

AmberAir Compact

Product catalogue



SALDA
SMART WAY TO HANDLE THE AIR



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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 m³/h;
- › Selectable components.



Reliability:

- › Tested at conditions -35° C to +40° C, RH90%;
- › Eurovent certification.



Top quality:

- › SD50+ casing: D1, L1, F9, T2, TB1.



Hygienic level design:

- › High draining efficiency—98% (5 l/m² at 20 min);
- › Convenient servicing.



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!

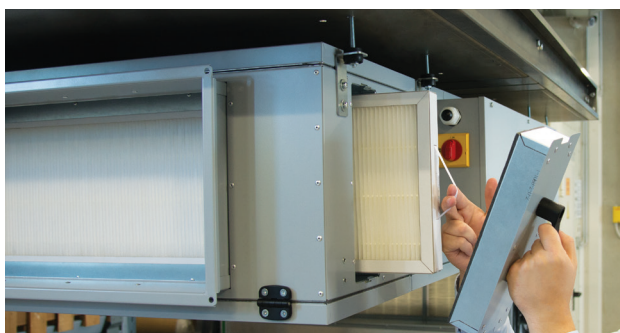
You will easily find a place for an AmberAir Compact:

- › 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.

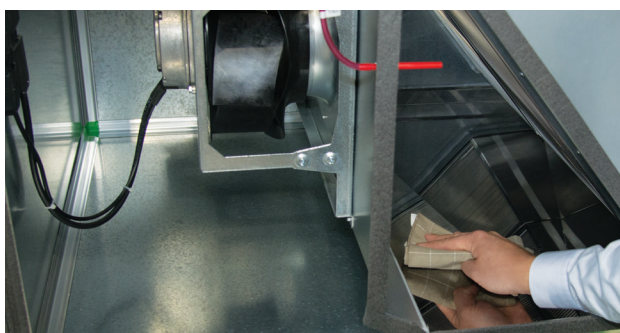
SERVICE FRIENDLY DESIGN

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 maintenance 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

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 CO₂, RH, presence detectors.





Connection to Ethernet:
via MB-Gateway



Control panel



Demand ready control:
integrated RH sensor
(CXP) or optional CO₂ 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





CO₂ 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°C - $+40^{\circ}\text{C}$, 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.



AmberAir Compact CXV



FEATURES

- › Customized compact air handling unit with selectable components.
- › Top quality SD50+ casing: the best thermal bridging (TB1) 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.

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. A SD50+ casing with TB1 class thermal bridging and L1 class airtightness proves to be the best casing for compact units on the market.

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 temperature without preheater (Salda Antifrost** off):	-5°/+40° C*
Outdoor air temperature without preheater (Salda Antifrost** on):	-15°/+40° C
Outdoor air temperature with 100% by-pass***:	-23°/+40° C
Outdoor air temperature with segmental by-pass***:	-30°/+40° C
Outdoor air temperature limits with a selected pre-heater on an air duct:	-40°/+40° C
Outdoor air max humidity:	90%
Temperature limits of an extracted air:	+15°/+40° C
Extract air max humidity:	60%
Maximum room temperature for installing the unit:	+40° C

* – when relative humidity of extracted air is lower than 35 %.

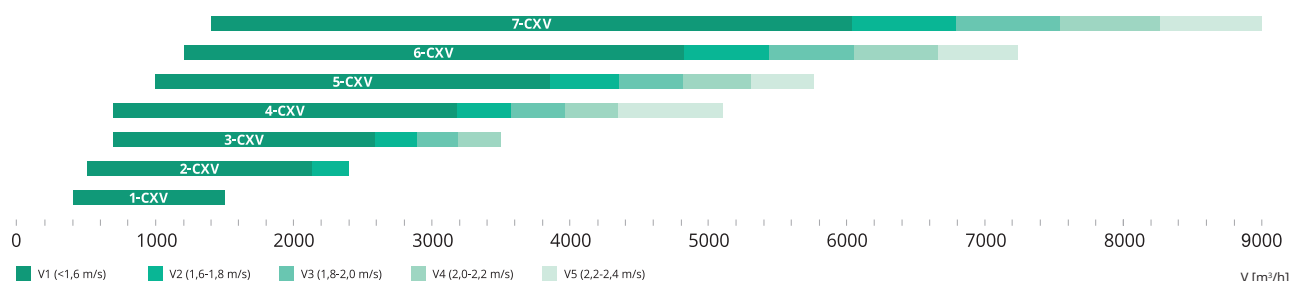
** – uses dis-balancing of the airflow and it may cause negative pressure in premises.

*** – depends on AHU configuration.



L1

AIR FLOW DIAGRAM



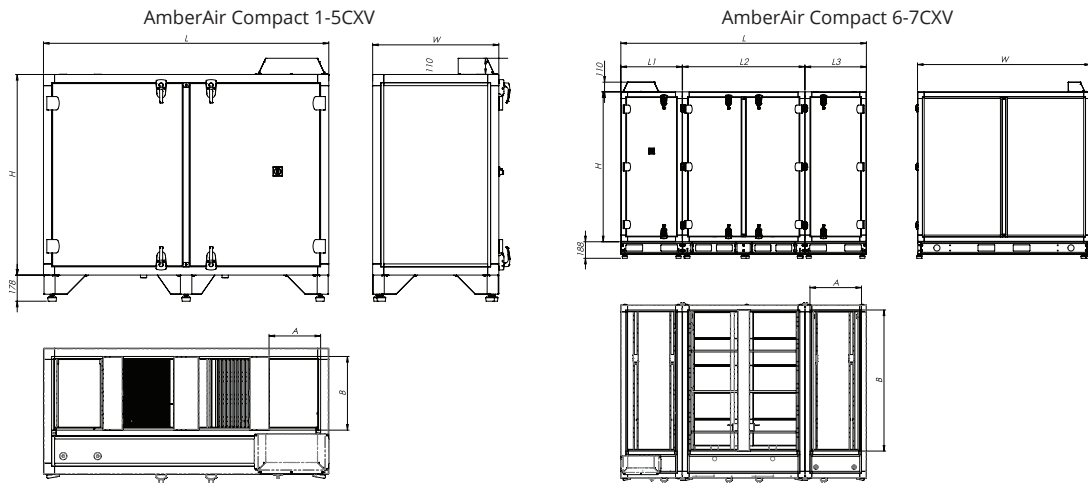
PRODUCT CODE

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.

AmberAir Compact CXV

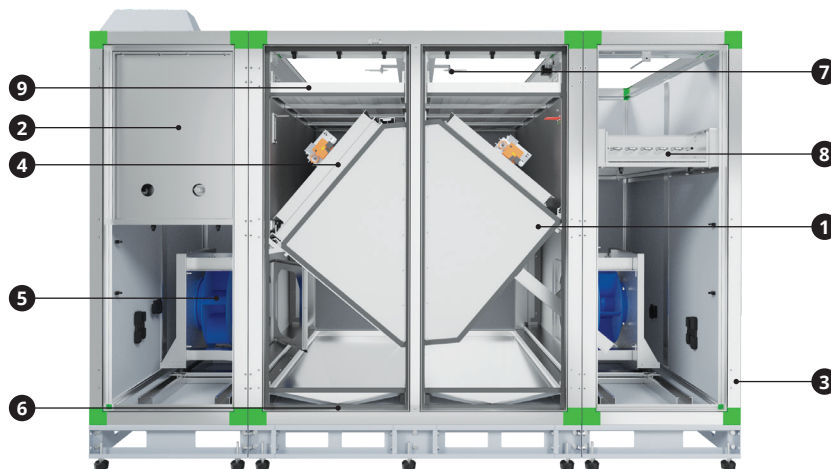
DIMENSIONS



[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.

- › 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:

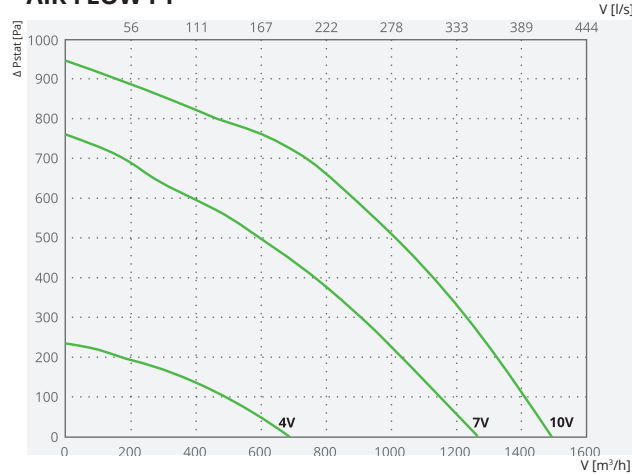
- › Stitched pocket filters (external box) or panel filters (integrated);
- › Class: Coarse 65% (G4), ePM₁₀ 55% (M5), ePM₁ 70% (F7);
- › Filter pollution monitoring: pressure switches.

AmberAir Compact CXV

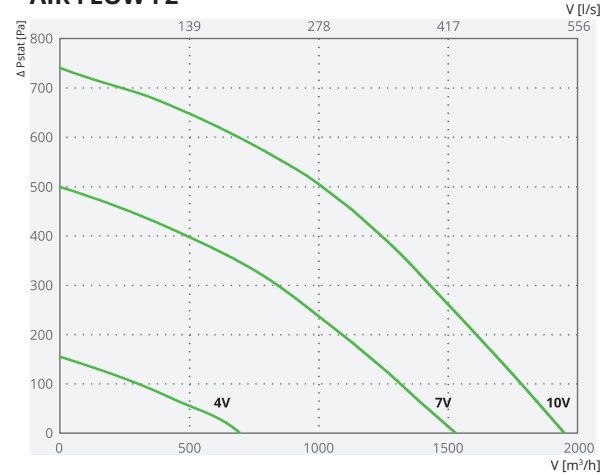
AmberAir Compact 1-CXVE/W

Performance
(with clean filter)

AIR FLOW F1



AIR FLOW F2

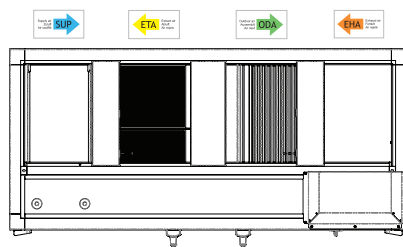


TEMPERATURE EFFICIENCY



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

- Exhaust air
- Extract air
- Supply air
- Outdoor air

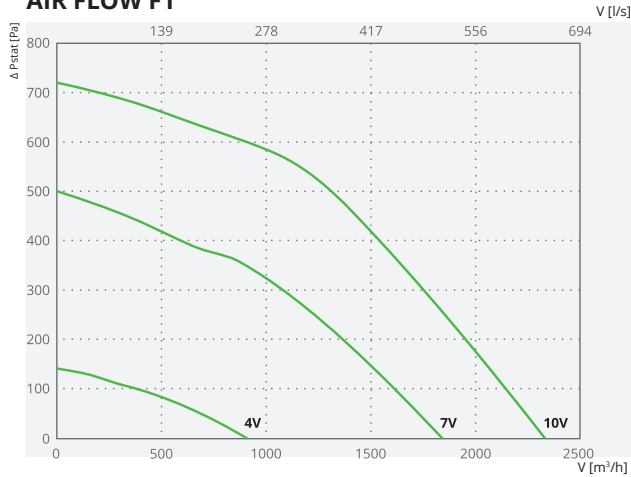
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]		~1, 230			-	-
		[kW]	2.00	3.00	2.00	3.00	-	-
Fans	phase/voltage	[50Hz/VAC]		~1, 230				
		[kW/A]	0.38/2.50		0.47/3.10		0.38/2.50	0.47/3.10
supply	fan speed	[min ⁻¹]	3370		2530		3370	2530
		[kW/A]	0.38/2.50		0.47/3.10		0.38/2.50	0.47/3.10
Max power consumption	phase/voltage	[50Hz/VAC]		~1, 230				
		[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)				

AmberAir Compact CXV

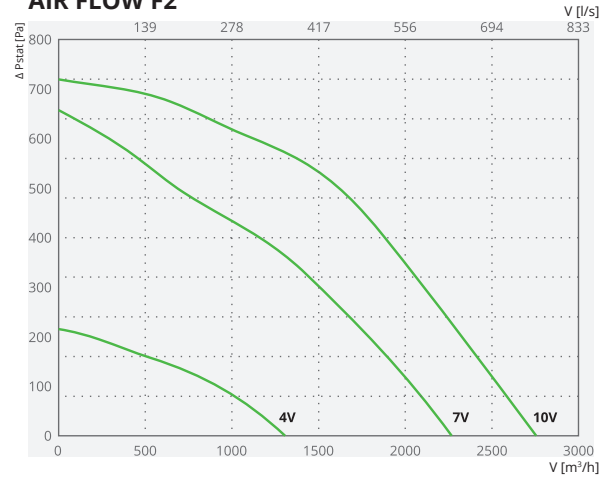
AmberAir Compact 2-CXVE/W

— Performance
(with clean filter)

