

Customised compact air handling unit
AmberAir
Compact 7-RH

SALDA



Wide choice: over
140,000 possible
combinations

Short production
turnaround: standard unit
setup within 3 weeks

Plug&Play:
Configured unit with
built-in heater/cooler



AmberAir Compact 7-RH

CUSTOMISED AIR HANDLING UNIT IN SHORTER TIME



In a dynamic, modern business environment, speed and customer satisfaction are some of the guarantors of success. We developed AmberAir Compact 7-RH to meet this demand for ventilation specialists. This is a compact air handling unit with a rotary heat exchanger and a range of optional components to suit with a possibility of more than 140,000 unique air handling units. Optimized manufacturing processes allows to minimise AmberAir Compact's production deadlines. You will receive the most suitable air handling unit in time, even if the project has short deadlines!

Why AmberAir Compact 7-RH?

- › **Widest choice:** more than 140,000 possible combinations;
- › **Short production turnaround:** standard unit setup within 3 weeks;
- › **Reliability:** Eurovent certificate, tested in an independent laboratory;
- › **Quality:** L1 class tightness, components from leading EU manufacturers;
- › **Convenience:** convenient transportation, plug&play, professional selection tool.

AmberAir Compact 7-RH is ready for use:



Educational
buildings



Industrial
buildings



Warehouses



Office
buildings



Shopping
centres



Hotels

Specifically adapted for:

› NEW CONSTRUCTION



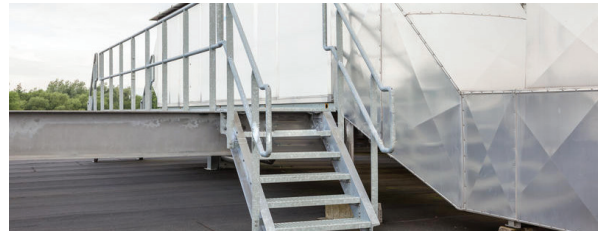
› RECONSTRUCTION



› ENERGY EFFICIENT BUILDINGS



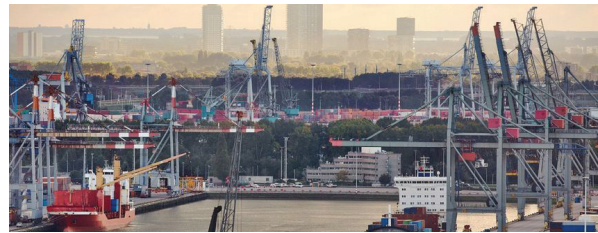
› ROOF INSTALLATION



› OPERATION IN NORDIC CLIMATES



› COASTAL AREAS*



› AGGRESSIVE CORROSIVE ENVIRONMENTS (C4)*



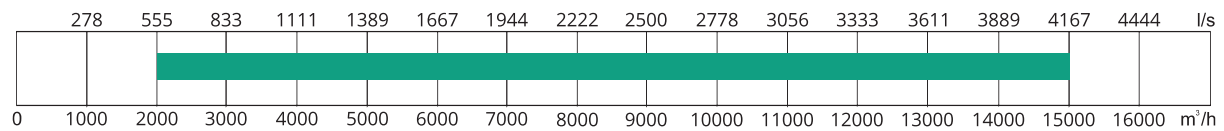
* - with anodized aluminium profile.

Convenience

- › **For designer:**
 - 3D selection program combines all attachments;
 - Autodesk Revit plugin.
- › **For installer:**
 - Plug&play: integrated heaters, configured unit;
 - Quick and easy connection of sections;
 - All accessories for the ventilation system from one manufacturer;
 - Convenient inhouse transportation.
- › **For investor:**
 - Wide range of specifications and prices;
 - LCC calculator for the estimation of operating costs;
 - Connection to the building management systems (BMS);
 - Quick order turnaround;
 - Eurovent certificate.

WIDE RANGE OF SUPPLIED AIR FLOW

Selection of the optimum operating point in a wide range of airflows. This makes it possible to choose from as many as 4 powers of EC fans.



AS MANY AS 16 DUCT CONNECTION OPTIONS

Choose one of the most suitable duct connection options:

- › Air supply on the lower or upper floors*;
- › Left or right service side;
- › Connection of one or two ducts from the top.

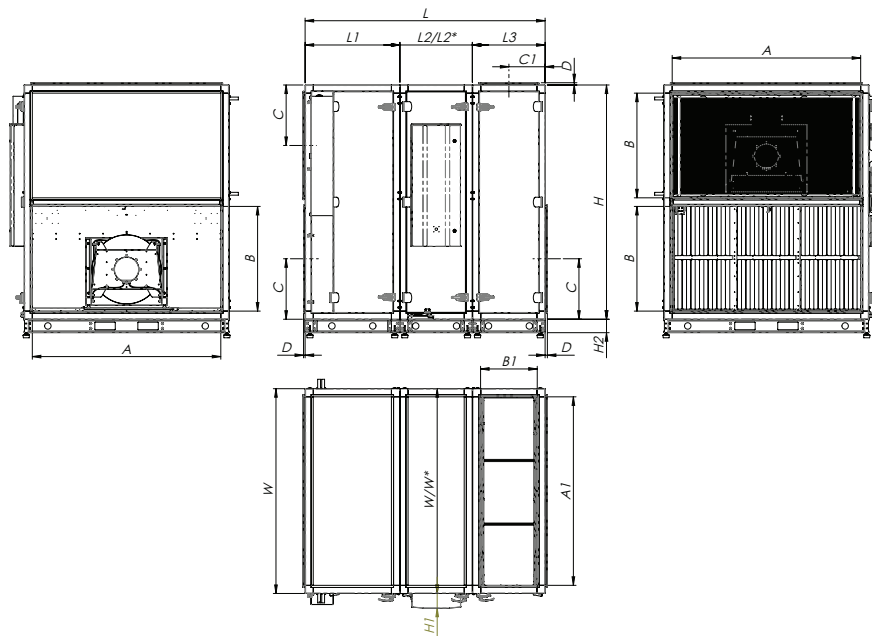
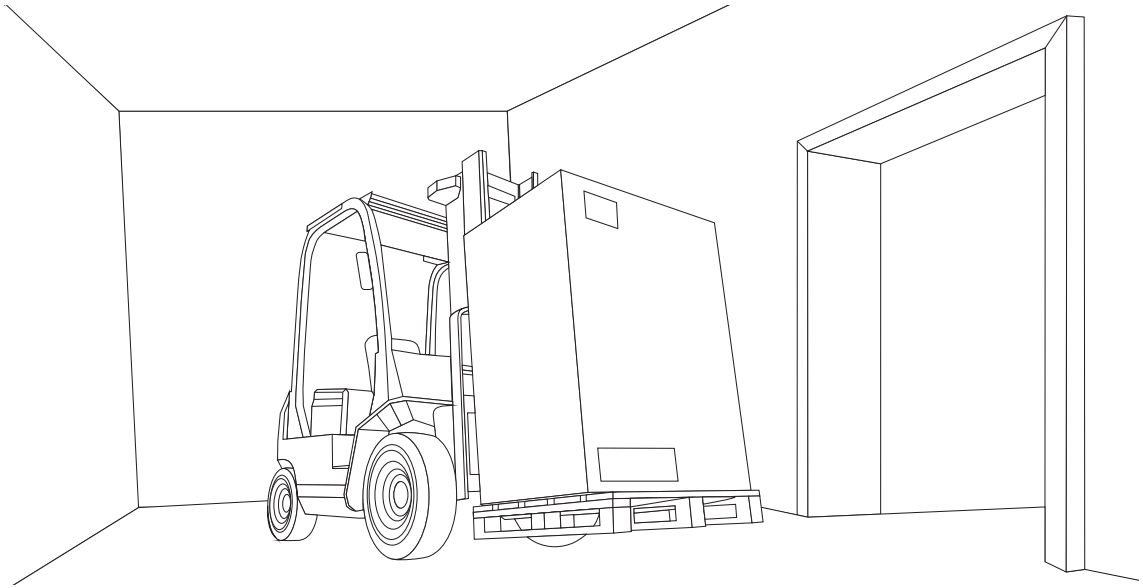


