X520	GNGPR168_1145_0					✓			
	OCR 1135X520	GNGPR168_1146_0						✓		
	OCR 1440X655	GNGPR168_1147_0								
	OCR 1805X655	GNGPR168_1148_0								
ROOF				1-CXH	2-CXH	3-CXH	4-CXH	5-CXH	6-CXH	7-CXH
	Roof for Compact 1 CXH	GNGPR168_1127_0	p. 114	✓						
	Roof for Compact 2 CXH	GNGPR168_1128_0			✓					
	Roof for Compact 3 CXH	GNGPR168_1129_0				✓				
	Roof for Compact 4 CXH	GNGPR168_1130_0					✓			
	Roof for Compact 5 CXH	GNGPR168_1131_0						✓		
	Roof for Compact 6 CXH	GNGPR168_1132_0							✓	
	Roof for Compact 7 CXH	GNGPR168_1133_0								✓

AmberAir Compact CXH

FUNCTIONS

Description of the functions	MCB E	MCB W
System modes	●	
BOOST function	●	
Cold/heat recovery	●	
Supply air temperature control and compensation	●	
Weekly schedule	●	
Holiday schedule	●	
Night cooling function	●	
CO2 level reduction function	○	
RH level reduction	○	
Dryness protection	○	
Constant air pressure	●	
Constant airflow mode	●	
Heat exchanger frost protection	●	
Manual components control	●	
Fire place function	●	
Fireplace protection (NC)	○	
Fire protection from the external contact	○	
Winter/summer mode	●	
System monitoring	●	
Alarm indication output	●	
Operation indication output	●	
Digital input confguration	●	
Event register (storing up to 50 entries)	●	
Date and time settings	●	
Reset to factory defaults	●	
Air dampers		
Supply/exhaust air dampers control	●	
Fans		
Supply/exhaust air fan fault indication (NC)	●	
Protection by RPM	●	
Protection by pressure	●	
Sensors		
Supply air temperature sonsor	●	
Outdoor air temperature sensor	●	
Extract air temperature sensor	●	
Exhaust air temperature sensor	●	
Water heater temperature sensor	●	
Water pre-heater temperature sensor	●	
Water cooler temperature sensor	○	
Electric heater		
On/off and 0-10V control	●	-
Automatic and Manual protection (NC)	●	-
Electrical pre-heater		
On/off (PWM) and 0-10V control	●	●*
Automatic and Manual protection (NC)	●	●*
Water heater		
0-10V valve control	-	●
Water heater protection – thermostat (NC)	-	○
Water heater circulation pump control	-	●
Water pre-heater		
0-10V valve control	●*	●
Water heater circulation pump control	●*	●
Water cooler		
0-10V valve control	●	
Water cooler circulation pump control	●	
Water cooler operation switching (cooling/heating)	○	
Filters clogging monitoring		
Air flter protection according to pressure relays	●	
Air flters timer	●	

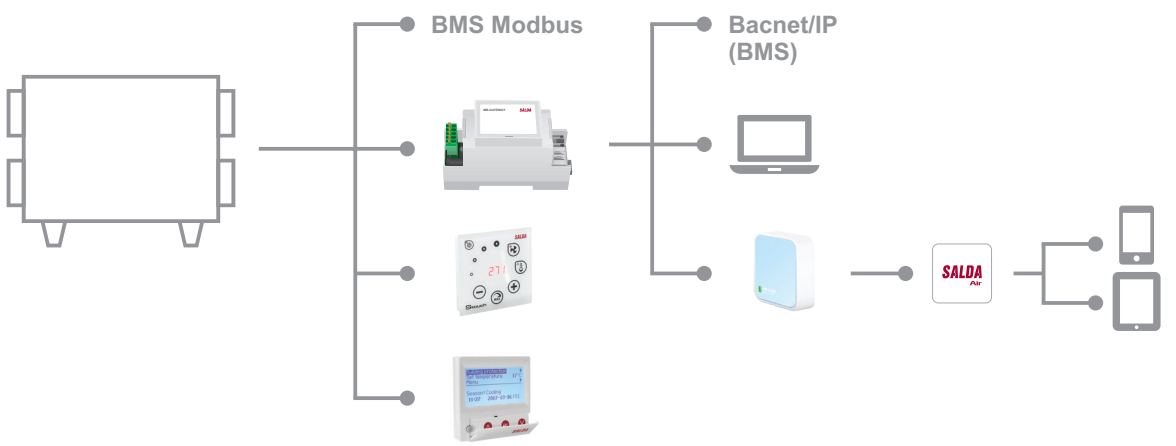
The company reserves the right to make changes of technical data without prior notice

FUNCTIONS

Description of the functions	MCB E	MCB W
Fire alarm damper		
Fire valves control (on/off)	●	
Fire valves testing	●	
DX cooler		
On/off and 0-10V control	●	
DX cooler breakdown indication (NC)	●	
DX cooler operation switching (NO – cooling; NC – heating)	●	
Recirculation		
3P and 0-10V valve control	●	
Recirculation stepped motor control	●	
Bypass damper		
3P and 0-10V damper control	●	
Bypass damper stepped motor control	●	
Remote controllers		
S-Touch	x	
Flex MCB	x	
MB Gateway	x	
Building management system		
Modbus	●	
BACnet/IP	o	

o	Required additional components: CO2 and moisture sensors, switches, etc.
●	Standard feature (the number of features depends on the ventilation unit in which the automatics are used); to be confgured through BMS network or remote control console
x	Remote control consoles
*	The possibility to connect water or electrical pre-heater

REMOTE CONTROL OPTIONS

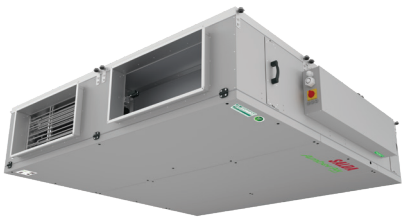


Google Play store: iTunes Apple store:

Salda Air

mobile application: smart indoor climate control solution!

AmberAir Compact CXP



FEATURES

› Installation options: ceiling or ground, indoors or outdoors;
› Easy filter changes from the side without opening doors;
› Optional components: two sizes of integrated water or electrical heaters, with various class pocket or panel filters and left/right service sizes;
› Tested at independent laboratories: a climatic performance test for temperatures ranging from -35^0 C to +40^0 C;
› High efficiency: up to 90% heat recovery, new generation EC fans, smart control, and a 0-10V modulating controlled integrated electrical heater;
› Demand control level with an integrated humidity sensor;
› Certified by Eurovent Certita Certification.

APPLICATION

Offices, stores, hotels, industry or other heated premises (classrooms, apartments, conference rooms, etc.)

DESCRIPTION

The AmberAir Compact CXP is a new generation of ceiling air handling units with an advanced casing and unique maintenance solution, which allows the installation of a unit indoors or outdoors (with optional roofing) and under the ceiling or on the ground. The extended airflow range (up to 3900 m^3/h) enables them to substitute for traditional horizontal and vertical units in order to save space on the ground for other equipment.

REMOTE CONTROL

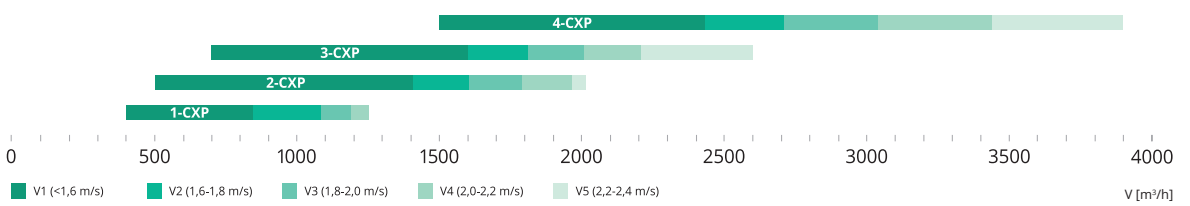
Four remote control options are available:
› Stouch remote controller.
› Flex MCB.
› Building management system connections MODBUS, BACnet/IP.
› Remote control via PC MB-Gateway (TPC/IP).
› SaldaAir app via MB-Gateway and WiFi.

OPERATING CONDITIONS

Outdoor air temeperature without preheater (Salda Antifrost** off):	-5^0/+40^0 C*
Outdoor air temeperature without preheater (Salda Antifrost** on):	-15^0/+40^0 C
Outdoor air temperature with 100% by-pass***:	-23^0/+40^0 C
Outdoor air temperature limits with a selected pre-heater on an air duct:	-40^0/+40^0 C
Outdoor air max humidity:	90%
Temperature limits of an extracted air:	+15^0/+40^0 C
Extract air max humidity:	60%
Maximum room temperature for installing the unit:	+40^0 C

* – when relative humidity of extracted air is lower than 35 %.
** – uses dis-balancing of the airflow and it may cause negative pressure in premises.
*** – depends on AHU confguration.

AIR FLOW DIAGRAM



PRODUCT CODE

AmberAir Compact **3 CX P SD50+ R F1 B1 W1 C1 P**

Product range - trademark
Unit size: 1 – first size; 7 - last size.
Heat exchanger: CX – counter-flow.
Casing: P – ceiling.
Model box: SD50+ – premium;
Service side: R – right, L – left
Fan type: F1 – standard; F2 – more powerful; F3 – standart 3x230V; F4 – more powerful 3x230V
Bypass damper: B1 – 100%*
Heater: W1/W2 – water (1 – lower capacity, 2 – higher capacity); E1/E2/E3/E4 – electrical (1 – lower capacity, 2 – higher capacity, 3 – lower capacity 3x230V, 4 – higher capacity 3x230V).
Control: C1 – MCB control board; C3 – MCB + 3x230V.
Filter: P – panel; B – bag.

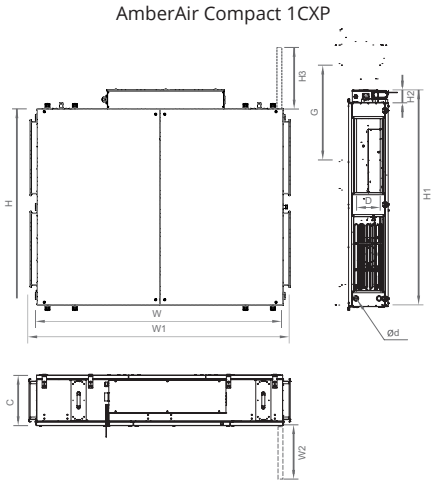
* - 100% means, that bypass damper separates airflows completely: all the supply airflow goes only through heat exchanger or only through bypass. The airflow though by-pass might be lower than maximal supply airflow of the unit.

The company reserves the right to make changes of technical data without prior notice

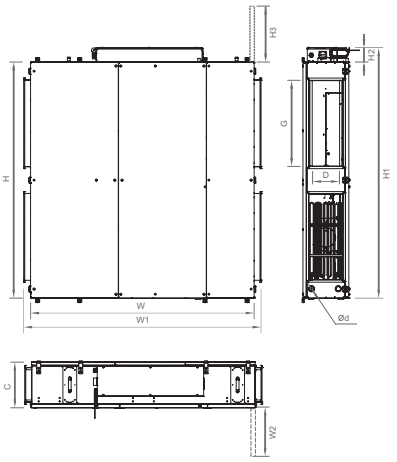
AmberAir Compact CXP

DIMENSIONS

AmberAir Compact 1CXP



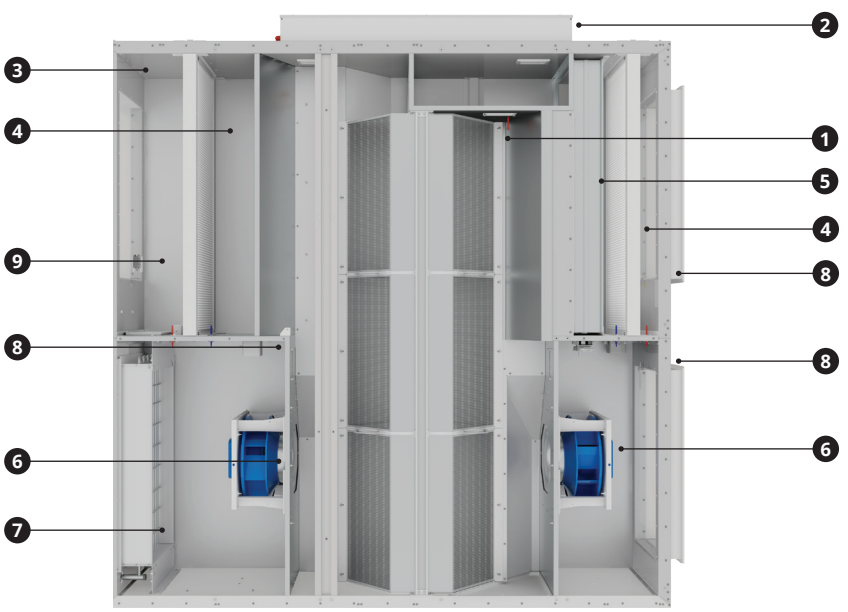
AmberAir Compact 2-4CXP



[mm]

Unit	W	W1	W2	C	H	H1	H2	H3	G	D	ød	ø cond.
AmberAir Compact 1-CXP	1750	1852	875	428	1397	1534	137	650	500	250	46	21.3
AmberAir Compact 2-CXP	1850	2020	725	440	1850	1975	125	900	700	300	46	21.3
AmberAir Compact 3-CXP	1950	2070	770	440	2060	2185	125	1010	750	300	46	21.3
AmberAir Compact 4-CXP	2250	2370	880	540	2250	2370	120	1120	750	350	46	21.3

CONSTRUCTION



1. Counter-flow aluminium heat exchanger:
- Efficiency up to 90%;
- Separated supply and exhaust air: almost no moisture transfer, no mixing;
- Low maintenance;
- Pressure relays – additional anti-frost protection for heat exchanger.

2. Integrated advanced MCB control board:
- Demand control ready ventilation;
- Control by remote controllers, PC via MB-Gateway or BMS (ModBus, BACnet);
- Fire damper control and testing;
- El. heater/preheater 0-10V control;
- Water heater/preheater control and protection;
- DX/water cooler, air damper control;
- Constant airflow mode.

3. Double-skinned casing panels:
- Galvanized steel powder coated corrosion class – C3.

4. Panel (integrated) or pocket (external box) filters:
- Class: Coarse 65% (G4), ePM_{10} 55% (M5), ePM_1 70% (F7);
- Fully recyclable;
- Supply/extract filter pressure switch.

5. 100% motorized by-pass damper.

6. EC fans with a backwards curved impeller.

7. Heater:
- Integrated modulating control electric heater (signal 0-10V);
- Integrated water heater.

8. 3 air temperature sensors (supply, outdoor and exhaust).

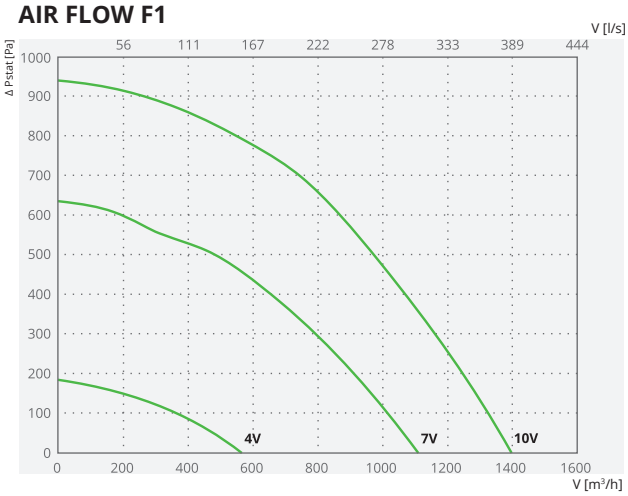
9. DTJ – humidity - temperature sensor.

AmberAir Compact CXP

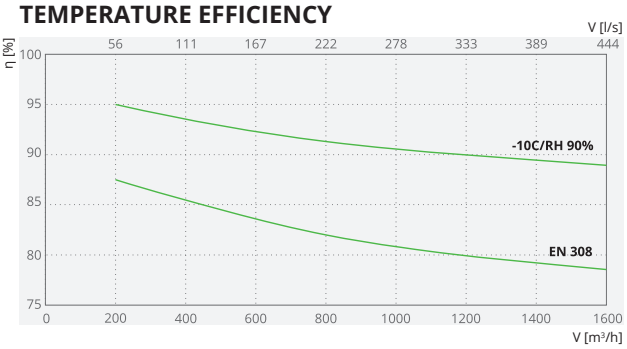
AmberAir Compact 1-CXPE/W

Performance
(with clean filter)

AIR FLOW F1



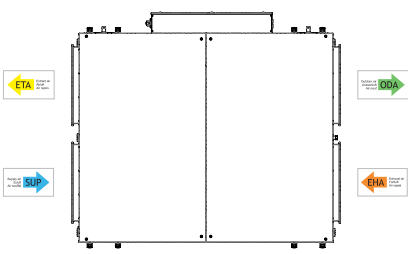
TEMPERATURE EFFICIENCY



Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

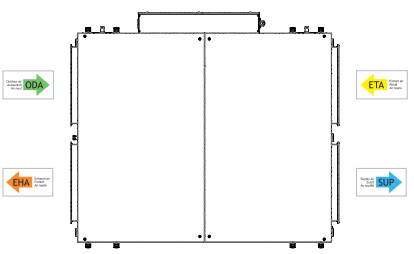
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



View from inspection side

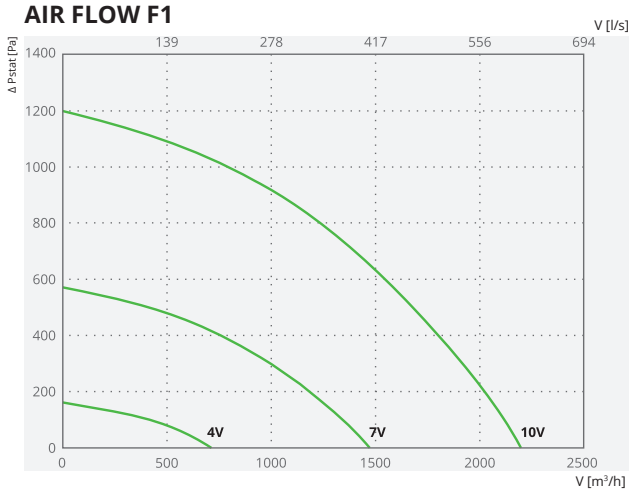
			F1E1	F1E2	F1W
Electrical heater	phase/voltage	[50Hz/VAC]		~1, 230	-
		[kW]	2.00	3.60	-
Fans	phase/voltage	[50Hz/VAC]		~1, 230	
exhaust	power/current	[kW/A]		0.38/2.50	0.38/2.50
	fan speed	[min^{-1}]		3370	3370
supply	power/current	[kW/A]		0.38/2.50	0.38/2.50
	fan speed	[min^{-1}]		3370	3370
Max power consumption		[kW/A]	2.76/15.70	4.36/22.65	1.06/9.00
Power connection	phase/voltage	[50Hz/VAC]		~1, 230	
Control board				Comfort MCB	
Filter class	exhaust/supply			Coarse 65% (G4), ePM$_{10}$ 55% (M5), ePM$_1$ 70% (F7)	
Housing insulation, polyurethane		[mm]		45	
Colour	RAL	Grey		7040	
Weight (net, without packing)		[kg]		217	216
Comply with ERP				2018	
Operation				indoor/outdoor (with roofing)	

The company reserves the right to make changes of technical data without prior notice

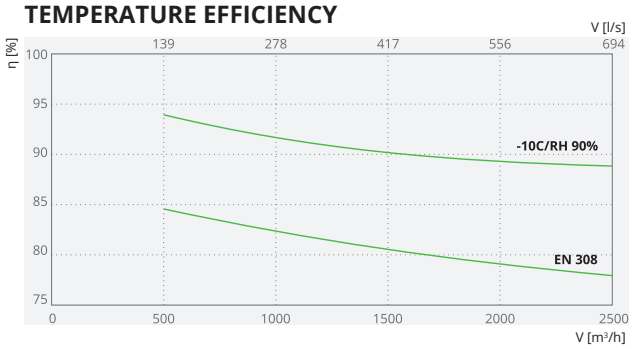
AmberAir Compact 2-CXPE/W

Performance
(with clean filter)

AIR FLOW F1



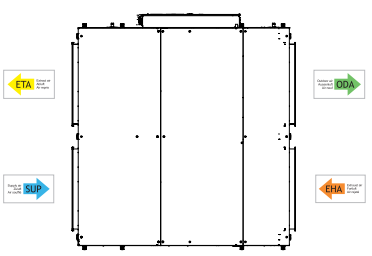
TEMPERATURE EFFICIENCY



Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

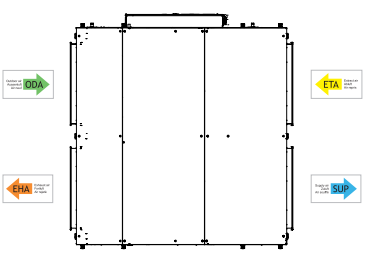
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



View from inspection side

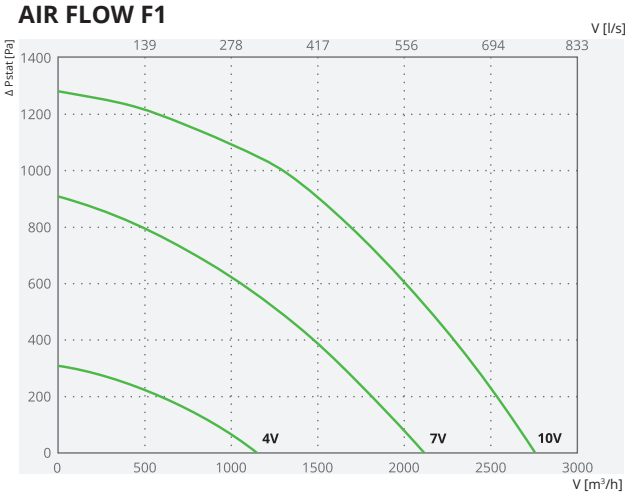
			F1E1	F1E2	F1W
Electrical heater	phase/voltage	[50Hz/VAC]	~3, 400		-
		[kW]	3.00	6.00	-
Fans	phase/voltage	[50Hz/VAC]	~1, 230		
exhaust	power/current	[kW/A]	0.76/3.80		0.76/3.80
	fan speed	[min^{-1}]	3530		3530
supply	power/current	[kW/A]	0.76/3.80		0.76/3.80
	fan speed	[min^{-1}]	3530		3530
Max power consumption		[kW/A]	4.52/13.94	7.52/18.27	1.82/11.60
Power connection	phase/voltage	[50Hz/VAC]	~3, 400		~1, 230
Control board			Comfort MCB		
Filter class	exhaust/supply		Coarse 65% (G4), ePM$_{10}$ 55% (M5), ePM$_1$ 70% (F7)		
Housing insulation, polyurethane		[mm]	45		
Colour	RAL	Grey	7040		
Weight (net, without packing)		[kg]	310		307
Comply with ERP			2018		
Operation			indoor/outdoor (with roofing)		

AmberAir Compact CXP

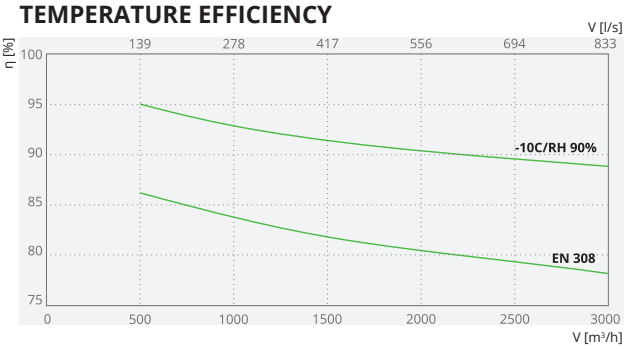
AmberAir Compact 3-CXPE/W

Performance
(with clean filter)

AIR FLOW F1



TEMPERATURE EFFICIENCY



Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

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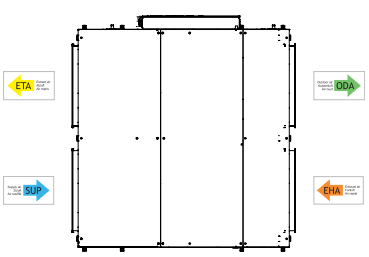
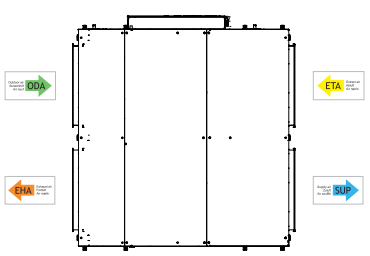
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



View from inspection side

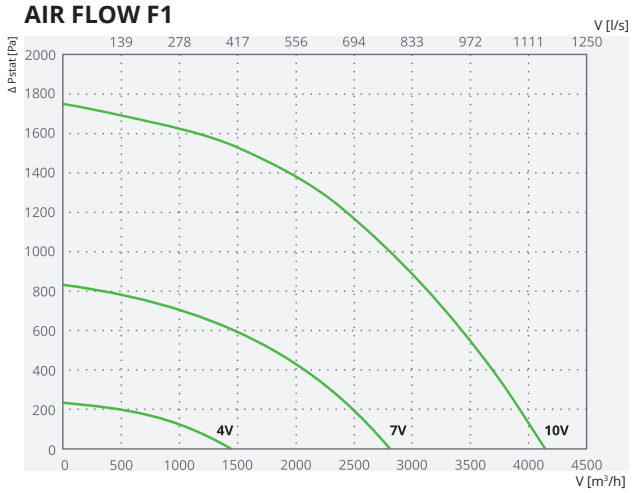
			F1E1	F1E2	F1W
Electrical heater	phase/voltage	[50Hz/VAC]		~3, 400	-
		[kW]	4.50	9.00	-
Fans	phase/voltage	[50Hz/VAC]		~3, 400	
exhaust	power/current	[kW/A]		1.05/1.60	1.05/1.60
	fan speed	[min^{-1}]		3400	3400
supply	power/current	[kW/A]		1.05/1.60	1.05/1.60
	fan speed	[min^{-1}]		3400	3400
Max power consumption		[kW/A]	6.60/11.70	11.10/18.20	2.40/7.20
Power connection	phase/voltage	[50Hz/VAC]		~3, 400	
Control board				Comfort MCB	
Filter class	exhaust/supply			Coarse 65% (G4), ePM$_{10}$ 55% (M5), ePM$_1$ 70% (F7)	
Housing insulation, polyurethane		[mm]		45	
Colour	RAL	Grey		7040	
Weight (net, without packing)		[kg]		365	363
Comply with ERP				2018	
Operation				indoor/outdoor (with roofing)	

The company reserves the right to make changes of technical data without prior notice

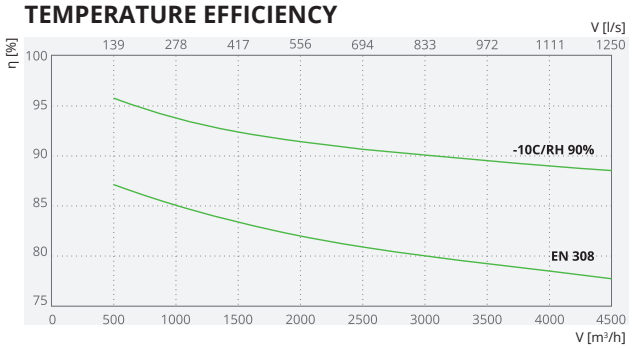
AmberAir Compact 4-CXPE/W

Performance
(with clean filter)