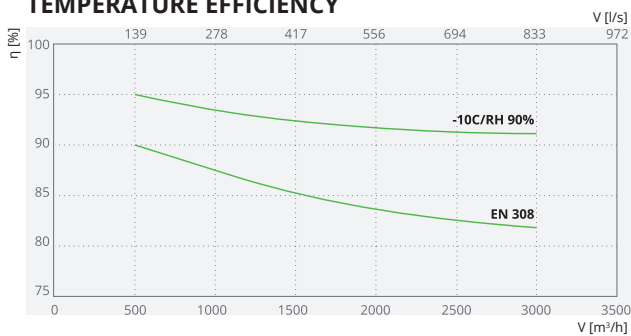
AIR FLOW F1



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

- Exhaust air
- Extract air
- Supply air
- Outdoor air

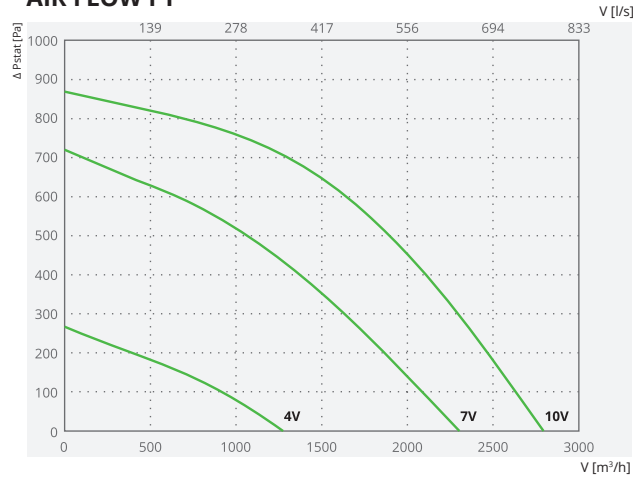
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]		~1, 230			-	-
		[kW]	3.00	3.60	3.00	3.60	-	-
Fans	phase/voltage	[50Hz/VAC]		~1, 230				
		[kW/A]	0.47/3.10		0.715/3.10		0.47/3.10	0.715/3.10
exhaust	fan speed	[min ⁻¹]	2530		2800		2350	2800
		[kW/A]	0.47/3.10		0.715/3.10		0.47/3.10	0.715/3.10
supply	fan speed	[min ⁻¹]	2530		2800		2530	2800
		[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
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

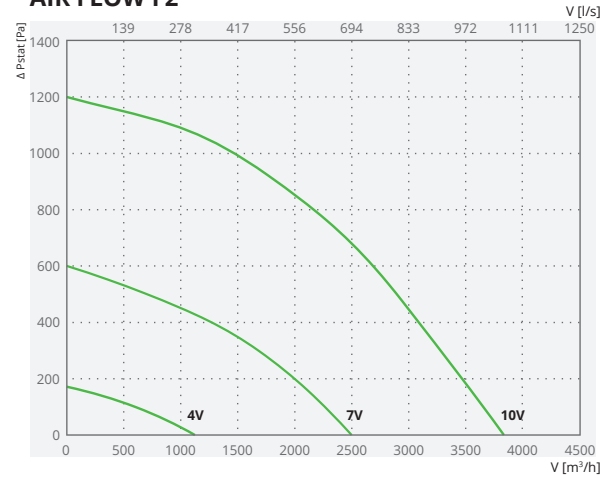
AmberAir Compact 3-CXVE/W

Performance
(with clean filter)

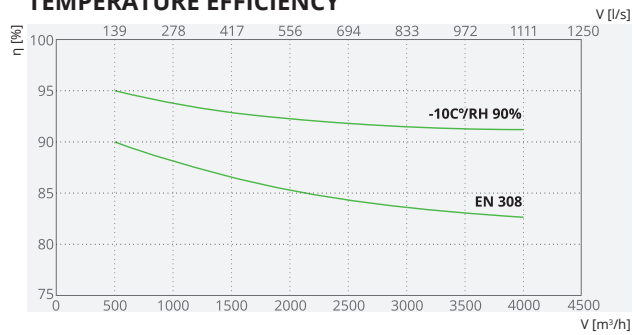
AIR FLOW F1



AIR FLOW F2

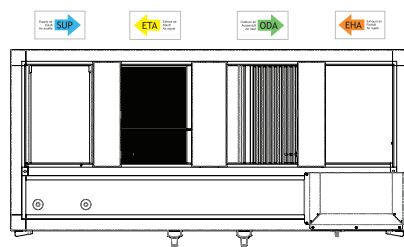


TEMPERATURE EFFICIENCY



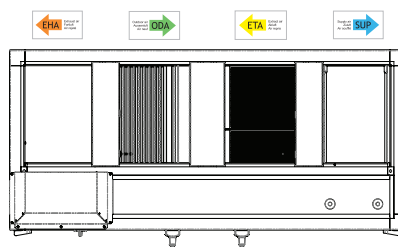
Temperature efficiency (-10°C/RH 90%):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



View from inspection side

Exhaust air
Extract air
Supply air
Outdoor air

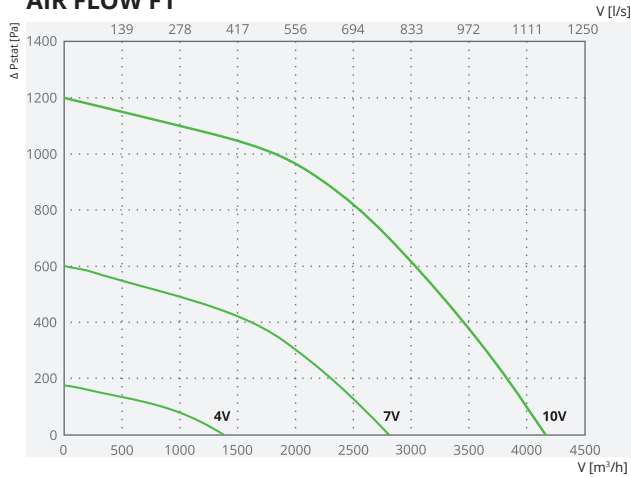
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]		~3, 400			-	-
		[kW]	3.60	6.00	3.60	6.00	-	-
Fans	phase/voltage	[50Hz/VAC]		~1, 230				
		[kW/A]	0.715/3.10		1.35/6.70		0.715/3.10	1.35/6.70
exhaust	fan speed	[min ⁻¹]	2800		2920		2800	2920
		[kW/A]	0.715/3.10		1.35/6.70		0.715/3.10	1.35/6.70
supply	fan speed	[min ⁻¹]	2800		2920		2800	2920
		[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
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)				

AmberAir Compact CXV

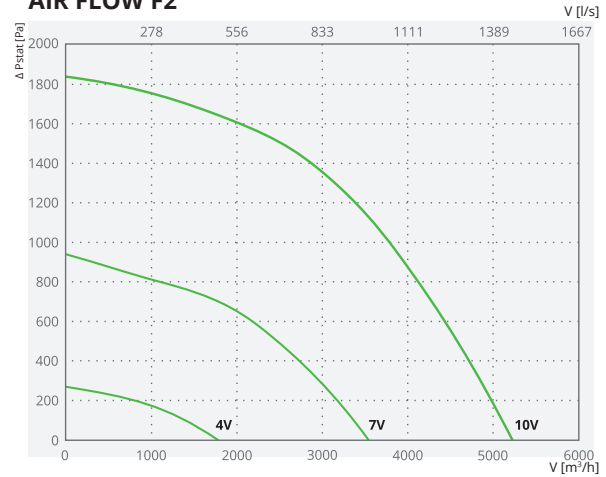
AmberAir Compact 4-CXVE/W

— Performance
(with clean filter)

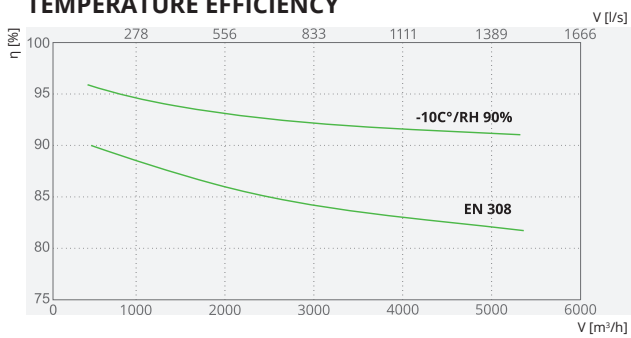
AIR FLOW F1



AIR FLOW F2



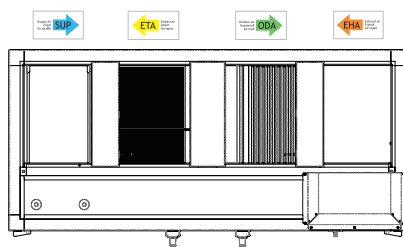
TEMPERATURE EFFICIENCY



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

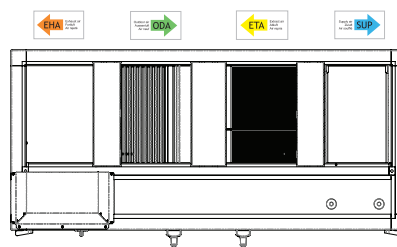
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



View from inspection side

- Exhaust air
- Extract air
- Supply air
- Outdoor air

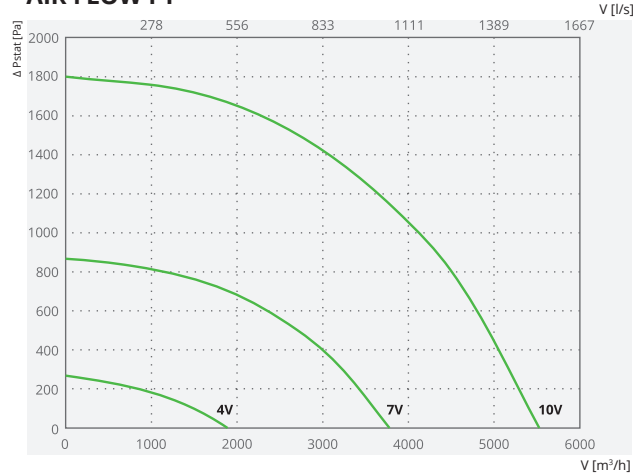
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]		~3, 400			-	-
		[kW]	6.00	7.20	6.00	7.20	-	-
Fans	phase/voltage	[50Hz/VAC]	~1, 230		~3, 400		~1, 230	~3, 400
exhaust	power/current	[kW/A]	1.35/6.70		2.50/4.00		1.35/6.70	2.50/4.00
	fan speed	[min ⁻¹]	2920		3640		2920	3640
supply	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

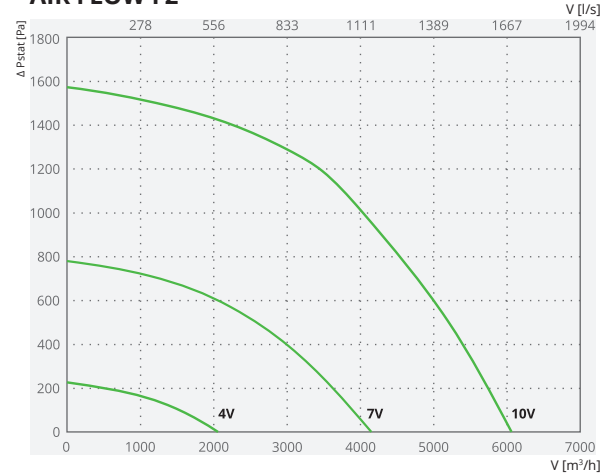
AmberAir Compact 5-CXVE/W

Performance
(with clean filter)

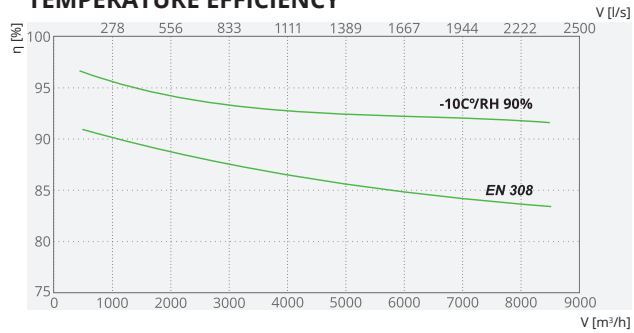
AIR FLOW F1



AIR FLOW F2



TEMPERATURE EFFICIENCY



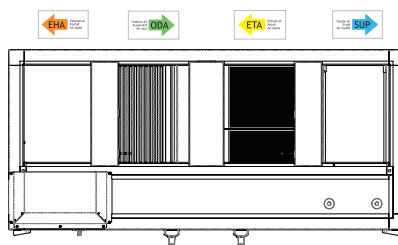
Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



View from inspection side

Exhaust air
 Extract air
 Supply air
 Outdoor air

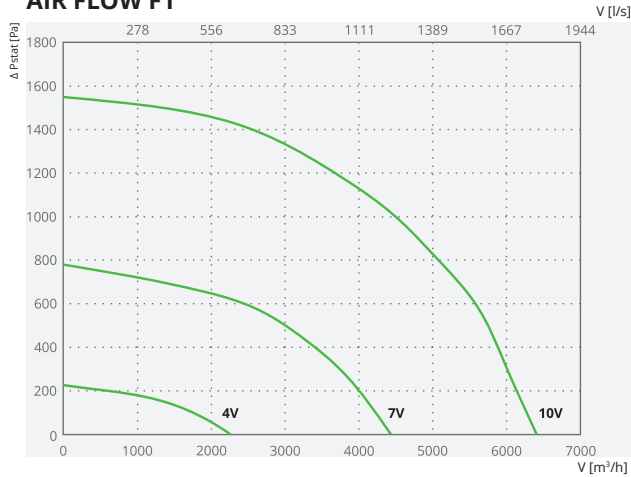
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]		~3, 400			-	-
		[kW]	7.20	9.00	7.20	9.00	-	-
Fans	phase/voltage	[50Hz/VAC]		~3, 400				
		[kW/A]			2.50/4.00			
exhaust	power/current	[min ⁻¹]	3640		2970		3640	2970
		[kW/A]			2.50/4.00			
supply	power/current	[min ⁻¹]	3640		2970		3640	2970
		[kW/A]			2.50/4.00			
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)				

AmberAir Compact CXV

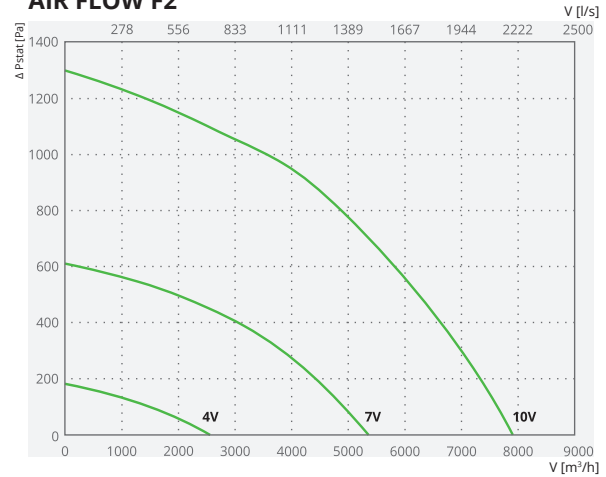
AmberAir Compact 6-CXVE/W

Performance
(with clean filter)