AmberAir Compact 7-RH is designed to operate even in the most severe weather conditions, at an ambient temperature of -40 °C. We offer a version with a roof and horizontal duct connection.

* - integrated coolers can be installed only in horizontal versions, otherwise we suggest choosing an external duct-based cooler or a Comfort box.

DIMENSIONS

FOR CONVENIENT TRANSPORTATION



L, mm	L1, mm	L2, mm; with 200 mm wide rotor	L2*, mm; with 250 mm wide rotor	L3, mm	W, mm; with 1700 diameter rotor	W*, mm with 1900 di-iameter rotor	H, mm	H1, mm	H2, mm	C, mm	C1, mm
2230/2280	880	675	725	675	1905	2105	2180	140	125	563	337

Duct connection dimensions

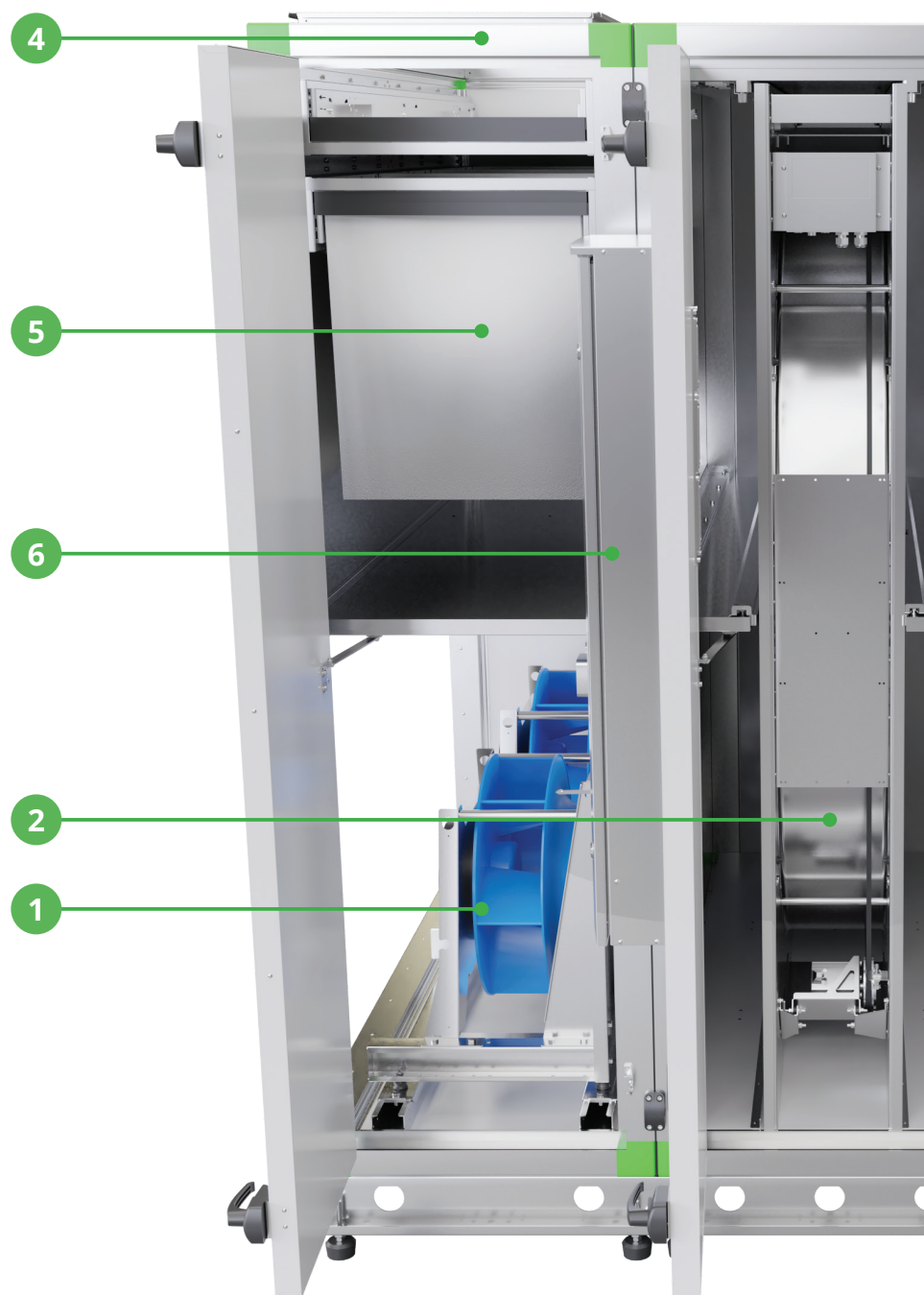
Side duct connection		Top duct connection	
A, mm	B, mm	A1, mm	B1, mm
1753	974	1753	522

Indicative weight* 950kg:

* - the weight depends on selected components, the exact weight can be found in the selection program.

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

RELIABLE AMBERAIR COMPACT 7-RH DESIGN AND A WIDE RANGE OF OPTIONS



1. 4 sizes of EC-type energy efficient fans;
2. 36 rotor variants: 2 widths, 3 diameters, 2 gap sizes, 3 types – condensation, enthalpy or sorp-tion. Precision motor control with 0-10V signal. Purge sector;
3. Integrated heater or cooler. Options: electric heater, water heater, water changeover cooler*);
4. 4 casing types. Rock wool or polyurethane insulation. Aluminium or anodized aluminium profile with or without a cold bridge. Inner walls are made of Aluzinc AZ185, corrosion resistance class C4. Stainless steel drip trays for coolers;

* – Integrated coolers are available in the horizontal version.



5. Integrated panel or pocket filters. Available classes ePM coarse/10/2.5/1.0 (G4/M5/F7/F9 (EN 779)). Option of choosing a panel pre-filter. Filter contamination is monitored by the means of pressure switches or pressure transmitters (optional).