AIR FLOW F1



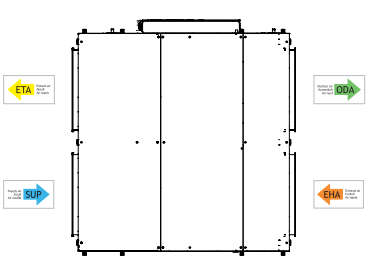
TEMPERATURE EFFICIENCY



Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

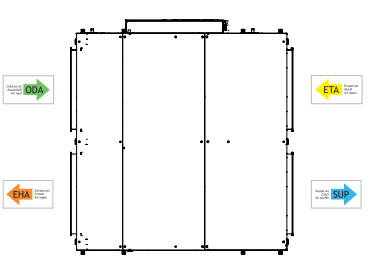
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)

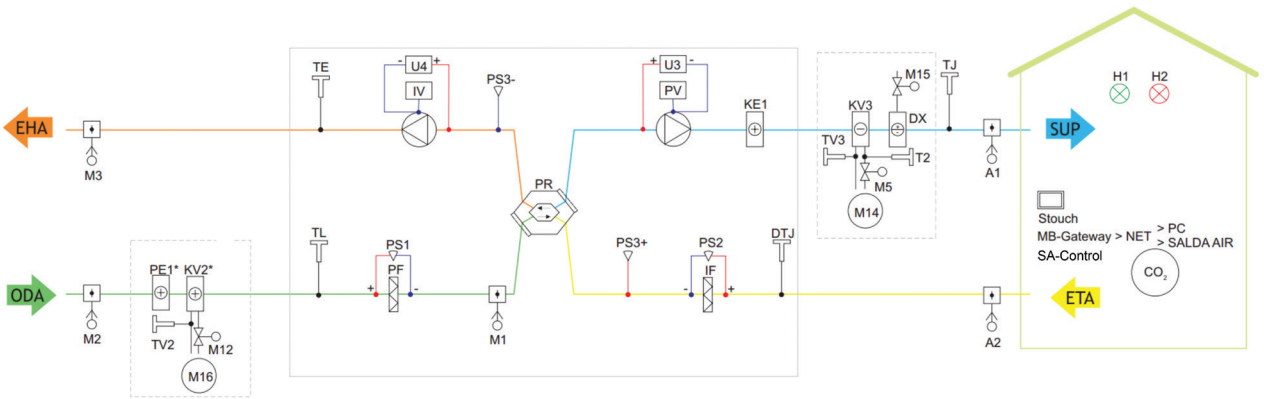


View from inspection side

			F1E1	F1E2	F1W
Electrical heater	phase/voltage	[50Hz/VAC]		~3, 400	-
		[kW]	6.00	12.00	-
Fans	phase/voltage	[50Hz/VAC]		~3, 400	
exhaust	power/current	[kW/A]		2.10/3.50	2.10/3.50
	fan speed	[min^{-1}]		3550	3550
supply	power/current	[kW/A]		2.10/3.50	2.10/3.50
	fan speed	[min^{-1}]		3550	3550
Max power consumption		[kW/A]	10.20/17.67	16.20/26.34	4.50/11.00
Power connection	phase/voltage	[50Hz/VAC]		~3, 400	
Control board				Comfort MCB	
Filter class	exhaust/supply			Coarse 65% (G4), ePM$_{10}$ 55% (M5), ePM$_1$ 70% (F7)	
Housing insulation, polyurethane		[mm]		45	
Colour	RAL	Grey		7040	
Weight (net, without packing)		[kg]		446	442
Comply with ERP				2018	
Operation				indoor/outdoor (with roofing)	

AmberAir Compact CXP

AmberAir Compact 1-4CXPE
VERSIONS WITH ELECTRICAL HEATER



List of Components

PR	Plate heat excahnger	**M15**	DX cooler valve motor**
PV	Supply air fan	**M16**	Water preheater circulation pump
IF	Filter for extract air	**A1**	Fire alarm damper actuator
PF	Filter for supply air	**A2**	Fire alarm damper actuator
IV	Exhaust air fan	**TJ**	Supply air temperature sensor
KE1	Electric heater	**TL**	Outdoor air temperature sensor
PE1*	Electric pre-heater	**TE**	Exhaust air temperature sensor
KV2*	Water pre-heater	**DTJ**	Extract air temperature and RH sensor
KV3	Water cooler	**TV2**	Water pre-heater water temperature sensor
DX	DX cooler	**TV3**	Water cooler water temperature sensor
M1	Actuator for by-pass damper	**T2**	Water heater/cooler switching thermostat
M2	Actuator for outdoor air damper	**PS1**	Supply air filter pressure switch
M3	Actuator for exhaust air damper	**PS2**	Extract air filter pressure switch
M5	Water cooler valve motor	**PS3**	Heat exchanger anti-frost pressure switch
M12	Water preheater valve motor	**U3**	Supply air fan pressure sensor
M14	Water cooler circulation pump**	**U4**	Exhaust air fan pressure sensor

List of external sensors, inputs/outputs and controllers

RH	RH sensor	**PC**	Computer
CO_2	CO_2 sensor	**FA**	Fire alarm
Stouch	Remote control panel	**FPP**	Fireplace protection
Flex MCB	Remote control panel		System mode switch (START/STOP)
MB-Gateway	Network module		Fans speed switch (BOOST)
SaldaAir	Mobile application	**H1**	Operation indication output
NET	Network	**H2**	Alarm indication output

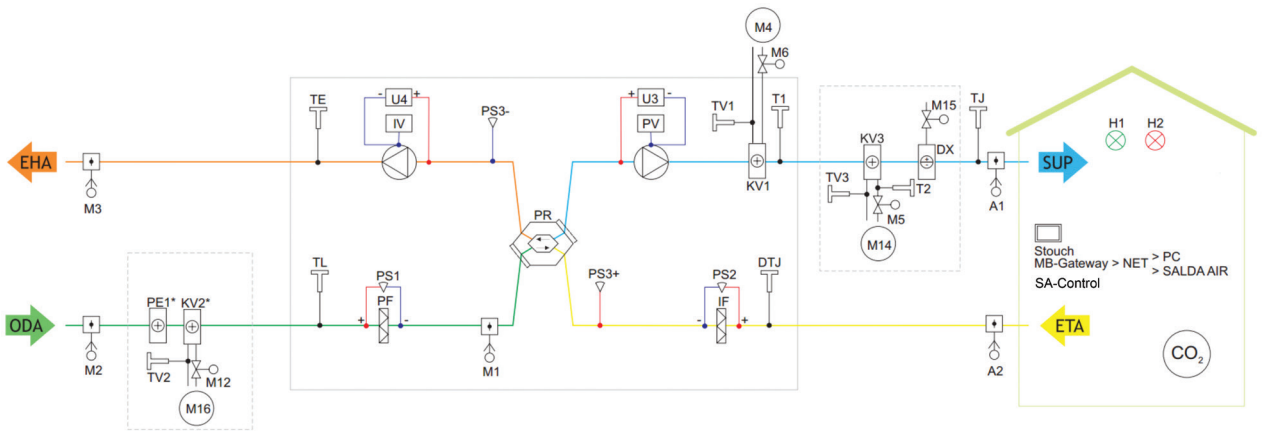
Symbols

ODA Outdoor air | ETA Extract air | EHA Exhaust air | SUP Supply air | Ventilated premises

* - only one preheater can be connected.
** - only one cooler can be connected.

The company reserves the right to make changes of technical data without prior notice

AmberAir Compact 1-4CXPW
VERSIONS WITH WATER HEATER



List of Components

PR	Plate heat excahnger	**M15**	DX cooler valve motor**
PV	Supply air fan	**M16**	Water preheater circulation pump
IF	Filter for extract air	**A1**	Fire alarm damper actuator
PF	Filter for supply air	**A2**	Fire alarm damper actuator
IV	Exhaust air fan	**TJ**	Supply air temperature sensor
PE1*	Electric pre-heater	**TL**	Outdoor air temperature sensor
KV1	Water heater (reverse mode available)	**TE**	Exhaust air temperature sensor
KV2*	Water pre-heater	**DTJ**	Extract air temperature and RH sensor
KV3	Water cooler	**TV1**	Water heater water temperature sensor
DX	DX cooler	**TV2**	Water pre-heater water temperature sensor
M1	Actuator for by-pass damper	**TV3**	Water cooler water temperature sensor
M2	Actuator for outdoor air damper	**T1**	Water heater thermostat
M3	Actuator for exhaust air damper	**T2**	Water heater/cooler switching thermostat
M4	Water heater circulation pump	**PS1**	Supply air filter pressure switch
M5	Water cooler valve motor	**PS2**	Extract air filter pressure switch
M6	Water heater valve motor	**PS3**	Heat exchanger anti-frost pressure switch
M12	Water preheater valve motor	**U3**	Supply air fan pressure sensor
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Symbols

Outdoor air | Extract air | Exhaust air | Supply air | Ventilated premises

* - only one preheater can be connected.
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AmberAir Compact CXP

ACCESSORIES

Network Module	Nano Router	Remote controller	Remote controller	CO2 sensor	Humidity sensor	Temperature sensor	Duct smoke detector	Presence detectors	Motion detector	Pressure transmitter	Pre-heater
MB-Gateway PRGPU082	**TL-WR802N** PRGPU105	**Stouch** PRGPU051	**Flex MCB (EN)** PRGPU107	**S-RC02-F2** ZAKKT0048 **S-RC02** ZAKKT0049	**S-KFF-U** ZAKKT0051 **S-KFF-U-D-F2** ZAKKT0050	**TJ1TE-NTC10K3B-4.5x90P-2x6,0mPVC-FL** PJUT0071 **TJ1-NTC10k3B-6x240S-2x2.0mPVC-CF** PJUT0076	**UG3A4O** ZAKKT0110	**IR24-P** ZAKJT019 **IR24-PC** ZAKJT020	**PATROL_701** ZAKJT021	**SPD-G-6K0** ZAKKT0125 **S-1141** ZAKKT0047	**Circular or rectangular connection**
p. 57	**p. 58**	**p. 59**	**p. 60**	**p. 61**	**p. 62**	**p. 63**	**p. 64**	**p. 65**	**p. 66**	**p. 67**	**p. 68**

Accessories	Name	Art No.	Page	Unit			
DAMPER ACTUATORS				1-CXP	2-CXP	3-CXP	4-CXP
	LM230A-TP	ZAKP0045	p. 81	✓	✓	✓	✓
	LF230	ZAKP0039		✓	✓	✓	✓
ENERGY ANALYZERS				1-CXP	2-CXP	3-CXP	4-CXP
	Energy analyzer EM23 (PULSE)	ZAKKT0118	p. 82	✓	✓	✓	✓
	Energy analyzer EM23 (PULSE+MODBUS)	ZAKKT0119		✓	✓	✓	✓
	Energy analyzer EM24 (M-BUS)	ZAKKT0121		✓	✓	✓	✓
WATER COOLERS				1-CXP	2-CXP	3-CXP	4-CXP
	RWC 500X250 C2	GNGPR168_1062_0	p. 87	✓			
	RWC 500X250 C4	GNGPR168_1060_0		✓			
	RWC 700X300 C2	GNGPR168_1104_0			✓		
	RWC 700X300 C4	GNGPR168_1102_0			✓		
	RWC 750X300 C2	GNGPR168_1066_0				✓	
	RWC 750X300 C4	GNGPR168_1064_0				✓	
	RWC 750X350 C2	GNGPR168_1070_0					✓
	RWC 750X350 C4	GNGPR168_1068_0					✓
DX COOLERS				1-CXP	2-CXP	3-CXP	4-CXP
	RFC 500X250 F2	GNGPR168_1063_0	p. 90	✓			
	RFC 500X250 F4	GNGPR168_1061_0		✓			
	RFC 700X300 F2	GNGPR168_1105_0			✓		
	RFC 700X300 F4	GNGPR168_1103_0			✓		
	RFC 750X300 F2	GNGPR168_1067_0				✓	
	RFC 750X300 F4	GNGPR168_1065_0				✓	
	RFC 750X350 F2	GNGPR168_1071_0					✓
	RFC 750X350 F4	GNGPR168_1069_0					✓
SILENCERS FOR CIRCULAR DUCTS				1-CXP	2-CXP	3-CXP	4-CXP
	MUTE 315X900	GSOMUTE024	p. 93	✓			
SILENCERS FOR RECTANGULAR DUCTS (DUAL)				1-CXP	2-CXP	3-CXP	4-CXP
	SSP 500X250X900-4,100,D	GSOSSP216_1012	p. 94	✓			
	SSP 700X300X900-6,100,D	GSOSSP216_1023			✓		
	SSP 750X300X900-6,100,D	GSOSSP216_1024				✓	
	SSP 750X350X900-6,100,D	GSOSSP216_1025					✓
RECTANGULAR FLEXIBLE CONNECTIONS				1-CXP	2-CXP	3-CXP	4-CXP
	LJ-PG 50-25	GLJLJ/PG004	p. 98	✓			
	LJ-PG 70-30	GLJLJ/PG080			✓		
	LJ-PG 75-30	GLJLJ/PG088				✓	
	LJ-PG 75-35	GLJLJ/PG089					✓
CIRCULAR FLEXIBLE CONNECTIONS				1-CXP	2-CXP	3-CXP	4-CXP
	LSVF 315	GVELSVF005	p. 98	✓			
	LSVF 355	GVELSVF006			✓	✓	
	LSVF 400	GVELSVF007					✓
RECTANGULAR SHUT-OFF DAMPERS				1-CXP	2-CXP	3-CXP	4-CXP
	SSK 500-250	GSKSSK013	p. 99	✓			
	SSK 700-300	GSKSSK029			✓		
	SSK 750-300	GSKSSK556				✓	
	SSK 750-350	GSKSSK713					✓
CIRCULAR SHUT-OFF DAMPERS				1-CXP	2-CXP	3-CXP	4-CXP
	SKG-A 315	GSKSKG035	p. 100	✓			
	SKG-A 355	GSKSKG036			✓	✓	
	SKG-A 400	GSKSKG037					✓

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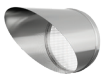
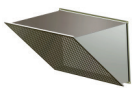
ACCESSORIES

Accessories	Name	Art No.	Page	Unit			
CLAMPS				1-CXP	2-CXP	3-CXP	4-CXP
	AP 315	GAPAP007	p. 102	✓			
	AP 355	GAPAP008			✓	✓	
	AP 400	GAPAP009					✓
FLANGE ADAPTERS				1-CXP	2-CXP	3-CXP	4-CXP
	STP-C 500X250_315	GSFSTPC161_158	p. 105	✓			
	STP-C 700X300_355	GSFSTPC161_335			✓		
	STP-C 750X300_355	GSFSTPC161_352				✓	
	STP-C 750X350_400	GSFSTPC161_340					✓
RECTANGULAR FLANGE ADAPTERS				1-CXP	2-CXP	3-CXP	4-CXP
	STP 700X300-600X350	GSFSTP161_341	p. 106		✓		
	STP 750X300-600X350	GSFSTP161_353				✓	
	STP 750X350-700X400	GSFSTP161_342					✓
FILTER BOX ePM$_{10}$ 75% (F7)				1-CXP	2-CXP	3-CXP	4-CXP
	FDS 50-25/ F7	GFZFDS025	p. 107	✓			
	FDS 70-30/ F7	GFZFDS051			✓		
	FDS 75-30/ F7	GFZFDS053				✓	
	FDS 75-35/ F7	GFZFDS055					✓
FILTER BOX COARSE 60% (G4)				1-CXP	2-CXP	3-CXP	4-CXP
	FDS 50-25/ G4	GFZFDS024	p. 107	✓			
	FDS 70-30/ G4	GFZFDS052			✓		
	FDS 75-30/ G4	GFZFDS054				✓	
	FDS 75-35/ G4	GFZFDS056					✓
FILTER BOX COARSE 85% (M5)				1-CXP	2-CXP	3-CXP	4-CXP
	FDS 50-25/ M5	GFZFDS003	p. 107	✓			
	FDS 70-30/ M5	GFZFDS048			✓		
	FDS 75-30/ M5	GFZFDS049				✓	
	FDS 75-35/ M5	GFZFDS050					✓
PANEL FILTERS ePM$_1$ 70% (F7)				1-CXP	2-CXP	3-CXP	4-CXP
	MPL 642x258x90/F7	ZFEPF068	p. 109	✓			
	MPL 894x279x46/F7	ZFEPF161			✓		
	MPL 1000x279x46 F7	ZFEPF185				✓	
	MPL 1113x379x46 F7	ZFEPF158					✓
PANEL FILTERS COARSE 65% (G4)				1-CXP	2-CXP	3-CXP	4-CXP
	MPL 642x258x90/G4	ZFEPF181	p. 109	✓			
	MPL 894x279x46/G4	ZFEPF176			✓		
	MPL 1000x279x46 G4	ZFEPF183				✓	
	MPL 1113x379x46 G4	ZFEPF187					✓
PANEL FILTERS ePM$_{10}$ 55% (M5)				1-CXP	2-CXP	3-CXP	4-CXP
	MPL 642x258x90/M5	ZFEPF067	p. 109	✓			
	MPL 894x279x46/M5	ZFEPF160			✓		
	MPL 1000x279x46 M5	ZFEPF184				✓	
	MPL 1113x379x46 M5	ZFEPF159					✓
BAG FILTERS ePM$_{10}$ 75% (F7)				1-CXP	2-CXP	3-CXP	4-CXP
	FMK 500-250/F7	ZFEFMK048	p. 109	✓			
	FMK 692x298/F7	ZFEFMK1065			✓		
	FMK 742x298/F7	ZFEFMK1068				✓	
	FMK 742x348/F7	ZFEFMK1071					✓
BAG FILTERS COARSE 60% (G4)				1-CXP	2-CXP	3-CXP	4-CXP
	FMK 500-250/G4	ZFEFMK030	p. 109	✓			
	FMK 692x298/G4	ZFEFMK1066			✓		
	FMK 742x298/G4	ZFEFMK1069				✓	
	FMK 742x348/G4	ZFEFMK1072					✓
BAG FILTERS COARSE 85% (M5)				1-CXP	2-CXP	3-CXP	4-CXP
	FMK 500-250/M5	ZFEFMK039	p. 109	✓			
	FMK 692x298/M5	ZFEFMK1064			✓		
	FMK 742x298/M5	ZFEFMK1067				✓	
	FMK 742x348/M5	ZFEFMK1070					✓
MIXING POINT				1-CXP	2-CXP	3-CXP	4-CXP
	RMG3-0,63-4	PRMG0001	p. 110	✓	✓	✓	✓

AmberAir Compact CXP

ACCESSORIES

Accessories	Name	Art No.	Page	Unit			
2 AND 3 WAY VALVES				1-CXP	2-CXP	3-CXP	4-CXP
	VXP45.10-0.63	PRMV005	p. 111	✓	✓	✓	✓
OUTLET-INTAKE COVER				1-CXP	2-CXP	3-CXP	4-CXP
	ABV 315	GFDABV0315	p. 112	✓			
	ABV 355	GFDABV0355			✓	✓	
	ABV 400	GFDABV0400					✓
RECTANGULAR OUTLET COVER				1-CXP	2-CXP	3-CXP	4-CXP
	OCR 500x250	GNGPR168_734_0	p. 112	✓			
	OCR 700X300	GNGPR168_735_0			✓		
	OCR 750X300	GNGPR168_736_0				✓	
	OCR 750X350	GNGPR168_737_0					✓
DUAL RECTANGULAR OUTLET COVER				1-CXP	2-CXP	3-CXP	4-CXP
	OCD 1CXP_45	GNGPR168_1077_0	p. 113	✓			
	OCD 2CXP_45	GNGPR168_1092_0			✓		
	OCD 3CXP_45	GNGPR168_1075_0				✓	
	OCD 4CXP_45	GNGPR168_1093_0					✓

The company reserves the right to make changes of technical data without prior notice

FUNCTIONS

Description of the functions	MCB E	MCB W
System modes	●	
BOOST function	●	
Cold/heat recovery	●	
Supply air temperature control and compensation	●	
Weekly schedule	●	
Holiday schedule	●	
Night cooling function	●	
CO2 level reduction function	○	
RH level reduction	●	
Dryness protection	●	
Constant air pressure	●	
Constant airflow mode	●	
Heat exchanger frost protection	●	
Manual components control	●	
Fire place function	●	
Fireplace protection (NC)	○	
Fire protection from the external contact	○	
Winter/summer mode	●	
System monitoring	●	
Alarm indication output	●	
Operation indication output	●	
Digital input confguration	●	
Event register (storing up to 50 entries)	●	
Date and time settings	●	
Reset to factory defaults	●	
Air dampers		
Supply/exhaust air dampers control	●	
Fans		
Supply/exhaust air fan breakdown indication (NC)	●	
Protection by RPM	●	
Air flow protection by pressure	●	
Sensors		
Supply air temperature sonsor	●	
Outdoor air temperature sensor	●	
Extract air temperature sensor	●	
Exhaust air temperature sensor	●	
Water heater temperature sensor	●	
Water pre-heater temperature sensor	●	
Water cooler temperature sensor	●	
Electric heater		
On/off and 0-10V control	●	-
Automatic and Manual protection (NC)	●	-
Electrical pre-heater		
On/off (PWM) and 0-10V control	●	●*
Automatic and Manual protection (NC)	●	●*
Water heater		
0-10V valve control	-	●
Water heater protection – thermostat (NC)	-	○
Water heater circulation pump control	-	●
Water pre-heater		
0-10V valve control	●*	●
Water heater circulation pump control	●*	●
Water cooler		
0-10V valve control	●	
Water cooler circulation pump control	●	
Water cooler operation switching (cooling/heating)	○	
Filters clogging monitoring		
Air flter protection according to pressure relays	●	
Air flters timer	●	

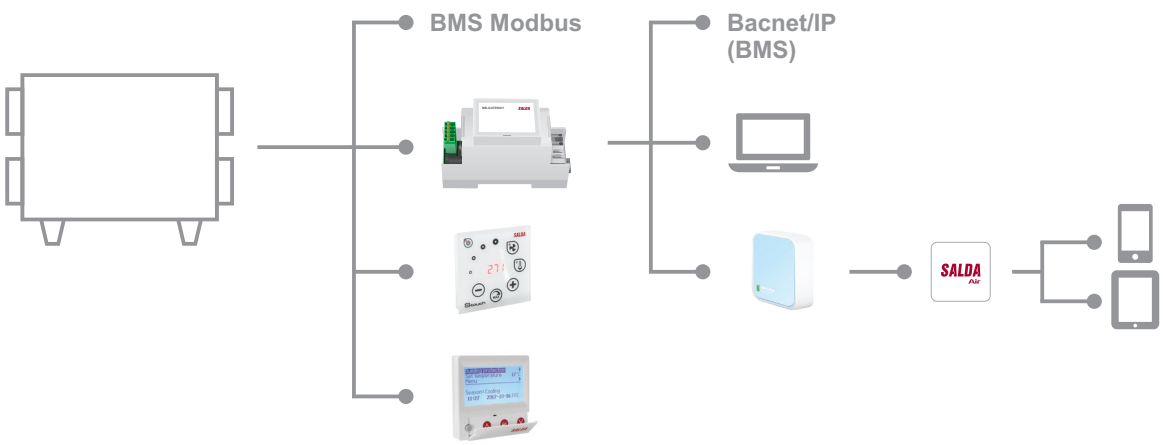
AmberAir Compact CXP

FUNCTIONS

Description of the functions	MCB E	MCB W
Fire alarm damper		
Fire valves control (on/off)	●	
Fire valves testing	●	
DX cooler		
On/off and 0-10V control	●	
DX cooler breakdown indication (NC)	●	
DX cooler operation switching (NO – cooling; NC – heating)	●	
Recirculation		
3P and 0-10V valve control	●	
Recirculation stepped motor control	●	
Bypass damper		
3P and 0-10V damper control	●	
Bypass damper stepped motor control	●	
Remote controllers		
S-Touch	x	
Flex MCB	x	
MB Gateway	x	
Building management system		
Modbus	●	
BACnet/IP	○	

○	Required additional components: CO2 and moisture sensors, switches, etc.
●	Standard feature (the number of features depends on the ventilation unit in which the automatics are used); to be confgured through BMS network or remote control console
x	Remote control consoles
*	The possibility to connect either a water or electrical pre-heater

REMOTE CONTROL OPTIONS



Google Play store:

iTunes Apple store:

Salda Air

mobile application: smart indoor climate control solution!

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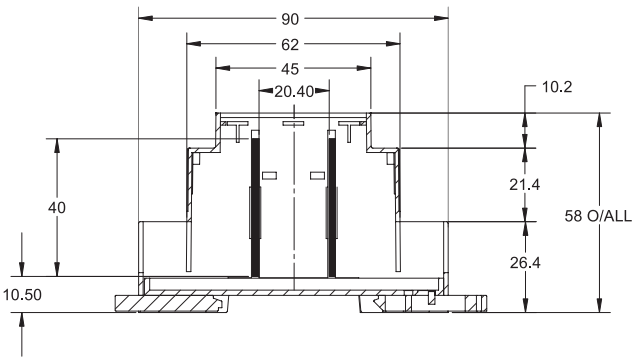
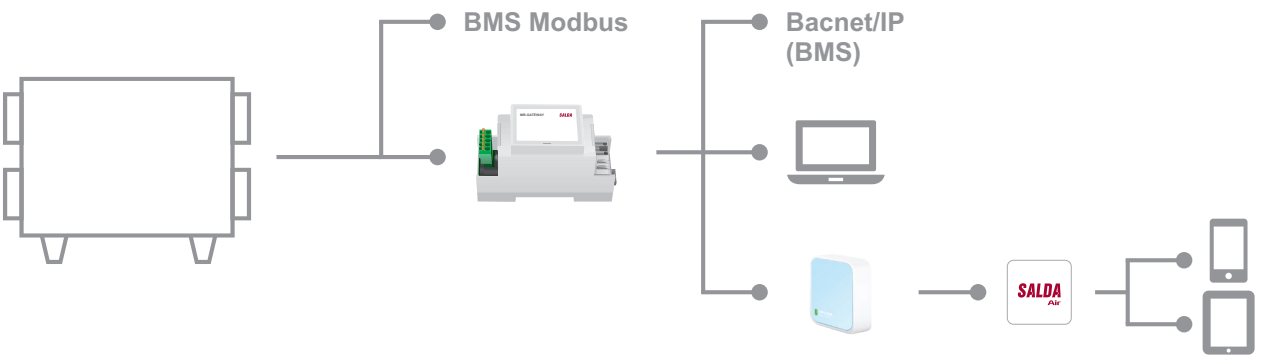
NETWORK MODULE



Title	Article No.
MB-Gateway	PRGPU082

MB-Gateway enables ventilation units, based on control technology produced by Salda, to connect via TCP/IP to the wide range of control devices.
› Remote air handling unit's control via PC through the home network or internet;
› A three-level menu: user/service/adjuster;
› User friendly, multilingual and up-to-date interface;
› Informative interface screen on your control unit: temperature, operation modes, fan speed, date/time, extract/outdoor air temperature, humidity.
› Easy adjustment of control board settings: fan speed, temperature, boost, calendar event, humidity, CO2 level and etc.