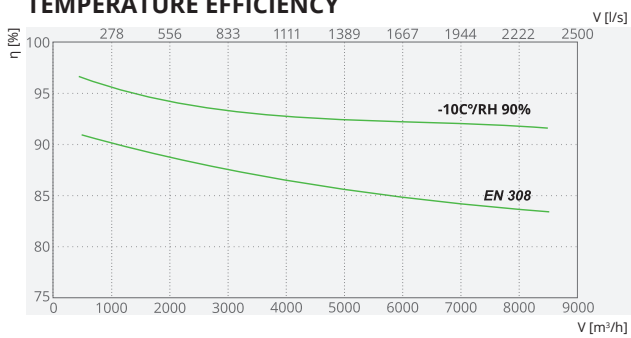
AIR FLOW F1



AIR FLOW F2



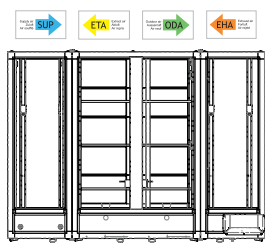
TEMPERATURE EFFICIENCY



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

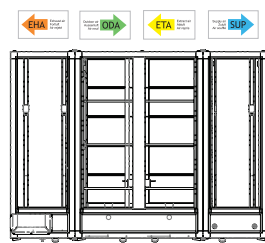
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

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

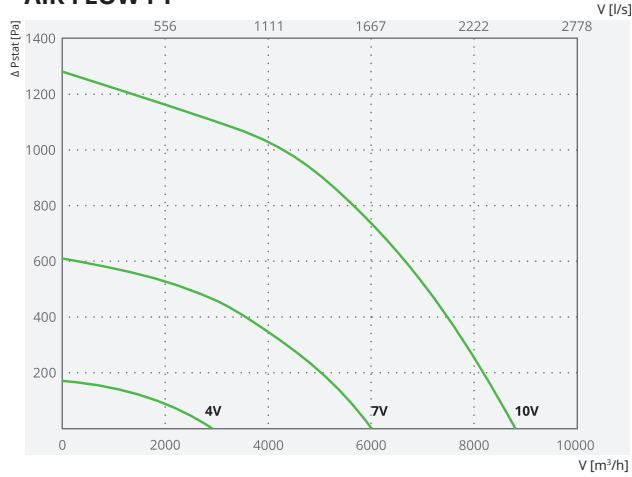
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]		~3, 400			-	-
		[kW]		9.00			-	-
Fans	phase/voltage	[50Hz/VAC]			~3, 400			
exhaust	power/current	[kW/A]	2.50/4.00		2.90/4.80		2.50/4.00	2.90/4.80
	fan speed	[min ⁻¹]	2970		2120		2970	2120
supply	power/current	[kW/A]	2.50/4.00		2.90/4.80		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

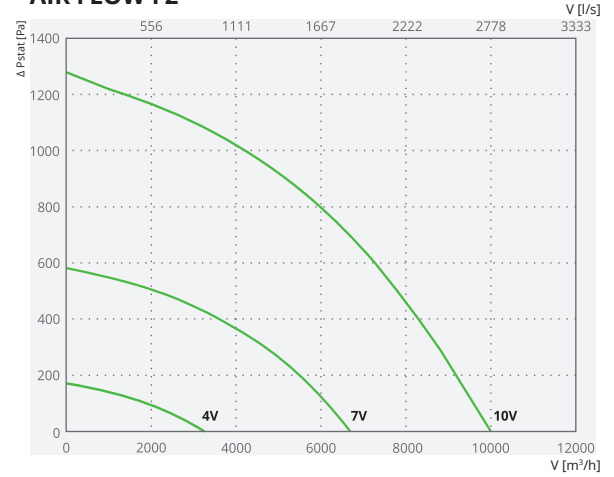
AmberAir Compact 7-CXVE/W

Performance
(with clean filter)

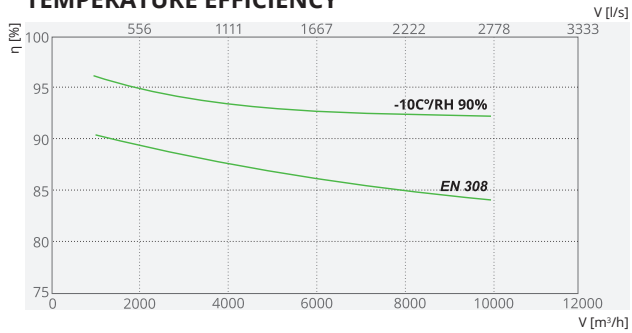
AIR FLOW F1



AIR FLOW F2

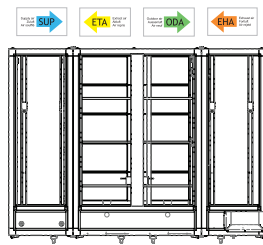


TEMPERATURE EFFICIENCY



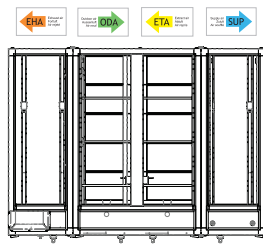
Temperature efficiency (-10°C/RH 90%):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



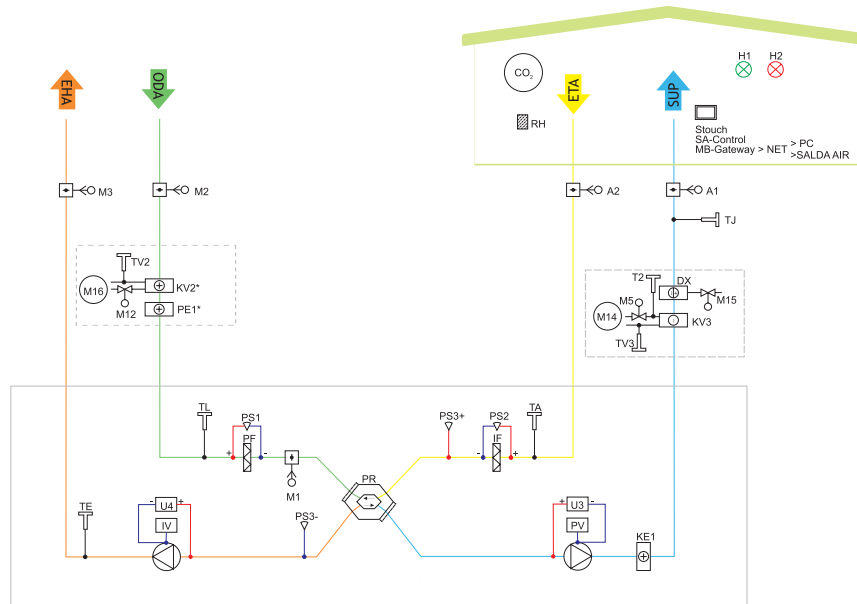
View from inspection side

- 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)				

AmberAir Compact CXV

AmberAir Compact 1-7CXVE VERSIONS WITH ELECTRICAL HEATER



List of Components

PR	Plate heat exchanger	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
CO₂	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

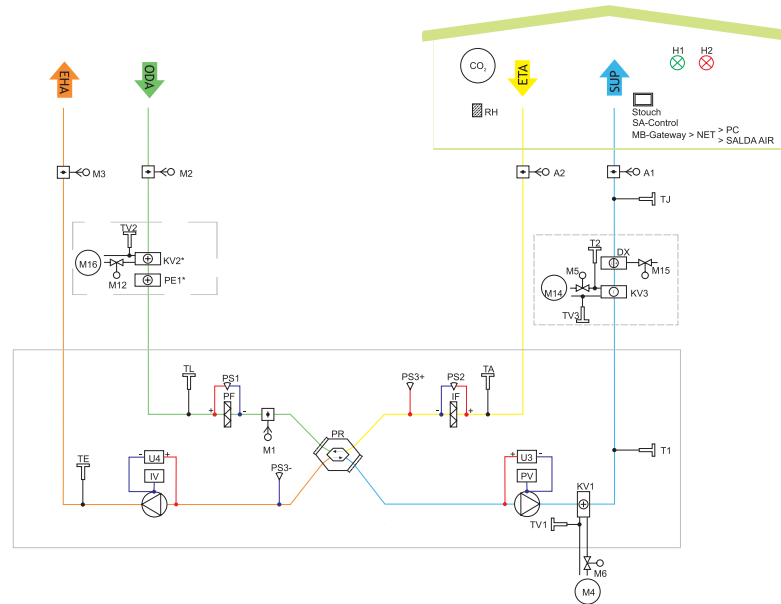
ODA	Outdoor air	ETA	Extract air	EHA	Exhaust air	SUP	Supply air		Ventilated premises
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* - only one preheater can be connected.

** - only one cooler can be connected.

AmberAir Compact CXV

AmberAir Compact 1-7CXVW VERSIONS WITH WATER HEATER



List of Components

PR	Plate heat exchanger	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
CO₂	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

	Outdoor air		Extract air		Exhaust air		Supply air		Ventilated premises
---	-------------	---	-------------	---	-------------	--	------------	---	---------------------

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

AmberAir Compact CXV

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 p. 57	 TL-WR802N PRGPU105 p. 58	 Stouch PRGPU051 p. 59	 Flex MCB (EN) PRGPU107 p. 60	 S-RC02-F2 ZAKKT0048 S-RC02 ZAKKT0049 p. 61	 S-KFF-U ZAKKT0051 S-KFF-U-D-F2 ZAKKT0050 p. 62	 TJ1TE-NTC10K3B-4.5x90P-2x6,0mPVC-FL PJUT0071 TJ1-NTC10k3B-6x240S-2x2,0mPVC-CF PJUT0076 p. 63	 UG3A40 ZAKKT0110 p. 64	 IR24-P ZAKJT019 IR24-PC ZAKJT020 p. 65	 PATROL 701 ZAKJT021 p. 66	 SPD-G-6K0 ZAKKT0125 S-1141 ZAKKT0047 p. 67	 Circular or rectangular connection 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	p. 81	✓	✓	✓	✓	✓	✓	✓
	LF 230	ZAKP0039		✓	✓	✓	✓	✓		
	NF230A	ZAKP0051							✓	✓
ENERGY ANALYZERS				1-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	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-CXV	2-CXV	3-CXV	4-CXV	5-CXV	6-CXV	7-CXV
	AVA 315	GSIAVA006	p. 83	✓						
	AVA 400	GSIAVA007			✓	✓				
	AVA 500	GSIAVA015					✓			
	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	p. 85	✓						
	AVA-DX 400	GSIAVA011			✓	✓				
	AVA-DX 500	GSIAVA012					✓			
	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	p. 94	✓						
	SSP 500x350x1000 - 2/100	GSOSSP216_1015			✓					
	SSP 600x350x1000 - 3/100	GSOSSP0216_024				✓				
	SSP 925x350x1000 - 5/100	GSOSSP216_1016					✓			
	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	p. 97	✓						
	LJ-E 50-35	GLJLJ/E003			✓					
	LJ-E 60-35	GLJLJ/E008				✓				
	LJ-E 92.5-35	GLJLJ/E006					✓			
	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	p. 98	✓						
	LSVF 400	GVELSVF007			✓	✓				
	LSVF 500	GVELSVF009					✓			
	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	p. 99	✓						
	SSK 500-350	GSKSSK015			✓					
	SSK 600-350	GSKSSK022				✓				
	SSK 925-350	GSKSSKM004					✓			
	SSK 950-400	GSKSSKM005						✓		
	SSK 1250-550	GSKSSKM006							✓	
	SSK 1600-585	GSKSSKM007								✓

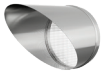
AmberAir Compact CXV

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								✓	

AmberAir Compact CXV

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

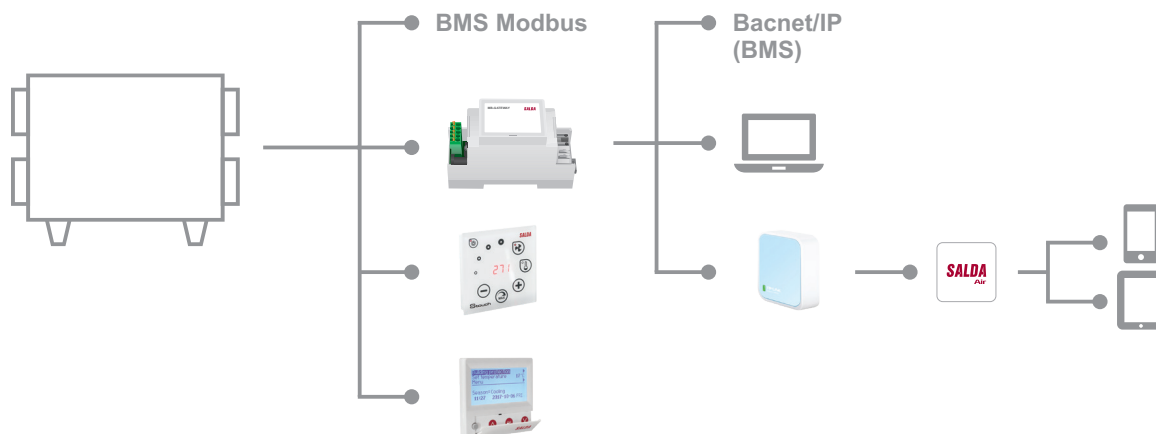
Description of the functions	MCB	
	E	W
System modes	●	
BOOST function	●	
Cold/heat recovery	●	
Supply air temperature control and compensation	●	
Weekly schedule	●	
Holiday schedule	●	
Night cooling function	●	
CO2 level reduction function	○	
RH level reduction	○	
Dryness protection	○	
Constant air pressure	●	
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 configuration	●	
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 sensor	●	
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 filter protection according to pressure relays	●	
Air filters timer	●	

AmberAir Compact CXV

FUNCTIONS

Description of the functions	MCB	
	E	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 configured 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



APPLICATION

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

DESCRIPTION

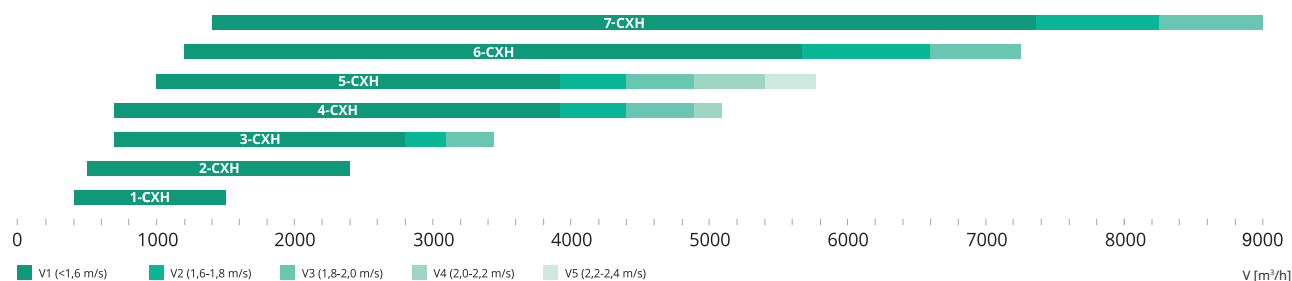
The AmberAir Compact CXH is designed to fulfil a client's desire for a reliable, efficient, commercial compact air handling unit with the flexibility of modular units. Certified selection software of VentMaster allows the design of a desired unit from a set of different components: fans, heaters, by-pass dampers, filters, etc. A SD50+ casing with TB1 class thermal bridging and L1 class airtightness proves to be the best casing for compact units on the market.