6. Integrated powerful MCB control card or prewiring.

7. Integrated air temperature sensors: outdoor air, 2 supply air (downstream the rotor and down-stream the heater), extract air and exhaust air temperature and humidity sensor DTJ).

36 ROTOR TYPES: CHOOSE THE MOST SUITABLE FOR YOU!



Each ventilation project is unique and requires a choice of investment, electricity consumption and heat recovery efficiency. With this in mind, we offer you the exclusive choice of rotors for compact air handling units.

Rotor types:

- › The condensing rotor of a standard choice is offered. Lowest price;
- › The enthalpic-hygroscopic rotor returns 20-60% of extracted moisture and part of the latent energy. This will reduce moisture loss of premises during the cold season;
- › Sorption rotor returns up to 80% of extracted moisture and, by analogy, part of the latent energy. This helps ensure optimum humidity in the premises during the cold season.

Rotor width:

- › 200 mm offered as standard;
- › A 250 mm rotor has higher efficiency, but also higher pressure losses.

The rotor gap size area determines the rotor's efficiency:

- › 2.0[200] and 1.7[250] gap size is standard, with high heat returns and low pressure losses;
- › 1.6[200] and 1.5[250] gap size is recommended if higher heat recovery is required.

Rotor diameter determines both the heat exchanger efficiency and pressure loss:

- › 1700 mm as standard, characterized by optimum efficiency for nominal airflow;
- › 1900 mm is offered as an alternative to reduce pressure losses and increase heat recovery;
- › 1500 mm is offered as a budget solution.

Sealant: synthetic leather. Compared with brushes, artificial leather wears out less, thus ensuring higher tightness during operation. The service level artificial leather sealing material is up to 4 times longer, thus reducing service costs.

Controller: the rotor motor is controlled by a 0-10V signal, which allows precise adjustment of the rotor speed and optimal operation. For precise rotor control, an additional temperature sensor is mounted for the supply air downstream the rotor.

The purge sector prevents mixing of supply and extracted air flows. This ensures that odours and harmful substances from extracted air will not be delivered back to the premises.

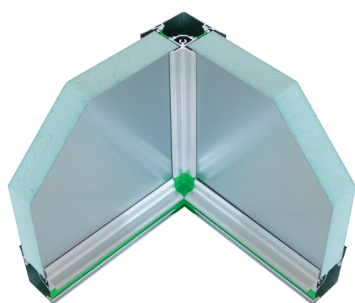
4 CASING TYPES:

CHOOSE AN OPTIMAL PRICE/PERFORMANCE RATIO!

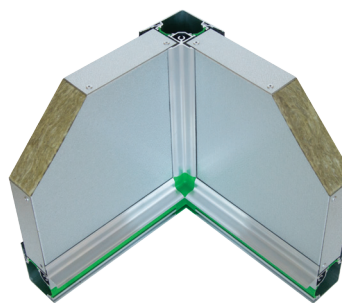
An option of 4 casing types allows to choose between:

- › Fire resistance of insulating material of classes A1 or B-s2 d0;
- › Thermal bridge classes TB2, TB4;
- › Best specifications or prices.

Casing	Frame	Insulation	Element that eliminates the thermal bridges
SD50+	Aluminium or anodized aluminium	Polyurethane, 45 mm	Plastic strip
SD50			None
MD50+		Rock wool, 45 mm	Plastic strip
MD50			None



SD50+



MD50+

- › Strong plastic corners;
- › Polyurethane insulation (SD50 +, SD50);
- › Rock wool insulation (MD50 +, MD50);
- › Plastic strip eliminates thermal bridges and prevents condensate formation (SD50 +, MD50 +);
- › Rounded corners for easy cleaning;
- › Rubber sealing strips help maintain the highest level of tightness L1;
- › Aluminium or anodized aluminium profile.

Technical characteristics of casing:

Casing	Casing strength class	Casing leakage class at -400 Pa	Casing leakage class at +700 Pa	Filter by-pass leakage	Thermal transmittance class	Temperature bridge factor class	Fire re-sistance class of insulation material	Price level
SD50+	D1(M)	L1(M)	L1(M)	F9(M)	T2	TB2	B-s2 d0	****
MD50+	D2(M)	L1(M)	L1(M)	F9(M)	T3	TB2	A1	***
SD50	D1(M)	L1(M)	L1(M)	F9(M)	T3	TB4	B-s2 d0	**
MD50	D2(M)	L1(M)	L1(M)	F9(M)	T3	TB4	A1	*

L1(M) tightness results in significantly lower energy consumption. In the case of L1 (M), the leakage of equipment through the casing amounts to 1%, which results in low electrical input to compensate for the loss of air flow. In the case of L2(M), the loss can be 3.5% and for L3(M) – 10%.

For example, the air handling unit with an air flow of 10000 m³/h consumes an average of 28,000 kWh per year for electric fans. In this case, the air handling unit of L2(M) tightness class consumes about 700 kWh more energy than L1(M) tightness class.

NEED AN AIR HANDLING UNIT EVEN FASTER? CHOOSE STANDARD AMBERAIR COMPACT 7-RH UNITS!

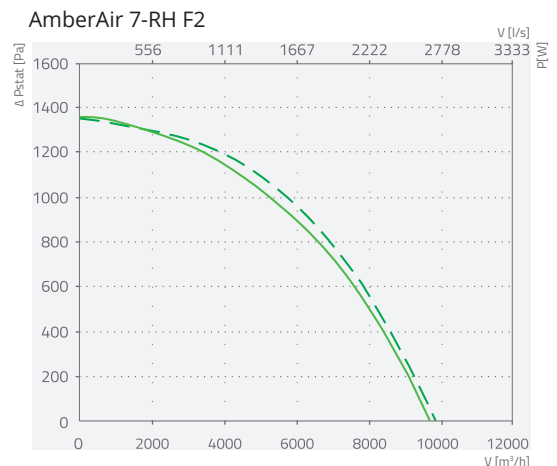
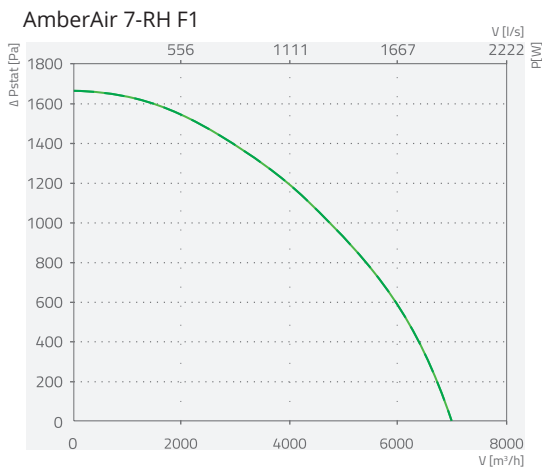
AmberAir Compact's manufacturing times are as little as half the time required for modular ones. For even shorter deliveries, we offer a choice of standard AmberAir Compact 7-RH units. We guarantee manufacturing deadline of **up to 3 weeks!**