TECHNICAL DATA:

› TCP/IP Modbus gateway;
› BACnet/IP gateway;
› IPv4 protocol;
› DHCP protocol;
› NetBIOS/hostname;
› WEB server;
› FTP server;
› Formation of Modbus commands/responses to HTTP queries;
› authorised login;
› automated data transmission between Modbus devices;
› data logger;
› dateTime synchronization;
› module software upgrading through the microSD memory card (the upgrade can also be written through the FTP client);
› RTC;
› galvanically insulated RS485 communications line.

TECHNICAL DATA		
Mounting		Surface, DIN Rail
Voltage	[AC/DC]	12V - 25V (2W) (supplied with AC/DC adapter)
Communication line		Ethernet RJ45 ModBus RS485
Cable length	[m]	UTP cable (0.5 m) RS485 communication cable with RJ11 plugs (2 m)
Dimensions (WxHxD)	[mm]	90x62x58
Protection class		IP-20
Ambient temperature	[°C]	-20 - 70
Ambient humidity	[%]	30-85 (without condensation)

TL-WR802N

WIRELESS NANO ROUTER

DOWNLOAD
SALDA AIR!

Google Play store:

iTunes Apple store:

Title	Article No.
TL-WR802N	PRGPU105

300Mbps Wireless Nano Router TL-WR802N Purpose:
› Wireless connection device of the SALDA AHU to existing TCP/IP network by Repeater mode;
› Access point for wireless control of SALDA AHU via smartphone, tablet, PC or similar device.

INTERFACE:

› 1 10/100Mbps WAN/LAN Port;
› 1 Micro USB Port;
› 1 Reset Button.

TECHNICAL DATA		
External Power Supply	[V/A]	5V/1A
Wireless Standards		IEEE 802.11n, IEEE 802.11g, IEEE 802.11b
Dimensions (W x D x H)	[in/mm]	2.2 x 2.2 x 0.7/57 x 57 x18
Antenna Type		On-Board
Wireless Modes		Router Mode, Repeater Mode, Client Mode, AP Mode, WISP Router Mode
System Requirements		Microsoft® Windows® 98SE, NT, 2000, XP, Vista™, Windows 10/8.1/8/7, MAC®OS, NetWare®, UNIX® or Linux.
Operating Temperature:	[°C/°F]	0 ~ 40/32~104
Storage Temperature	[%]	40~70/40~158
Operating Humidity	[%]	10%~90% non-condensing
Storage Humidity	[%]	5%~90% non-condensing

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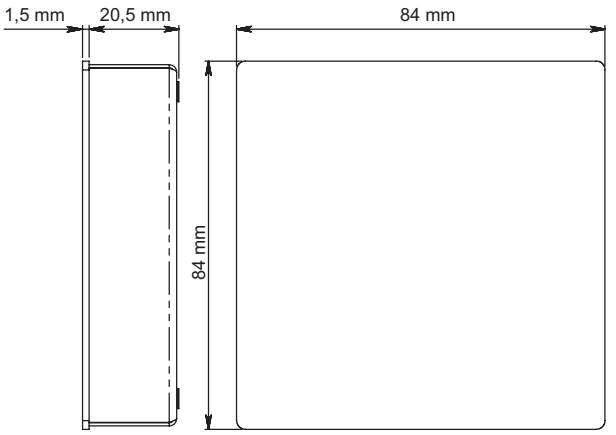
REMOTE CONTROLLER



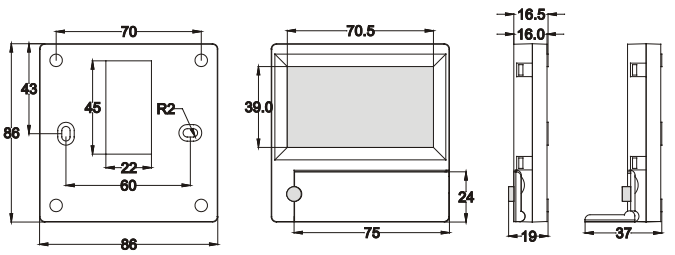
Title	Article No.
Stouch	PRGPU051

Stouch controllers specially designed for easy control of Salda Air handling units.
› No complex features: ideal for facilities with occasional or novice users (e.g. hotels, offices, schools and etc.);
› 4 configurable speeds (indicated pressure or velocity as a percentage);
› Boost function;
› On/Off function;
› Display of fan speed;
› Display of warnings;
› Constant pressure control with external pressure sensor;
› Carbon dioxide level control with external CO2 sensor;
› Modbus master/slave modes;
› One-touch sensory control, sound response;
› LED and digital indication;
› Sleep mode;
› Blocking of turn off;
› Child lock.

TECHNICAL DATA		
Supply voltage	[VDC]	24VDC ± 10% / 24VAC ± 10%
Communication line		RS-485
Dimensions (WxHxL)	[mm]	84x84x22
Protection class		IP30
Ambient temperature	[°C]	10 to 40
Ambient humidity	[%]	10-80 (non-condensing)

FLEX MCB

CONTROL PANEL



Title	Article No.
FLEX MCB EN	PRGPU107
FLEX MCB DE	PRGPU109
FLEX MCB DK	PRGPU111
FLEX MCB FR	PRGPU113
FLEX MCB IT	PRGPU115
FLEX MCB SE	PRGPU117

Remote control panel FLEX MCB is designed to control the air handling units with MCB-type control board (Smarty, AmberAir).
› LCD monochromic screen;
› Automatic recognition of the air handling unit;
› Display of the air parameters: temperatures, RH, pressure;
› Fast selection of system modes, supply/exhaust air temperatures;
› Calendar mode: setup of calendar events;
› Air quality control: adjustment of maximum CO2 level, RH level;
› Service and adjuster settings.

TECHNICAL DATA:		
Supply voltage	[VDC]	15..30
Communication line		RS 485
Dimensions (WxHxL)	[mm]	86x86x16
Protection class		IP20
Ambient temperature	[°C]	10-30(50*)
Ambient humidity	[%]	<90

The company reserves the right to make changes of technical data without prior notice

CO_2 SENSORS

S-RCO2-F2

Title	Article No.
S-RCO2-F2	ZAKKT0048

S-KCO2

Title	Article No.
S-KCO2	ZAKKT0049

The self-calibrating microprocessor-controlled room and duct CO_2 sensors are used for the detection of the CO_2 content in air within a range of 0 to 10000 ppm CO_2. The measurement signals generated by the CO_2 transmitter are converted into standard signals of 0 – 10 V. The CO_2 content in the air is determined by a NDIR sensor (non-dispersive infrared technology sensor). The detection range of the CO_2 sensor is calibrated for standard applications such as monitoring of apartment rooms or meeting rooms. Room ventilation on an as-needed basis, improvement of well-being and customer benefit, increased comfort as well as a reduction of operating costs by saving energy.

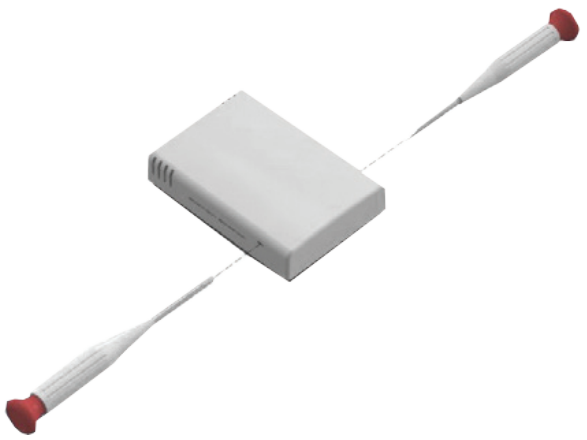
TECHNICAL DATA		
Type	**S-RCO2-F2**	**S-KCO2**
Measuring range, CO2	Jumper selection: 450 to 1.850 ppm / 0 to 1.000 ppm / 0 to 1.500 ppm / 0 to 2.000 ppm	Jumper selection: 450 to 1.850 ppm / 0 to 1.000 ppm / 0 to 1.500 ppm / 0 to 2.000 ppm
Output, voltage	0-10 V	
Power supply	15-24 VAC ±10 %/18-34 VDC	
Ambient temperature	-10...+50 °C	0...+50 °C
Display	No	No
Dimensions	104.5x74.5x25.6	100x104x280
Protection class	IP30	IP20
Installation	Wall mounting or in wall flush box, 60mm	Duct

S-KFF-U / S-RFF-U-D-F2

HUMIDITY SENSORS

S-KFF-U

Title	Article No.
S-KFF-U	ZAKKT0051



S-RFF-U-D-F2

Title	Article No.
S-RFF-U-D-F2	ZAKKT0050

The calibrateable duct and room humidity sensors S-KFF-U, S-RFF-U-D-F2, accuracy class ± 3 % r.H., measures the relative humidity of air. The humidity transmitter converts the measurand humidity into standard signals of 0 – 10 V or 4...20 mA. This humidity sensor is applied in non-aggressive dust-free ambiences in refrigeration, air conditioning, ventilation and clean room technology. Relative humidity (in % r.H.) is the quotient of water vapour partial pressure divided by the saturation vapour pressure at the respective gas temperature. These measuring transducers are designed for exact detection of humidity. A digital long-term stable sensor is used as measuring element for humidity measurement. Fine adjustment by the user is possible.

TECHNICAL DATA		
Type	**S-KFF-U**	**S-RFF-U-D-F2**
Measuring range, humidity	15-90 % RH	Jumper selection: 20-90 % RH/0-60 % RH/0-80 % RH/0-100 % RH
Output, voltage	0-10V	
Power supply	18-32 VDC ±10 %/15-24 VAC	
Electrical connection	0,14 - 1,5 mm^2	
Cable gland	M16	-
Dimensions	100x80x285mm	105x75x26
Protection class	IP54	IP 30
Installation	duct	Wall mounting or in wall flush box, 55mm

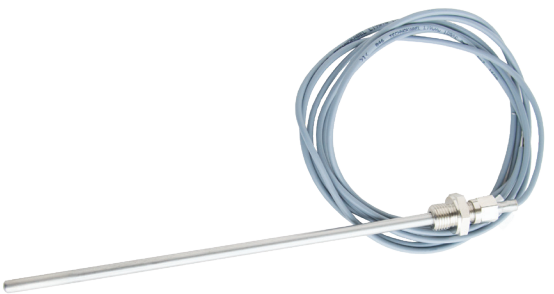
The company reserves the right to make changes of technical data without prior notice

TJ1TE-NTC10K3B-4.5x90P-2x6,0mPVC-FL / TJ1-NTC10k3B-6x240S-2x2.0mPVC-CF

TEMPERATURE SENSORS

TJ1TE-NTC10K3B-4.5x90P-2x6,0mPVC-FL

Title	Article No.
TJ1TE-NTC10K3B-4.5x90P-2x6,0mPVC-FL	PJUT0071



TJ1-NTC10k3B-6x240S-2x2.0mPVC-CF a

Title	Article No.
TJ1-NTC10k3B-6x240S-2x2.0mPVC-CF a	PJUT0076

TECHNICAL DATA		
Type	**TJ1TE-NTC10K3B-4.5x90P-2x6,0mPVC-FL**	**TJ1-NTC10k3B-6x240S-2x2.0mPVC-CF**
Temperature range [°C]	-30..105 °C	
Precision	+-0,2%	
Protection class	IP-54	

DIMENSIONS			
Type	L, [mm]	øD, [mm]	Cable lenght, [m]
TJ1TE-NTC10K3B-4.5x90P-2x6,0mPVC-FL	90	4.5	6
TJ1-NTC10k3B-6x240S-2x2.0mPVC-CF a	240	6	2

UG3A4O

SMOKE DETECTOR

Title	Article No.
UG-3-A4O incl VR-0,6M	ZAKKT0110

Ug3a4o has been developed to detect smoke in ventilation ducts and combines a smoke detector and an adaptor system where both tube and housing are specially designed for optimum airflow through the smoke detector.
The venturi pipe is made of aluminium and can easily be shortened to suit the diameter of the duct. Hole diameter is 38mm. For insulated or circular ducts - use the mounting bracket, hole diameter is then 51 mm.

APPROVALS

› UG-3-A4O: VdS (Germany);
› Detector head: EN-54-7;
› Relay output: Potential free;
› Smoke alarm relays: Two changing contacts 250V, 5A;
› Adaptor housing: ABS;
› Protection: IP54;
› Air sampling tube: Aluminium;
› Standard length 0,6 m. Hole diameter 38 mm.

TECHNICAL DATA:	
Supply voltage	24V AC/DC ±10%
Detector type	Optical UG-3-A4O
Max. power consumption	165 mA
Operating temperature	-10°C to +55°C
Maximum humidity	99% RH
Duct air velocity range	Approx. 0,2 to 20 m/s

The company reserves the right to make changes of technical data without prior notice

IR24-P / IR24-PC

PRESENCE DETECTORS

IR24-P

Title	Article No.
IR24-P	ZAKJT019

IR24-P is a presence detector designed for automatic ventilation control of HVAC systems. It uses infrared light. The detector has a potential-free change-over relay for activation/deactivation of for instance a fan-coil controller. It saves money and gives higher comfort in premises requiring forced ventilation for shorter periods of time, such as conference rooms, assembly-halls etc.
The unit can be wall or corner mounted with a 110°, 15m detection range.

IR24-PC

Title	Article No.
IR24-PC	ZAKJT020

IR24-PC is a 360° presence detector for automatic ventilation control of HVAC systems. It uses infrared light. The detector has a change-over output for activation/deactivation of a fan-coil controller.

TECHNICAL DATA:		
Type	**IR24-P**	**IR24-PC**
Infrared sensor	Dual element	
Supply voltage	24 ± 2 V AC/DC	
Detection range	15 x 15 m, 110° angle	Height x 2.5 = diameter converage, 25°
Power consumption	5 mA at 24 V AC	15 mA at 24 V AC
Output	200 mA, 24 V AC/DC, potential-free change-over relay	
Ambient humidity	Max. 95% RH	
Temperature range	-20...+50°C	
Protection class	IP20	
Mounting	Ceiling mounting	
ON-delay:	0, 10, 30, 60, 300 or 600 s (selectable)	
OFF-delay	10, 60, 300, 600, 1200 or 1800 s (selectable)	
Dimensions	(HxWxD) 112 x 66 x 45	Ø110mm x 44mm

Patrol_701

MOTION DETECTOR

Title	Article No.
Patrol_701	ZAKJT021

Passive infrared detector Patrol 701 with dual element pyrosensor, was designed for use in electronic alarm.
The device detects intrusion by determining changes of energy spectrum in infrared areas. It emits no radiation and is harmless for humans andamp; animals.
Automatically chooses and counts the levels of the entering impulses, according to the strength of the signals acting on the detector.

TECHNICAL DATA:	
Detection speed range	0.3 to 3.0 m/sec
Power input	8.5 – 16VDC
Current consumption	In stand by mode: 11.5mA In alarm mode with LED on: 10mA In alarm mode with LED off: 7mA
Pulse mode adjustable	Automatic
Alarm period	3 sec
Maximum detection range	18 m
Relay output	60V; 120mA; 16 Ohm
Warm up period	40 sec
Reset time	5 ± 1 sec
Light immunity	no less then10000 Lux
Temperature range	– 30°C... + 50°C
Storage temperature range	– 40°C... + 80°C
RFI immunity	30 V/m in range from 10 to 1000 MHz
EMI immunity	50 000 V
Dimensions	93mm x 66mm x 46mm
Weight	85 g

The company reserves the right to make changes of technical data without prior notice

SPD-G-6K0 / S-1141

PRESSURE TRANSMITTERS

SPD-G-6K0

Title	Article No.
SPD-G-6K0	ZAKKT0125

The SPD series are very compact dual multi-range differential pressure transmitters. They provide an analogue / digital output for each sensor and eight selectable measuring windows. The transmitters have an implemented state-of-the-art monolithic silicon pressure sensors and are equipped with Modbus RTU communication. The SPD piezoresistive transmitters are calibrated and temperature & pressure compensated. They feature a high degree of reliability and accuracy. Easy manual zero point calibration and an adjustable offset are available for each sensor.

S-1141

Title	Article No.
S-1141	ZAKKT0047

The SPS is a multi-range differential pressure transmitter with an analog/digital output and Modbus RTU communication. This calibrated pressure transmitter has eight switchable measuring ranges and is equipped with a state-of-the-art monolithic silicon pressure sensor designed for a wide range of applications. The piezo-resistive transducer is temperature and pressure compensated and has a high degree of reliability and accuracy. The sensor can measure air or other non-aggressive, non-combustible gases.

TECHNICAL DATA		
Type	SPD-G-6K0	S-1141
Analog (0-10 VDC/0-20 mA) or digital output (PWM, open collector)	+	
Measuring range	0 to 6000 Pa, automatically switched according to set point	0 to 2000 Pa, automatically switched according to set point
Modbus RTU (RS485)	+	
Operating temperature	10° to 60°C (temperature compensated)	
Accuracy	±3 % of final value (analog voltage output)	
Long-term stability	±1 % per year	
Response time	0,5/1/2/5 sec	
Power consumption	18-34 VDC supply: 20-10 mA (no load) 15-24 VAC supply: 15-10 mA (no load)	

EKA

ELECTRIC DUCT PRE-HEATER

Duct heaters are designed to heat clean air in ventilation systems and to preheat air handling units. Corrosion resistant casing with excellent thermal reflectivity is made from AluZinc. Duct connection is with rolled rubber seals, duct heater elements are made from stainless steel. To ensure safety in duct heaters are installed 2 protection thermostats and screw terminals for easy connection.
Heaters casings are produced from AluZinc coated steel and heating elements from stainless steel AISI 304. AluZinc casing was selected because for its properties:
› Good corrosion resistance at high temperatures (up to 315°C).
› Excellent thermal reflectivity.
› Good abrasion resistance because of its surface hardness.
› Durability: under normal conditions the AZ 150 coating grade will protect the steel substrate from corrosion for a minimum period of 15 years.

Double overheat protection
To ensure security in case of fire in all electric air heaters 2 heat protection thermostats are installed:
› First overheat protection automatically activates if temperature reaches 50°C, then protection disconnects heating elements, until it has cooled. When the temperature falls to the working temperature, heater automatically switches on.
› Second overheat protection automatically activates if temperature reaches 100°C, then protection disconnects heating elements, until it has cooled. In this case need to figure the cause of the overheating of the heater. Heater needs to be reset manually with the pushbutton on the heaters casing.

Duct connection
For easy duct connection heaters casing is with rolled rubber seals.

Heaters with built-in control
Electric duct heaters with built-in control has installed internal controller EKR-KN which works by algorithm impulse/pause, that enables fine temperature control. Regulator controls load by triacs without moving parts, which causes no-noise commutation.

Air velocity
The duct heaters are designed for a minimum air velocity of 1,5 m/s. If the air flow is lower than 1.5 m/s it can often be activated overheat protection.

Circular duct heaters heating elements
To ensure long service time and quality heating we use heating elements from stainless steel.
Three-phase (3x400V) heaters are installed three-phase (3x400V) heating elements of following power: 1.0kW, 1.5kW, 3kW.

MARKING

EKA	-	NIS	-	400	-	15.0	-	IP55	-	3x230
1		*2*		*3*		*4*		*5*		*6*

*1. **EKA** – circular duct heater*
*2. **NIS** – heater type. Type **NIS** – heater control from distance with 0 – 10V signal.*
*3. **400** – heater diameter.*
*4. **15.0** – power of heater kW.*
*5. **IP55** – IP class.*
*6. **3x230** – special voltage*

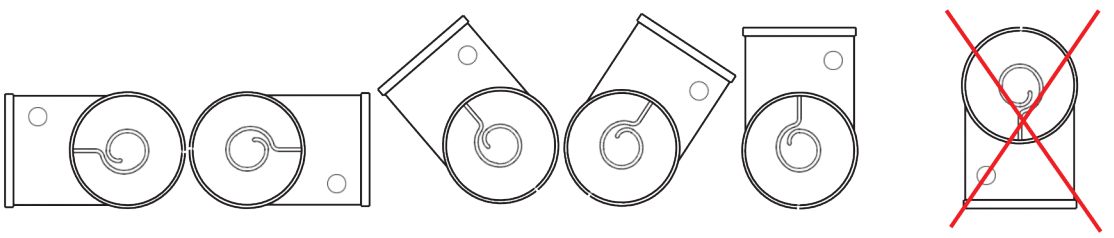
CIRCULAR DUCT HEATER TYPE

Model	Control	Control type
EKA NIS	Built-in controller EKR KN NIS	0-10V control

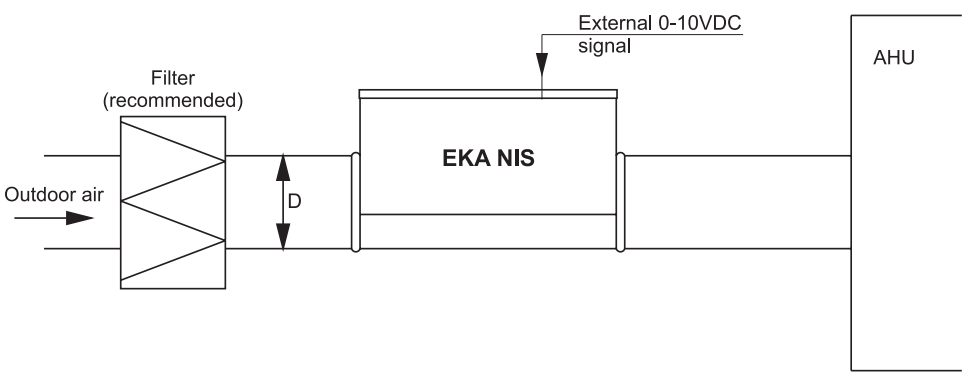
The company reserves the right to make changes of technical data without prior notice

INSTALATION

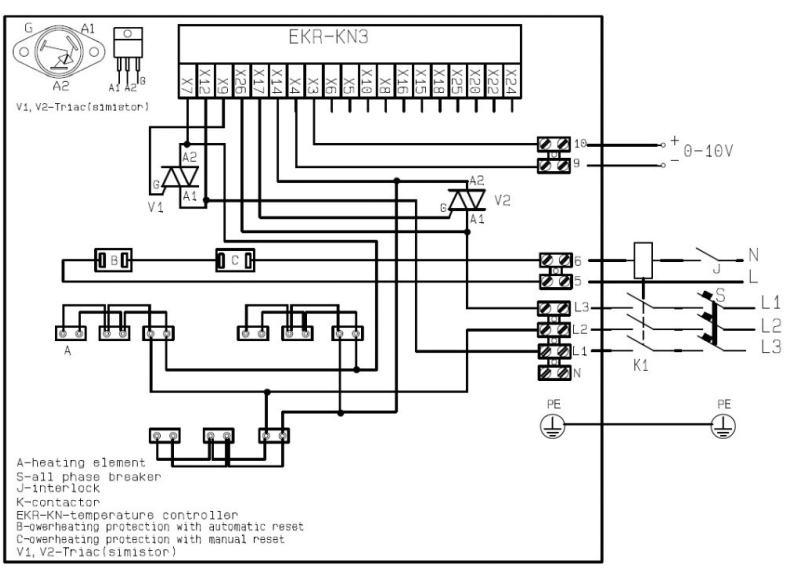
Heater can be installed in any position (see picture below) except electrical connection box downward. If heater is installed in such way that can be accidental contact with heating elements, protective grill must be installed. Air flow through heater must be not less 1,5 m/s. Heaters can not be installed in explosive and aggressive substances atmosphere. Heaters can be used only for clean air heating. Heaters intended for inside installation.
Heaters installation position:



EKA NIS connection diagram



WIRING DIAGRAMS



***A** – heating element,*
***B** – protection from overheating 50°C (automatic),*
***C** – protection from overheating 100°C (manually),*
***J** – Switch,*
***K** – Contactor,*
***S** – Automatic circuit breaker,*
***T** – thermostat*
***V1, V2** – triac*

EKA

CIRCULAR DUCT HEATER POWER

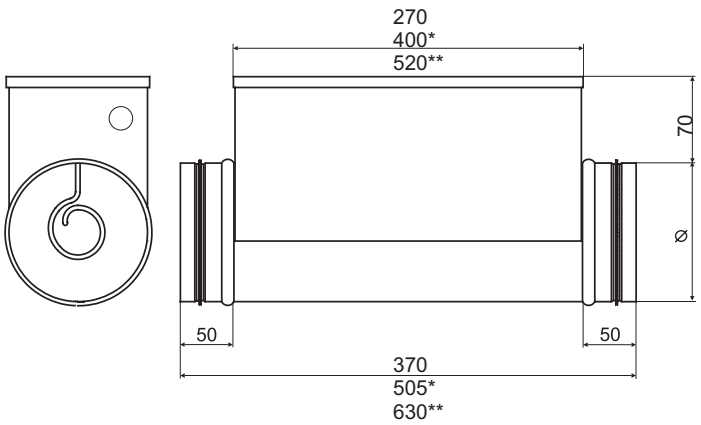
EKA Model	AmberAir Compact model	Article No.	Voltage [V]	Phase [f]	Power [kW]	Current [A]
EKA NIS 315/6kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS151	400	3	6	8.66
EKA NIS 315/9kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS153	400	3	9	12.99
EKA NIS 315/15kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS150	400	3	15	21.65
EKA NIS 315/6kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS152	230	3	6	15.06
EKA NIS 315/9kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS154	230	3	9	22.59
EKA NIS 315/15(9+6)kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS149	230	3	15	37.65
EKA NIS 400/9kW_IP55	AmberAir Compact 2-CXV AmberAir Compact 3-CXV AmberAir Compact 2-CXH AmberAir Compact 3-CXH	PSIEKANIS163	400	3	9	12.99
EKA NIS 400/12kW_IP55	AmberAir Compact 2-CXV AmberAir Compact 2-CXH	PSIEKANIS156	400	3	12	17.32
EKA NIS 400/24(15+9)kW_IP55	AmberAir Compact 2-CXV AmberAir Compact 2-CXH	PSIEKANIS159	400	3	24	34.64
EKA NIS 400/9kW_IP55_3x230	AmberAir Compact 2-CXV AmberAir Compact 3-CXV AmberAir Compact 2-CXH AmberAir Compact 3-CXH	PSIEKANIS164	230	3	9	22.59
EKA NIS 400/12(9+3)kW_IP55_3x230	AmberAir Compact 2-CXV AmberAir Compact 2-CXH	PSIEKANIS155	230	3	12	30.12
EKA NIS 400/24(9+15)kW_IP55_3x230	AmberAir Compact 2-CXV AmberAir Compact 2-CXH	PSIEKANIS160	230	3	24	60.25
EKA NIS 400/18(9+9)kW_IP55	AmberAir Compact 3-CXV AmberAir Compact 3-CXH	PSIEKANIS157	400	3	18	25.98
EKA NIS 400/30(15+15)kW_IP55	AmberAir Compact 3-CXV AmberAir Compact 3-CXH	PSIEKANIS161	400	3	30	43.30
EKA NIS 400/18(9+9)kW_IP55_3x230	AmberAir Compact 3-CXV AmberAir Compact 3-CXH	PSIEKANIS158	230	3	18	45.18
EKA NIS 400/30(9+9+12)kW_IP55_3x230	AmberAir Compact 3-CXV AmberAir Compact 3-CXH	PSIEKANIS162	230	3	30	75.31
EKA NIS 500/12kW_IP55	AmberAir Compact 4-CXV AmberAir Compact 4-CXH	PSIEKANIS167	400	3	12	17.32
EKA NIS 500/24(15+9)kW_IP55	AmberAir Compact 4-CXV AmberAir Compact 4-CXH	PSIEKANIS168	400	3	24	34.64
EKA NIS 500/42(15+9+18)kW_IP55	AmberAir Compact 4-CXV AmberAir Compact 4-CXH	PSIEKANIS170	400	3	42	60.62
EKA NIS 500/12(9+3)kW_IP55_3x230	AmberAir Compact 4-CXV AmberAir Compact 4-CXH	PSIEKANIS166	230	3	12	30.12
EKA NIS 500/24(9+15)kW_IP55_3x230	AmberAir Compact 4-CXV AmberAir Compact 4-CXH	PSIEKANIS169	230	3	24	60.25
EKA NIS 500/42(9+15+18)kW_IP55_3x230	AmberAir Compact 4-CXV AmberAir Compact 4-CXH	PSIEKANIS171	230	3	42	105.43
EKA NIS 630/18(9+9)kW_IP55	AmberAir Compact 5-CXV AmberAir Compact 5-CXH	PSIEKANIS172	400	3	18	25.98
EKA NIS 630/30(15+15)kW_IP55	AmberAir Compact 5-CXV AmberAir Compact 5-CXH	PSIEKANIS176	400	3	30	43.30
EKA NIS 630/54(15+9+12+18)kW_IP55	AmberAir Compact 5-CXV AmberAir Compact 5-CXH	PSIEKANIS180	400	3	54	77.94
EKA NIS 630/18(9+9)kW_IP55_3x230	AmberAir Compact 5-CXV AmberAir Compact 5-CXH	PSIEKANIS173	230	3	18	45.18
EKA NIS 630/30(9+9+12)kW_IP55_3x230	AmberAir Compact 5-CXV AmberAir Compact 5-CXH	PSIEKANIS177	230	3	30	75.31