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.

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 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.

FEATURES

- › Customized compact air handling unit with selectable components.
- › Top quality SD50+ casing: the best thermal bridging (TB1) 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.

OPERATING CONDITIONS

Outdoor air temeperature without preheater (Salda Antifrost** off):	-5°/+40° C*
Outdoor air temeperature without preheater (Salda Antifrost** on):	-15°/+40° C
Outdoor air temperature with 100% by-pass***:	-23°/+40° C
Outdoor air temperature with segmental by-pass***:	-30°/+40° C
Outdoor air temperature limits with a selected pre-heater on an air duct:	-40°/+40° C
Outdoor air max humidity:	90%
Temperature limits of an extracted air:	+15°/+40° C
Extract air max humidity:	60%
Maximum room temperature for installing the unit:	+40° C

* – when relative humidity of extracted air is lower than 35 %.

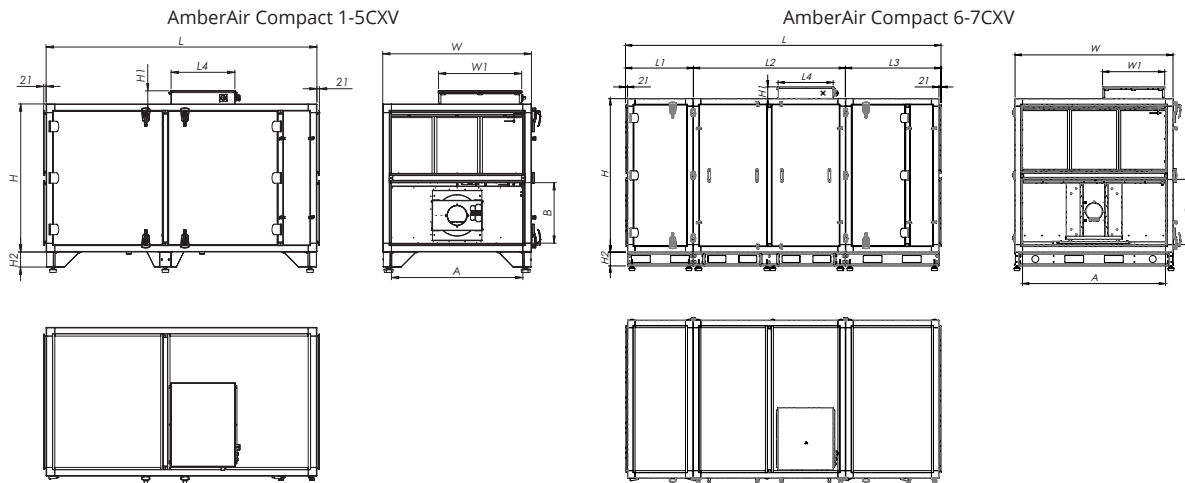
** – uses dis-balancing of the airflow and it may cause negative pressure in premises.

*** – depends on AHU configuration.



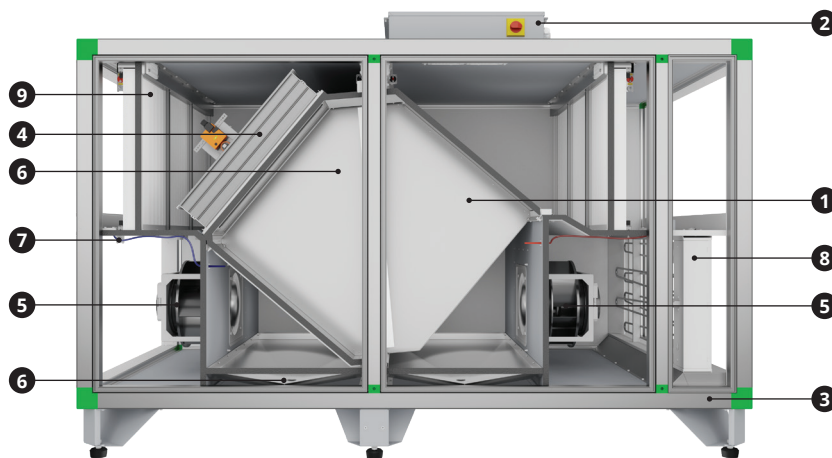
AmberAir Compact CXH

DIMENSIONS



Unit	[mm]												
	L	L1	L2	L3	L4	W	W1	H	H1	H2	A	B	
AmberAir Compact 1-CXH	1796	-	-	-	550	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	-	-	-		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:

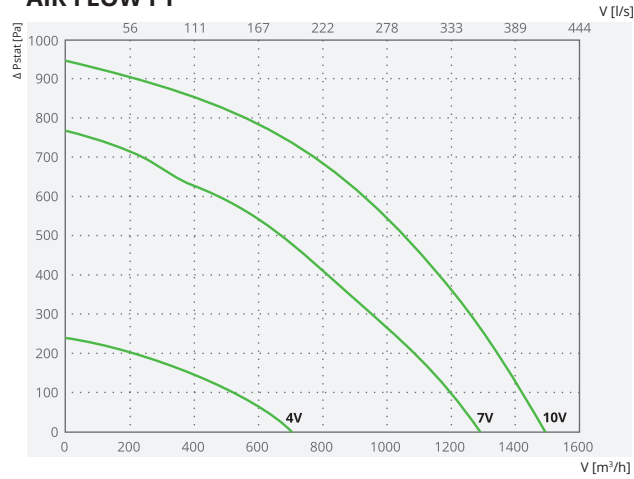
- › Stitched pocket filters (external box) or panel filters (integrated);
- › Class: Coarse 65% (G4), ePM₁₀ 55% (M5), ePM₁ 70% (F7);
- › Filter pollution monitoring: pressure switches and timer.

AmberAir Compact CXH

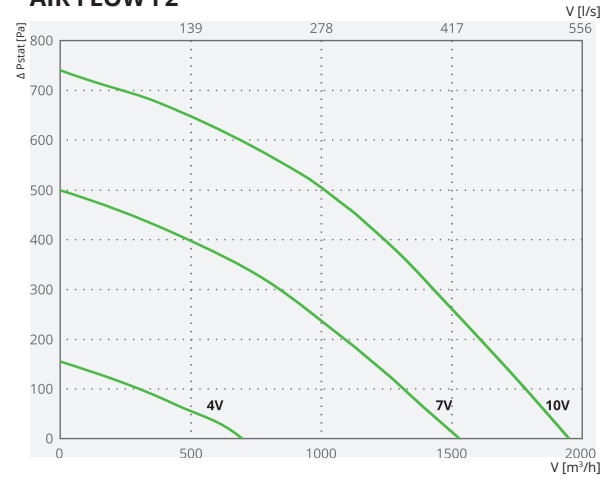
AmberAir Compact 1-CXHE/W

Performance
(with clean filter)

AIR FLOW F1



AIR FLOW F2

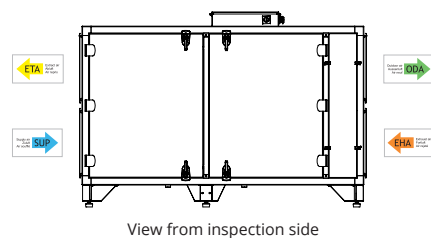


TEMPERATURE EFFICIENCY

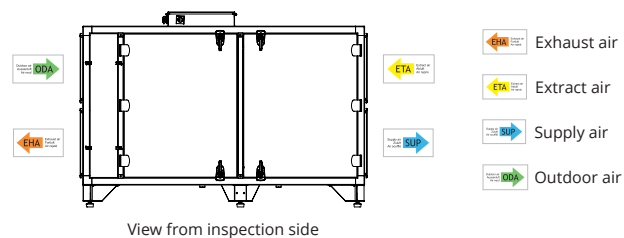


Temperature efficiency (-10°C/RH 90%):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



Air supply side (R-right)



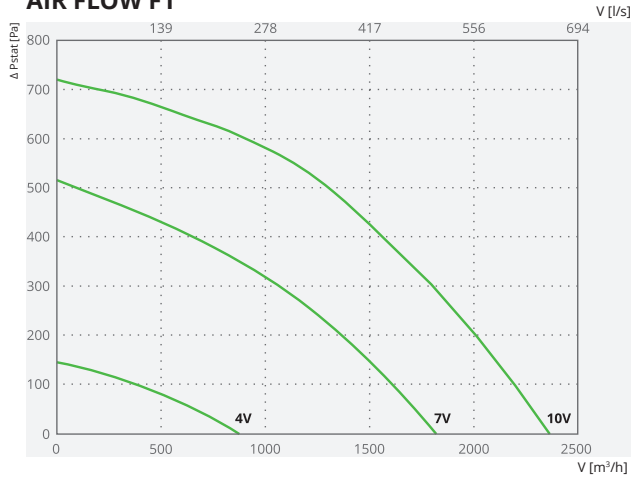
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]		~1, 230			-	-
		[kW]	2.00	3.00	2.00	3.00	-	-
Fans	phase/voltage	[50Hz/VAC]		~1, 230				
exhaust	power/current	[kW/A]			0.38/2.50	0.47/3.10	0.38/2.50	0.47/3.10
	fan speed	[min ⁻¹]			3370	2530	3370	2530
supply	power/current	[kW/A]			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)				

AmberAir Compact CXH

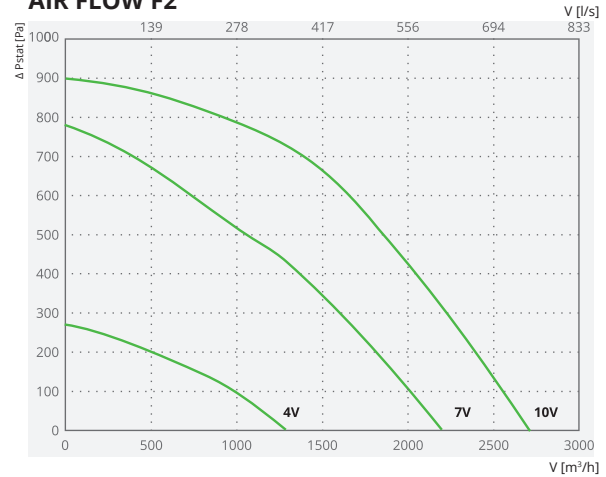
AmberAir Compact 2-CXHE/W

— Performance
(with clean filter)

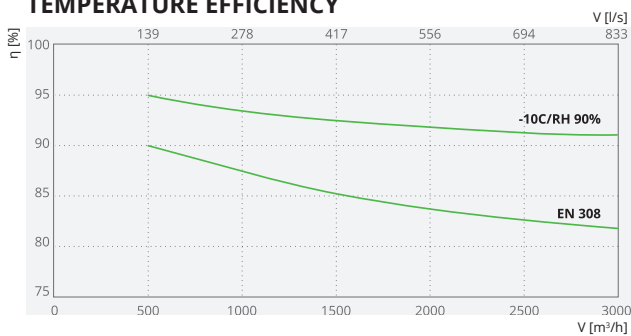
AIR FLOW F1



AIR FLOW F2



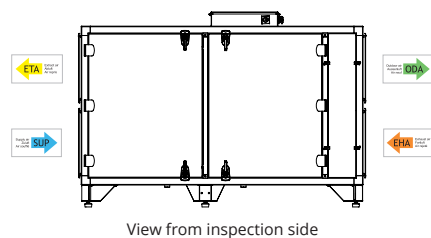
TEMPERATURE EFFICIENCY



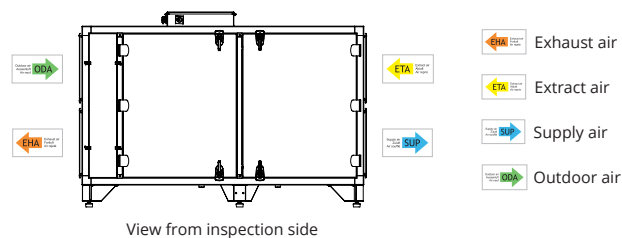
Temperature efficiency (-10°C/RH 90%):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

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

Air supply side (L-left)