Component	Standard equipment	Customised
Fan, nominal flow at 300 Pa	<ul style="list-style-type: none"> • F1 (EC) 6000 m³/h • F2 (EC) 8000 m³/h • F3 (EC) 10000 m³/h • F4 (EC) 14000 m³/h 	
Rotor	<ul style="list-style-type: none"> • Width – 200 mm • Diameter – 1700 mm • Type – condensing 	<ul style="list-style-type: none"> • Width – 250 mm • Diameter – 1500, 1900 mm • Type – Enthalpic, sorption
External heater (re-quired at outdoor tem-perature from -25 °C)	Outdoor air temperature up to -32° C.	Outdoor air temperature above -32° C
Integrared heaters/coolers	<ul style="list-style-type: none"> • Water heater up to + 22° C (water volume 60/40, up to 4 rows) • Electric heater up to + 22° C • Water cooler (reverse) (air temperature 32° C/20° C, water temperature 7°/12° C) – up to 2.5 m/s 	
Duct-based external heaters/coolers	<ul style="list-style-type: none"> • Water heater up to + 22° C (water volume 60/40, up to 4 rows) • Water cooler (reverse) (air temperature 32° C/20° C, water temperature 7°/12° C) • Comfort box 	Freon cooler (air 32° C/20° C, freon 410)
Duct connection	All standard combinations	
Casing	<ul style="list-style-type: none"> • All casing types • Aluminium frame 	Anodized aluminium frame
Filters	All standard filter types	
Control	<ul style="list-style-type: none"> • MCB control board • Prewiring 	Connection of other control boards (REGIN, Siemens).
Sensors	All sensors	

TECHNICAL SPECIFICATIONS

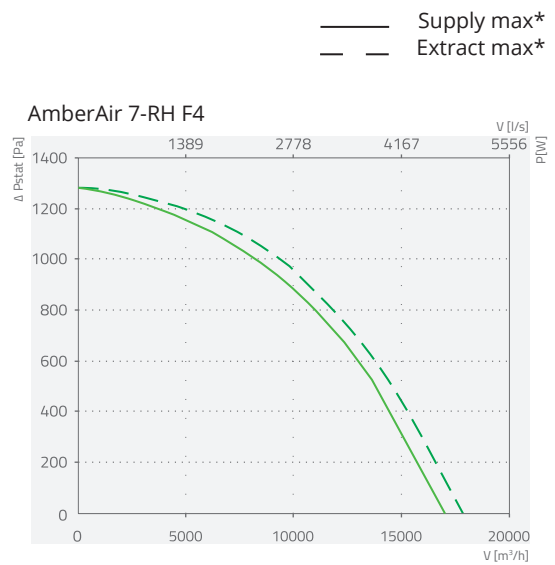
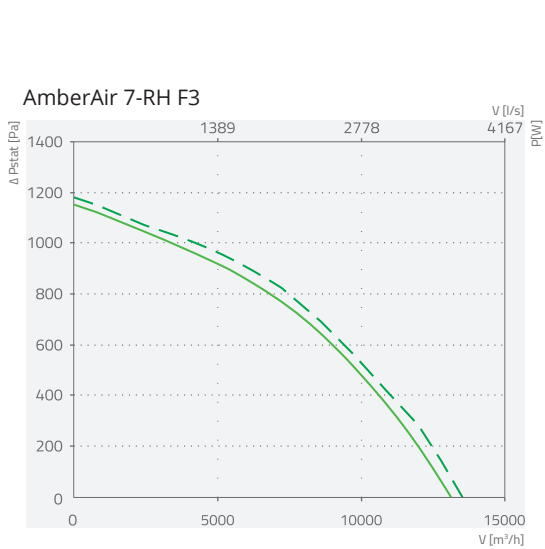
Air flows

— Supply max*
- - Extract max*

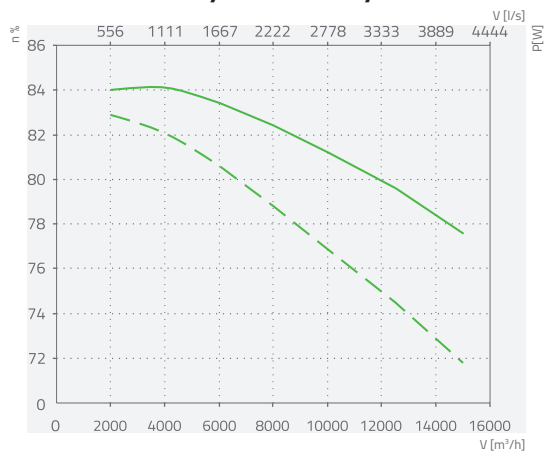


* - when filters are clean

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Heat recovery efficiency



— 1700-1.6-200
- - 1700-2.0-200

Outdoor air -23 °C, RH 90%
Extracted air + 20 °C, RH 60%

Electrical engineering data

Fans with plastic impellers							
Model ¹	Fan speed, max., kW	Fan current, A	Fan phase/voltage	Heater max. power, kW	Heater current, A	Heater phase/phase	Total max. power and voltage, kW/A
7-RH F1 E1	5,00	8	3~/400	27	39,02	3~/400	32,5/50,02
7-RH F1 E2	5,00	8	3~/400	30	43,36	3~/400	35,5/54,36
7-RH F1 E3	5,00	8	3~/400	51	73,71	3~/400	56,5/84,71
7-RH F1 W	5,00	8	3~/400	0,8	3,48	1~/230	6,3/14,48
7-RH F2 E1	5,80	9,6	3~/400	27	39,02	3~/400	33,3/51,62
7-RH F2 E2	5,80	9,6	3~/400	30	43,36	3~/400	36,3/55,96
7-RH F2 E3	5,80	9,6	3~/400	51	73,71	3~/400	57,3/86,31
7-RH F2 W	5,80	9,6	3~/400	0,8	3,48	1~/230	7,1/16,08
7-RH F3 E1	6,80	10,8	3~/400	27	39,02	3~/400	34,3/52,82
7-RH F3 E2	6,80	10,8	3~/400	30	43,36	3~/400	37,3/57,16
7-RH F3 E3	6,80	10,8	3~/400	51	73,71	3~/400	58,3/87,51
7-RH F3 W	6,80	10,8	3~/400	0,8	3,48	1~/230	8,1/17,28
7-RH F4 E1	11,60	19,2	3~/400	27	39,02	3~/400	39,1/61,22
7-RH F4 E2	11,60	19,2	3~/400	30	43,36	3~/400	42,1/65,56
7-RH F4 E3	11,60	19,2	3~/400	51	73,71	3~/400	63,1/95,91
7-RH F4 W	11,60	19,2	3~/400	0,8	3,48	1~/230	12,9/25,68