The company reserves the right to make changes of technical data without prior notice

EKA NIS 630/54(9+12+15+18)kW_IP55_3x230	AmberAir Compact 5-CXV AmberAir Compact 5-CXH	PSIEKANIS181	230	3	54	135.55
EKA NIS 630/21(12+9)kW_IP55	AmberAir Compact 6-CXV AmberAir Compact 6-CXH	PSIEKANIS174	400	3	21	30.31
EKA NIS 630/36(15+9+12)kW_IP55	AmberAir Compact 6-CXV AmberAir Compact 6-CXH	PSIEKANIS178	400	3	36	51.96
EKA NIS 630/66(15+15+18+18)kW_IP55	AmberAir Compact 6-CXV AmberAir Compact 6-CXH	PSIEKANIS182	400	3	66	95.26
EKA NIS 630/21(9+12)kW_IP55_3x230	AmberAir Compact 6-CXV AmberAir Compact 6-CXH	PSIEKANIS175	230	3	21	52.71
EKA NIS 630/36(9+12+15)kW_IP55_3x230	AmberAir Compact 6-CXV AmberAir Compact 6-CXH	PSIEKANIS179	230	3	36	90.37
EKA NIS 630/66(9+12+15+15+15)kW_IP55_3x230	AmberAir Compact 6-CXV AmberAir Compact 6-CXH	PSIEKANIS183	230	3	66	165.67
EKA NIS 710/27(15+12)kW_IP55	AmberAir Compact 7-CXV AmberAir Compact 7-CXH	PSIEKANIS184	400	3	27	38.97
EKA NIS 710/48(15+15+18)kW_IP55	AmberAir Compact 7-CXV AmberAir Compact 7-CXH	PSIEKANIS186	400	3	48	69.28
EKA NIS 710/90(15+12+18+21+24)kW_IP55	AmberAir Compact 7-CXV AmberAir Compact 7-CXH	PSIEKANIS188	400	3	90	129.90
EKA NIS 710/27(9+9+9)kW_IP55_3x230	AmberAir Compact 7-CXV AmberAir Compact 7-CXH	PSIEKANIS185	230	3	27	67.78
EKA NIS 710/48(9+12+12+15)kW_IP55_3x230	AmberAir Compact 7-CXV AmberAir Compact 7-CXH	PSIEKANIS187	230	3	48	120.49
EKA NIS 710/90(9+12+15+27+27)kW_IP55_3x230	AmberAir Compact 7-CXV AmberAir Compact 7-CXH	PSIEKANIS189	230	3	90	225.92
EKA NIS 315-6,0-3f	AmberAir Compact 1-CXP	PSIEKANIS04	400	3	6	8.66
EKA NIS 315-9,0-3f		PSIEKANIS50	400	3	9	12.99
EKA NIS 315-6,0-3f_3x230		PSIEKANIS193	230	3	6	15.06
EKA NIS 315-9,0-3f_3x230		PSIEKANIS194	230	3	9	22.59
EKA NIS 355-9,0-3f	AmberAir Compact 2-CXP	PSIEKANIS60	400	3	9	12.99
EKA NIS 355-15,0-3f		PSIEKANIS145	400	3	15	21.65
EKA NIS 355-9,0-3f_3x230		PSIEKANIS195	230	3	9	22.59
EKA NIS 355-15,0-3f_3x230		PSIEKANIS196	230	3	15	37.65
EKA NIS 355-12-3f	AmberAir Compact 3-CXP	PSIEKANIS142	400	3	12	17.32
EKA NIS 355-21,0-3f		PSIEKANIS144	400	3	21	30.31
EKA NIS 355-12-3f_3x230		PSIEKANIS197	230	3	12	30.12
EKA NIS 355-21,0-3f_3x230		PSIEKANIS198	230	3	21	52.71
EKA NIS 400-18,0-3f	AmberAir Compact 4-CXP	PSIEKANIS146	400	3	18	25.98
EKA NIS 400-27,0-3f		PSIEKANIS147	400	3	27	38.97
EKA NIS 400-18,0-3f_3x230		PSIEKANIS199	230	3	18	45.18
EKA NIS 400-27,0-3f_3x230		PSIEKANIS200	230	3	27	67.78

EKA

CIRCULAR DUCT HEATERS DIMENSIONS



EKA Model	AmberAir Compact model	Article No.	A [mm]	B [mm]	C [mm]	D [mm]
EKA NIS 315/6kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS151	373	276	71	315
EKA NIS 315/9kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS153	373	276	71	315
EKA NIS 315/15kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS150	630	532	71	315
EKA NIS 315/6kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS152	373	276	71	315
EKA NIS 315/9kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS154	373	276	71	315
EKA NIS 315/15(9+6)kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS149	630	532	71	315
EKA NIS 400/9kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS163	373	276	81	400
EKA NIS 400/12kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS156	500	402	81	400
EKA NIS 400/24(15+9)kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS159	880	782	81	400
EKA NIS 400/9kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS164	373	276	81	400
EKA NIS 400/12(9+3)kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS155	500	402	81	400
EKA NIS 400/24(9+15)kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS160	800	782	81	400
EKA NIS 400/9kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS163	373	276	81	400
EKA NIS 400/18(9+9)kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS157	630	532	81	400
EKA NIS 400/30(15+15)kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS161	970	300	121	400
EKA NIS 400/9kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS164	373	276	81	400
EKA NIS 400/18(9+9)kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS158	630	532	81	400
EKA NIS 400/30(9+9+12)kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS162	970	300	121	400
EKA NIS 500/12kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS167	500	402	81	500
EKA NIS 500/24(15+9)kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS168	880	782	81	500
EKA NIS 500/42(15+9+18)kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS170	970	300	121	500

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EKA NIS 500/12(9+3)kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS166	500	402	81	500
EKA NIS 500/24(9+15)kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS169	880	782	81	500
EKA NIS 500/42(9+15+18)kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS171	970	300	121	500
EKA NIS 630/18(9+9)kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS172	970	300	121	630
EKA NIS 630/30(15+15)kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS176	970	300	121	630
EKA NIS 630/54(15+9+12+18)kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS180	1020	350	121	630
EKA NIS 630/18(9+9)kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS173	970	300	121	630
EKA NIS 630/30(9+9+12)kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS177	970	300	121	630
EKA NIS 630/54(9+12+15+18)kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS181	1020	350	121	630
EKA NIS 630/21(12+9)kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS174	970	300	121	630
EKA NIS 630/36(15+9+12)kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS178	970	300	121	630
EKA NIS 630/66(15+15+18+18)kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS182	1040	370	121	630
EKA NIS 630/21(9+12)kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS175	970	300	121	630
EKA NIS 630/36(9+12+15)kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS179	970	300	121	630
EKA NIS 630/66(9+12+15+15+15)kW_IP-55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS183	1040	370	121	630
EKA NIS 710/27(15+12)kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS184	970	300	121	710
EKA NIS 710/48(15+15+18)kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS186	1020	350	121	710
EKA NIS 710/90(15+12+18+21+24)kW_IP55	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS188	1200	530	121	710
EKA NIS 710/27(9+9+9)kW_IP55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS185	970	300	121	710
EKA NIS 710/48(9+12+12+15)kW_IP-55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS187	1020	350	121	710
EKA NIS 710/90(9+12+15+27+27)kW_IP-55_3x230	AmberAir Compact 1-CXV AmberAir Compact 1-CXH	PSIEKANIS189	1200	530	121	710
EKA NIS 315-6,0-3f	AmberAir Compact 1-CXP	PSIEKANIS04	373	276	71	315
EKA NIS 315-9,0-3f		PSIEKANIS50	373	276	71	315
EKA NIS 315-6,0-3f_3x230		PSIEKANIS193	373	276	71	315
EKA NIS 315-9,0-3f_3x230		PSIEKANIS194	373	276	71	315
EKA NIS 355-9,0-3f	AmberAir Compact 2-CXP	PSIEKANIS60	373	276	71	355
EKA NIS 355-15,0-3f		PSIEKANIS145	630	532	71	355
EKA NIS 355-9,0-3f_3x230		PSIEKANIS195	373	276	71	355
EKA NIS 355-15,0-3f_3x230		PSIEKANIS196	630	532	71	355
EKA NIS 355-12-3f	AmberAir Compact 3-CXP	PSIEKANIS142	500	402	81	355
EKA NIS 355-21,0-3f		PSIEKANIS144	770	672	81	355
EKA NIS 355-12-3f_3x230		PSIEKANIS197	500	402	81	355
EKA NIS 355-21,0-3f_3x230		PSIEKANIS198	770	672	81	355
EKA NIS 400-18,0-3f	AmberAir Compact 4-CXP	PSIEKANIS146	630	532	81	400
EKA NIS 400-27,0-3f		PSIEKANIS147	970	300	121	400
EKA NIS 400-18,0-3f_3x230		PSIEKANIS199	630	532	81	400
EKA NIS 400-27,0-3f_3x230		PSIEKANIS200	970	300	121	400

EKS

ELECTRIC DUCT PRE-HEATER

EKS duct heaters are designed to heat clean air in ventilation systems and to preheat air handling units. Corrosion resistant casing with excellent thermal reflectivity is made from AluZinc. Duct connection is with rolled rubber seals, duct heater elements are made from stainless steel. To ensure safety in duct heaters are installed 2 protection thermostats and screw terminals for easy connection.
To ensure long service time of heaters, casings are produced from AluZinc coated steel and heating elements from stainless steel AISI 304. AluZinc for heaters casing was selected for it's properties:
› Good corrosion resistance at high temperatures (up to 315°C);
› Excellent thermal reflectivity;
› Good abrasion resistance because of its surface hardness;
› Durability: under normal conditions the AZ 150 coating grade will protect the steel substrate from corrosion for a minimum period of 15 years.

Double overheat protection
To ensure security in case of fire in all electric air heaters are installed 2 heat protection thermostats:
› First overheat protection automatically activates if temperature reaches 50°C, then protection disconnects heating elements, until it has cooled. When the temperature falls to the working temperature, heater automatically switches on.
› Second overheat protection automatically activates if temperature reaches 100°C, then protection disconnects heating elements, until it has cooled. In this case need to figure the cause of the overheating of the heater. Heater needs to be reset manually with the pushbutton on the heaters casing.

Duct connection
For easy duct connection heaters casing is with rolled rubber seals.

Heaters with built-in control
Electric duct heaters with built-in control has installed internal controller EKR-KN which works by algorithm impulse/pause..., that enables fine temperature control. Regulator controls load by triacs without moving parts, which causes no-noise commutation. Following models of heaters are with internals controllers, and there are differences between them: Type NIS – heater control from distance with 0 – 10V signal.

Air velocity
The duct heaters are designed for a minimum air velocity of 1,5 m/s. If the air flow is lower than 1.5 m/s it can often be activated overheat protection.

Duct heaters heating elements
To ensure long service time and quality heating we use heating elements from stainless steel.
Three-phase (3x400V) heaters are installed three-phase (3x400V) heating elements of following power: 1.0kW, 1.5kW, 3kW.

MARKING

EKS - NIS - 181 x 66 / 48 _ IP55 _ 3x230
1 2 3 3 4 5 6

1. ***EKS*** *– duct heater*
2. ***NIS*** *– heater type. Type* ***NIS*** *– heater control from distance with 0 – 10V signal.*
3. ***181x66*** *– heater dimensions*
4. ***48*** – power of heater kW
5. ***IP55*** *– IP class.*
6. ***3x230*** *– special voltage*

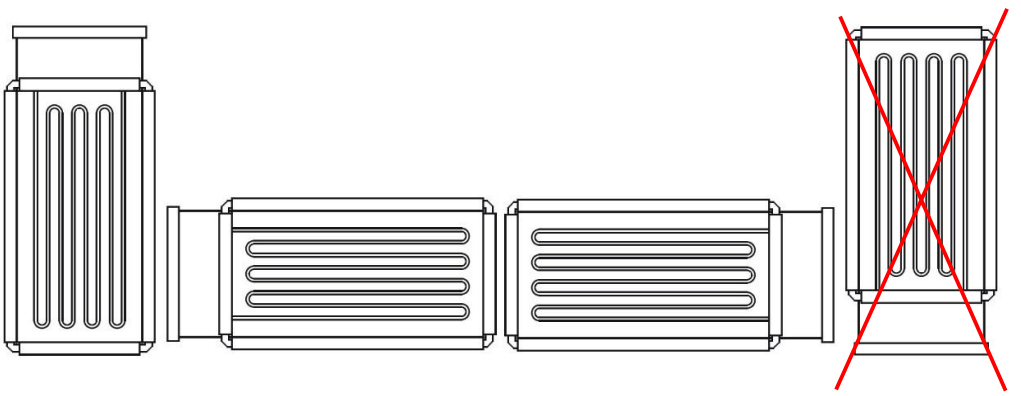
DUCT HEATER TYPE

Model	Control	Control type
EKS NIS	Built-in controller EKR KN NIS	0-10V control

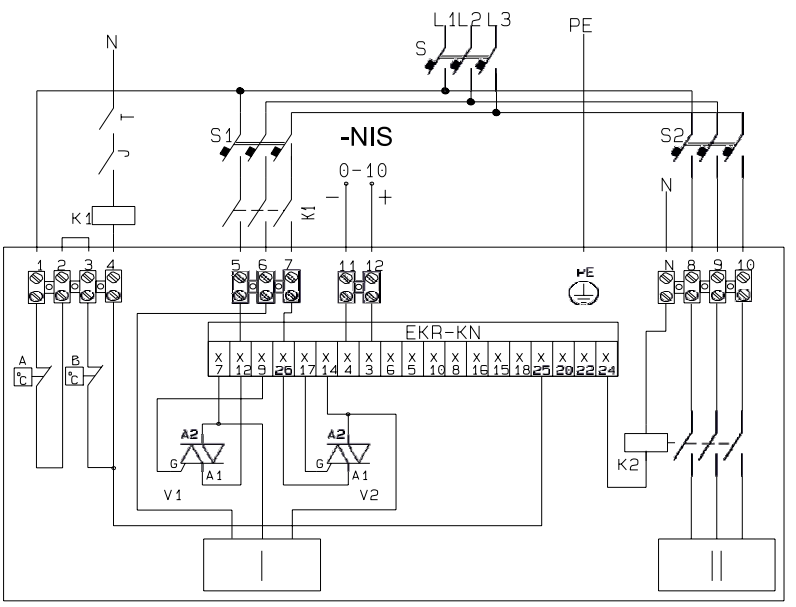
The company reserves the right to make changes of technical data without prior notice

INSTALATION

Heater can be installed in any position (see picture below) except electrical connection box downward. If heater is installed in such way that can be accidental contact with heating elements, protective grill must be installed. Air flow through heater must be not less 1,5 m/s. Heaters can not be installed in explosive and aggressive substances atmosphere. Heaters can be used only for clean air heating. Heaters intended for inside installation.



WIRING DIAGRAMS



I..V *– heater steps*
B *– protection from overheating 50°C (automatic),*
A *– protection from overheating 100°C (manually),*
J *– Switch,*
K1..K5 *– Contactor,*
S..S5 *– Automatic circuit breaker,*
T *– Thermostat,*
V1, V2 *– Triac*
EKR-KN *– Control board*
TR 5 *– external potentiometer*
TJK10K *– Temperature sensor*
X3...X26 *– the control board contacts (see. on PCB)*

EKS

DUCT HEATERS POWER

EKA Model	AmberAir Compact model	Article No.	Voltage [V]	Phase [f]	Power [kW]	Current [A]
EKS NIS 50x30/6kW_IP55	AmberAir Compact 1-CXV	PSIEKSNIS066	400	3	6	8.66
EKS NIS 50x30/9kW_IP55		PSIEKSNIS068	400	3	9	12.99
EKS NIS 50x30/15kW_IP55		PSIEKSNIS065	400	3	15	21.65
EKS NIS 50x30/6kW_IP55_3x230		PSIEKSNIS067	230	3	6	15.06
EKS NIS 50x30/9kW_IP55_3x230		PSIEKSNIS069	230	3	9	22.59
EKS NIS 50x30/15(9+6)kW_IP55_3x230		PSIEKSNIS064	230	3	15	37.65
EKS NIS 50x35/9kW_IP55	AmberAir Compact 2-CXV	PSIEKSNIS074	400	3	9	12.99
EKS NIS 50x35/12kW_IP55		PSIEKSNIS071	400	3	12	17.32
EKS NIS 50x35/24(15+9)kW_IP55		PSIEKSNIS072	400	3	24	34.64
EKS NIS 50x35/9kW_IP55_3x230		PSIEKSNIS075	230	3	9	22.59
EKS NIS 50x35/12(9+3)kW_IP55_3x230		PSIEKSNIS070	230	3	12	30.12
EKS NIS 50x35/24(9+15)kW_IP55_3x230		PSIEKSNIS073	230	3	24	60.25
EKS NIS 60x35/9kW_IP55	AmberAir Compact 3-CXV	PSIEKSNIS080	400	3	9	12.99
EKS NIS 60x35/18(9+9)kW_IP55		PSIEKSNIS076	400	3	18	25.98
EKS NIS 60x35/30(15+15)kW_IP55		PSIEKSNIS078	400	3	30	43.30
EKS NIS 60x35/9kW_IP55_3x230		PSIEKSNIS081	230	3	9	22.59
EKS NIS 60x35/18(9+9)kW_IP55_3x230		PSIEKSNIS077	230	3	18	45.18
EKS NIS 60x35/30(9+9+12)kW_IP55_3x230		PSIEKSNIS079	230	3	30	75.31
EKS NIS 95x35/12kW_IP55	AmberAir Compact 4-CXV	PSIEKSNIS089	400	3	12	17.32
EKS NIS 95x35/24(15+9)kW_IP55		PSIEKSNIS090	400	3	24	34.64
EKS NIS 95x35/42(15+9+18)kW_IP55		PSIEKSNIS092	400	3	42	60.62
EKS NIS 95x35/12(9+3)kW_IP55_3x230		PSIEKSNIS088	230	3	12	30,12
EKS NIS 95x35/24(9+15)kW_IP55_3x230		PSIEKSNIS091	230	3	24	60.25
EKS NIS 95x35/42(9+15+18)kW_IP55_3x230		PSIEKSNIS093	230	3	42	105.43
EKS NIS 90x40/18(9+9)kW_IP55	AmberAir Compact 5-CXV	PSIEKSNIS082	400	3	18	25.98
EKS NIS 90x40/30(15+15)kW_IP55		PSIEKSNIS084	400	3	30	43.30
EKS NIS 90x40/54(15+9+12+18)kW_IP55		PSIEKSNIS086	400	3	54	77.94
EKS NIS 90x40/18(9+9)kW_IP55_3x230		PSIEKSNIS083	230	3	18	45.18
EKS NIS 90x40/30(9+9+12)kW_IP55_3x230		PSIEKSNIS085	230	3	30	75.31
EKS NIS 90x40/54(9+12+15+18)kW_IP55_3x230		PSIEKSNIS087	230	3	54	135.55
EKS NIS 120x55/21(12+9)kW_IP55	AmberAir Compact 6-CXV	PSIEKSNIS052	400	3	21	30.31
EKS NIS 120x55/36(15+9+12)kW_IP55		PSIEKSNIS054	400	3	36	51.96
EKS NIS 120x55/66(15+15+18+18)kW_IP55		PSIEKSNIS056	400	3	66	95.26
EKS NIS 120x55/21(9+12)kW_IP55_3x230		PSIEKSNIS053	230	3	21	52.71
EKS NIS 120x55/36(9+12+15)kW_IP55_3x230		PSIEKSNIS055	230	3	36	90.37
EKS NIS 120x55/66(9+12+15+15+15)kW_IP55_3x230		PSIEKSNIS057	230	3	66	165.67
EKS NIS 160x58,5/27(15+12)kW_IP55	AmberAir Compact 7-CXV	PSIEKSNIS058	400	3	27	38.97
EKS NIS 160x58,5/48(15+15+18)kW_IP55		PSIEKSNIS060	400	3	48	69.28
EKS NIS 160x58,5/90(15+12+18+21+24)kW_IP55		PSIEKSNIS062	400	3	90	129.90
EKS NIS 160x58,5/27(9+9+9)kW_IP55_3x230		PSIEKSNIS059	230	3	27	67.78
EKS NIS 160x58,5/48(9+12+12+15)kW_IP55_3x230		PSIEKSNIS061	230	3	48	120.49
EKS NIS 160x58,5/90(9+12+15+27+27)kW_IP-55_3x230		PSIEKSNIS063	230	3	90	225.92
EKS NIS 70x36/6kW_IP55	AmberAir Compact 1-CXH	PSIEKSNIS114	400	3	6	8.66
EKS NIS 70x36/9kW_IP55		PSIEKSNIS115	400	3	9	12.99
EKS NIS 70x36/15kW_IP55		PSIEKSNIS116	400	3	15	21.65
EKS NIS 70x36/6kW_IP55_3x230		PSIEKSNIS117	230	3	6	15.06
EKS NIS 70x36/9kW_IP55_3x230		PSIEKSNIS118	230	3	9	22.59
EKS NIS 70x36/15(9+6)kW_IP55_3x230		PSIEKSNIS119	230	3	15	37.65
EKS NIS 70,7x49/9kW_IP55	AmberAir Compact 2-CXH	PSIEKSNIS120	400	3	9	12.99
EKS NIS 70,7x49/12kW_IP55		PSIEKSNIS121	400	3	12	17.32
EKS NIS 70,7x49/24(15+9)kW_IP55		PSIEKSNIS122	400	3	24	34.64
EKS NIS 70,7x49/9kW_IP55_3x230		PSIEKSNIS123	230	3	9	22.59
EKS NIS 70,7x49/12(9+3)kW_IP55_3x230		PSIEKSNIS124	230	3	12	30.12
EKS NIS 70,7x49/24(9+15)kW_IP55_3x230		PSIEKSNIS125	230	3	24	60.25

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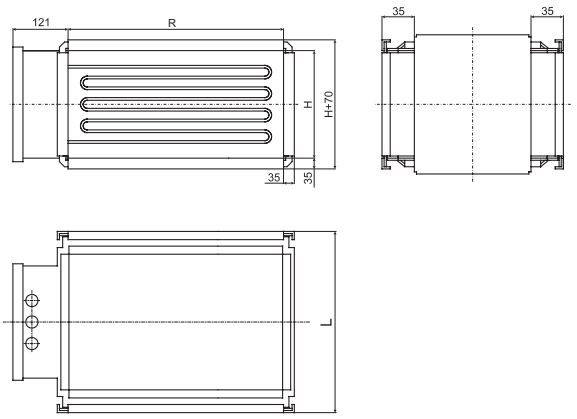
EKS NIS 74,3x52,7/9kW_IP55	AmberAir Compact 3-CXH	PSIEKSNIS126	400	3	9	12.99
EKS NIS74,3x52,7/18(9+9)kW_IP55		PSIEKSNIS127	400	3	18	25.98
EKS NIS 74,3x52,7/30(15+15)kW_IP55		PSIEKSNIS128	400	3	30	43.30
EKS NIS 74,3x52,7/9kW_IP55_3x230		PSIEKSNIS129	230	3	9	22.59
EKS NIS 74,3x52,7/18(9+9)kW_IP55_3x230		PSIEKSNIS130	230	3	18	45.18
EKS NIS 74,3x52,7/30(9+9+12)kW_IP55_3x230		PSIEKSNIS131	230	3	30	75.31
EKS NIS 106,8x52,7/12kW_IP55	AmberAir Compact 4-CXH	PSIEKSNIS132	400	3	12	17.32
EKS NIS 106,8x52,7/24(15+9)kW_IP55		PSIEKSNIS133	400	3	24	34.64
EKS NIS 106,8x52,7/42(15+9+18)kW_IP55		PSIEKSNIS134	400	3	42	60.62
EKS NIS 106,8x52,7/12(9+3)kW_IP55_3x230		PSIEKSNIS135	230	3	12	30.12
EKS NIS 106,8x52,7/24(9+15)kW_IP55_3x230		PSIEKSNIS136	230	3	24	60.25
EKS NIS 106,8x52,7/42(9+15+18)kW_IP55_3x230		PSIEKSNIS137	230	3	42	105.43
EKS NIS 113,9x52,7/18(9+9)kW_IP55	AmberAir Compact 5-CXH	PSIEKSNIS138	400	3	18	25.98
EKS NIS 113,9x52,7/30(15+15)kW_IP55		PSIEKSNIS139	400	3	30	43.30
EKS NIS 113,9x52,7/54(15+9+12+18)kW_IP55		PSIEKSNIS140	400	3	54	77.94
EKS NIS 113,9x52,7/18(9+9)kW_IP55_3x230		PSIEKSNIS141	230	3	18	45.18
EKS NIS 113,9x52,7/30(9+9+12)kW_IP55_3x230		PSIEKSNIS142	230	3	30	75.31
EKS NIS 113,9x52,7/54(9+12+15+18)kW_IP55_3x230		PSIEKSNIS143	230	3	54	135.55
EKS NIS 144,5x66/21(12+9)kW_IP55	AmberAir Compact 6-CXH	PSIEKSNIS144	400	3	21	30.31
EKS NIS 144,5x66/36(15+9+12)kW_IP55		PSIEKSNIS145	400	3	36	51.96
EKS NIS 144,5x66/66(15+15+18+18)kW_IP55		PSIEKSNIS146	400	3	66	95.26
EKS NIS 144,5x66/21(9+12)kW_IP55_3x230		PSIEKSNIS147	230	3	21	52.71
EKS NIS 144,5x66/36(9+12+15)kW_IP55_3x230		PSIEKSNIS148	230	3	36	90.37
EKS NIS 144,5x66/66(9+12+15+15+15)kW_IP-55_3x230		PSIEKSNIS149	230	3	66	165.67
EKS NIS 181x66/27(15+12)kW_IP55	AmberAir Compact 7-CXH	PSIEKSNIS150	400	3	27	38.97
EKS NIS 181x66/48(15+15+18)kW_IP55		PSIEKSNIS151	400	3	48	69.28
EKS NIS 181x66/90(15+12+18+21+24)kW_IP55		PSIEKSNIS152	400	3	90	129.90
EKS NIS 181x66/27(9+9+9)kW_IP55_3x230		PSIEKSNIS153	230	3	27	67.78
EKS NIS 181x66/48(9+12+12+15)kW_IP55_3x230		PSIEKSNIS154	230	3	48	120.49
EKS NIS 181x66/90(9+12+15+27+27)kW_IP55_3x230		PSIEKSNIS155	230	3	90	225.92
EKS NIS 50X25-6-3f	AmberAir Compact 1-CXP	PSIEKSNIS043	400	3	6	8.66
EKS NIS 50X25-9-3f		PSIEKSNIS044	400	3	9	12.99
EKS NIS 50X25-6-3f_3x230		PSIEKSNIS096	230	3	6	15.06
EKS NIS 50X25-9-3f_3x230		PSIEKSNIS097	230	3	9	22.59
EKS NIS 60X35-9-3f	AmberAir Compact 2-CXP	PSIEKSNIS038	400	3	9	12.99
EKS NIS 60X35-15-3f		PSIEKSNIS045	400	3	15	21.65
EKS NIS 60X35-9-3f_3x230		PSIEKSNIS098	230	3	9	22.59
EKS NIS 60X35-15-3f_3x230		PSIEKSNIS099	230	3	15	37.65
EKS NIS 60X35-12-3f	AmberAir Compact 3-CXP	PSIEKSNIS039	400	3	12	17.32
EKS NIS 60X35-21-3f		PSIEKSNIS046	400	3	21	30,31
EKS NIS 60X35-12-3f_3x230		PSIEKSNIS100	230	3	12	30.12
EKS NIS 60X35-21-3f_3x230		PSIEKSNIS101	230	3	21	52.71
EKS NIS 70X40-18-3f	AmberAir Compact 4-CXP	PSIEKSNIS047	400	3	18	25.98
EKS NIS 70X40-27-3f		PSIEKSNIS048	400	3	27	38.97
EKS NIS 70X40-18-3f_3x230		PSIEKSNIS102	230	3	18	45.18
EKS NIS 70X40-27-3f_3x230		PSIEKSNIS103	230	3	27	67.78