Air supply side (R-right)



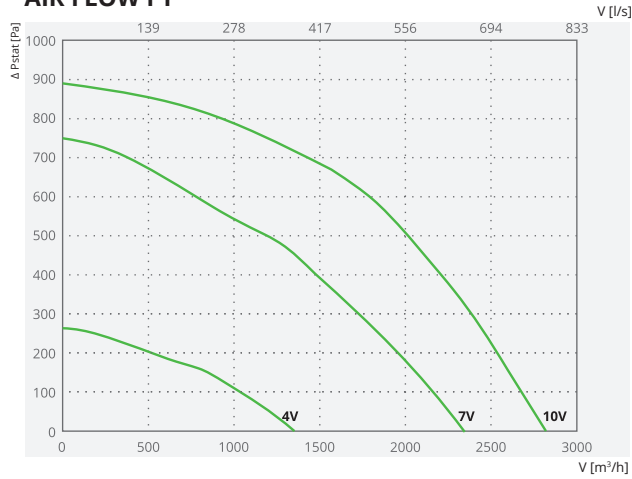
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]						
		[kW]	3.00	3.60	3.00	3.60	-	-
Fans	phase/voltage	[50Hz/VAC]						
exhaust	power/current	[kW/A]	0.47/3.10		0.715/3.10		0.47/3.10	0.715/3.10
	fan speed	[min ⁻¹]	2530		2800		2350	2800
supply	power/current	[kW/A]	0.47/3.10		0.715/3.10		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]						
Control board								
Filter class	exhaust/supply							
Housing insulation, polyurethane		[mm]						
Colour	RAL	Grey						
Weight (net, without packing)		[kg]	320		325		318	323
Comply with ERP								
Operation								

AmberAir Compact CXH

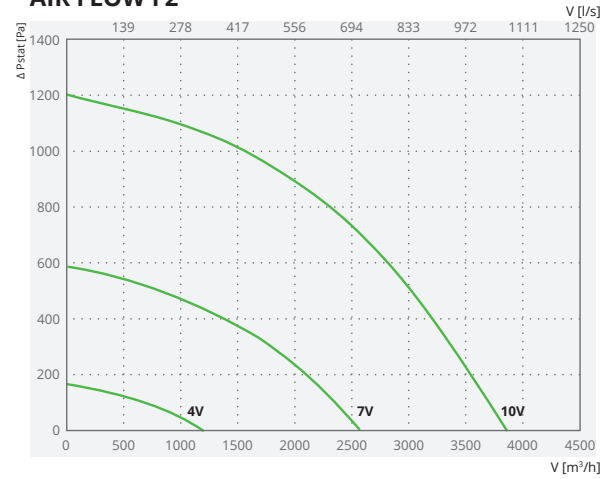
AmberAir Compact 3-CXHE/W

Performance
(with clean filter)

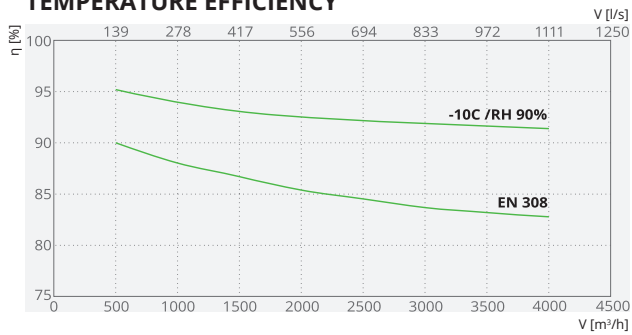
AIR FLOW F1



AIR FLOW F2

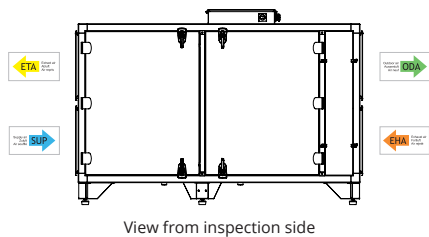


TEMPERATURE EFFICIENCY



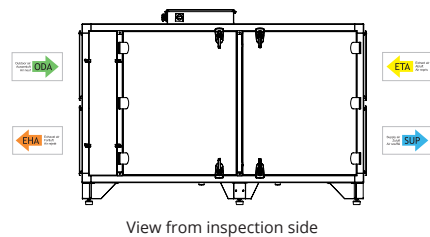
Temperature efficiency (-10°C/RH 90%):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



View from inspection side



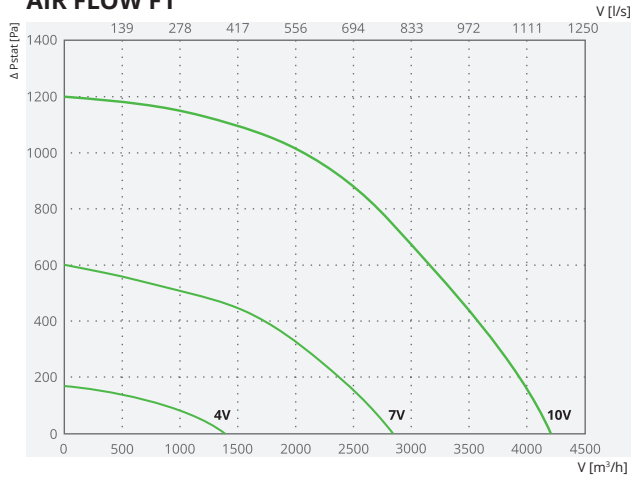
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]		~3, 400			-	-
		[kW]	3.60	6.00	3.60	6.00	-	-
Fans	phase/voltage	[50Hz/VAC]				~1, 230		
exhaust	power/current	[kW/A]		0.715/3.10		1.35/6.70	0.715/3.10	1.35/6.70
	fan speed	[min ⁻¹]		2800		2920	2800	2920
supply	power/current	[kW/A]		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)		

AmberAir Compact CXH

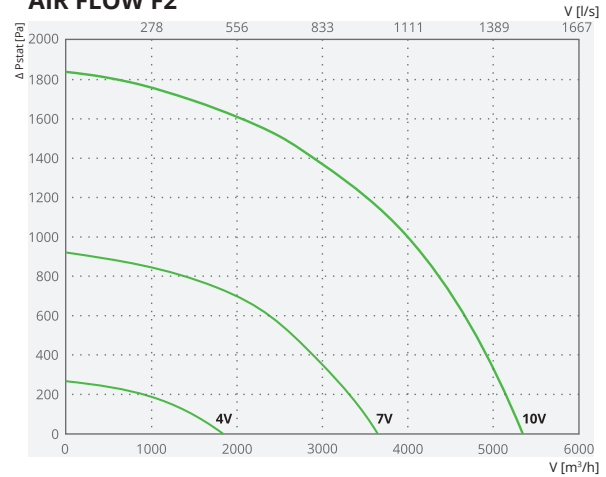
AmberAir Compact 4-CXHE/W

Performance
(with clean filter)

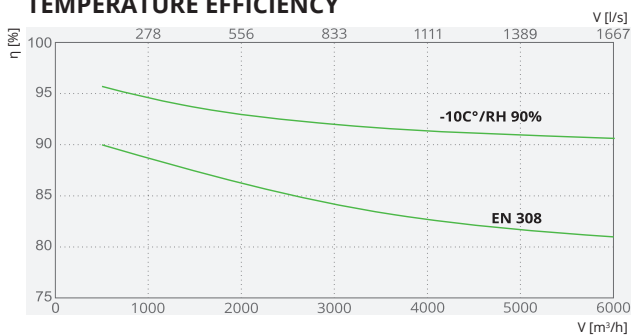
AIR FLOW F1



AIR FLOW F2



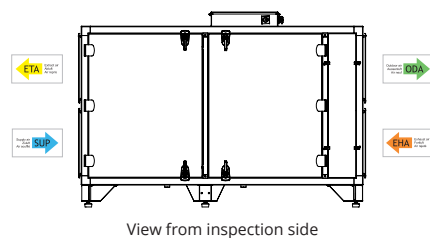
TEMPERATURE EFFICIENCY



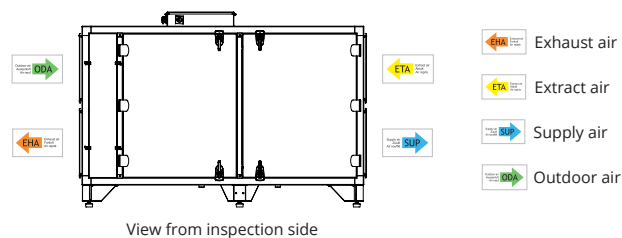
Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

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

Air supply side (L-left)



Air supply side (R-right)



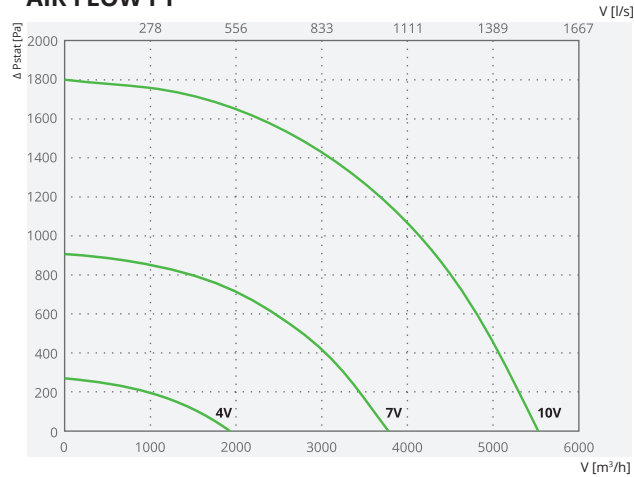
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]	~3, 400				-	-
		[kW]	6.00	7.20	6.00	7.20	-	-
Fans	phase/voltage	[50Hz/VAC]	~1, 230		~3, 400		~1, 230	~3, 400
exhaust	power/current	[kW/A]	1.35/6.70		2.50/4.00		1.35/6.70	2.50/4.00
	fan speed	[min ⁻¹]	2920		3640		2920	3640
supply	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

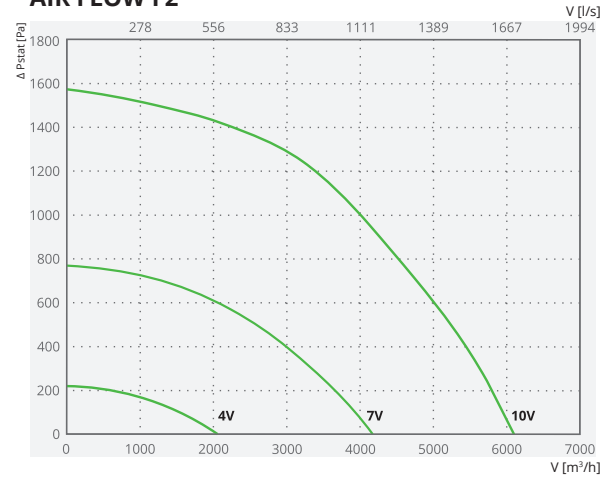
AmberAir Compact 5-CXHE/W

Performance
(with clean filter)

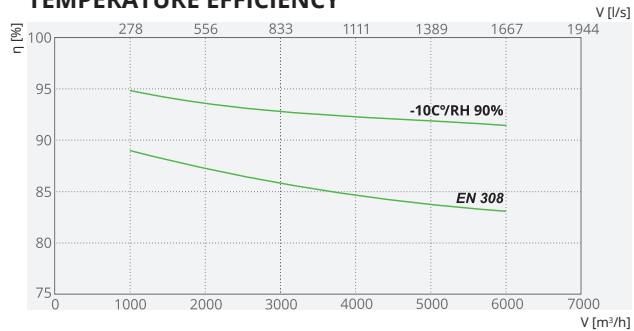
AIR FLOW F1



AIR FLOW F2

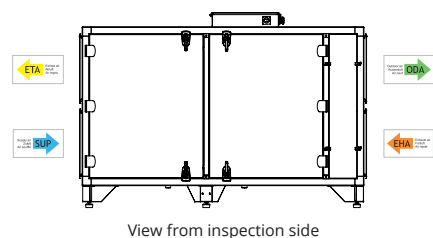


TEMPERATURE EFFICIENCY

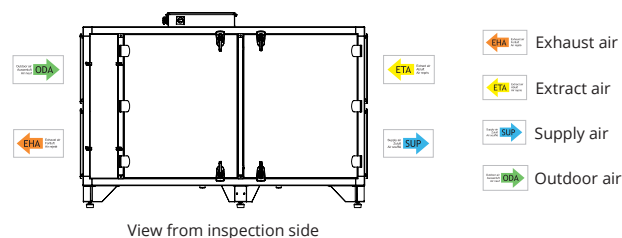


Temperature efficiency (-10°C/RH 90%):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



Air supply side (R-right)



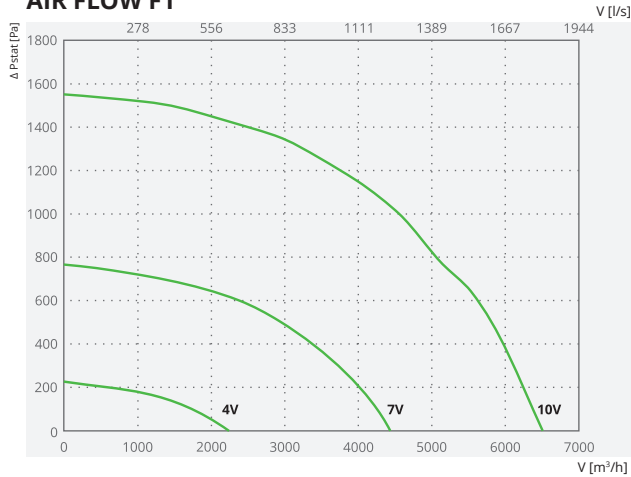
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]		~3, 400			-	-
		[kW]	7.20	9.00	7.20	9.00	-	-
Fans	phase/voltage	[50Hz/VAC]		~3, 400				
exhaust	power/current	[kW/A]	2.50/4.00		2.50/4.00		2.50/4.00	2.50/4.00
	fan speed	[min ⁻¹]	3640		2970		3640	2970
supply	power/current	[kW/A]	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)					