¹ - 7-RH – model, F1 – fan size, E1 – electric heater size, W – water heated as

* - when filters are clean

Fans with metal impellers							
Model ²	Fan speed, max., kW	Fan current, A	Fan phase/voltage	Heater max. power, kW	Heater current, A	Heater phase/phase	Total max. power and voltage, kW/A
7-RH F1 E1	5,00	8,0	3~/400	27	39,02	3~/400	32,5/50,02
7-RH F1 E2	5,00	8,0	3~/400	30	43,36	3~/400	35,5/54,36
7-RH F1 E3	5,00	8,0	3~/400	51	73,71	3~/400	56,5/84,71
7-RH F1 W	5,00	8,0	3~/400	0,8	3,48	1~/230	6,3/14,48
7-RH F2 E1	7,20	11,6	3~/400	27	39,02	3~/400	34,7/53,62
7-RH F2 E2	7,20	11,6	3~/400	30	43,36	3~/400	37,7/57,96
7-RH F2 E3	7,20	11,6	3~/400	51	73,71	3~/400	58,7/88,31
7-RH F2 W	7,20	11,6	3~/400	0,8	3,48	1~/230	8,5/18,08
7-RH F3 E1	7,20	11,8	3~/400	27	39,02	3~/400	34,7/53,82
7-RH F3 E2	7,20	11,8	3~/400	30	43,36	3~/400	37,7/58,16
7-RH F3 E3	7,20	11,8	3~/400	51	73,71	3~/400	58,7/88,51
7-RH F3 W	7,20	11,8	3~/400	0,8	3,48	1~/230	8,5/18,28
7-RH F4 E1	14,40	23,2	3~/400	27	39,02	3~/400	41,9/65,22
7-RH F4 E2	14,40	23,2	3~/400	30	43,36	3~/400	44,9/69,56
7-RH F4 E3	14,40	23,2	3~/400	51	73,71	3~/400	65,9/99,91
7-RH F4 W	14,40	23,2	3~/400	0,8	3,48	1~/230	15,7/29,68

¹ - 7-RH – model, F1 – fan size, E1 – electric heater size, W – water heated as

Operating conditions			
Air temperature and relative humidity	Without pre-heater	With optional standard duct-based pre-heater	With optional non-standard duct-based pre-heater
Outdoor air	-25°C+40°C/ 90%	-32°C+40°C/ 90%	-40°C+40°C/ 90%
Extracted air	+15°C+40°C/ 60%	+15°C+40°C/ 60%	+15°C+40°C/ 60%

Possible installation locations

- › Indoors;
- › Outdoors with optional roof and only with horizontal duct connections.

Work environment

- › -40° C – + 40° C, RH up to 99%

Protection class

- › IP55









Sound data (10000 m ³ /h, 300 Pa, F3 fan)*										
Frequency	Hz	63	125	250	500	1000	2000	4000	8000	All
Outdoor air	dBA	47	83	82	61	56	60	44	36	74
Supply air	dBA	49	85	84	75	74	71	68	71	81
Extract air	dBA	46	78	80	61	56	52	46	44	72
Exhaust air	dBA	46	79	80	77	69	67	61	68	78
To the surroundings	dBA	31	66	68	64	58	60	44	46	66

* Calculate sound data to the selected device at the preferred point with the selection program












ENTIRE SYSTEM FROM ONE SUPPLIER









We make all accessories necessary for installation of your ventilation system: from silencers to heaters. El. Accessories are tested with the automation of the air handling unit, therefore, we guarantee an excellent ventilation system. All accessories selected in the VentMaster selection program!

	Accessory	Product name	Code
	Network Module MB-GATEWAY	MB-GATEWAY	PRGPU082
	Wireless Nano Router TL-WR802N	WIRELESS N NANO ROUTER TL-WR802N	PRGPU105
	S-touch remote controller	STOUCH	PRGPU051
	SA-Control remote controller	SA-CONTROL	PRGPU126
	CO2 Sensors	S-RC02-F2	ZAKKT0048
		S-RC02	ZAKKT0049
	Duct Humidity Sensors	S-KFF-U	ZAKKT0051
		S-RFF-U-D-F2	ZAKKT0050
	Temperature Sensors	TJ1TE-NTC10k3-6x6x22B-2x5.0 m PVC	PJUT0069
		TJ1-NTC10k3B-6x240S-2x2.0mPVC-CF	PJUT0076
	Smoke detector	UG3A40	ZAKKT0110

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	Accessory	Product name	Code
	Presence detectors	IR24-P	ZAKJT019
		IR24-PC	ZAKJT020
	Motion detector	PATROL 701	ZAKJT021
	SWITCH 774451+774411	SWITCH 774451_774411	ZEPSM001
	Actuator SSB 31 200 NM	SSB 31 200 NM	PRGP004
	Actuator SSB 61 200 NM	SSB 61 200 NM	PRGP005
	Actuator SSB 81 200 NM	SSB 81 200 NM	PRGP006
	Actuator SSC 31 200 NM	SSC 31 200 NM	PRGP007
	Actuator SSC 61 300 NM	SC 61 300 NM	PRGP008
	Actuator SSC 81 200 NM	SSC 81 200 NM	PRGP009
	Actuator STA	STA	PRGP001
	Damper actuator NM230A-TP	NM230A-TP	ZAKP0055
	Damper actuator NFA (with spring)	NFA	ZAKP0051
	Thermostat TS1C0P (spiral.)	Thermostat TS1C0P (spiral.)	ZAKT0009
	Thermostat 20-90°C 16A 250V	Thermostat 20-90°C 16A 250V	ZAKT0013
	Pressure relay PS600B	Pressure relay PS600B	ZAKJN0022
	Pressure transmitter single 0-2000Pa	Pressure transmitter single 0-2000Pa	ZAKKT0047
	Pressure transmitter dual 0-2000Pa	Pressure transmitter dual 0-2000Pa	ZAKKT0125
	Water duct-based heater	Compact 7RH W1-H	GNGPR168_1246M
		Compact 7RH W2-H	GNGPR168_1283M
		Compact 7RH W3-H	GNGPR168_1284M
		Compact 7RH W4-H	GNGPR168_1285M
		Compact 7RH W1-V	GNGPR168_1286M
		Compact 7RH W2-V	GNGPR168_1302M
		Compact 7RH W3-V	GNGPR168_1303M
	Electric duct-based heater	El. heater 45kW-H-L-SUP	GPUK168_1293
		El. heater 45kW-H-R-SUP	GPUK168_1294
		El. heater 54kW-H-fl. L-SUP	GPUK168_1291
		El. heater 54kW-H-fl. R-SUP	GPUK168_1292
		El. heater 78kW-H-fl. L-SUP	GPUK168_1289
		El. heater 78kW-H-fl. R-SUP	GPUK168_1290