EKS

DUCT HEATERS DIMENSIONS



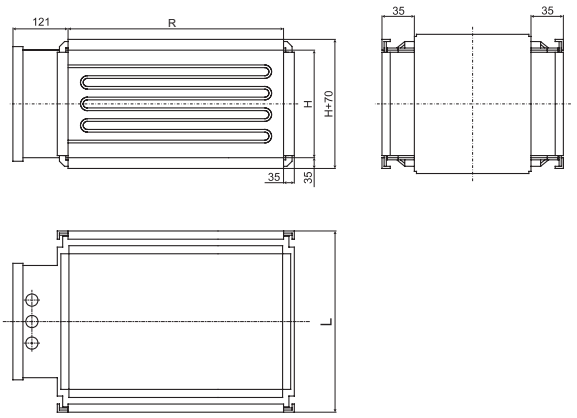
EKS Model	AmberAir Compact model	Article No.	W [mm]	W1 [mm]	H [mm]	H1 [mm]	L [mm]
EKS NIS 50x30/6kW_IP55	AmberAir Compact 1-CXV	PSIEKSNIS066	500	570	300	370	370
EKS NIS 50x30/9kW_IP55		PSIEKSNIS068	500	570	300	370	370
EKS NIS 50x30/15kW_IP55		PSIEKSNIS065	500	570	300	370	370
EKS NIS 50x30/6kW_IP55_3x230		PSIEKSNIS067	500	570	300	370	370
EKS NIS 50x30/9kW_IP55_3x230		PSIEKSNIS069	500	570	300	370	370
EKS NIS 50x30/15(9+6)kW_IP55_3x230		PSIEKSNIS064	500	570	300	370	370
EKS NIS 50x35/9kW_IP55	AmberAir Compact 2-CXV	PSIEKSNIS074	500	570	350	420	370
EKS NIS 50x35/12kW_IP55		PSIEKSNIS071	500	570	350	420	370
EKS NIS 50x35/24(15+9)kW_IP55		PSIEKSNIS072	500	570	350	420	370
EKS NIS 50x35/9kW_IP55_3x230		PSIEKSNIS075	500	570	350	420	370
EKS NIS 50x35/12(9+3)kW_IP55_3x230		PSIEKSNIS070	500	570	350	420	370
EKS NIS 50x35/24(9+15)kW_IP55_3x230		PSIEKSNIS073	500	570	350	420	370
EKS NIS 60x35/9kW_IP55	AmberAir Compact 3-CXV	PSIEKSNIS080	600	670	350	420	370
EKS NIS 60x35/18(9+9)kW_IP55		PSIEKSNIS076	600	670	350	420	370
EKS NIS 60x35/30(15+15)kW_IP55		PSIEKSNIS078	600	670	350	420	370
EKS NIS 60x35/9kW_IP55_3x230		PSIEKSNIS081	600	670	350	420	370
EKS NIS 60x35/18(9+9)kW_IP55_3x230		PSIEKSNIS077	600	670	350	420	370
EKS NIS 60x35/30(9+9+12)kW_IP-55_3x230		PSIEKSNIS079	600	670	350	420	370
EKS NIS 95x35/12kW_IP55	AmberAir Compact 4-CXV	PSIEKSNIS089	950	1020	350	420	370
EKS NIS 95x35/24(15+9)kW_IP55		PSIEKSNIS090	950	1020	350	420	370
EKS NIS 95x35/42(15+9+18)kW_IP55		PSIEKSNIS092	950	1020	350	420	370
EKS NIS 95x35/12(9+3)kW_IP55_3x230		PSIEKSNIS088	950	1020	350	420	370
EKS NIS 95x35/24(9+15)kW_IP55_3x230		PSIEKSNIS091	950	1020	350	420	370
EKS NIS 95x35/42(9+15+18)kW_IP-55_3x230		PSIEKSNIS093	950	1020	350	420	370
EKS NIS 90x40/18(9+9)kW_IP55	AmberAir Compact 5-CXV	PSIEKSNIS082	900	970	400	470	370
EKS NIS 90x40/30(15+15)kW_IP55		PSIEKSNIS084	900	970	400	470	370
EKS NIS 90x40/54(15+9+12+18)kW_IP55		PSIEKSNIS086	900	970	400	470	420
EKS NIS 90x40/18(9+9)kW_IP55_3x230		PSIEKSNIS083	900	970	400	470	370
EKS NIS 90x40/30(9+9+12)kW_IP-55_3x230		PSIEKSNIS085	900	970	400	470	370
EKS NIS 90x40/54(9+12+15+18)kW_IP-55_3x230		PSIEKSNIS087	900	970	400	470	420
EKS NIS 120x55/21(12+9)kW_IP55	AmberAir Compact 6-CXV	PSIEKSNIS052	1200	1270	550	620	370
EKS NIS 120x55/36(15+9+12)kW_IP55		PSIEKSNIS054	1200	1270	550	620	370
EKS NIS 120x55/66(15+15+18+18) kW_IP55		PSIEKSNIS056	1200	1270	550	620	440
EKS NIS 120x55/21(9+12)kW_IP55_3x230		PSIEKSNIS053	1200	1270	550	620	370
EKS NIS 120x55/36(9+12+15)kW_IP-55_3x230		PSIEKSNIS055	1200	1270	550	620	370
EKS NIS 120x55/66(9+12+15+15+15) kW_IP55_3x230		PSIEKSNIS057	1200	1270	550	620	440

The company reserves the right to make changes of technical data without prior notice

EKS NIS 160x58,5/27(15+12)kW_IP55	AmberAir Compact 7-CXV	PSIEKSNIS058	1600	1670	585	655	370
EKS NIS 160x58,5/48(15+15+18)kW_IP55		PSIEKSNIS060	1600	1670	585	655	420
EKS NIS 160x58,5/90(15+12+18+21+24) kW_IP55		PSIEKSNIS062	1600	1670	585	655	600
EKS NIS 160x58,5/27(9+9+9)kW_IP-55_3x230		PSIEKSNIS059	1600	1670	585	655	370
EKS NIS 160x58,5/48(9+12+12+15) kW_IP55_3x230		PSIEKSNIS061	1600	1670	585	655	420
EKS NIS 160x58,5/90(9+12+15+27+27) kW_IP55_3x230		PSIEKSNIS063	1600	1670	585	655	600
EKS NIS 70x36/6kW_IP55	AmberAir Compact 1-CXH	PSIEKSNIS114	700	770	360	430	370
EKS NIS 70x36/9kW_IP55		PSIEKSNIS115	700	770	360	430	370
EKS NIS 70x36/15kW_IP55		PSIEKSNIS116	700	770	360	430	370
EKS NIS 70x36/6kW_IP55_3x230		PSIEKSNIS117	700	770	360	430	370
EKS NIS 70x36/9kW_IP55_3x230		PSIEKSNIS118	700	770	360	430	370
EKS NIS 70x36/15(9+6)kW_IP55_3x230		PSIEKSNIS119	700	770	360	430	370
EKS NIS 70,7x49/9kW_IP55	AmberAir Compact 2-CXH	PSIEKSNIS120	707	777	490	560	370
EKS NIS 70,7x49/12kW_IP55		PSIEKSNIS121	707	777	490	560	370
EKS NIS 70,7x49/24(15+9)kW_IP55		PSIEKSNIS122	707	777	490	560	370
EKS NIS 70,7x49/9kW_IP55_3x230		PSIEKSNIS123	707	777	490	560	370
EKS NIS 70,7x49/12(9+3)kW_IP55_3x230		PSIEKSNIS124	707	777	490	560	370
EKS NIS 70,7x49/24(9+15)kW_IP55_3x230		PSIEKSNIS125	707	777	490	560	370
EKS NIS 74,3x52,7/9kW_IP55	AmberAir Compact 3-CXH	PSIEKSNIS126	743	813	527	597	370
EKS NIS74,3x52,7/18(9+9)kW_IP55		PSIEKSNIS127	743	813	527	597	370
EKS NIS 74,3x52,7/30(15+15)kW_IP55		PSIEKSNIS128	743	813	527	597	370
EKS NIS 74,3x52,7/9kW_IP55_3x230		PSIEKSNIS129	743	813	527	597	370
EKS NIS 74,3x52,7/18(9+9)kW_IP-55_3x230		PSIEKSNIS130	743	813	527	597	370
EKS NIS 74,3x52,7/30(9+9+12)kW_IP-55_3x230		PSIEKSNIS131	743	813	527	597	370
EKS NIS 106,8x52,7/12kW_IP55	AmberAir Compact 4-CXH	PSIEKSNIS132	1068	1138	527	597	370
EKS NIS 106,8x52,7/24(15+9)kW_IP55		PSIEKSNIS133	1068	1138	527	597	370
EKS NIS 106,8x52,7/42(15+9+18)kW_IP55		PSIEKSNIS134	1068	1138	527	597	370
EKS NIS 106,8x52,7/12(9+3)kW_IP-55_3x230		PSIEKSNIS135	1068	1138	527	597	370
EKS NIS 106,8x52,7/24(9+15)kW_IP-55_3x230		PSIEKSNIS136	1068	1138	527	597	370
EKS NIS 106,8x52,7/42(9+15+18)kW_IP-55_3x230		PSIEKSNIS137	1068	1138	527	597	370
EKS NIS 113,9x52,7/18(9+9)kW_IP55	AmberAir Compact 5-CXH	PSIEKSNIS138	1139	1209	527	597	370
EKS NIS 113,9x52,7/30(15+15)kW_IP55		PSIEKSNIS139	1139	1209	527	597	370
EKS NIS 113,9x52,7/54(15+9+12+18) kW_IP55		PSIEKSNIS140	1139	1209	527	597	420
EKS NIS 113,9x52,7/18(9+9)kW_IP-55_3x230		PSIEKSNIS141	1139	1209	527	597	370
EKS NIS 113,9x52,7/30(9+9+12)kW_IP-55_3x230		PSIEKSNIS142	1139	1209	527	597	370
EKS NIS 113,9x52,7/54(9+12+15+18) kW_IP55_3x230		PSIEKSNIS143	1139	1209	527	597	420
EKS NIS 144,5x66/21(12+9)kW_IP55	AmberAir Compact 6-CXH	PSIEKSNIS144	1445	1515	660	730	370
EKS NIS 144,5x66/36(15+9+12)kW_IP55		PSIEKSNIS145	1445	1515	660	730	370
EKS NIS 144,5x66/66(15+15+18+18) kW_IP55		PSIEKSNIS146	1445	1515	660	730	440
EKS NIS 144,5x66/21(9+12)kW_IP-55_3x230		PSIEKSNIS147	1445	1515	660	730	370
EKS NIS 144,5x66/36(9+12+15)kW_IP-55_3x230		PSIEKSNIS148	1445	1515	660	730	370
EKS NIS 144,5x66/66(9+12+15+15+15) kW_IP55_3x230		PSIEKSNIS149	1445	1515	660	730	440

EKS

DUCT HEATERS DIMENSIONS



EKS NIS 181x66/27(15+12)kW_IP55	AmberAir Compact 7-CXH	PSIEKSNIS150	1810	1880	660	730	370
EKS NIS 181x66/48(15+15+18)kW_IP55		PSIEKSNIS151	1810	1880	660	730	420
EKS NIS 181x66/90(15+12+18+21+24) kW_IP55		PSIEKSNIS152	1810	1880	660	730	600
EKS NIS 181x66/27(9+9+9)kW_IP-55_3x230		PSIEKSNIS153	1810	1880	660	730	370
EKS NIS 181x66/48(9+12+12+15)kW_IP-55_3x230		PSIEKSNIS154	1810	1880	660	730	420
EKS NIS 181x66/90(9+12+15+27+27) kW_IP55_3x230		PSIEKSNIS155	1810	1880	660	730	600
EKS NIS 50X25-6-3f	AmberAir Compact 1-CXP	PSIEKSNIS043	500	570	250	320	370
EKS NIS 50X25-9-3f		PSIEKSNIS044	500	570	250	320	370
EKS NIS 50X25-6-3f_3x230		PSIEKSNIS096	500	570	250	320	370
EKS NIS 50X25-9-3f_3x230		PSIEKSNIS097	500	570	250	320	370
EKS NIS 60X35-9-3f	AmberAir Compact 2-CXP	PSIEKSNIS038	600	670	350	420	370
EKS NIS 60X35-15-3f		PSIEKSNIS045	600	670	350	420	370
EKS NIS 60X35-9-3f_3x230		PSIEKSNIS098	600	670	350	420	370
EKS NIS 60X35-15-3f_3x230		PSIEKSNIS099	600	670	350	420	370
EKS NIS 60X35-12-3f	AmberAir Compact 3-CXP	PSIEKSNIS039	600	670	350	420	370
EKS NIS 60X35-21-3f		PSIEKSNIS046	600	670	350	420	370
EKS NIS 60X35-12-3f_3x230		PSIEKSNIS100	600	670	350	420	370
EKS NIS 60X35-21-3f_3x230		PSIEKSNIS101	600	670	350	420	370
EKS NIS 70X40-18-3f	AmberAir Compact 3-CXP	PSIEKSNIS047	700	770	400	470	370
EKS NIS 70X40-27-3f		PSIEKSNIS048	700	770	400	470	370
EKS NIS 70X40-18-3f_3x230		PSIEKSNIS102	700	770	400	470	370
EKS NIS 70X40-27-3f_3x230		PSIEKSNIS103	700	770	400	470	370

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ACTUATOR FOR DAMPERS

Title	Article No.
NM230A-TP	ZAKP0055
LF 230	ZAKP0039
NF230A	ZAKP0051
LM230A-TP	ZAKP0045

Actuators for air dampers control in ventilation and air-conditioning systems.

Type	**Area, m²**	**Torque power**, Nm	**Power supply**, VAC	**Control signals**
Actuator LM230A-TP	1	5	AC 100 ... 240 V, 50/60 Hz	2 point (ON/OFF)
Actuator NM230A-TP	2	10	AC 100 ... 240 V, 50/60 Hz	2 point (ON/OFF)
Actuator NF230A	2	10	AC 100 ... 240 V, 50/60 Hz	2 point (ON/OFF) Spring return
Actuator LF 230	0.8	4	AC 230 V, 50/60 Hz	2/3 point Spring return

EM23 / EM210 / EM24

ENERGY ANALYZERS

Title	Article No.
Energy analyzer EM23 (PULSE)	ZAKKT0118
Energy analyzer EM210 (PULSE)	ZAKKT0116
Energy analyzer EM23 (PULSE+MODBUS)	ZAKKT0119
Energy analyzer EM210 (PULSE+MODBUS)	ZAKKT0120
Energy analyzer EM24 (M-BUS)	ZAKKT0121

Energy analyzers (EM24) are used for analyzing power line of air handling unit for data transfer.
Energy meters (EM23, EM210) are used for measuring power consumption of air handling unit.
Pulse or ModBus is being used for data transfer.

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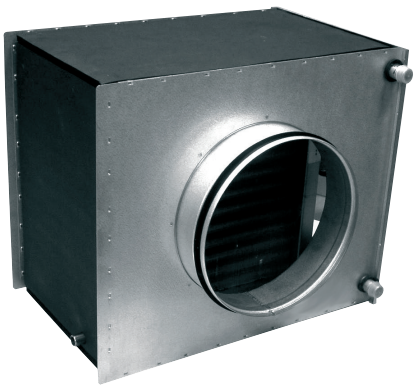
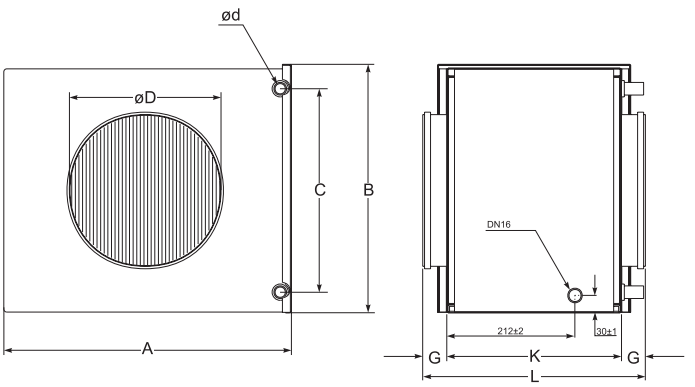
CIRCULAR DUCT WATER COOLERS





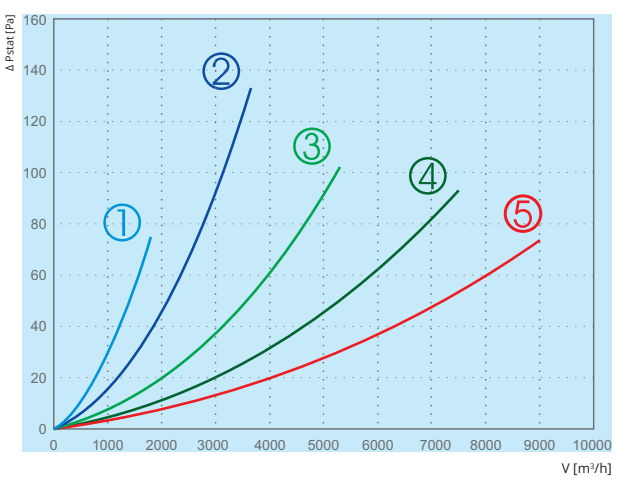
Title	Article No.
AVA 315	GSIAVA006
AVA 400	GSIAVA007
AVA 500	GSIAVA015
AVA 630	GSIAVA008
AVA 710	GSIAVA009

Duct coolers are used in ventilation systems, which require a supply of cooled air. AVA coolers are made of copper tubes and aluminium plates. The housing is made of galvanized steel. Contains a system for condensate drainage.
Heating and cooling units may be selected according to available parameters, with the help of selection programme “Heaters/coolers”, which can be found on web page www.salda.lt

Type	Dimensions [mm]								
	øD	ød	Thread size*	C	B	A	K	G	L
AVA 315	315	22	16	413	555	480	286	55	396
AVA 400	400	22	16	438	720	505	316	65	445
AVA 500	500	G1	16	610	946	737	317	74	465
AVA 630	630	G1	16	760	1096	887	317	74	465
AVA 710	710	G2	16	774	1146	967	446	74	594

* Male thread size

TECHNICAL DATA



① AVA 315
② AVA 400
③ AVA 500
④ AVA 630
⑤ AVA 710

AVA

TECHNICAL DATA

Q - airflow volume
SUP - supply air temperature
P - output
ΔP1 - pressure drop at water side
ΔkP1 - pressure drop on air side
v1 - water flow velocity

d - water connection diameter
row - number or rows
ODA 1 - outdoor air 25°C/50RH
ODA 2 - outdoor air 30°C/45RH
ODA 3 - outdoor air 32°C/40RH
water °C - 7/12

Type	Q [m³/h]	ODA	SUP [°C]	P [kW]	ΔP1 [Pa]	ΔkP1	v1 [m/s]	d	Row	FIN spac.
AVA 315	1800	ODA 1	17.1	5.95	54.98	14.4	0.81	1/2"	3	2.3
		ODA 2	19.78	9.02	62.92	30.3	1.23	1/2"	3	2.3
		ODA 3	20.44	9.87	61.61	35.57	1.34	1/2"	3	2.3
	1200	ODA 1	16.1	4.51	29.18	8.8	0.61	1/2"	3	2.3
		ODA 2	18.34	6.9	33.41	18.77	0.94	1/2"	3	2.3
		ODA 3	18.83	7.54	32.76	21.96	1.03	1/2"	3	2.3
	600	ODA 1	14.62	2.63	10.75	3.43	0.36	1/2"	3	2.3
		ODA 2	15.96	4.19	12.35	7.74	0.57	1/2"	3	2.3
		ODA 3	16.19	4.57	12.12	9.02	0.62	1/2"	3	2.3
AVA 400	3650	ODA 1	18.44	9.75	97.93	11.71	0.83	3/4"	3	2.5
		ODA 2	21.55	14.87	113.03	24.89	1.27	3/4"	3	2.5
		ODA 3	22.4	16.32	110.72	29.43	1.39	3/4"	3	2.5
	2150	ODA 1	17.19	6.91	37.35	6.35	0.59	3/4"	3	2.5
		ODA 2	19.77	10.68	43.11	13.76	0.91	3/4"	3	2.5
		ODA 3	20.41	11.7	42.28	16.21	1	3/4"	3	2.5
	650	ODA 1	15	2.59	6.25	1.14	0.22	3/4"	3	2.5
		ODA 2	15.92	4.46	7.41	2.95	0.38	3/4"	3	2.5
		ODA 3	16.05	4.91	7.3	3.49	0.42	3/4"	3	2.5
AVA 500	700	ODA 1	13.84	3.23	3.66	0.54	0.15	1"	3	2.5
		ODA 2	15.53	4.7	4.07	1.03	0.21	1"	3	2.5
		ODA 3	15.82	5.11	4.01	1.19	0.23	1"	3	2.5
	3800	ODA 1	17.51	11.43	40.09	4.93	0.52	1"	3	2.5
		ODA 2	20.1	17.99	46.55	11.1	0.82	1"	3	2.5
		ODA 3	20.74	19.78	45.67	13.17	0.9	1"	3	2.5
	5300	ODA 1	18.25	14.3	74.35	7.36	0.65	1"	3	2.5
		ODA 2	20.73	22.21	86.19	16.23	1.01	1"	3	2.5
		ODA 3	21.98	24.43	84.47	19.28	1.11	1"	3	2.5
AVA 630	1000	ODA 1	13.72	4.68	3.47	0.64	0.17	1 1/4"	3	2.5
		ODA 2	14.86	7.32	3.97	1.38	0.26	1 1/4"	3	2.5
		ODA 3	14.69	8.21	3.93	1.68	0.29	1 1/4"	3	2.5
	4300	ODA 1	16.59	15.05	26.6	4.84	0.54	1 1/4"	3	2.5
		ODA 2	18.95	23.27	30.61	10.46	0.83	1 1/4"	3	2.5
		ODA 3	19.49	25.46	30.02	12.28	0.91	1 1/4"	3	2.5
	7500	ODA 1	17.92	21.9	68.75	9.39	0.78	1 1/4"	3	2.5
		ODA 2	20.86	33.33	79.08	19.84	1.19	1 1/4"	3	2.5
		ODA 3	21.63	36.53	77.46	23.39	1.31	1 1/4"	3	2.5
AVA 710	1500	ODA 1	14.11	6.63	3.8	0.8	0.18	1 1/4"	3	2.5
		ODA 2	14.72	11.28	4.47	2.01	0.31	1 1/4"	3	2.5
		ODA 3	14.68	12.45	4.4	2.39	0.34	1 1/4"	3	2.5
	5250	ODA 1	16.24	19.3	22.29	5.17	0.53	1 1/4"	3	2.5
		ODA 2	18.48	29.79	25.6	11.21	0.81	1 1/4"	3	2.5
		ODA 3	18.98	32.56	25.1	13.14	0.89	1 1/4"	3	2.5
	9000	ODA 1	17.55	27.95	53.73	10	0.76	1 1/4"	3	2.5
		ODA 2	20.6	42.46	61.64	21.19	1.16	1 1/4"	3	2.5
		ODA 3	21.08	46.48	60.37	24.94	1.27	1 1/4"	3	2.5

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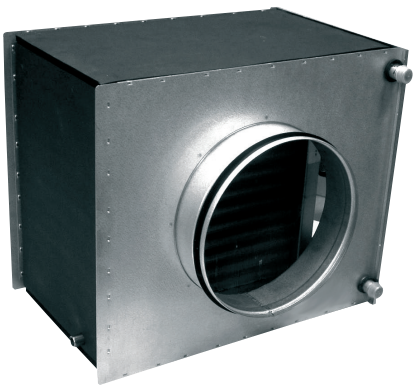
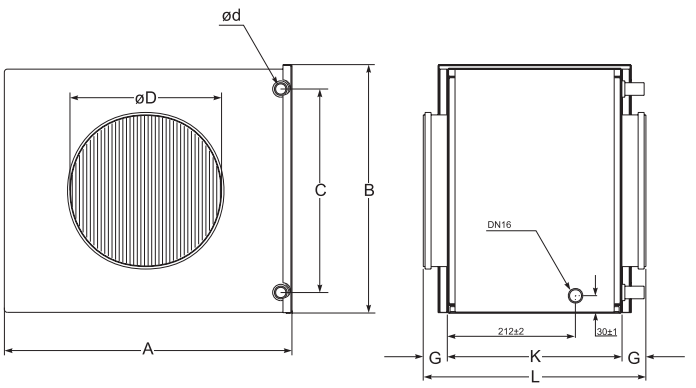
CIRCULAR DUCT DX COOLERS