AmberAir Compact CXH

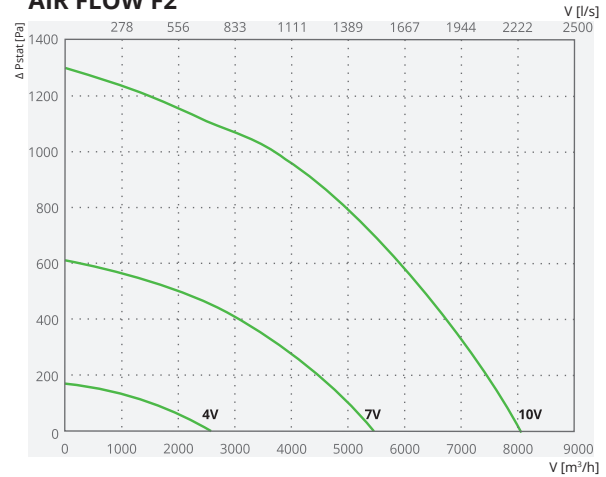
AmberAir Compact 6-CXHE/W

Performance
(with clean filter)

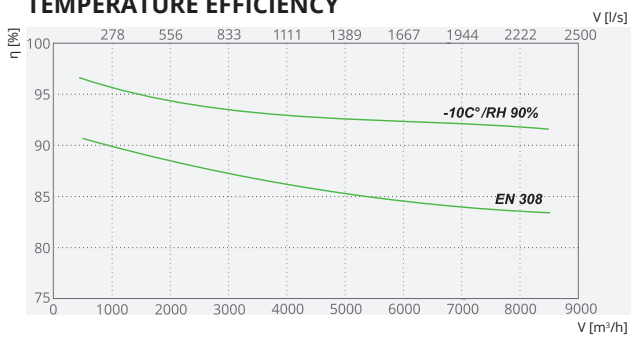
AIR FLOW F1



AIR FLOW F2



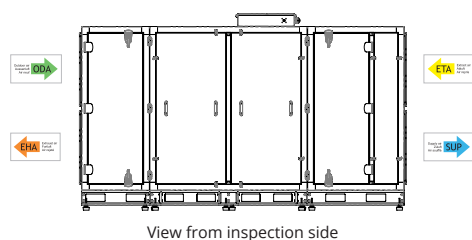
TEMPERATURE EFFICIENCY



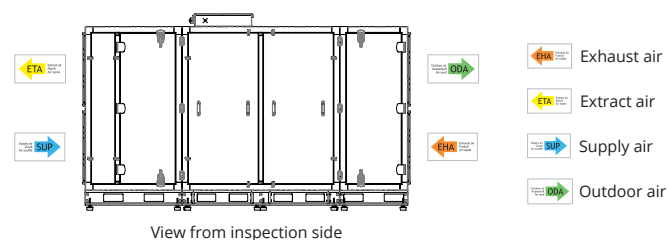
Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%

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

Air supply side (L-left)



Air supply side (R-right)



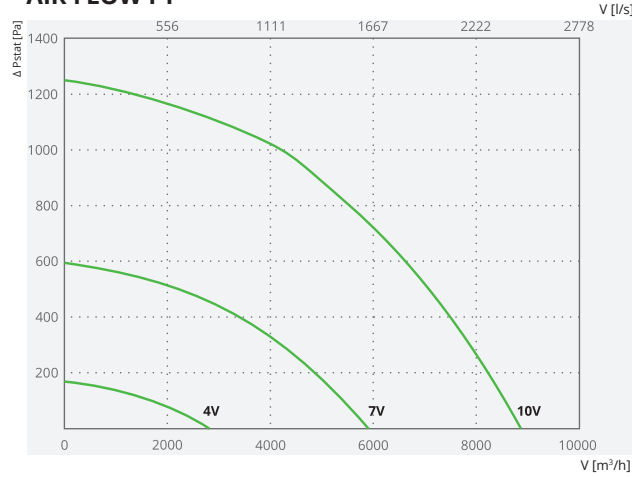
			F1E1	F1E2	F2E1	F2E2	F1W	F2W
Electrical heater	phase/voltage	[50Hz/VAC]		~3, 400			-	-
		[kW]		9.00			-	-
Fans	phase/voltage	[50Hz/VAC]		~3, 400				
		[kW/A]	2.50/4.00		2.90/4.80		2.50/4.00	2.90/4.80
exhaust	fan speed	[min ⁻¹]	2970		2120		2970	2120
		[kW/A]	2.50/4.00		2.90/4.80		2.50/4.00	2.90/4.80
supply	fan speed	[min ⁻¹]	2970		2120		2970	2120
		[kW/A]	14.00/23.00		14.80/24.60		5.50/12.00	6.30/13.60
Max power consumption		[kW/A]						
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

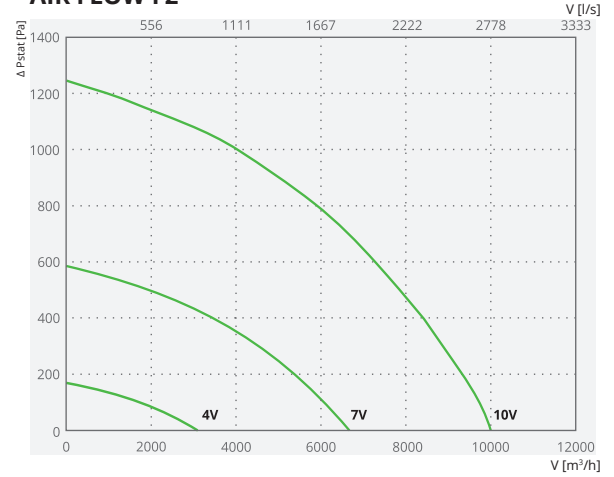
AmberAir Compact 7-CXHE/W

Performance
(with clean filter)

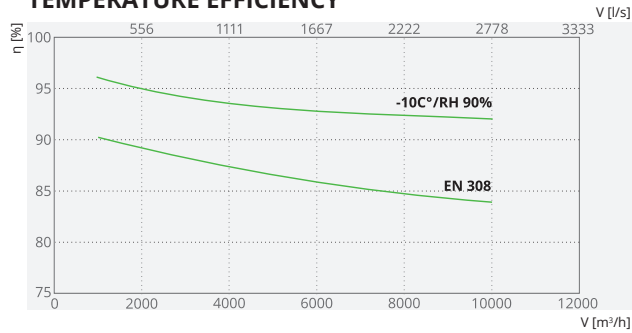
AIR FLOW F1



AIR FLOW F2

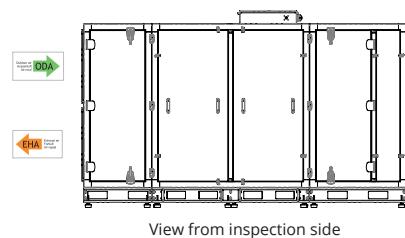


TEMPERATURE EFFICIENCY

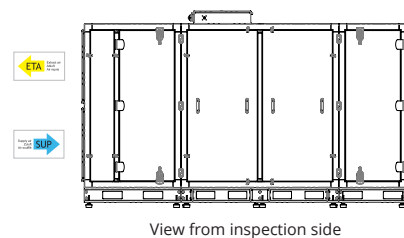


Temperature efficiency (-10°C/RH 90%):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



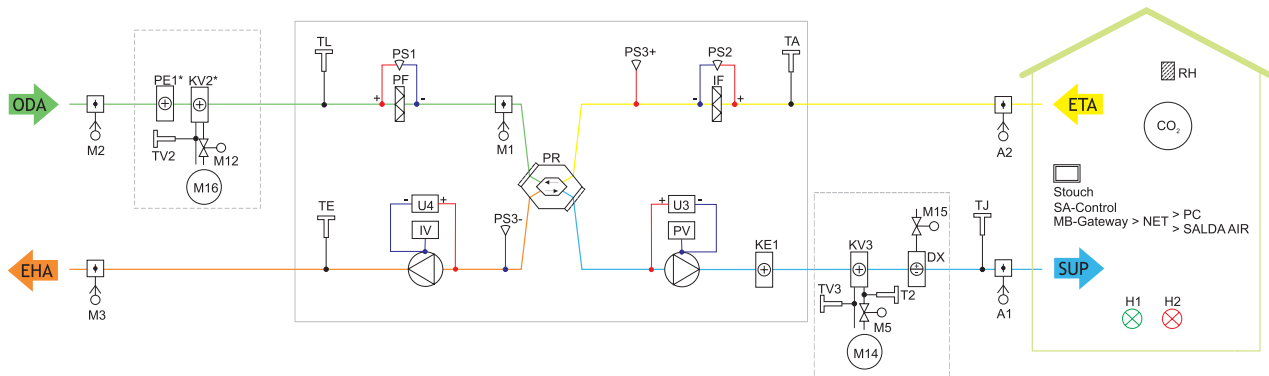
Air supply side (R-right)



			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)					

AmberAir Compact CXH

AmberAir Compact 1-7CXHE VERSIONS WITH ELECTRICAL HEATER



List of Components

PR	Plate heat exchanger	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
CO₂	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

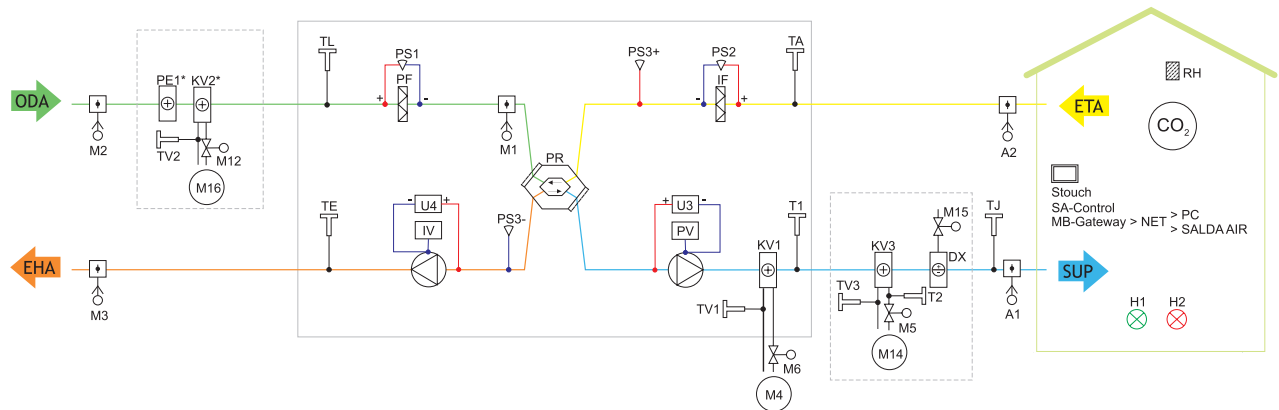
	Outdoor air		Extract air		Exhaust air		Supply air		Ventilated premises
--	-------------	--	-------------	--	-------------	--	------------	--	---------------------

* - 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 exchanger	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
CO₂	CO ₂ sensor	FA	Fire alarm
Stouck	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

	Outdoor air		Extract air		Exhaust air		Supply air		Ventilated premises
--	-------------	--	-------------	--	-------------	--	------------	--	---------------------

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

AmberAir Compact CXH

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	 UG3A40 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	GVLSVF005	p. 98	✓						
	LSVF 400	GVLSVF007			✓	✓				
	LSVF 500	GVLSVF009				✓				
	LSVF 630	GVLSVF010					✓	✓		
	LSVF 710	GVLSVF018							✓	
	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								✓

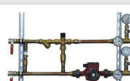
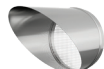
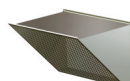
AmberAir Compact CXH

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									✓

AmberAir Compact CXH

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

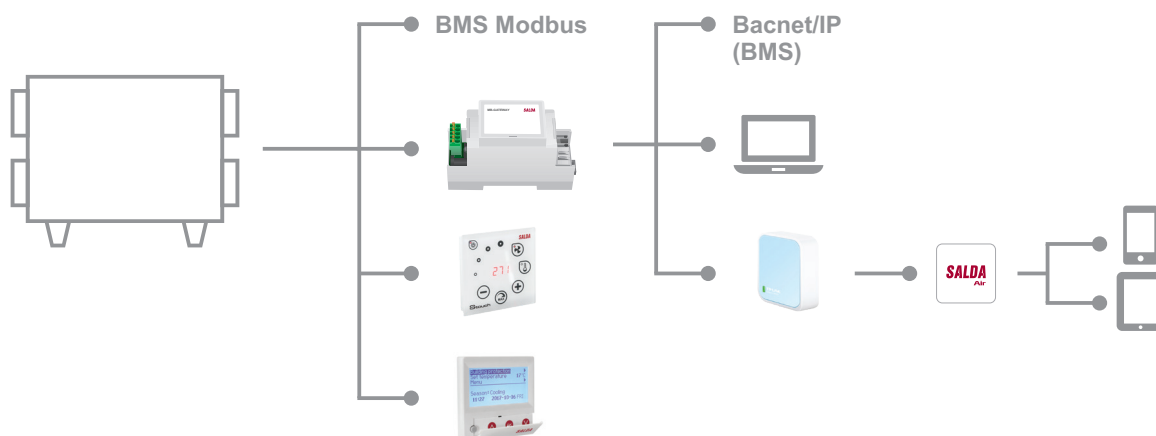
Description of the functions	MCB	
	E	W
System modes	●	
BOOST function	●	
Cold/heat recovery	●	
Supply air temperature control and compensation	●	
Weekly schedule	●	
Holiday schedule	●	
Night cooling function	●	
CO2 level reduction function	○	
RH level reduction	○	
Dryness protection	○	
Constant air pressure	●	
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 configuration	●	
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 sensor	●	
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 filter protection according to pressure relays	●	
Air filters timer	●	

AmberAir Compact CXH

FUNCTIONS

Description of the functions	MCB	
	E	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 configured 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:



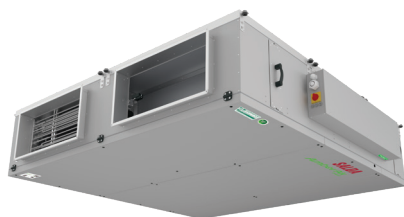
iTunes Apple store:



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° C to +40° 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 m³/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 temperature without preheater (Salda Antifrost** off):	-5°/+40° C*
Outdoor air temperature without preheater (Salda Antifrost** on):	-15°/+40° C
Outdoor air temperature with 100% by-pass***:	-23°/+40° C
Outdoor air temperature limits with a selected pre-heater on an air duct:	-40°/+40° C
Outdoor air max humidity:	90%
Temperature limits of an extracted air:	+15°/+40° C
Extract air max humidity:	60%
Maximum room temperature for installing the unit:	+40° C

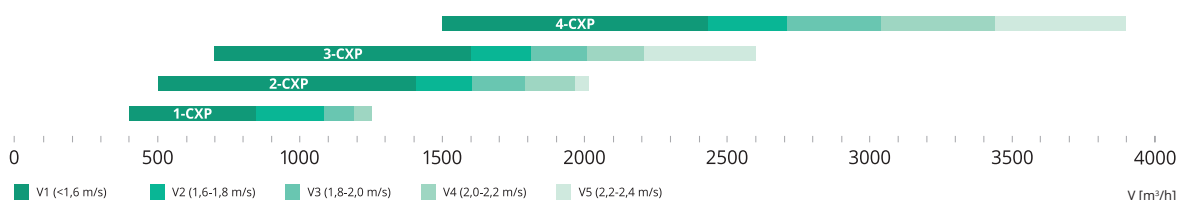
* – when relative humidity of extracted air is lower than 35 %.