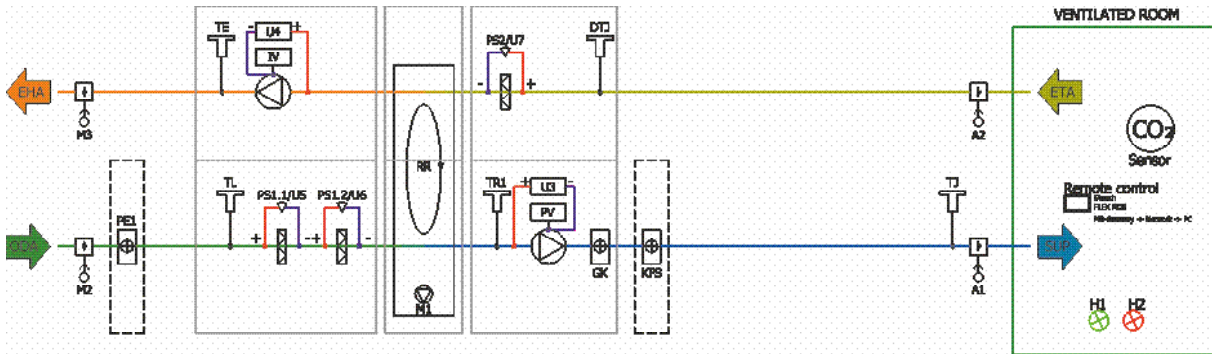
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Accessory	Product name	Code
	El. heater 78kW-H-fl. R-SUP	GPUK168_1290
	El. heater 126kW -H- L-SUP	GPUK168_1287
	El. heater 126kW-H-fl. R-SUP	GPUK168_1288
	El. heater 45kW-V-SUP	GPUK168_1297
	El. heater 54kW-V-SUP	GPUK168_1296
	El. heater 78kW-V-SUP	GPUK168_1295
	El. heater 126kW-V-SUP	GPUK168_1165
	Water duct-based cooler 2 rows	GNGPR168_1239_0
	Water duct-based cooler 4 rows	GNGPR168_1253_0
	Comfort Box 1747x967 HW4+CDX4+DE	GSIASD0081
	Comfort Box 1747x967 CW2+DE	GSIASD0082
	Comfort Box 1747x967 CW4+DE	GSIASD0083
	Comfort Box 1747x967 CDX2+DE	GSIASD0084
	Comfort Box 1747x967 CDX4+DE	GSIASD0085
	Comfort Box 1747x967 HW1+CW2+DE	GSIASD0086
	Comfort Box 1747x967 HW1+CW4+DE	GSIASD0087
	Comfort Box 1747x967 HW1+CDX2+DE	GSIASD0088
	Comfort Box 1747x967 HW1+CDX4+DE	GSIASD0089
	Comfort Box 1747x967 HW2+CW2+DE	GSIASD0090
	Comfort Box 1747x967 HW2+CW4+DE	GSIASD0091
	Comfort Box 1747x967 HW2+CDX2+DE	GSIASD0092
	Comfort Box 1747x967 HW2+CDX4+DE	GSIASD0093
	Comfort Box 1747x967 HW3+CW2+DE	GSIASD0094
	Comfort Box 1747x967 HW3+CW4+DE	GSIASD0095
	Comfort Box 1747x967 HW3+CDX2+DE	GSIASD0096
	Comfort Box 1747x967 HW3+CDX4+DE	GSIASD0097
	Comfort Box 1747x967 HW4+CW2+DE	GSIASD0098
	Comfort Box 1747x967 HW4+CW4+DE	GSIASD0099
	Comfort Box 1747x967 HW4+CDX2+DE	GSIASD0100
	Water Cooler Support frame	GPURA168_1249M
	SSP 1753x973x1000	GSOSSP216_1036
	SSP 1753x522x1000	GSOSSP216_1035
	AKS 710- 800-10	GSOAKS126

Accessory		Product name	Code
	Rectangular flexible connect-or LJ/PG	LJ/E 174,9x51,8	GLJLJ/E052
		LJ/E 174,9x96,9	GLJLJ/E051
	Flexible connector LSVF 710	LSVF 710	GVELSVF018
	SSK damper 2 tightness class	SSK 1747x967	GSKSSK013_1078M
		SSK 1747x516	GSKSSK013_1080M
	SSK damper 4 tightness class	SER100AL32RD B 1727 x H 967, shaft 100 (MS)	ZPDKA0398
		SER100AL32RD B 1727 x H 516, shaft 100 (MS)	ZPDKA0397
	Shut-off damper SKG 710	SKG 710	GSKSKG065
	Rectangular outlet cover OC	OC 1753x973	GNGPR168_1250_0
		OC 1855x1020	GNGPR168_1255_0
	Reducer STP-C to Ø710	STP-C 1747x516-710	GSFSTPR161_1000
		STP-C 1747x967-710	GSFSTPR161_1001
	Outlet cover ABV 710	ABV 710	GFDABV0710
	RMG unit	RMG unit	According to VentMaster
	Valve VVP/VXP	Valve VVP/VXP	According to VentMaster
	7RH Unit roof	Roof Compact 7 RH	GNGPR168_1164
	Roof CB	Roof CB 1747x967	GNGPR168_1252_0
	Roof for water duct-based heater	Roof for water duct-based heater	GNGPR168_1256M
	Roof for electric duct-based heater	Roof for electric duct-based heater	GNGPR168_1298
	Roof for duct-based cooler 2/4 rows	Roof for duct-based cooler 2/4 rows	GNGPR168_1257_0

Flow chart

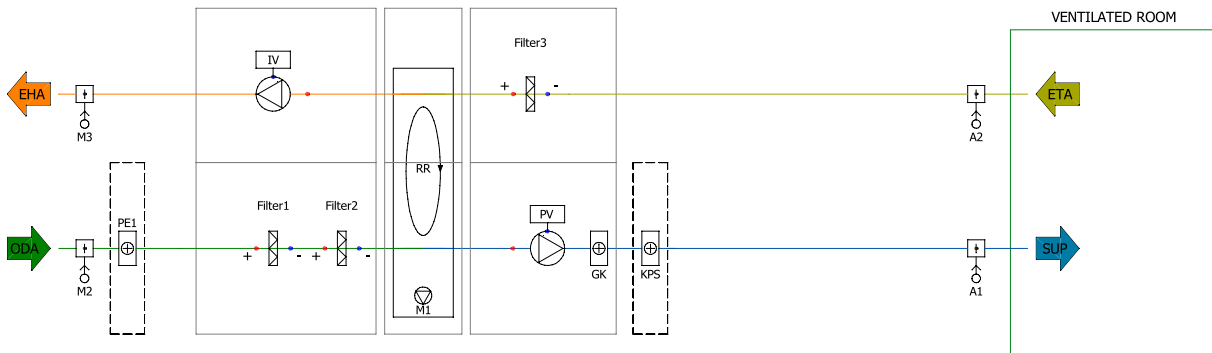
Option 1: with integrated control board



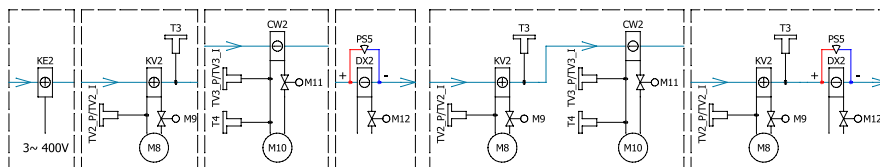
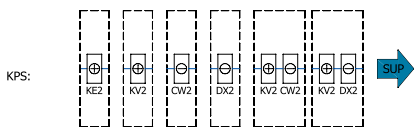
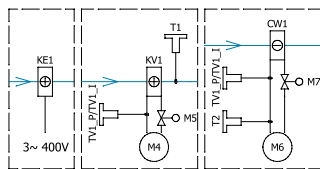
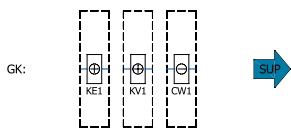
Possible PCB digital inputs/outputs:

- › FA – Fire alarm
- › FPP – Fire place protection
- › System mode switch (START/STOP)
- › Fan speed switch (BOOST)
- › H1 – Working indication output
- › H2 – Alarm indication output

Option 2: prewiring

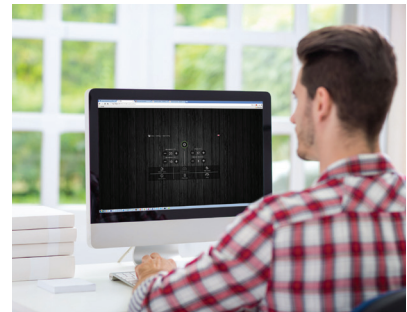


Heaters/coolers

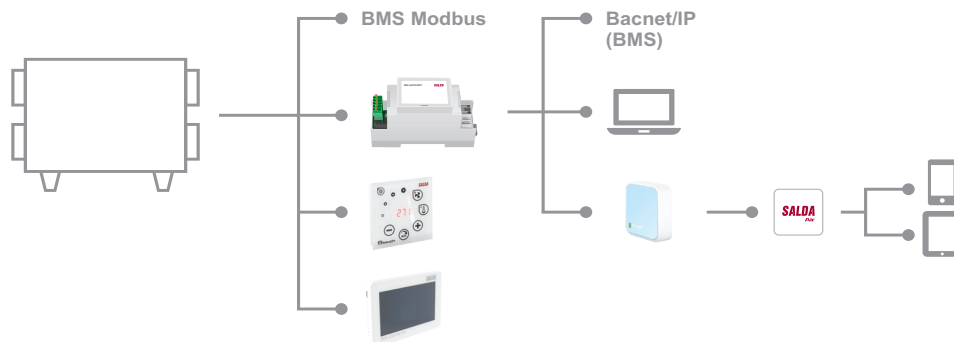


Abbreviations:					
A1/A2	Fire damper actuators	PS2/U7	Extracted air filter pressure switch/transmitter	KE1	Integrated electric heater
DTJ	Extract air temperature and humidity sensor	PV	Supply air fan	KE2	Duct-based electric heater
EHA	Exhaust air	RR	Rotor heat exchanger	KV1	Integrated water heater
ETA	Extracted air	TE	Exhaust air temperature sensor	KV2	Duct-based water heater
ODA	Outdoor air	TJ	Supply air temperature sensor	M10/M6	Circulation pump of the water cooler
SUP	Supply air	TL	Outdoor temperature sensor	M11/M7	Water cooler damper actuator
GK	Integrated heater/cooler	TR1	Air downstream heat exchanger temperature sensor	M12	Freon cooler damper actuator (0-10VDC)
IV	Exhaust air fan	CW1	Integrated water cooler	M4/M8	Water heater circulation pump
KPS	Duct-based heater/cooler	CW2	Duct-based water cooler	M5/M9	Water heater damper actuator
M2	Outdoor air damper actuator	CW3	Duct-based water cooler	PS5	Freon cooler defrost pressure switch
M3	Exhaust air damper actuator	DX2	Duct-based freon cooler	T1/T3	Water heater safety thermostat
PE1	Electric preheater	Filter1	Supply air pre-filter	T2/T4	Water cooler switch thermostat
PS1.1/U5	Supply air pre-filter pressure switch/transmitter	Filter2	Supply air filter	TV1_P/TV1_I/ TV2_P/TV2_I	Water heater temperature sensor (P - on the pipe/I - in the pipe)
PS1.1/U6	Supply air filter pressure switch/transmitter	Filter3	Extract air filter	TV3_P/TV3_I	Water cooler temperature sensor (P - on the pipe/I - in the pipe)

WIDE SELECTION OF CONTROL OPTIONS



AmberAir Compact air handling units can be controlled both through the BMS systems and the remote control panel, as well as the latest SALDA AIR mobile application.



Functions

Description of functions	MCB
Humidity reduction	✓
Connection of remote control panel	✓
Connection to the building management systems	✓
Setting the time and date	✓
Manual component control	✓
4 operating modes	✓
BOOST function	✓
Event register (up to 50 entries)	✓
Configure digital inputs	✓
Operation indication output	✓
Warning indication output	✓
System monitoring	✓
Operating mode switching by external contactor	◦
Cold/heat recovery	✓
Summer/Winter mode	✓
Supply air temperature control and compensation	✓
Weekly calendar	✓
Holiday calendar	✓
Factory parameter reset	✓
CO2 level reduction	◦
Dryness protection	✓
Fan control by pressure	✓
Night cooling	✓
Fireplace function	✓
Fire protection from external contact	◦
Dampers	
Outdoor and exhaust air damper actuator control	✓
Fans	
Fan malfunction indicator (NC)	✓
Protection by rotation speed	✓
Protection by pressure	✓
Sensors	
Supply air temperature sensor	✓
Supply air temperature sensor after the rotor	✓
Outdoor temperature sensor	✓
Extract air temperature and humidity sensor DTJ	✓
Exhaust air temperature sensor	✓
Water heater water temperature sensor	✓*
Water cooler water temperature sensor	✓*
Electric heater	
Control by 0-10V signal	✓*
Automatic and manual protection (NC)	✓*
Electric preheater	
Control by 0-10V signal	✓*
Automatic and manual protection (NC)	✓*
Water heater	
0-10V (PWM) damper control	✓*
Heater protection - thermostat (NC)	✓*
Circulation pump control	✓*
Heater protection - water temperature sensor	✓*
Water cooler	
0-10V (PWM) damper control	✓*
Circulation pump control	✓*
Control switching (cooling/heating)	✓*
Filter contamination protection	
Protection by relays	✓*
Filter timer	✓*
Protection by pressure transmitters (optional)	✓*

Description of functions	MCB
Fire dampers	
Fire damper control	✓
Testing of fire damper	✓
Freon cooler	
0-10V control	✓*
Safety indication (NC)	✓*
Defrosting (NC)	✓*
Control switching (cooling/heating)	✓*
Recirculation (in case of recirculation section)	
0-10V (PWM) damper actuator control	✓*
Step motor control	✓*
Rotor	
0-10VDC motor control	✓
On/Off power line control	✓
Protection against belt breakage	✓
Rotation speed setting	✓
Service timer	✓
Remote control panels	
S-Touch	x
MB Gateway	x
SA-Control	x
BMS (Modbus)	✓
BMS (BACnet)	o

- o - requires additional components
- ✓ - standard function
- x - choices for remote control panels
- * - depends on the choice of the compact air handling unit

QUALITY ASSURANCE

The quality of the compact air handling units is determined by our business philosophy and investment in product development, production equipment, and staff qualifications upgrading. According to the ISO 9001:2015 standard, we have strictly regulated processes from product design, testing, procurement of raw materials and components, from production to final inspection that ensure that our customers receive air handling units conforming to highest standards.