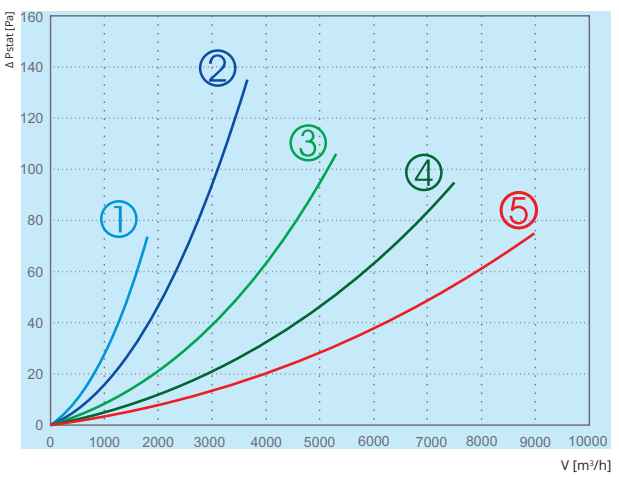


Title	Article No.
AVA-DX 315	GSIAVA010
AVA-DX 400	GSIAVA011
AVA-DX 500	GSIAVA012
AVA-DX 630	GSIAVA013
AVA-DX 710	GSIAVA014

Duct coolers are used in ventilation systems, which require a supply of cooled air. AVA DX coolers are made of copper tubes and aluminium plates. The housing is made of galvanized steel. Contains a system for condensate drainage.
Heating and cooling units may be selected according to available parameters, with the help of selection programme “Heaters/coolers”, which can be found on web page www.salda.lt

Type	Dimensions [mm]							
	øD	ød	C	B	A	K	G	L
AVA-DX 315	315	16/22	413	596	487	286	54	394
AVA-DX 400	400	16/22	438	746	512	316	74	464
AVA-DX 500	500	22/28	610	946	737	317	74	465
AVA-DX 630	630	22/28	760	1096	887	317	74	465
AVA-DX 710	710	54/76	774	1146	967	446	74	594

TECHNICAL DATA



① **AVA-DX 315**
② **AVA-DX 400**
③ **AVA-DX 500**
④ **AVA-DX 630**
⑤ **AVA-DX 710**

AVA-DX

TECHNICAL DATA

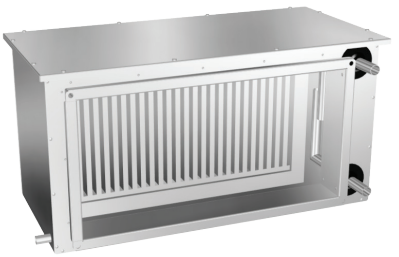
Q - airflow volume
SUP - supply air temperature
P - output
ΔP1 - pressure drop at water side
ΔkP1 - pressure drop on air side
d - water connection diameter
row - number or rows

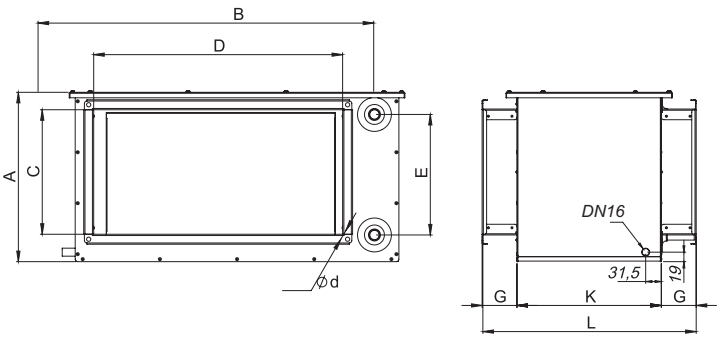
ODA 1 - outdoor air 25°C/50RH
ODA 2 - outdoor air 30°C/45RH
ODA 3 - outdoor air 32°C/40RH
Evopor. Temp. - 5°C
Condens. Temp. - 50°C
Op. Pressure, MPA - 0,931

Type	Q [m³/h]	ODA	SUP [°C]	P [kW]	ΔP1 [Pa]	ΔkP1	d	Row	FIN spac.
AVA-DX 315	1800	ODA 1	16.83	6.73	55.7	3.97	16/22	3	2.3
		ODA 2	19.69	9.33	60.81	7.66	16/22	3	2.3
		ODA 3	20.45	10.1	59.57	9	16/22	3	2.3
	1200	ODA 1	15.5	5.3	28.71	2.46	16/22	3	2.3
		ODA 2	18	7.33	31.33	4.69	16/22	3	2.3
		ODA 3	18.6	7.92	30.73	5.47	16/22	3	2.3
	600	ODA 1	13.14	3.4	10.44	1.02	16/22	3	2.3
		ODA 2	15	4.69	11.35	1.91	16/22	3	2.3
		ODA 3	15.34	5.03	11.13	2.2	16/22	3	2.3
AVA-DX 400	3650	ODA 1	17.89	11.71	105.61	6.38	16/22	3	2.5
		ODA 2	21.05	16.25	115.58	12.37	16/22	3	2.5
		ODA 3	21.95	17.62	113.23	14.61	16/22	3	2.5
	2150	ODA 1	16.24	8.69	40.62	3.5	16/22	3	2.5
		ODA 2	18.94	12.03	44.39	6.7	16/22	3	2.5
		ODA 3	19.63	13.01	43.53	7.83	16/22	3	2.5
	650	ODA 1	12.18	4.02	7.18	0.77	16/22	3	2.5
		ODA 2	13.78	5.54	7.8	1.42	16/22	3	2.5
		ODA 3	14.03	5.93	7.65	1.62	16/22	3	2.5
AVA-DX 500	700	ODA 1	10.6	4.96	4.14	0.75	22/28	3	2.5
		ODA 2	11.81	6.79	4.47	1.38	22/28	3	2.5
		ODA 3	11.94	7.24	4.39	1.56	22/28	3	2.5
	3800	ODA 1	16.3	15.27	44.46	7.05	22/28	3	2.5
		ODA 2	19.07	21.02	48.48	13.53	22/28	3	2.5
		ODA 3	19.68	22.97	47.65	16.24	22/28	3	2.5
	5300	ODA 1	17.36	18.45	81.88	10.38	22/28	3	2.5
		ODA 2	20.21	26.24	90.04	21.5	22/28	3	2.5
		ODA 3	20.98	28.64	88.46	25.83	22/28	3	2.5
AVA-DX 630	1000	ODA 1	10.54	7.11	3.91	0.44	28/35	3	2.5
		ODA 2	11.72	9.74	4.23	0.8	28/35	3	2.5
		ODA 3	11.83	10.4	4.15	0.9	28/35	3	2.5
	4300	ODA 1	15.45	19.13	28.89	3.05	28/35	3	2.5
		ODA 2	17.96	26.42	31.5	5.81	28/35	3	2.5
		ODA 3	18.56	28.5	30.9	6.77	28/35	3	2.5
	7500	ODA 1	17.26	26.47	73.99	5.87	28/35	3	2.5
		ODA 2	20.25	26.63	80.8	11.34	28/35	3	2.5
		ODA 3	21.08	39.66	79.15	13.35	28/35	3	2.5
AVA-DX 710	1500	ODA 1	10.77	10.48	4.35	0.67	28/35	3	2.5
		ODA 2	12.02	14.35	4.7	1.22	28/35	3	2.5
		ODA 3	12.16	15.32	4.62	1.39	28/35	3	2.5
	5250	ODA 1	15.01	24.6	24.15	3.58	28/35	3	2.5
		ODA 2	17.4	33.9	26.31	6.79	28/35	3	2.5
		ODA 3	17.96	36.53	25.8	7.89	28/35	3	2.5
	9000	ODA 1	16.79	33.94	57.71	6.84	28/35	3	2.5
		ODA 2	19.67	46.82	62.92	13.14	28/35	3	2.5
		ODA 3	20.44	50.62	62.63	15.42	28/35	3	2.5

The company reserves the right to make changes of technical data without prior notice

DUCT WATER COOLERS



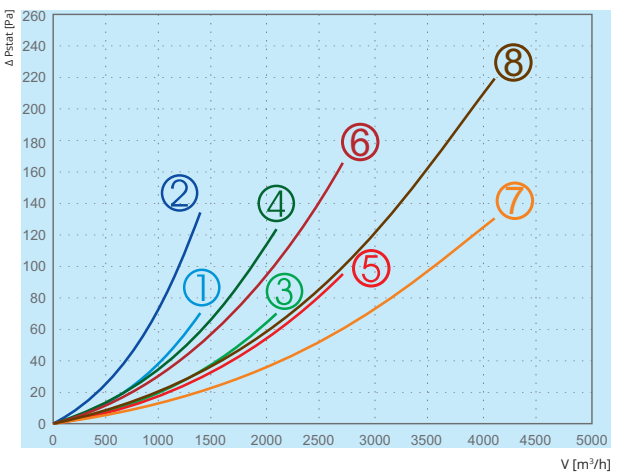


Title	Article No.
RWC 500X250 C2	GNGPR168_1062_0
RWC 500X250 C4	GNGPR168_1060_0
RWC 700X300 C2	GNGPR168_1104_0
RWC 700X300 C4	GNGPR168_1102_0
RWC 750X300 C2	GNGPR168_1066_0
RWC 750X300 C4	GNGPR168_1064_0
RWC 750X350 C2	GNGPR168_1070_0
RWC 750X350 C4	GNGPR168_1068_0

Duct coolers are used in ventilation systems which require a supply of cooled air. RWC coolers are made of copper tubes and aluminum plates. The housing is made of galvanized steel. Contains a system for condensate drainage. Water is used as the working fluid.

Type	**Dimensions** [mm]								
	D	**C**	**ød**	**E**	**B**	**A**	**K**	**G**	**L**
RWC 500X250 C2	500	250	1/2''	242	674	340	70	290	430
RWC 500X250 C4	500	250	1/2''	242	674	340	70	290	430
RWC 700X300 C2	700	300	1/2"	292	874	390	70	310	450
RWC 700X300 C4	700	300	3/4"	286	874	390	70	310	450
RWC 750X300 C2	750	300	1/2"	292	924	390	70	310	450
RWC 750X300 C4	750	300	3/4"	286	924	390	70	310	450
RWC 750X350 C2	750	350	1/2"	358	944	440	70	310	450
RWC 750X350 C4	750	350	3/4"	336	944	440	70	310	450

TECHNICAL DATA



① RWC 500x250-2
② RWC 500x250-4
③ RWC 700x300-2
④ RWC 700x300-4
⑤ RWC 750x300-2
⑥ RWC 750x300-4
⑦ RWC 750x350-2
⑧ RWC 750x350-4

RWC

TECHNICAL DATA

Q - airflow volume
SUP - supply air temperature
P - output
ΔP1 - pressure drop at water side
ΔkP1 - pressure drop on air side
v1 - water flow velocity

d - water connection diameter
row - number or rows
ODA 1 - outdoor air 25°C/50RH
ODA 2 - outdoor air 30°C/45RH
ODA 3 - outdoor air 32°C/40RH
wat C - 7/12

Type	Q [m³/h]	ODA	SUP [°C]	P [kW]	ΔP1 [Pa]	ΔkP1	v1 [m/s]	d	Row	FIN spac.
RWC 500x250-2	1400	ODA 1	20.37	2.46	53.04	4.33	0.56	1/2"	2	2.5
		ODA 2	23.95	3.89	62.39	9.75	0.88	1/2"	2	2.5
		ODA 3	25.06	4.31	61.21	11.7	0.98	1/2"	2	2.5
	950	ODA 1	19.7	1.9	25.72	2.77	0.43	1/2"	2	2.5
		ODA 2	22.92	3.09	30.44	6.49	0.7	1/2"	2	2.5
		ODA 3	23.9	3.43	29.91	7.8	0.78	1/2"	2	2.5
	500	ODA 1	18.97	1.09	9.19	1.05	0.25	1/2"	2	2.5
		ODA 2	21.14	2.03	11.23	3.11	0.46	1/2"	2	2.5
		ODA 3	21.84	2.26	11.06	3.76	0.51	1/2"	2	2.5
RWC 500x250-4	1400	ODA 1	16.37	5.13	110.84	14.09	0.87	1/2"	4	2.5
		ODA 2	18.87	7.69	126.15	28.94	1.31	1/2"	4	2.5
		ODA 3	19.44	8.39	123.52	33.8	1.43	1/2"	4	2.5
	950	ODA 1	15.31	3.95	54.38	8.88	0.67	1/2"	4	2.5
		ODA 2	17.39	5.95	61.81	18.35	1.01	1/2"	4	2.5
		ODA 3	17.8	6.48	60.58	21.35	1.1	1/2"	4	2.5
	500	ODA 1	13.75	2.44	20.51	3.83	0.42	1/2"	4	2.5
		ODA 2	15.03	3.76	23.26	8.14	0.64	1/2"	4	2.5
		ODA 3	15.2	4.08	22.82	9.42	0.7	1/2"	4	2.5
RWC 700x300-2	2100	ODA 1	19.77	4.34	51.57	8.43	0.74	1/2"	2	2.3
		ODA 2	23.28	6.68	60.07	18.16	1.14	1/2"	2	2.3
		ODA 3	24.33	7.36	58.87	21.61	1.25	1/2"	2	2.3
	1300	ODA 1	18.78	3.21	22.78	4.93	0.55	1/2"	2	2.3
		ODA 2	21.89	5.01	26.6	10.88	0.85	1/2"	2	2.3
		ODA 3	22.76	5.52	26.11	12.92	0.94	1/2"	2	2.3
	500	ODA 1	17.48	1.42	5.49	1.18	0.24	1/2"	2	2.3
		ODA 2	18.95	2.63	6.67	3.48	0.45	1/2"	2	2.3
		ODA 3	19.42	2.91	6.57	4.15	0.49	1/2"	2	2.3
RWC 700x300-4	2100	ODA 1	16.14	7.98	100.02	13.61	0.91	3/4"	3	2.5
		ODA 2	18.59	11.9	113.54	27.68	1.35	3/4"	3	2.5
		ODA 3	19.13	12.97	111.16	32.25	1.47	3/4"	3	2.5
	1300	ODA 1	14.92	5.75	43.3	7.65	0.65	3/4"	3	2.5
		ODA 2	16.74	8.63	49.03	15.65	0.98	3/4"	3	2.5
		ODA 3	17.09	9.38	48.06	18.14	1.07	3/4"	3	2.5
	500	ODA 1	12.82	2.67	10.65	2.02	0.3	3/4"	3	2.5
		ODA 2	13.43	4.21	12.1	4.44	0.48	3/4"	3	2.5
		ODA 3	13.45	4.57	11.88	5.11	0.52	3/4"	3	2.5
RWC 750x300-2	2700	ODA 1	20.05	5.35	71.69	12.66	0.91	1/2"	2	2.3
		ODA 2	23.7	8.11	83.3	26.72	1.38	1/2"	2	2.3
		ODA 3	24.82	8.93	81.61	31.75	1.52	1/2"	2	2.3
	1600	ODA 1	18.96	3.9	28.12	7.22	0.66	1/2"	2	2.3
		ODA 2	22.21	5.98	32.7	15.48	1.02	1/2"	2	2.3
		ODA 3	23.13	6.58	32.08	18.34	1.12	1/2"	2	2.3
	500	ODA 1	16.84	1.6	5.1	1.53	0.27	1/2"	2	2.3
		ODA 2	18.55	2.76	6.07	3.94	0.47	1/2"	2	2.3
		ODA 3	19.01	3.04	5.97	4.66	0.52	1/2"	2	2.3

The company reserves the right to make changes of technical data without prior notice

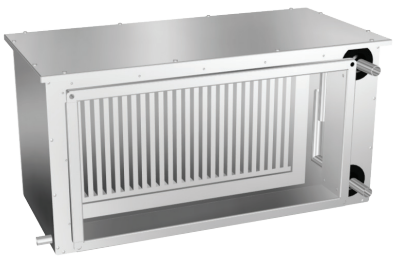
TECHNICAL DATA

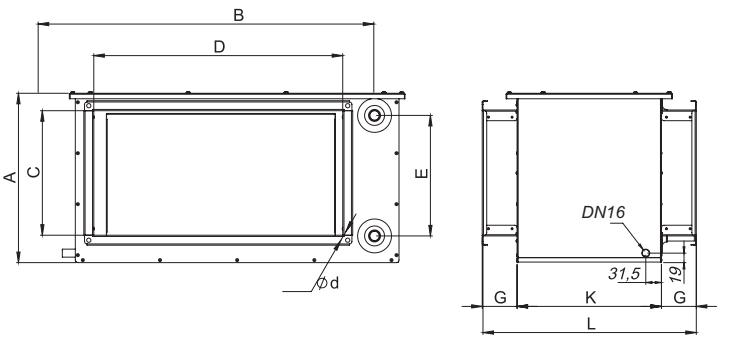
Q - airflow volume
SUP - supply air temperature
P - output
ΔP1 - pressure drop at water side
ΔkP1 - pressure drop on air side
v1 - water flow velocity
d - water connection diameter
row - number or rows
ODA 1 - outdoor air 25°C/50RH
ODA 2 - outdoor air 30°C/45RH
ODA 3 - outdoor air 32°C/40RH
wat °C - 7/12

Type	Q [m³/h]	ODA	SUP [°C]	P [kW]	ΔP1 [Pa]	ΔkP1	v1 [m/s]	d	Row	FIN spac.
RWC 750x300-4	2700	ODA 1	16.87	9.08	134.18	9.52	0.77	3/4"	4	2.5
		ODA 2	19.46	13.8	153.75	20.13	1.17	3/4"	4	2.5
		ODA 3	20.07	15.1	150.59	23.68	1.29	3/4"	4	2.5
	1600	ODA 1	15.52	6.35	51.61	5.05	0.54	3/4"	4	2.5
		ODA 2	17.51	9.79	59.07	10.88	0.83	3/4"	4	2.5
		ODA 3	17.9	10.69	57.92	12.73	0.91	3/4"	4	2.5
	500	ODA 1	13.43	2.39	9.18	0.92	0.2	3/4"	4	2.5
		ODA 2	13.86	3.99	10.68	2.24	0.34	3/4"	4	2.5
		ODA 3	13.78	4.39	10.51	2.63	0.37	3/4"	4	2.5
RWC 750x350-2	4100	ODA 1	20.56	7.01	99.28	7.9	0,8	3/4"	2	2.3
		ODA 2	24.3	10.84	116.2	17.16	1.23	3/4"	2	2.3
		ODA 3	25.48	11.98	113.89	20.54	1.36	3/4"	2	2.3
	2550	ODA 1	19.66	5.28	41.25	4.77	0.6	3/4"	2	2.3
		ODA 2	23.04	8.27	48.27	10.59	0.94	3/4"	2	2.3
		ODA 3	24.05	9.14	47.32	12.65	1.04	3/4"	2	2.3
	1000	ODA 1	18.1	2.61	9.42	1.39	0.3	3/4"	2	2.3
		ODA 2	20.29	4.55	11.28	3.67	0.52	3/4"	2	2.3
		ODA 3	20.92	5.03	11.1	4.39	0.57	3/4"	2	2.3
RWC 750x350-4	4100	ODA 1	17.86	12	178.39	9.43	0.82	1"	4	2.8
		ODA 2	20.82	18.19	205.23	19.76	1.24	1"	4	2.8
		ODA 3	21.58	19.94	201.93	23.3	1.36	1"	4	2.8
	2550	ODA 1	16.64	8.84	74.43	5.49	0.6	1"	4	2.8
		ODA 2	19.1	13.53	85.34	11.66	0.92	1"	4	2.8
		ODA 3	19.67	14.8	83.6	13.68	1.01	1"	4	2.8
	1000	ODA 1	14.8	4.19	15.43	1.5	0.29	1"	4	2.8
		ODA 2	15.8	6.99	17.96	3.64	0.48	1"	4	2.8
		ODA 3	15.98	7.65	17.63	4.26	0.52	1"	4	2.8

RFC

DX COOLERS



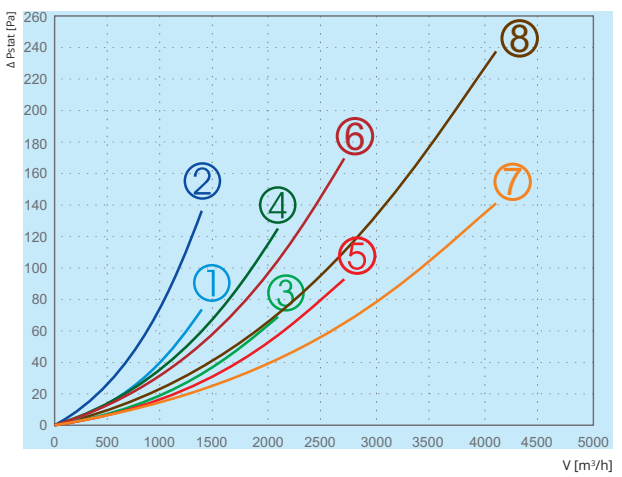


Title	Article No.
RFC 500X250 F2	GNGPR168_1063_0
RFC 500X250 F4	GNGPR168_1061_0
RFC 700X300 F2	GNGPR168_1105_0
RFC 700X300 F4	GNGPR168_1103_0
RFC 750X300 F2	GNGPR168_1067_0
RFC 750X300 F4	GNGPR168_1065_0
RFC 750X350 F2	GNGPR168_1071_0
RFC 750X350 F4	GNGPR168_1069_0

Duct coolers are used in ventilation systems which require a supply of cooled air. RWF coolers are made of copper tubes and aluminum plates. The housing is made of galvanized steel. Contains a system for condensate drainage. Refrigerant is used as the working fluid.

Type	Dimensions [mm]								
	D	C	ød	E	B	A	K	G	L
RFC 500X250 F2	500	250	12/16	240	674	340	70	290	430
RFC 500X250 F4	500	250	12/16	240	674	340	70	290	430
RFC 700X300 F2	700	300	12/16	290	874	390	70	310	450
RFC 700X300 F4	700	300	12/16	290	874	390	70	310	450
RFC 750X300 F2	750	300	12/16	290	924	390	70	310	450
RFC 750X300 F4	750	300	22/28	278	924	390	70	310	450
RFC 750X350 F2	750	350	16/22	334	944	440	70	310	450
RFC 750X350 F4	750	350	22/28	328	944	440	70	310	450

TECHNICAL DATA



① RFC 500X250 F2
② RFC 500X250 F4
③ RFC 700X300 F2
④ RFC 700X300 F4
⑤ RFC 750X300 F2
⑥ RFC 750X300 F4
⑦ RFC 750X350 F2
⑧ RFC 750X350 F4

The company reserves the right to make changes of technical data without prior notice

TECHNICAL DATA

Q - airflow volume
SUP - supply air temperature
P - output
ΔP1 - pressure drop at water side
ΔkP1 - pressure drop on air side
d - water connection diameter
row - number or rows

ODA 1 - outdoor air 25°C/50RH
ODA 2 - outdoor air 30°C/45RH
ODA 3 - outdoor air 32°C/40RH
Evopor. Temp. - 5°C
Condens. Temp. - 50°C
Op. Pressure, MPA - 0,931

Type	Q [m³/h]	ODA	SUP [°C]	P [kW]	ΔP1 [Pa]	ΔkP1	v1 [m/s]	d	Row	FIN spac.
RFC 500x250-2	1400	ODA 1	19.75	3.28	59.99	5.65	79.05	12/16	2	2.5
		ODA 2	23.41	4.54	65.71	10.94	109.41	12/16	2	2.5
		ODA 3	24.58	4.94	64.41	13	118.98	12/16	2	2.5
	950	ODA 1	18.78	2.68	29.44	3.74	64.5	12/16	2	2.5
		ODA 2	22.17	3.7	32.25	7.18	89.15	12/16	2	2.5
		ODA 3	23.21	4.02	31.65	8.48	96.77	12/16	2	2.5
	500	ODA 1	16.95	1.87	11.05	1.82	44.92	12/16	2	2.5
		ODA 2	19.85	2.57	12.07	3.42	61.93	12/16	2	2.5
		ODA 3	20.65	2.78	11.85	4	66.97	12/16	2	2.5
RFC 500x250-4	1400	ODA 1	15.86	5.87	117.36	5.4	141.31	12/16	4	2.5
		ODA 2	18.46	8.16	128.14	10.45	196.36	12/16	4	2.5
		ODA 3	19.08	8.82	125.49	12.24	212.28	12/16	4	2.5
	950	ODA 1	14,.53	4.64	57.82	3.38	111.81	12/16	4	2.5
		ODA 2	16.74	6.44	63.07	6.48	155.11	12/16	4	2.5
		ODA 3	17.22	6.94	61.83	7.53	167.21	12/16	4	2.5
	500	ODA 1	12.29	3.05	22.01	1.47	73.38	12/16	4	2.5
		ODA 2	13.89	4.21	23.91	2.76	101.4	12/16	4	2.5
		ODA 3	14.13	4.52	23.44	3.17	108.74	12/16	4	2.5
RFC 700x300-2	2100	ODA 1	19.59	5.1	53.88	6.44	122.69	12/16	2	2.5
		ODA 2	23.21	7.04	58.96	12.4	169.52	12/16	2	2.5
		ODA 3	24.36	7.65	57.8	14.71	184.24	12/16	2	2.5
	1300	ODA 1	18.34	3.95	23.28	3.84	95.02	12/16	2	2.5
		ODA 2	21.63	5.44	25.47	7.32	131.09	12/16	2	2.5
		ODA 3	22.61	5.9	25	8.62	142.12	12/16	2	2.5
	500	ODA 1	15.45	2.25	5.73	1.26	54.17	12/16	2	2.5
		ODA 2	17.97	3.09	6.24	2.34	74.44	12/16	2	2.5
		ODA 3	18.59	3.33	6.13	2.72	80.23	12/16	2	2.5
RFC 700x300-4	2100	ODA 1	15.63	9.06	105.47	4.95	218.25	16/22	4	2.5
		ODA 2	18.17	12.57	115.05	9.6	302.76	16/22	4	2.5
		ODA 3	18.77	13.58	112.67	11.24	327.05	16/22	4	2.5
	1300	ODA 1	13.96	6.75	45.87	2.74	162.48	16/22	4	2.5
		ODA 2	16.03	9.34	49.97	5.23	224.95	16/22	4	2.5
		ODA 3	16.45	10.06	48.98	6.06	242.14	16/22	4	2.5
	500	ODA 1	10.7	3.5	11.51	0.75	84.15	16/22	4	2.5
		ODA 2	11.88	4.81	12.45	1.38	115.76	16/22	4	2.5
		ODA 3	11.99	5.13	12.21	1.57	123.63	16/22	4	2.5
RFC 750x300-2	2700	ODA 1	20.07	5.9	73.69	4.76	142.14	12/16	2	2.5
		ODA 2	23.8	8.21	80.89	9.2	197.75	12/16	2	2.5
		ODA 3	25	8.95	79.3	10.94	215.47	12/16	2	2.5
	1600	ODA 1	18.78	4.5	28.38	2.77	108.27	12/16	2	2.5
		ODA 2	22.16	6.24	31.12	5.29	150.23	12/16	2	2.5
		ODA 3	23.19	6.78	30.54	6.23	163.22	12/16	2	2.5
	500	ODA 1	15.31	2.28	5.14	0.73	54.93	12/16	2	2.5
		ODA 2	17.76	3.15	5.6	1.36	75.74	12/16	2	2.5
		ODA 3	18.35	3.39	5.5	1.57	81.67	12/16	2	2.5

RFC

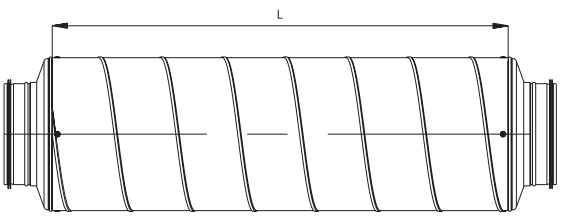
TECHNICAL DATA

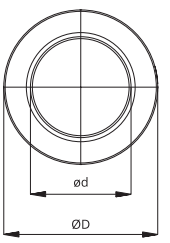
Q	- airflow volume	ODA 1	- outdoor air 25°C/50RH
SUP	- supply air temperature	ODA 2	- outdoor air 30°C/45RH
P	- output	ODA 3	- outdoor air 32°C/40RH
ΔP1	- pressure drop at water side	Evopor. Temp.	- 5°C
ΔkP1	- pressure drop on air side	Condens. Temp.	- 50°C
d	- water connection diameter	Op. Pressure, MPA	- 0,931
row	- number or rows		

Type	Q [m³/h]	ODA	SUP [°C]	P [kW]	ΔP1 [Pa]	ΔkP1	v1 [m/s]	d	Row	FIN spac.
RFC 750x300-4	2700	ODA 1	16.33	10.66	143.98	3.17	256.56	22/28	4	2.5
		ODA 2	19.02	14.88	157.55	6.19	358.26	22/28	4	2.5
		ODA 3	19.69	16.12	154.32	7.28	388.11	22/28	4	2.5
	1600	ODA 1	14.54	7.79	55.76	1.7	187.66	22/28	4	2.5
		ODA 2	16.73	10.85	60.89	3.26	261.23	22/28	4	2.5
		ODA 3	17.19	11.71	59.69	3.79	281.85	22/28	4	2.5
	500	ODA 1	10.58	3.53	10.34	0.36	84.89	22/28	4	2.5
		ODA 2	11.69	4.86	11.2	0.66	117.04	22/28	4	2.5
		ODA 3	11.78	5.19	10.98	0.75	125.02	22/28	4	2.5
RFC 750x350-2	4100	ODA 1	20.07	8.77	114.99	2.61	211.18	16/22	2	2.1
		ODA 2	23.74	12.4	127.09	5.19	298.67	16/22	2	2.1
		ODA 3	24.92	13.57	124.55	6.21	326.67	16/22	2	2.1
	2550	ODA 1	18.89	6.89	48.38	1.62	166.01	16/22	2	2.1
		ODA 2	22.24	9.71	53.25	3.18	233.89	16/22	2	2.1
		ODA 3	23.24	10.59	52.19	3.77	255.04	16/22	2	2.1
	1000	ODA 1	16.13	4.08	12.31	0.58	98.13	16/22	2	2.1
		ODA 2	18.73	5.7	13.5	1.1	137.19	16/22	2	2.1
		ODA 3	19.38	6.17	13.24	1.29	148.58	16/22	2	2.1
RFC 750x350-4	4100	ODA 1	16.89	15.04	204.04	5.46	362.06	22/28	4	2.5
		ODA 2	19.76	20.95	223.39	10.69	504.36	22/28	4	2.5
		ODA 3	20.51	22.7	218.79	12.61	546.62	22/28	4	2.5
	2550	ODA 1	15.3	11.43	85.87	3.13	275.18	22/28	4	2.5
		ODA 2	17.72	15.89	93.66	6.06	382.59	22/28	4	2.5
		ODA 3	18.28	17.16	91.73	7.08	413.26	22/28	4	2.5
	1000	ODA 1	12.05	6.23	19.68	0.94	149.92	22/28	4	2.5
		ODA 2	13.57	8.61	21.37	1.76	207.2	22/28	4	2.5
		ODA 3	13.79	9.23	20.95	2.02	222.12	22/28	4	2.5

The company reserves the right to make changes of technical data without prior notice

CIRCULAR DUCT SILENCERS





MUTE

Title	Article No.
MUTE 315x900	GSOMUTE024

Silencers Mute for circular ducts are manufactured by a unique method that leads to:
• High sound attenuation values – up to 64 dB for d125 silencers.
• Top airtightness – class D (EN 12234:2005).
MUTE silencers easily fit on all types of air handling units with round duct connection.