** – uses dis-balancing of the airflow and it may cause negative pressure in premises.

*** – depends on AHU configuration.



AIR FLOW DIAGRAM



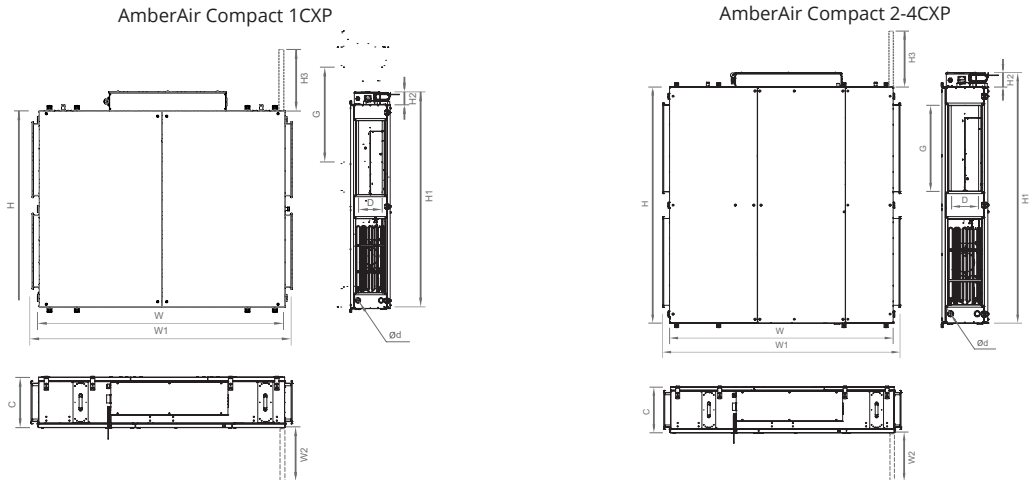
PRODUCT CODE

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.

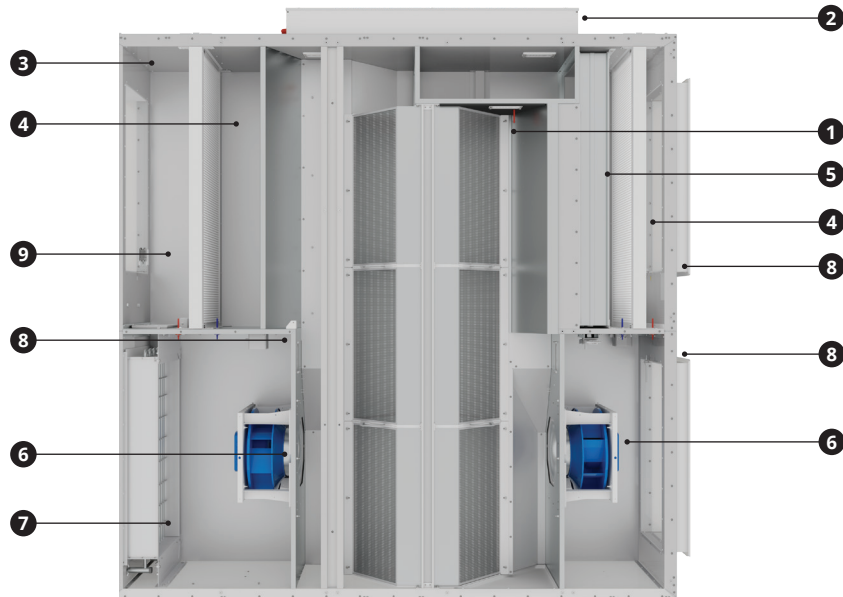
AmberAir Compact CXP

DIMENSIONS



[mm]												
Unit	W	W1	W2	C	H	H1	H2	H3	G	D	ød	ø cond.
AmberAir Compact 1-CXP	1750	1852	875	385	1397	1534	137	650	500	250	46	21.3
AmberAir Compact 2-CXP	1850	2020	725	400	1850	1975	125	900	700	300	46	21.3
AmberAir Compact 3-CXP	1950	2070	770	400	2060	2185	125	1010	750	300	46	21.3
AmberAir Compact 4-CXP	2250	2370	880	500	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:

- 50/30 mm of mineral wool insulation*;
- Galvanized steel powder coated corrosion class – C3.

4. Panel (integrated) or pocket (external box) filters:

- Class: Coarse 65% (G4), ePM₁₀ 55% (M5), ePM₁ 70% (F7);
- Fully recyclable;
- Supply/extract filter pressure switch.

5. 100% motorized by-pass damper.

- 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.

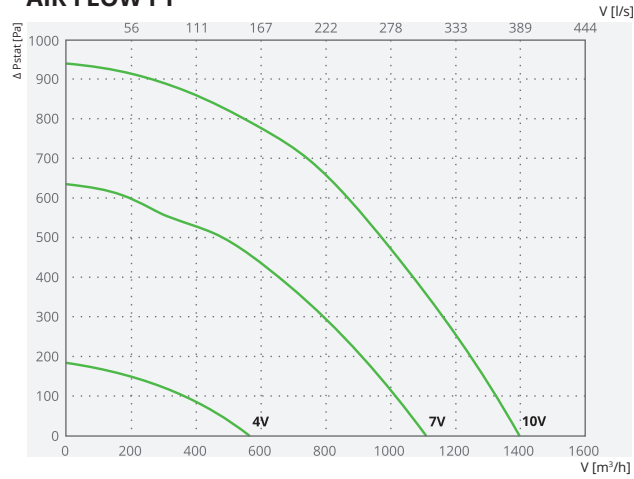
* - 50 mm casing insulation, 30 mm doors; possibility to select 50 mm door insulation.

AmberAir Compact CXP

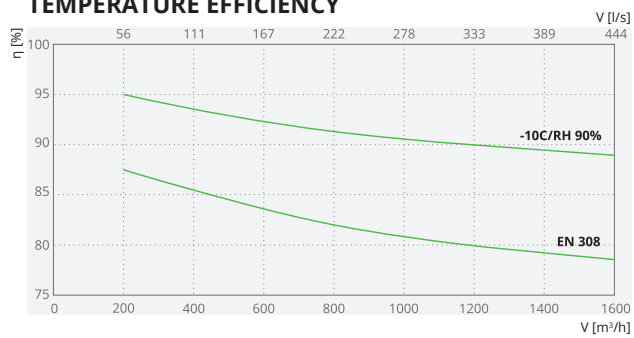
AmberAir Compact 1-CXPE/W

Performance
(with clean filter)

AIR FLOW F1

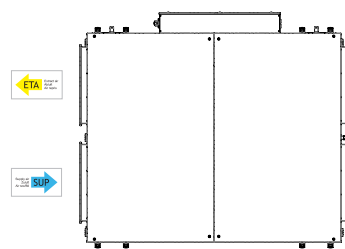


TEMPERATURE EFFICIENCY



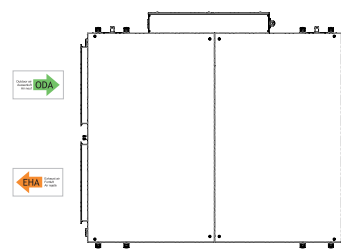
Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



View from inspection side

Air supply side (R-right)



View from inspection side



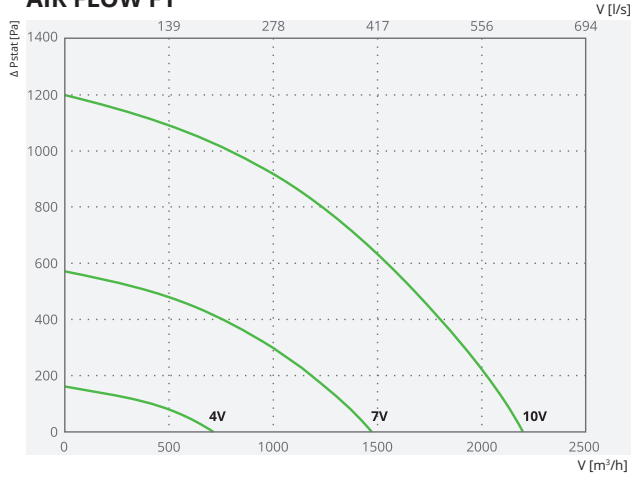
			F1E1	F1E2	F1W
Electrical heater	phase/voltage	[50Hz/VAC]	~1, 230		-
		[kW]	2.00	3.60	-
Fans	phase/voltage	[50Hz/VAC]	~1, 230		-
		[kW/A]	0.38/2.50	0.38/2.50	0.38/2.50
exhaust	fan speed	[min ⁻¹]	3370	3370	3370
		[kW/A]	0.38/2.50	0.38/2.50	0.38/2.50
supply	fan speed	[min ⁻¹]	3370	3370	3370
		[kW/A]	2.76/15.70	4.36/22.65	1.06/9.00
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	218	216
Comply with ERP			2018		-
Operation			indoor/outdoor (with roofing)		-

AmberAir Compact CXP

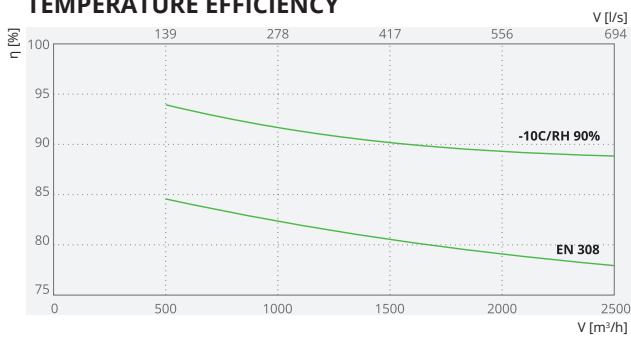
AmberAir Compact 2-CXPE/W

Performance
(with clean filter)

AIR FLOW F1

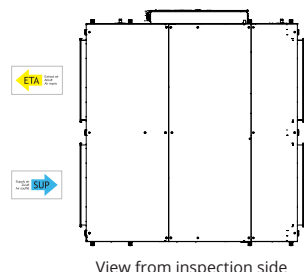


TEMPERATURE EFFICIENCY

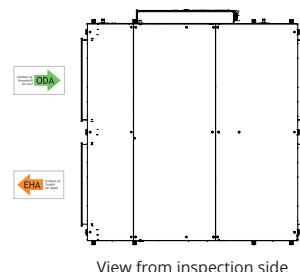


Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



Air supply side (R-right)



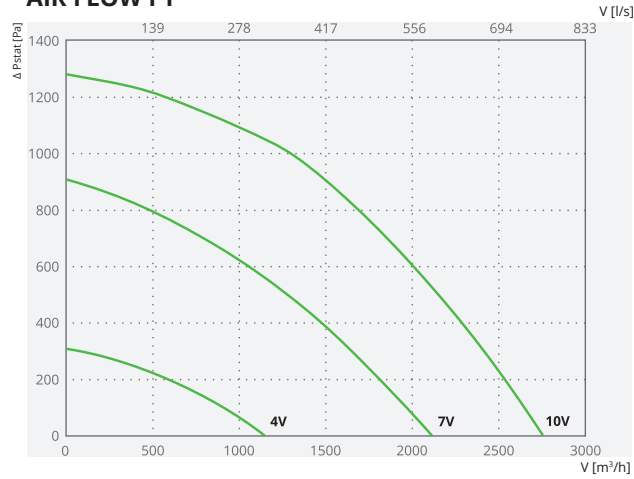
			F1E1	F1E2	F1W
Electrical heater	phase/voltage	[50Hz/VAC]	~3, 400		-
		[kW]	3.00	6.00	-
Fans	phase/voltage	[50Hz/VAC]		~1, 230	
exhaust	power/current	[kW/A]	0.76/3.80		0.76/3.80
	fan speed	[min ⁻¹]	3530		3530
supply	power/current	[kW/A]	0.76/3.80		0.76/3.80
	fan speed	[min ⁻¹]	3530		3530
Max power consumption		[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