- › Compact air handling unit components are only purchased from leading manufacturers in the EU: fans – ebm-papst, ZIEHL-ABBEG; heat exchangers – Klingenburg, Recutech, HOVAL; actuators – Belimo. The fan's expected service life is over 15 years!
- › Our air handling units pass the 4-step control system:



- › High-quality assemblage ensures high-level tightness of the product, low heat loss, and durability. AmberAir Compact air handling unit casing SD50+ has the best characteristics on the market.

TITLE ENCODING

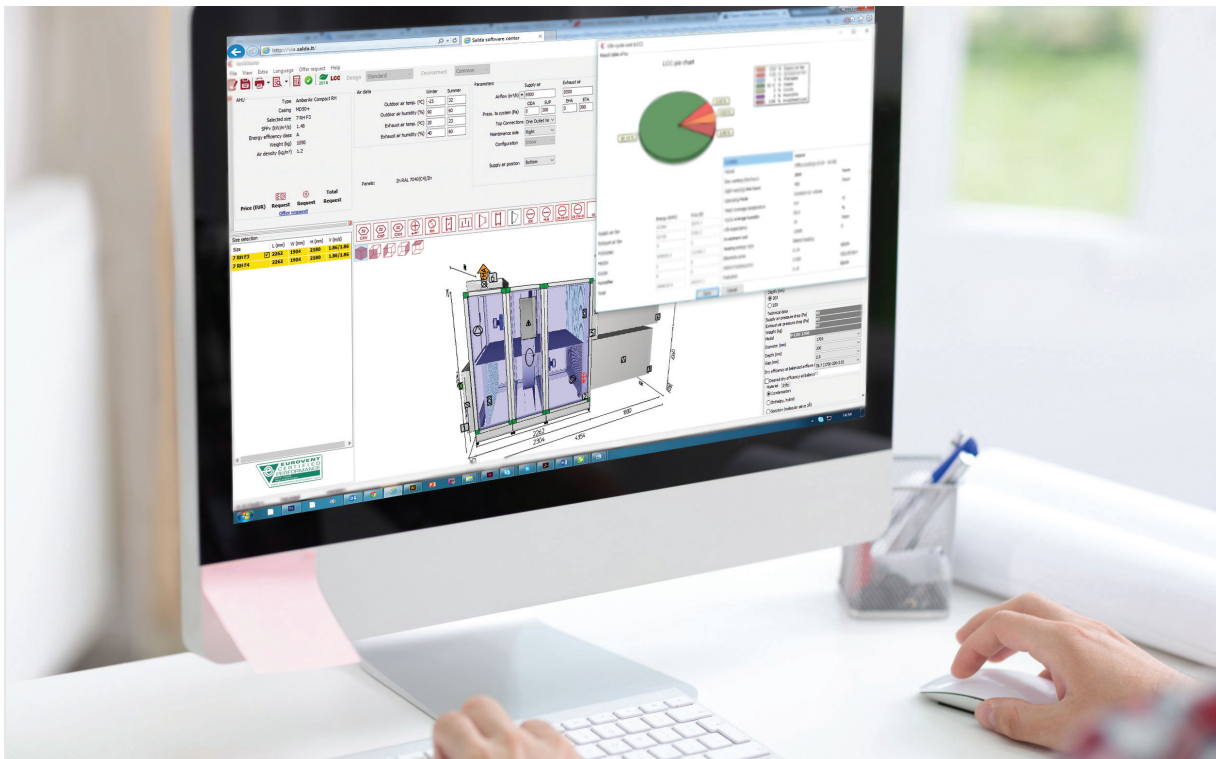
AmberAir

Compact **SD50+** **07** **R00** **HV6** **L** **F1** **C / 1500 / 2.0 / 250** **W 3** **C1** **CORS/B/PM01/PM10** **P00000**

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1	Casing type (SD – PU insulation, MD – rock wool insulation; + – profile without thermal bridge)	9	Rotor gap size
2	Model size (possible options – 2-8)	10	Rotor width (available sizes 200 mm and 250 mm)
3	Rotor heat exchanger	11	Type of integrated heater/cooler (E – electric, W – water heater, C – water cooler (reversible))
4	Duct connection (H1 – supply air on the lower floor, horizontally connected ducts; H2 – supply air at the top, horizontally connected ducts; HV1 – top connection of extracted air; HV2 – top connection of outdoor air; HV3 – bottom connection of exhaust air; HV4 – top connection of supply air; HV5 – top connection of supply and outdoor air; HV6 – top connection of exhaust and extracted air)	12	Electric heater power level or number of water heater/cooler rows
5	Service side (L – left, R – right)	13	Type of automation (C1 – MCB control panel, C2 – prewiring)
6	Fan (F1 – nominal point 6000 m ³ /h, at 300 Pa and SFPv ~ 1.8 kW (m ³ /s), F2 – 8000 m ³ /h; F3 – 10000 m ³ /h), F4 – 14000 m ³ /h)	14	Description of filters (pre-filter class/supply air filter class/extraction air filter class, B-pocket filters/P-panel filters)
7	Rotor type (C – condensing; E – enthalpy; S – sorption)	15	Configuration of electrical accessories
8	Rotor diameter (available diameters 1500 mm, 1700 mm, 1900 mm)		

SMART SELECTION PROGRAM FOR AmberAir Compact AIR HANDLING UNITS VentMaster V5



Choosing AmberAir Compact RH with VentMaster is quick and easy:

- › simulation in 3D environment;
- › automatic selection of components and accessories;
- › price calculation and direct ordering (for registered users only);
- › exporting a drawing to .dxf format;
- › exporting drawings and technical data to Autodesk Revit;
- › LCC calculations.

Choose the optimal option using the LCC (operating costs) calculation program, which determines the costs during the lifetime of the air handling unit, taking into consideration:

- › initial investment;
- › fan power consumption;
- › cost of heating, electricity, fuel or hot water.

2 YEAR WARRANTY



Using only reliable components and modern manufacturing equipment, we guarantee the quality of our products and ensure exceptional trouble-free period of operation. 2-year warranty for all SALDA air handling units.




Tested by an independent laboratory SIVENTA in accordance with EN ISO/IEC 17025.

Tests performed:

- › Aerodynamic;
- › Thermal;
- › Acoustic;
- › Electric operation;
- › Sound power level;
- › Sound power level setting.


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