Construction features and materials:
• Casing and perforated inner net - from galvanized steed (DX51D+Z275). Corrosion class – C2 (ISO 12944).
• Inner material - polyester spunbond (type 488/50).
• Attenuation material - mineral wool. Fire rating class A1 (EN 13501) – non-combustible.

DIMENSIONS			
Type	L, [mm]	ød, [mm]	øD, [mm]
MUTE 315x900	900	315	419

WEIGHT	
Type	Weight [kg]
MUTE 315x900	16.0

ATTENUATION VALUES IN FREQUENCY BANDS [dB]								
Type	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	800 Hz
MUTE 315x900	6.7	4.7	6.5	9.2	27.8	16.5	10.8	7.4

SSP

SILENCERS FOR RECTANGULAR DUCTS

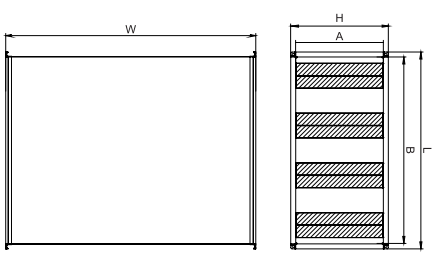
SSP

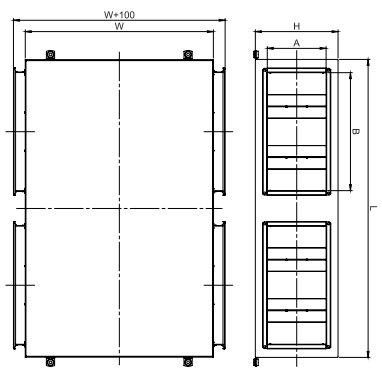
Title	Article No.
SSP 500x250x1000 - 2/100	GSOSSP0216_019
SSP 500x300x1000 - 2/100	GSOSSP0216_011
SSP 500x350x1000 - 2/100	GSOSSP216_1015
SSP 600x350x1000 - 3/100	GSOSSP0216_024
SSP 695x355x1000 - 3/100	GSOSSP216_1027
SSP 700x300x1000 - 3/100	GSOSSP216_134
SSP 700x485x1000 - 3/100	GSOSSP216_1028
SSP 735x520x1000 - 4/100	GSOSSP216_1029
SSP 750x300x1000 - 4/100	GSOSSP216_135
SSP 750x350x1000 - 4/100	GSOSSP216_136
SSP 925x350x1000 - 5/100	GSOSSP216_1016
SSP 950x400x1000 - 5/100	GSOSSP216_1017
SSP 1065x520x1000 - 5/100	GSOSSP216_1030
SSP 1135x520x1000 - 6/100	GSOSSP216_1031
SSP 1250x550x1000 - 6/100	GSOSSP216_1018
SSP 1440x655x1000 - 7/100	GSOSSP216_1032
SSP 1600x585x1000 - 8, 100	GSOSSP216_1019
SSP 1805x655x1000 - 9/100	GSOSSP216_1033

SSP,D

Title	Article No.
SSP 500X250X900-4,100,D	GSOSSP216_1012
SSP 700X300X900-6,100,D	GSOSSP216_1023
SSP 750X300X900-6,100,D	GSOSSP216_1024
SSP 750X350X900-6,100,D	GSOSSP216_1025

Rectangular duct silencers SSP can be mounted into a system of rectangular air ducts. SSP silencers have good sound attenuation characteristics. Several silencers can be mounted into a rectangular air duct system if there is requirement for bigger noise reduction. The housing is made of galvanized steel and inner casing is made of perforated sheet steel. Mineral wool is used for sound insulation.





DIMENSIONS					
Type	A, [mm]	B, [mm]	L, [mm]	H, [mm]	W, [mm]
SSP 500X250X1000 - 2/100	250	500	540	290	1000
SSP 500X300X1000-2. 100	300	500	540	340	1000
SSP 500x350x1000 - 2/100	350	500	540	390	1000
SSP 600x350x1000 - 3/100	350	600	640	390	1000
SSP 695x355x1000 (3x100x100)	355	695	735	395	1000
SSP 700X300X1000-3,100	300	700	740	340	1000
SSP 700x485x1000 (3x100x100)	485	700	740	525	1000

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DIMENSIONS					
Type	A, [mm]	B, [mm]	L, [mm]	H, [mm]	W, [mm]
SSP 735x520x1000 (4x100x80)	520	735	775	560	1000
SSP 750X300X1000-4,100	300	750	790	340	1000
SSP 750X350X1000-4/100	350	750	790	390	1000
SSP 925x350x1000 - 5/100	350	925	990	390	1000
SSP 950x400x1000 - 5/100	400	950	990	440	1000
SSP 1065x520x1000 (5x100x100)	520	1065	1105	560	1000
SSP 1135x520x1000 (6x100x80)	520	1135	1175	560	1000
SSP 1250x550x1000 - 6/100	550	1250	1290	550	1250
SSP 1440x655x1000 (7x100x100)	655	1440	1480	695	1000
SSP 1600x585x1000 - 8, 100	585	1600	1640	625	1000
SSP 1805x655x1000 (9x100x100)	655	1805	1845	695	1000
SSP 500X250X900-4,100,D	500	250	1260	348	800
SSP 700X300X900-6,100,D	700	300	1663	402	800
SSP 750X300X900-6,100,D	750	300	1863	402	800
SSP 750X350X900-6,100,D	750	350	2013	452	800

ATTENUATION VALUES IN FREQUENCY BANDS [dB]								
Type	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
SSP 500x250x1000 - 2/100	2	3	7	17	26	26	21	13
SSP 500x300x1000 - 2/100	2	3	8	18	30	32	23	13
SSP 500x350x1000 - 2/100	2	3	8	18	30	32	23	13
SSP 600x350x1000 - 3/100	2	3	7	17	28	30	22	12
SSP 695x355x1000 - 3/100	2	3	7	16	25	26	21	11
SSP 700x300x1000 - 3/100	2	3	7	15	26	26	20	11
SSP 700x485x1000 - 3/100	2	3	7	16	25	26	21	11
SSP 735x520x1000 - 4/100	2	3	7	15	25	26	20	11
SSP 750x300x1000 - 4/100	2	3	7	15	25	26	20	11
SSP 750x350x1000 - 4/100	2	3	7	15	24	26	20	11
SSP 925x350x1000 - 5/100	2	3	7	16	26	28	21	11
SSP 950x400x1000 - 5/100	2	3	7	16	26	28	21	11
SSP 1065x520x1000 - 5/100	2	3	7	16	25	26	21	11
SSP 1135x520x1000 - 6/100	2	3	7	15	25	26	20	11
SSP 1250x550x1000 - 6/100	2	3	7	16	27	29	22	11
SSP 1440x655x1000 - 7/100	2	3	7	15	25	26	20	11
SSP 1600x585x1000 - 8, 100	2	3	6	15	25	27	20	11
SSP 1805x655x1000 - 9/100	2	3	7	15	25	26	20	11
SSP 500x250x900 - 4/100/D	7	4	7	11	28	32	19	11
SSP 700x300x900 - 6/100/D	7	4	7	10	28	32	18	11
SSP 750x300x900 - 6/100/D	6	3	6	10	27	31	18	10
SSP 750x350x900 - 6/100/D	6	3	6	10	27	31	18	10

SSP

① **AmberAir Compact 1-CXV/H**

② **AmberAir Compact 2-CXV/H**

③ **AmberAir Compact 3-CXV/H**

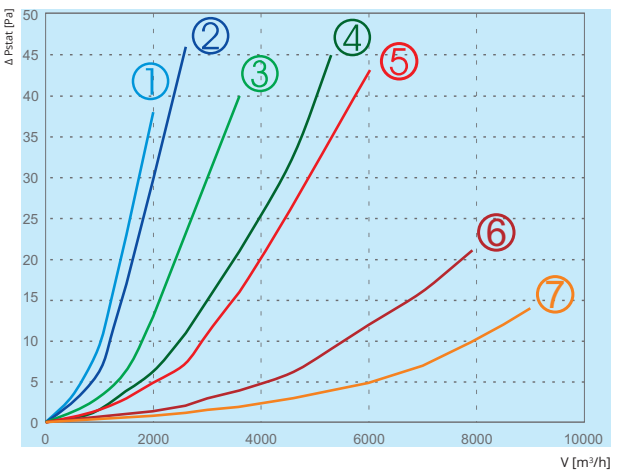
④ **AmberAir Compact 4-CXV/H**

⑤ **AmberAir Compact 5-CXV/H**

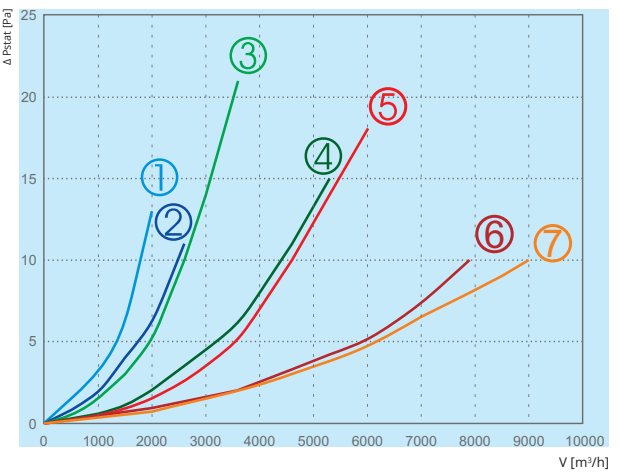
⑥ **AmberAir Compact 6-CXV/H**

⑦ **AmberAir Compact 7-CXV/H**

AmberAir Compact CXV



AmberAir Compact CXH



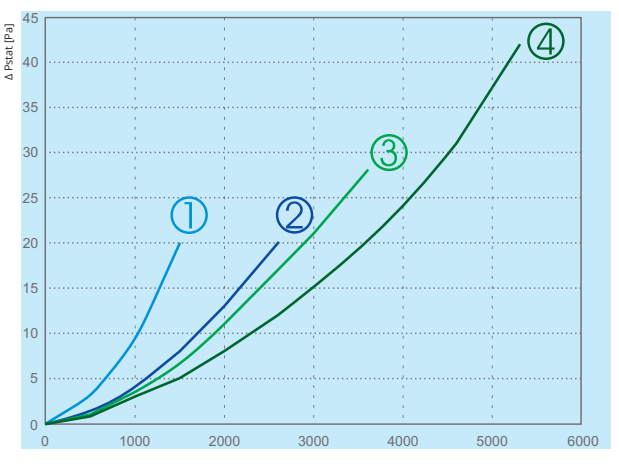
① **AmberAir Compact 1-CXP**

② **AmberAir Compact 2-CXP**

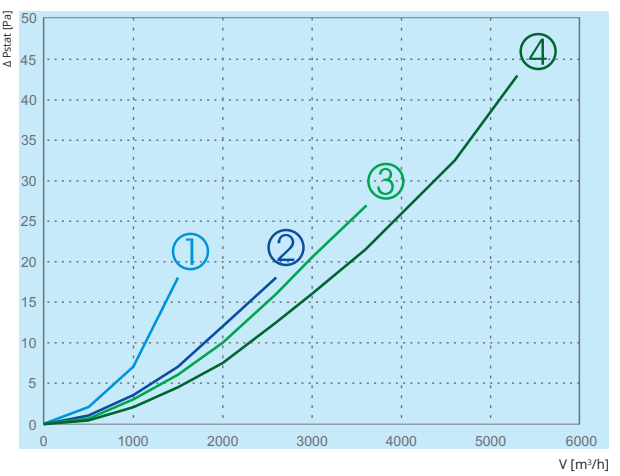
③ **AmberAir Compact 3-CXP**

④ **AmberAir Compact 4-CXP**

AmberAir Compact CXP



AmberAir Compact CXP-SSP,D



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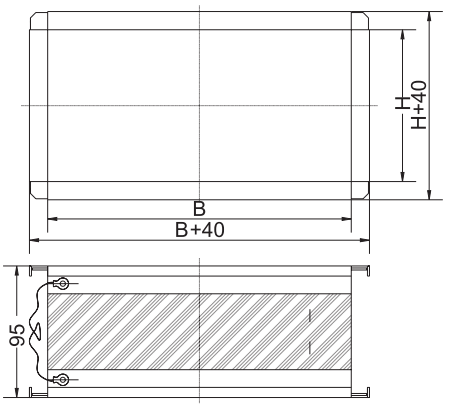
FLEXIBLE CONNECTION



LJ-E

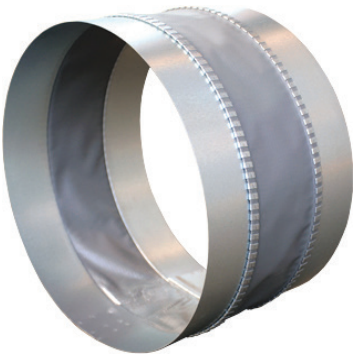
Title	Article No.
LJ-E 50-30	GLJLJ/E005
LJ-E 50-35	GLJLJ/E003
LJ-E 60-35	GLJLJ/E008
LJ-E 69.5-35.5	GLJLJ/E044
LJ-E 70-48.5	GLJLJ/E045
LJ-E 73.5-52	GLJLJ/E046
LJ-E 92.5-35	GLJLJ/E006
LJ-E 95-40	GLJLJ/E013
LJ-E 106-52	GLJLJ/E047
LJ-E 113.5-52	GLJLJ/E048
LJ-E 125-55	GLJLJ/E014
LJ-E 144-65.5	GLJLJ/E049
LJ-E 160-58.5	GLJLJ/E015
LJ-E 180.5-65.5	GLJLJ/E050

Flexible connection LJ-E is made from galvanised steel sheet and neoprene fabric.

DIMENSIONS			
Type	B, [mm]	H, [mm]	Weight, [kg]
LJ-E 50x30	500	300	0.85
LJ-E 50x35	500	350	0.88
LJ-E 60x35	600	350	0.93
LJ-E 69.5-35.5	695	355	0.98
LJ-E 70-48.5	700	485	1.05
LJ-E 73.5-52	735	520	1.09
LJ-E 92.5-35	925	350	1.11
LJ-E 95x40	950	400	1.15
LJ-E 106-52	1060	520	1.27
LJ-E 113.5-52	1130	520	1.30
LJ-E 125x55	1250	550	1.39
LJ-E 144-65.5	1440	655	1.54
LJ-E 160x58.5	1600	585	1.60
LJ-E 180.5-65.5	1805	655	1.74

LJ-PG / LSVF

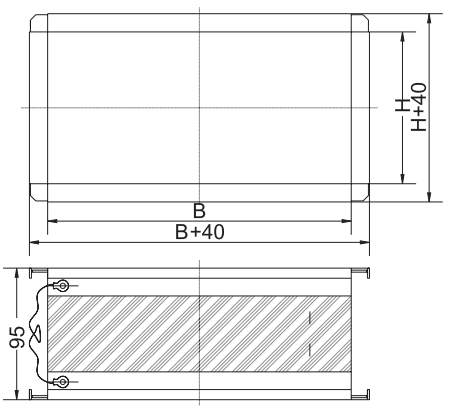
FLEXIBLE CONNECTION



LJ-PG

Title	Article No.
LJ-PG 50x25	GLJLJ/PG004
LJ-PG 70-30	GLJLJ/PG080
LJ-PG 75-30	GLJLJ/PG088
LJ-PG 75-35	GLJLJ/PG089

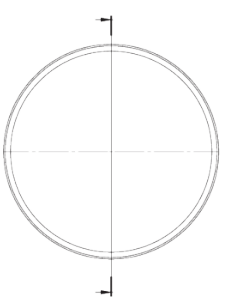
Flexible connection LJ-PG is made from galvanised steel sheet and neoprene fabric.

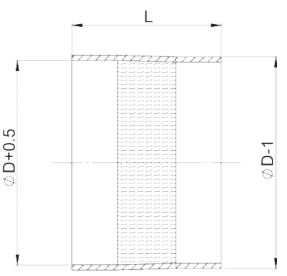


LSVF

Title	Article No.
LSVF 315	GVELSVF005
LSVF 355	GVELSVF006
LSVF 400	GVELSVF007
LSVF 500	GVELSVF009
LSVF 630	GVELSVF010
LSVF 710	GVELSVF018

Used for the minimizing of vibrations. LSVF links are made of neoprene fabric, connections are made of galvanized steel.

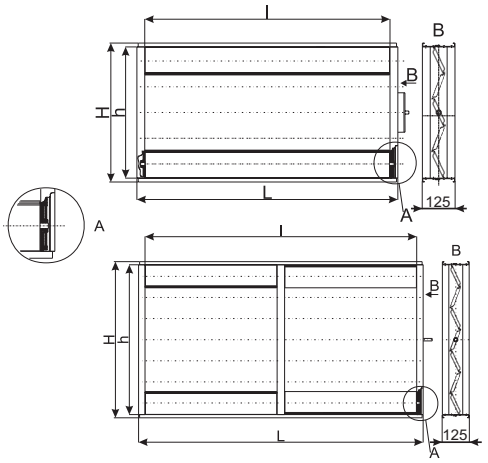




Type	B, [mm]	H, [mm]	øD, [mm]	L [mm]	Weight, [kg]
LJ-PG 50x25	500	250	-	-	0.50
LJ-PG 70-30	700	300	-	-	1.20
LJ-PG 75-30	750	300	-	-	1.40
LJ-PG 75-35	750	350	-	-	1.70
LSVF 315	-	-	315	1026	0.42
LSVF 355	-	-	355	1152	-
LSVF 400	-	-	400	1293	0.53
LSVF 500	-	-	500	1607	-
LSVF 630	-	-	630	2016	0.82
LSVF 710	-	-	710	2267	-

The company reserves the right to make changes of technical data without prior notice

SHUT-OFF DAMPERS



SSK

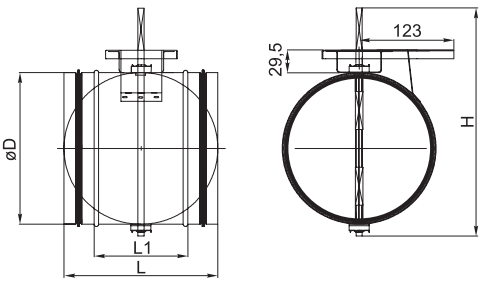
Title	Article No.
SSK 500-300	GSKSSK014
SSK 500-350	GSKSSK015
SSK 600-350	GSKSSK022
SSK 695-355	GSKSSK751
SSK 700-485	GSKSSK752
SSK 735-520	GSKSSK753
SSK 925-350	GSKSSKM004
SSK 950-400	GSKSSKM005
SSK 1060-520	GSKSSK754
SSK 1135-520	GSKSSK755
SSK 1250x550	GSKSSKM006
SSK 1440-655	GSKSSK756
SSK 1600-585	GSKSSKM007
SSK 1805-655	GSKSSK757

SSK dampers are used for closing airflow. The dampers are made of aluminium profile with sealing rubber gaskets. Palm driving gear is made of glass-fibre material. Silicon sealing strip provides proper tightness.
Dampers are suitable to be used in the temperature ranges from -40º to +80ºC.
The flange system of these dampers is the same as in the rectangular air ducts and fans, therefore mounting operations are simple.

DIMENSIONS		
Type	L, [mm]	H, [mm]
SSK 500-300	500	300
SSK 500-350	500	350
SSK 600-350	600	350
SSK 695-355	695	355
SSK 700-485	700	485
SSK 735-520	735	520
SSK 925-350	925	350
SSK 950-400	950	400
SSK 1060-520	1060	520
SSK 1135-520	1135	520
SSK 1250x550	1250	550
SSK 1440-655	1440	655
SSK 1600-585	1600	585
SSK 1805-655	1805	655

SKG-A

SHUT-OFF DAMPERS



SKG-A

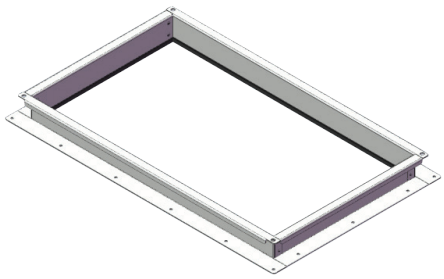
Title	Article No.
SKG-A 315	GSKSKG035
SKG-A 355	GSKSKG036
SKG-A 400	GSKSKG037

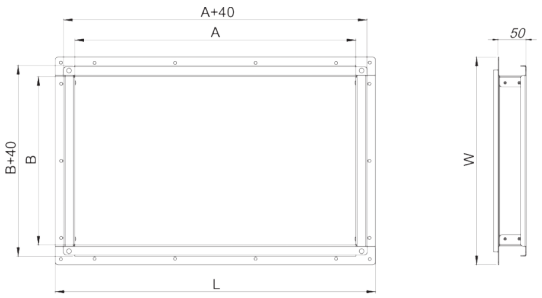
Shut-off dampers SKG-A are used for shutting off and controlling airflow. They are easily installed in a circular air duct system. Can be mounted in any position. The casing is made of galvanized steel.
Have a rotating, cut-off blade. The blade can be continually adjusted in a 0-90° angle by a motor on the top of damper.
The blade of SKG-A dampers has rubber seal that tightens the inside of the damper when it's in closed position.
SKG-A shut-off damper is controlled by a motor which is supplied separately.

DIMENSIONS				
Type	øD, [mm]	L1, [mm]	L, [mm]	H, [mm]
SKG-A 315	315	140	240	445
SKG-A 355	355	140	240	485
SKG-A 400	400	140	240	835

The company reserves the right to make changes of technical data without prior notice

RECTANGULAR FLANGE





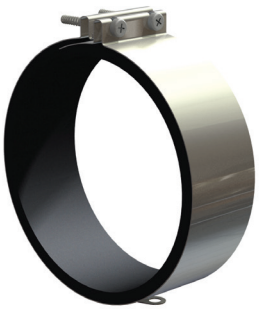
Title	Article No.
RF 500X300	GNGPR168_1078_0
RF 500X350	GNGPR168_1079_0
RF 600X350	GNGPR168_1031_0
RF 925X350	GNGPR168_1080_0
RF 950X400	GNGPR168_1081_0
RF 1250X550	GNGPR168_1082_0
RF 1600X585	GNGPR168_1083_0

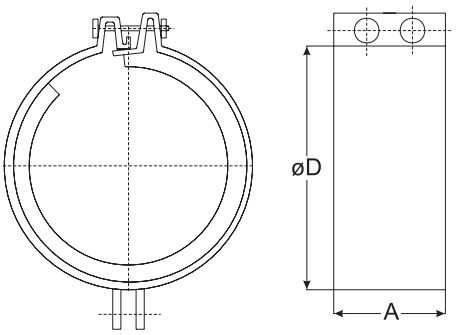
A rectangular flange RF is designed to connect accessories to the Compact CXV unit. Flange RF is made from galvanized steel.

DIMENSIONS					
Type	A, [mm]	B, [mm]	L, [mm]	W, [mm]	Weight, [kg]
RF 500X300	500	300	570	370	2.3
RF 500X350	500	350	570	420	2.4
RF 600X350	600	350	670	420	2.7
RF 925X350	925	350	995	420	3.6
RF 950X400	950	400	1020	470	3.8
RF 1250X550	1250	550	1320	620	5.0
RF 1600X585	1600	585	1670	655	6.1

AP

CLAMPS





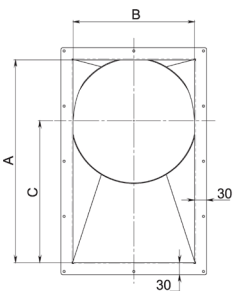
Title	Article No.
AP 315	GAPAP007
AP 355	GAPAP008
AP 400	GAPAP009

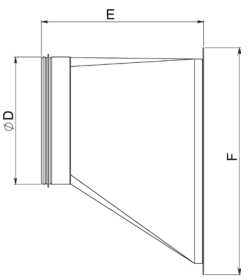
Clamps AP are used for the mounting of various elements of ventilation and air conditioning systems. They minimize vibrations and ensure tight fit of various parts of a system. Made of galvanized steel.