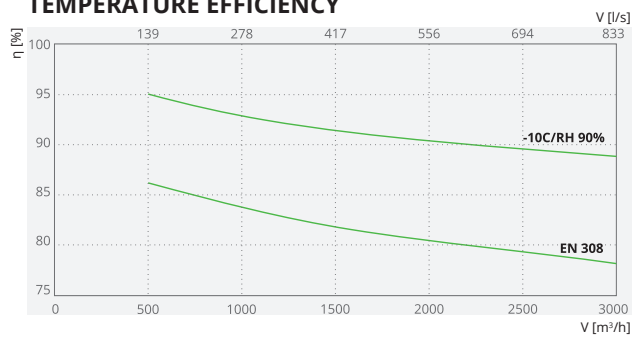
AmberAir Compact 3-CXPE/W

Performance
(with clean filter)

AIR FLOW F1

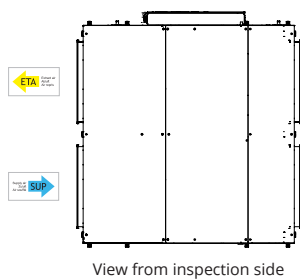


TEMPERATURE EFFICIENCY

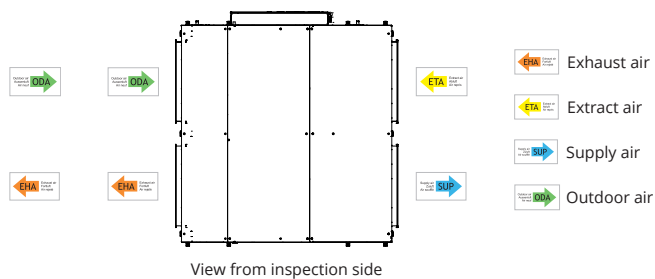


Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



Air supply side (R-right)



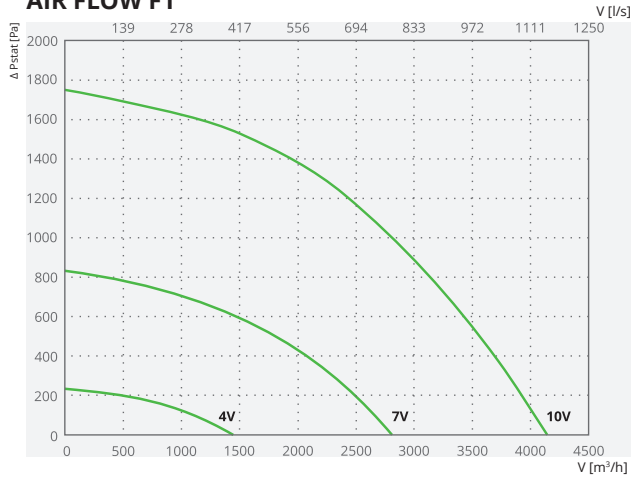
			F1E1	F1E2	F1W
Electrical heater	phase/voltage	[50Hz/VAC]	~3, 400		-
		[kW]	4.50	9.00	-
Fans	phase/voltage	[50Hz/VAC]		~3, 400	
exhaust	power/current	[kW/A]	1.05/1.60		1.05/1.60
	fan speed	[min ⁻¹]	3400		3400
supply	power/current	[kW/A]	1.05/1.60		1.05/1.60
	fan speed	[min ⁻¹]	3400		3400
Max power consumption		[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)		

AmberAir Compact CXP

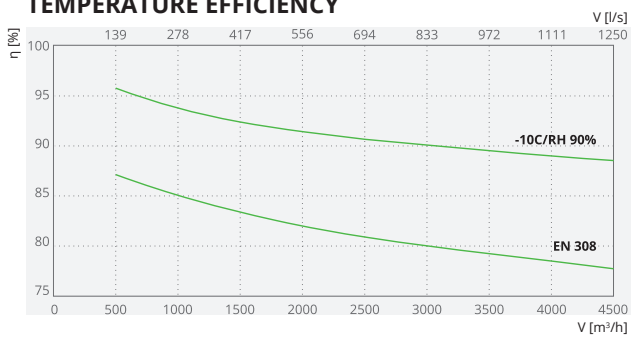
AmberAir Compact 4-CXPE/W

Performance
(with clean filter)

AIR FLOW F1

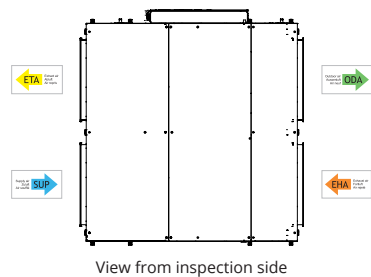


TEMPERATURE EFFICIENCY

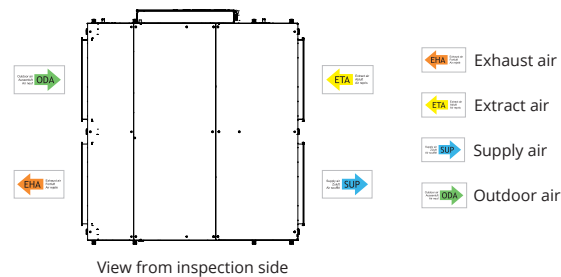


Temperature efficiency (-10°C/RH 90):
Extract air = extract air: +20°C/RH 60%
Outdoor air = outdoor air: -10°C/RH 90%
EN 308 :
Extract air = extract air: +25°C/RH27%
Outdoor air = outdoor air: +5°C/RH80%

Air supply side (L-left)



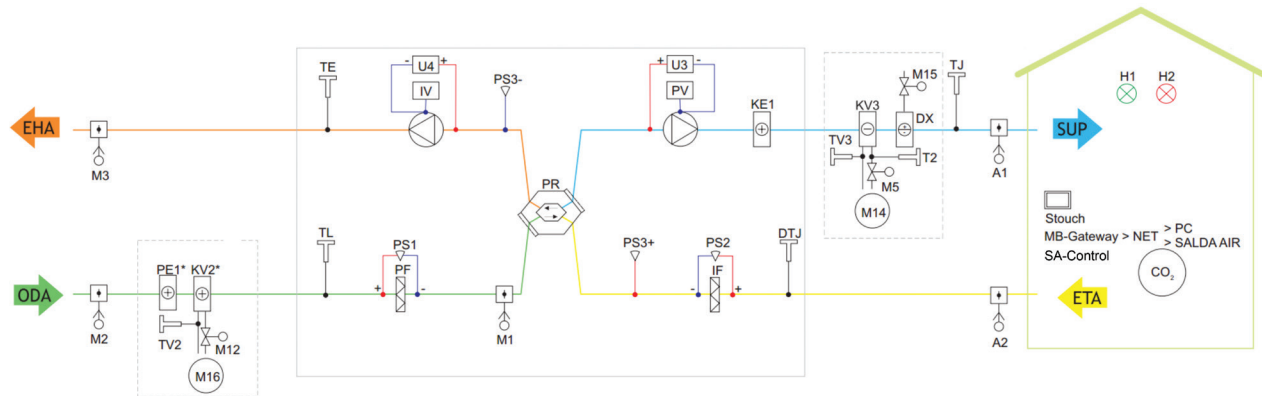
Air supply side (R-right)



			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 exchanger	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
CO₂	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

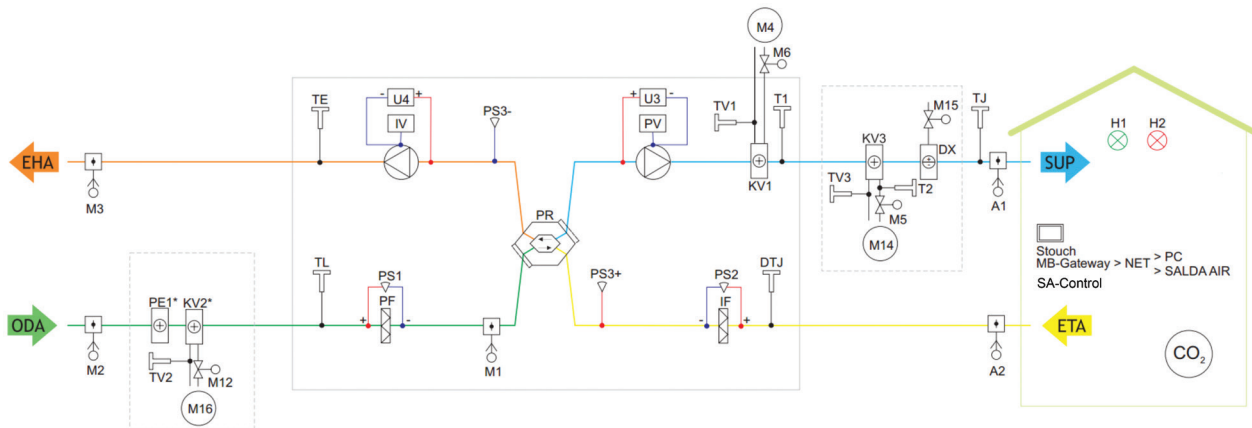
	Outdoor air		Extract air		Exhaust air		Supply air		Ventilated premises
--	-------------	--	-------------	--	-------------	--	------------	--	---------------------

* - only one preheater can be connected.

** - only one cooler can be connected.

AmberAir Compact CXP

AmberAir Compact 1-4CXPW VERSIONS WITH WATER HEATER



List of Components

PR	Plate heat exchanger	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
M14	Water cooler circulation pump**	U4	Exhaust air fan pressure sensor

List of external sensors, inputs/outputs and controllers

RH	RH sensor	PC	Computer
CO₂	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

	Outdoor air		Extract air		Exhaust air		Supply air		Ventilated premises
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* - only one preheater can be connected.

** - only one cooler can be connected.

AmberAir Compact CXP

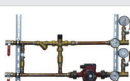
ACCESSORIES

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 p. 57	TL-WR802N PRGPU105 p. 58	Stouch PRGPU051 p. 59	Flex MCB (EN) PRGPU107 p. 60	S-RC02-F2 ZAKKT0048 S-RC02 ZAKKT0049 p. 61	S-KFF-U ZAKKT0051 S-KFF-U-D-F2 ZAKKT0050 p. 62	TJ1TE-NTC10K3B-4.5x90P-2x6,0mPVC-FL PJUT0071 TJ1-NTC10k3B-6x240S-2x2.0mPVC-CF PJUT0076 p. 63	UG3A40 ZAKKT0110 p. 64	IR24-P ZAKJT019 IR24-PC ZAKJT020 p. 65	PATROL 701 ZAKJT021 p. 66	SPD-G-6K0 ZAKKT0125 S-1141 ZAKKT0047 p. 67	Circular or rectangular connection 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	GVLSVF005	p. 98	✓			
	LSVF 355	GVLSVF006			✓	✓	
	LSVF 400	GVLSVF007					✓
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					✓

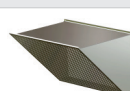
AmberAir Compact CXP

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	ZFEFP068	p. 109	✓			
	MPL 894x279x46/F7	ZFEFP161			✓		
	MPL 1000x279x46 F7	ZFEFP185				✓	
	MPL 1113x379x46 F7	ZFEFP158					✓
PANEL FILTERS COARSE 65% (G4)				1-CXP	2-CXP	3-CXP	4-CXP
	MPL 642x258x90/G4	ZFEFP181	p. 109	✓			
	MPL 894x279x46/G4	ZFEFP176			✓		
	MPL 1000x279x46 G4	ZFEFP183				✓	
	MPL 1113x379x46 G4	ZFEFP187					✓
PANEL FILTERS ePM ₁₀ 55% (M5)				1-CXP	2-CXP	3-CXP	4-CXP
	MPL 642x258x90/M5	ZFEFP067	p. 109	✓			
	MPL 894x279x46/M5	ZFEFP160			✓		
	MPL 1000x279x46 M5	ZFEFP184				✓	
	MPL 1113x379x46 M5	ZFEFP159					✓
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					✓

AmberAir Compact CXP

FUNCTIONS

Description of the functions	MCB	
	E	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 configuration	●	
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 sensor	●	
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 filter protection according to pressure relays	●	
Air filters timer	●	

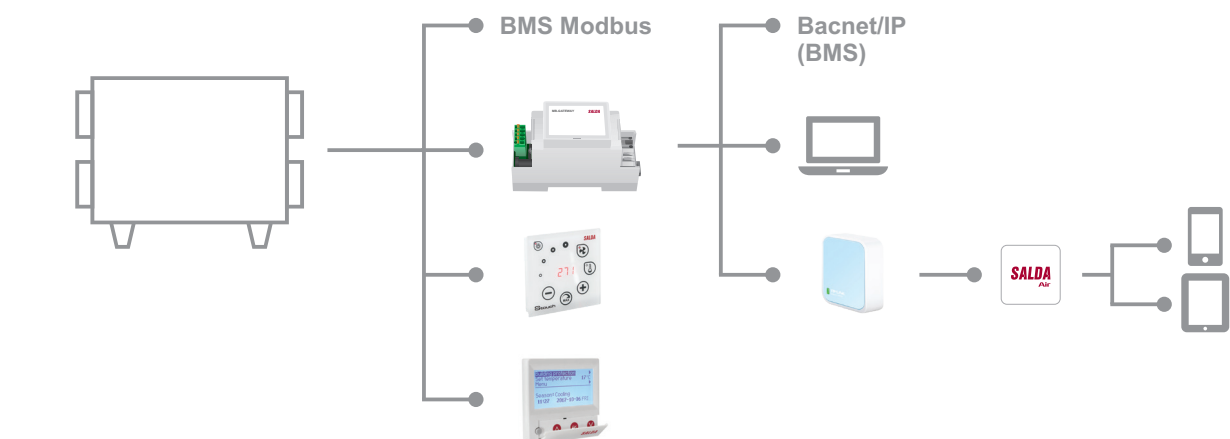
AmberAir Compact CXP

FUNCTIONS

Description of the functions	MCB	
	E	W
Fire alarm damper		
		•
		•
DX cooler		
		•
		•
		•
Recirculation		
		•
		•
Bypass damper		
		•
Remote controllers		
		x
		x
		x
Building management system		
		•
		○

○	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 configured 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!