DIMENSIONS			
Type	øD, [mm]	A, [mm]	Weight, [kg]
AP 315	315	60	0.28
AP 355	355	60	0.30
AP 400	400	60	0.32

The company reserves the right to make changes of technical data without prior notice

FLANGE ADAPTERS





STP-RI

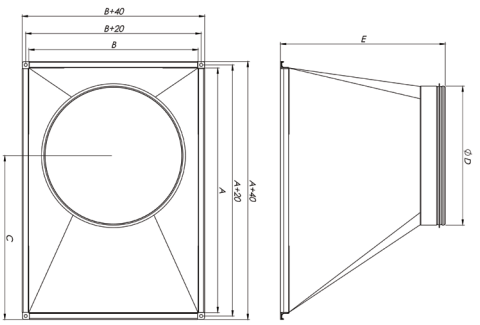
Title	Article No.
STP-RI 500x300-315 (FLAU)	GSFSTPRI161_336
STP-RI 500x350-400 (FLAU)	GSFSTPRI161_337
STP-RI 600x350-400 (FLAU-R)	GSFSTPRI161_316
STP-RI 925x350-500 (FLAU)	GSFSTPRI161_343
STP-RI 950x400-630 (FLAU)	GSFSTPRI161_322
STP-RI 1250x550-630 (FLAU)	GSFSTPRI161_333
STP-RI 1600x585-710 (FLAU)	GSFSTPRI161_338

Flange adapters are used to connect AHU with standard ventilation ducts. Adapters are made of galvanized steel.

Dimensions [mm]	A	B	C	øD	E	F
STP-RI 500x300-315 (FLAU)	500	300	350	315	400	560
STP-RI 500x350-400 (FLAU)	500	350	430	400	500	560
STP-RI 600x350-400 (FLAU-R)	600	350	480	400	500	660
STP-RI 925x350-500 (FLAU)	925	350	763	500	600	985
STP-RI 950x400-630 (FLAU)	950	400	775	630	612	1010
STP-RI 1250x550-630 (FLAU)	1250	550	825	630	700	1310
STP-RI 1600x585-710 (FLAU)	1600	585	1100	710	800	1660

STP

FLANGE ADAPTERS



STP-CI

Title	Article No.
STP-CI 695X355-315	GSFSTPCI161_356
STP-CI 705x485-400	GSFSTPCI161_404
STP-CI 735x520-500	GSFSTPCI161_331
STP-CI 1062X520-500	GSFSTPCI161_403
STP-CI 1133x520-630	GSFSTPCI161_355
STP-CI 1440x655-630	GSFSTPCI161_407
STP-CI 1804x654-710	GSFSTPCI161_406

Flange adapters are used to connect AHU with standard ventilation ducts. Adapters are made of galvanized steel.

Dimensions [mm]	A	B	C	øD	E
STP-CI 695x355-315	695	355	570	315	545
STP-CI 705x485-400	700	485	470	400	475
STP-CI 735x520/500	740	520	510	500	505
STP-CI 1062x520-500	1065	520	650	500	600
STP-CI 1133x520-630	1135	520	840	630	560
STP-CI 1440x655-630	1440	655	940	630	480
STP-CI 1804x654-710	1805	655	1125	710	600

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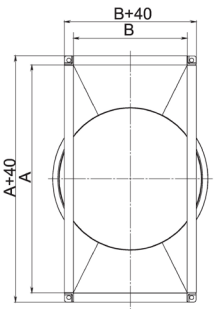
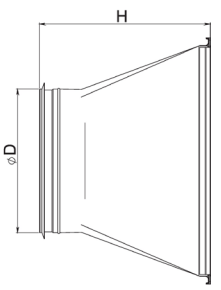
FLANGE ADAPTERS





STP-C

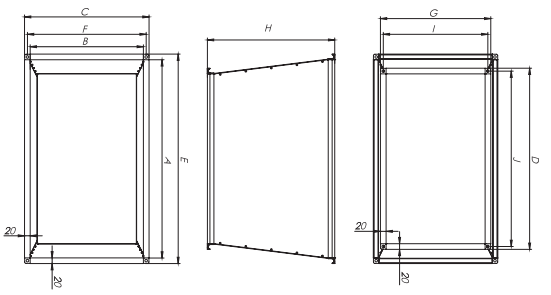
Title	Article No.
STP-C 500x250_315	GSFSTPC161_158
STP-C 700x300_355	GSFSTPC161_335
STP-C 750x300_355	GSFSTPC161_352
STP-C 750x350_400	GSFSTPC161_340

Flange adapters are used to connect AHU with standard ventilation ducts. Adapters are made of galvanized steel.

Dimensions [mm]	A	B	C	øD	E	H
STP-C 500X250_315	500	250	290	315	540	375
STP-C 700X300_355	700	300	340	355	740	454
STP-C 750X300_355	750	300	340	355	790	455
STP-C 750X350_400	750	350	390	400	790	500

STP

FLANGE ADAPTERS



STP

Title	Article No.
STP 700X300-600X350	GSFSTP161_341
STP 750X300-600X350	GSFSTP161_353
STP 750X350-700X400	GSFSTP161_342

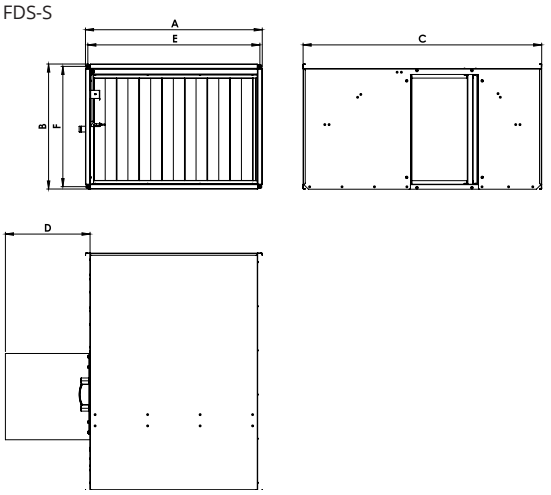
Flange adapters are used to connect AHU with standard ventilation ducts. Adapters are made of galvanized steel.

Dimensions [mm]	A	B	C	D	E	F	G	H	I	J
STP 700X300-600X350	700	300	600	350	740	320	390	250	350	600
STP 750X300-600X350	750	300	600	350	790	320	390	250	350	600
STP 750X350-700X400	750	350	700	400	790	370	440	250	400	700

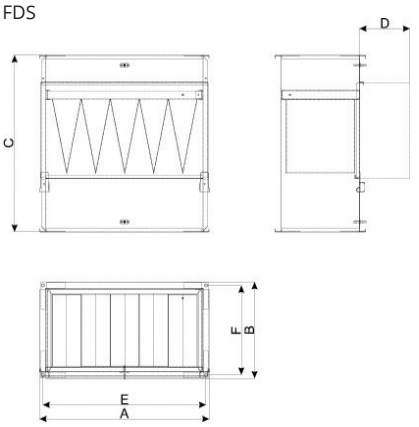
The company reserves the right to make changes of technical data without prior notice

FILTER BOX

FDS-S



FDS



Title	Article No.
FDS-S 69.5-35.5	GFZFDS059
FDS-S 70-48.5	GFZFDS065
FDS-S 74-52	GFZFDS060
FDS-S 106-52	GFZFDS061
FDS-S 113.5-52	GFZFDS062
FDS-S 144-65.5	GFZFDS063
FDS-S 180.5-65.5	GFZFDS064
FDS 50-25-M5	GFZFDS003
FDS 50-25-F7	GFZFDS025
FDS 50-25-G4	GFZFDS024
FDS 70-30-M5	GFZFDS048
FDS 70-30-F7	GFZFDS051
FDS 70-30-G4	GFZFDS052
FDS 75-30-M5	GFZFDS049
FDS 75-30-F7	GFZFDS053
FDS 75-30-G4	GFZFDS054
FDS 75-35-M5	GFZFDS050
FDS 75-35-F7	GFZFDS055
FDS 75-35-G4	GFZFDS056

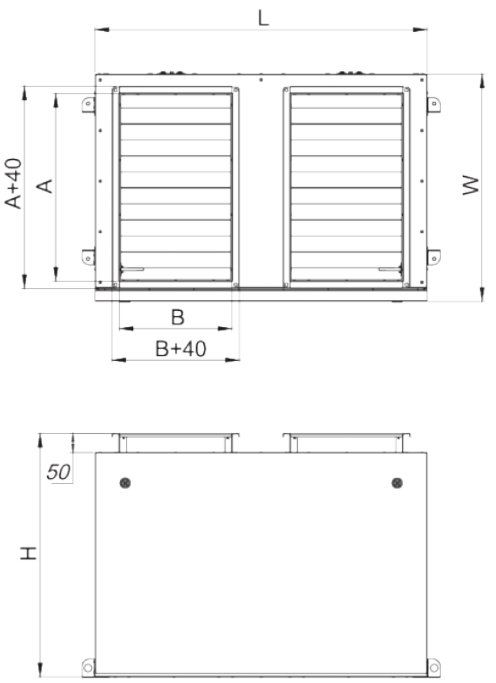
Filter boxes FDS are used to clean supplied air. They are mounted into a system of rectangular air ducts. Completed with exchangeable FMK-type G4-M5-F7 class pocket filters. In the filter box, a pocket filter is mounted in a horizontal position with pockets facing downwards. The casing is made of galvanizes steel. Possibility to connect pressure switch for the filter pollution measurement.

DIMENSIONS

Type	WxH, [mm]	A, [mm]	B, [mm]	C, [mm]	D, [mm]	E, [mm]	F, [mm]	Weight, [kg]
FDS-S 69.5-35.5	-	735	395	1000	735	715	375	16.6
FDS-S 70-48.5	-	740	525	1000	740	720	505	19.1
FDS-S 74-52	-	780	560	1000	780	760	540	20.5
FDS-S 106-52	-	1100	560	1000	570	1080	540	26.1
FDS-S 113.5-52	-	1175	560	1000	610	1155	540	27.8
FDS-S 144-65.5	-	1480	695	1000	760	1460	675	37.2
FDS-S 180.5-65.5	-	1840	695	1000	640	1820	675	44.1
FDS 50-25-M5	500x250	540	290	532	290	520	270	6.02
FDS 50-25-F7	500x250	540	290	532	290	520	270	6.02
FDS 50-25-G4	500x250	540	290	532	290	520	270	6.02
FDS 70-30-M5	700x300	740	340	1000	340	720	320	15.4
FDS 70-30-F7	700x300	740	340	1000	340	720	320	15.4
FDS 70-30-G4	700x300	740	340	1000	340	720	320	15.4
FDS 75-30-M5	750x300	790	340	1000	340	770	320	16.1
FDS 75-30-F7	750x300	790	340	1000	340	770	320	16.1
FDS 75-30-G4	750x300	790	340	1000	340	770	320	16.1
FDS 75-35-M5	750x350	790	390	1000	390	770	370	17.1
FDS 75-35-F7	750x350	790	390	1000	390	770	370	17.1
FDS 75-35-G4	750x350	790	390	1000	390	770	370	17.1

BFB

DUAL FILTER BOX



Title	Article No.
BFB 500x300	GNGPR168_1086_0
BFB 500x350	GNGPR168_1087_0
BFB 600x350	GNGPR168_1076_0
BFB 925x350	GNGPR168_1088_0
BFB 950x400	GNGPR168_1089_0
BFB 1250x550	GNGPR168_1090_0
BFB 1600x585	GNGPR168_1091_0

Double Filter boxes BFB are used to clean supplied air. They are mounted straight on the AmberAir Compact unit. Completed with exchangeable FMK-type Coarse 60% (G4), Coarse 85% (M5), ePM$_{10}$ 75% (F7) class pocket filters. In the filter box, a pocket filter is mounted in a vertical position with pockets facing upwards. The casing is made of galvanized steel. Possibility to connect pressure switch for the filter pollution measurement.

DIMENSIONS						
Type	A, [mm]	B, [mm]	L, [mm]	W, [mm]	H, [mm]	Weight, [kg]
BFB 500x300	500	300	886	607	650	43.47
BFB 500x350	500	350	984	607	650	46.00
BFB 600x350	600	350	1112	706	650	55.40
BFB 925x350	925	350	1112	1057	653	69.90
BFB 950x400	950	400	1232	1057	653	70.20
BFB 1250x550	1250	550	1364	1357	653	97.20
BFB 1600x585	1600	585	1707	1364	653	112.90

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FILTERS

MPL

Title	Article No.
MPL 642x258x90/F7	ZFEPF068
MPL 894x279x46/F7	ZFEPF161
MPL 1000x279x46 F7	ZFEPF185
MPL 1113x379x46 F7	ZFEPF158
MPL 747x365x46 F7	ZFEPF170
MPL 750x496x46 F7	ZFEPF166
MPL 565x395x46 F7	ZFEPF148
MPL 557x495x46 F7	ZFEPF179
MPL 565x395x46 F7	ZFEPF148
MPL 565x373x46 F7	ZFEPF163
MPL 565x927x46 F7	ZFEPF188
MPL 565x927x90 F7	ZFEPF173
MPL 642x258x90/G4	ZFEPF181
MPL 894x279x46/G4	ZFEPF176
MPL 1000x279x46 G4	ZFEPF183
MPL 1113x379x46 G4	ZFEPF187
MPL 747x365x46 G4	ZFEPF186
MPL 750x496x46 G4	ZFEPF168
MPL 565x395x46 G4	ZFEPF165
MPL 557x495x46 G4	ZFEPF182
MPL 565x395x46 G4	ZFEPF165
MPL 565x373x46 G4	ZFEPF164
MPL 565x927x46 G4	ZFEPF172
MPL 565x927x90 G4	ZFEPF175
MPL 642x258x90/M5	ZFEPF067
MPL 894x279x46/M5	ZFEPF160
MPL 1000x279x46 M5	ZFEPF184
MPL 1113x379x46 M5	ZFEPF159
MPL 747x365x46 M5	ZFEPF169
MPL 750x496x46 M5	ZFEPF167
MPL 565x395x46 M5	ZFEPF147
MPL 557x495x46 M5	ZFEPF180
MPL 565x395x46 M5	ZFEPF147
MPL 565x373x46 M5	ZFEPF162
MPL 565x927x46 M5	ZFEPF171
MPL 565x927x90 M5	ZFEPF174

MPL panel filters with G4/F7/M5 filtration class.
New type principle of fluting and punctuate sticking of pleats ensures low resistance to air flow and a large capacity for dust. Filter material is made of a synthetic multilayer filter material.

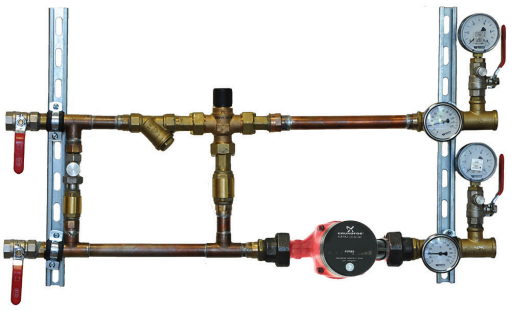
FMK

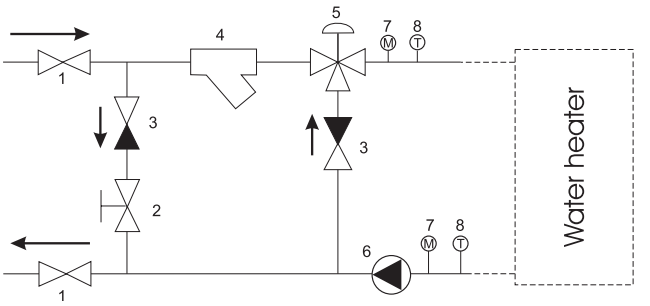
Title	Article No.
FMK 500-250/F7	ZFEFMK048
FMK 692x298/F7	ZFEFMK1065
FMK 742x298/F7	ZFEFMK1068
FMK 742x348/F7	ZFEFMK1071
FMK 540x397x430-6 F7	GFIFMK1075
FMK 540x445x430-6 F7	GFIFMK1076
FMK 640x510x430-7 F7	GFIFMK1077
FMK 990x510x430-7 F7	GFIFMK1079
FMK 990x535x430-7 F7	GFIFMK1080
FMK 643x636x430-7 F7	GFIFMK1078
FMK 818x636x430-9 F7	GFIFMK1081
FMK 500-250/G4	ZFEFMK030
FMK 692x298/G4	ZFEFMK1066
FMK 742x298/G4	ZFEFMK1069
FMK 742x348/G4	ZFEFMK1072
FMK 540x397x430-6 G4	GFIFMK1082
FMK 540x445x430-6 G4	GFIFMK1083
FMK 640x510x430-7 G4	GFIFMK1084
FMK 990x510x430-7 G4	GFIFMK1086
FMK 990x535x430-7 G4	GFIFMK1087
FMK 643x636x430-7 G4	GFIFMK1085
FMK 818x636x430-9 G4	GFIFMK1088
FMK 500-250/M5	ZFEFMK039
FMK 692x298/M5	ZFEFMK1064
FMK 742x298/M5	ZFEFMK1067
FMK 742x348/M5	ZFEFMK1070
FMK 540x397x430-6 M5	GFIFMK1089
FMK 540x445x430-6 M5	GFIFMK1090
FMK 640x510x430-7 M5	GFIFMK1091
FMK 990x510x430-7 M5	GFIFMK1093
FMK 990x535x430-7 M5	GFIFMK1094
FMK 643x636x430-7 M5	GFIFMK1092
FMK 818x636x430-9 M5	GFIFMK1095

Rectangular pocket filters used for air cleaning. Installed in filter boxes. Filtering material can be G4, M5 or F7 class. The filter frame is made of a Aluzinc 185, 25 mm width.

RMG

MIXING POINT





Title	Article No.
RMG3-0,63-4	PRMG0001

The main function of the mixing point is to control, jointly with the control system, the temperature of supplied water in water heaters. Used for water temperature control in heaters, air curtains, etc. The mixing point is used alongside other devices (shut-off damper, temperature sensor, control system) in order to protect the heaters from freezing.

COMPONENTS

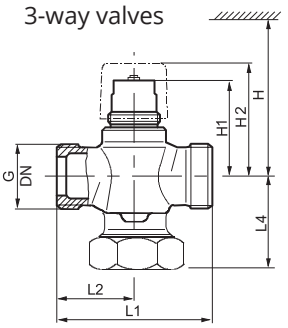
1 - in, out valves
2 - pressure reducing valve
3 - backflow preventing valve
4 - filter
5 - 3-way valve
6 - rotary pump
7 - pressure gauge
8 - thermometer

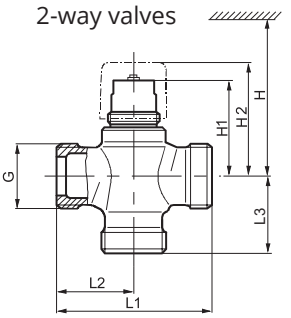
TECHNICAL DATA

Type	Type of 3-way valve	Recomended actuator for water valve	Type of rotary pump	DN [mm]
RMG3-0,63-4E	VXP45.10-0,6	SSB	UPBAS 25-4	15

The company reserves the right to make changes of technical data without prior notice

2 AND 3 WAY VALVES





Title	Article No.
VVP45.10-0.63	PRMV005

Used in ventilation systems to control the temperature of supplied water in water heaters. For fan coil units, small re-heaters and small re-coolers.

VVP45... 2-way	VXP45... 3-way	DN	Connection	kvs A→AB [m³/h]	kvs 1) B→AB [m³/h]	Sv
VVP45.10-0.63	VXP45.10-0.63	10	G½B	0,63	0,44	> 50

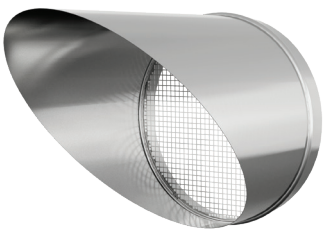
1) - Valid for 3-way version only

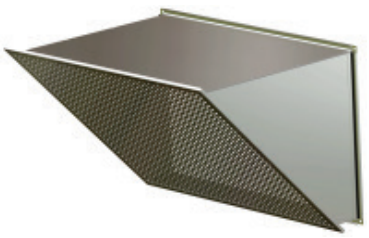
DN = Nominal size
k_{vs} = Nominal flow rate of cold water (5...30 °C) through the fully open valve (H_{100}) by a differential pressure of 100 kPa (1 bar)
S_v = Range ability k_{vs} / k_{vr}
k_{vr} = Smallest k_v value, at which the flow characteristic tolerances can still be maintained, by a differential pressure of 100 kPa (1 bar)

TECHNICAL DATA	
Medium temperature	1...110 °C, short-term max. 120 °C
Nominal stroke	5.5 mm
Permissible media	low temperature hot water, chilled water, water with anti-freeze recommendation: water treatment to VDI 2035

ABV / OCR

OUTLET INTAKE COVER





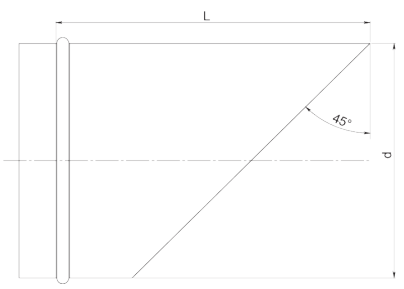
ABV

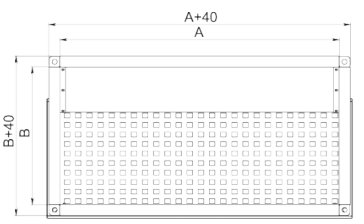
Title	Article No.
ABV 315	GFDABV0315
ABV 355	GFDABV0355
ABV 400	GFDABV0400
ABV 500	GFDABV0500
ABV 630	GFDABV0630
ABV 710	GFDABV0710

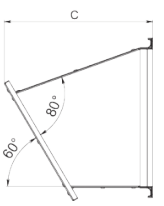
OCR

Title	Article No.
OCR 500x250	GNGPR168_734_0
OCR 695X355	GNGPR168_1142_0
OCR 700X300	GNGPR168_735_0
OCR 700X485	GNGPR168_1143_0
OCR 740X520	GNGPR168_1144_0
OCR 750X300	GNGPR168_736_0
OCR 750X350	GNGPR168_737_0
OCR 1065X520	GNGPR168_1145_0
OCR 1135X520	GNGPR168_1146_0
OCR 1440X655	GNGPR168_1147_0
OCR 1805X655	GNGPR168_1148_0

Outlet-intake cover is designed for protection of an outdoor ventilation unit from the precipitation and large particles. Material is galvanized steel.







DIMENSIONS						
Type	d, [mm]	L, [mm]	A, [mm]	B, [mm]	C, [mm]	Weight, [kg]
ABV 315	315	415	-	-	-	1.89
ABV 355	355	435	-	-	-	2.10
ABV 400	400	500	-	-	-	2.73
ABV 500	500	600	-	-	-	3.94
ABV 630	630	730	-	-	-	5.78
ABV 710	710	800	-	-	-	6.97
OCR 500x250	-	-	500	250	266	3.20
OCR 695X355	-	-	694.5	354	323	5.18
OCR 700X300	-	-	700	300	290	4.43
OCR 700X485	-	-	701.5	484	379	6.39
OCR 740X520	-	-	737.5	521	420	7.24
OCR 750X300	-	-	750	300	290	4.65
OCR 750X350	-	-	750	350	315	5.08
OCR 1065X520	-	-	1062.5	521	420	9.06
OCR 1135X520	-	-	1133.5	521	420	9.46
OCR 1440X655	-	-	1439.5	654	478	13.00
OCR 1805X655	-	-	1804.5	654	478	15.22

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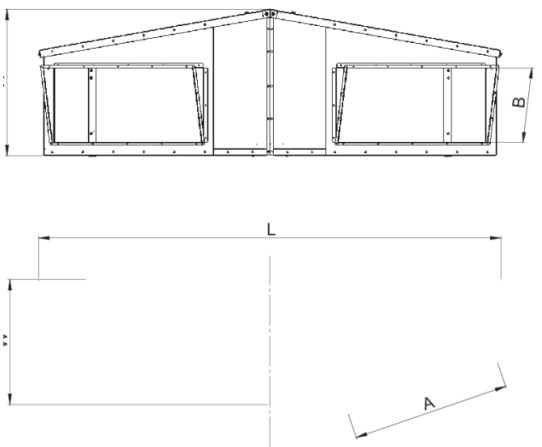
DUAL RECTANGULAR OUTLET COVER



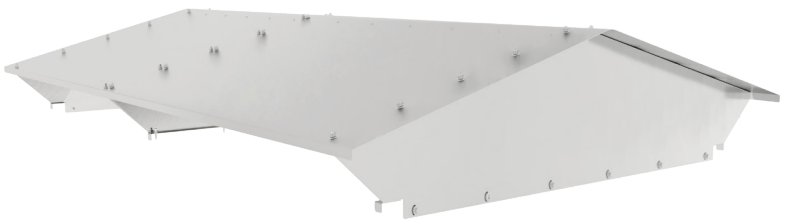
Title	Article No.
OCD 1CXP_45	GNGPR168_1077_0
OCD 2CXP_45	GNGPR168_1092_0
OCD 3CXP_45	GNGPR168_1075_0
OCD 4CXP_45	GNGPR168_1093_0

Outlet-intake cover is designed for protection of an outdoor ventilation unit from the precipitation and large particles.

DIMENSIONS						
Type	L, [mm]	W, [mm]	H, [mm]	A, [mm]	B, [mm]	Weight, [kg]
OCD 1CXP_45	1840	500	585	630	315	18.1
OCD 2CXP_45	2327	610	662.5	920	368	23.6
OCD 3CXP_45	2532	610	682.5	980	368	27.7
OCD 4CXP_45	2734	610	797.5	980	420	32.0

ROOF

ROOF FOR COMPACT CXH/CXP



Title	Article No.
Roof for 1 CXH	GNGPR168_1127_0
Roof for 2 CXH	GNGPR168_1128_0
Roof for 3 CXH	GNGPR168_1129_0
Roof for 4 CXH	GNGPR168_1130_0
Roof for 5 CXH	GNGPR168_1131_0
Roof for 6 CXH	GNGPR168_1132_0
Roof for 7 CXH	GNGPR168_1133_0
Roof for 1 CXP	GNGPR168_1072_0
Roof for 2 CXP	GNGPR168_1074_0
Roof for 3 CXP	GNGPR168_1098_0
Roof for 4 CXP	GNGPR168_1099_0

DIMENSIONS				
Type	L, [mm]	W, [mm]	H, [mm]	Weight, [kg]
Roof for 1 CXH	2000	1145	245	26.0
Roof for 2 CXH	2400	1155	245	31.6
Roof for 3 CXH	2555	1190	245	34.2
Roof for 4 CXH	2555	1515	245	42.4
Roof for 5 CXH	2555	1585	245	44.2
Roof for 6 CXH	3350	1895	270	68.4
Roof for 7 CXH	3415	2260	270	82.9
Roof for 1 CXP	1920	1845	196	31.0
Roof for 2 CXP	2125	2345	240	59.9
Roof for 3 CXP	2120	2541	260	65.5
Roof for 4 CXP	2420	2740	277	72.5

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