



Residential/commercial units selection program:
<http://salda.lt/en/selection/ahu>

AmberAir Compact units selection program VentMaster:
http://salda.lt/en/products/category/download_page/

SALDA
WWW.SALDA.LT



Rotor



Counter-flow



AIR HANDLING UNITS

AmberAir Compact | Smarty | RIS EKO 3.0 | RIRS EKO 3.0

COMPACT AIR HANDLING UNITS



THE LARGEST SELECTION OF COMPACT AIR HANDLING UNITS

Every project requires its own solution for the air handling. Salda over the past 26 years has developed a comprehensive range of compact air handling units. It allows our clients to enjoy variety, as usually modular units provide, with advantages of standardized units, fast delivery terms and easy maintenance.

AIRFLOW RANGE:

From **200m³/h** up to **8500m³/h**

ALL TYPES OF BUILDINGS:



Residential



Commercial



Public



Industrial

FOR ALL CLIMATE CONDITIONS:

From **-40°C*** up to **+40°C**
*with appropriate preheater

HEAT EXCHANGERS:



Rotary



Counter-flow

ANY LOCATION:



Outdoor



Indoor

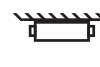
ANY MOUNTING:



Vertical



Horizontal

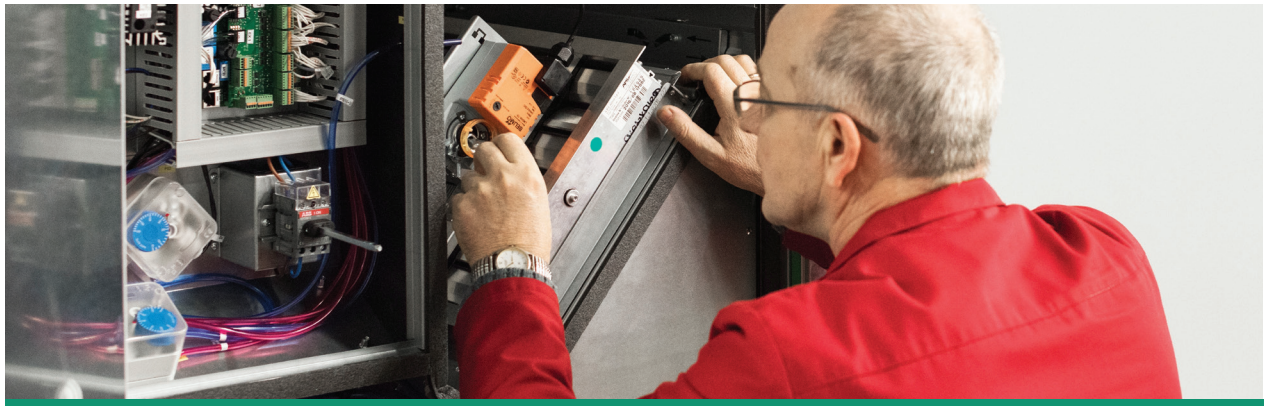


Ceiling

BE ONE STEP AHEAD WITH SALDA:
GET THE BEST PRICE-TO-QUALITY RATIO!

- › Fast delivery terms: manufacturing done in 2 weeks;
- › The widest range of units and customized solutions;
- › High quality: premium-class components and the best casing;
- › Easy installation: Plug&Play units;
- › Advanced control board: demand control ready, web module, BMS connection;
- › Reliability: new units have been tested at TÜV SÜD. Passivhaus certification¹.
- › Continuous innovations: 20% new products each year.

¹ Passivhaus certified range: Smarty X units



QUALITY
THAT MATTERS

Our goal is to deliver top-quality products. The quality of compact units is guaranteed by our business philosophy and continuous improvements and investments into product development and machinery:

- › Only components from top European manufacturers are being installed in units;
- › 4-step quality control in manufacturing;
- › Top-class casing with the lowest leakage rates;
- › Testing and certification at top EU laboratories and associations.

The performance of compact air handling units is measured in all climatic conditions:

- › Efficiency and performance measurements in the climatic chamber;
- › Life-long factory service test in a real environment;
- › Rotor unit performance test in Nordic climate at Kiruna, Sweden.

All new products are also tested at TÜV SÜD in Germany and certified by prestigious European organizations such as Passivhaus institute (residential units Smarty).

TOP CLASS CASING FROM SALDA

One of the main features of all equipment is the quality of the casing. In heat recovery units, casing plays a key role as air leakage and heat energy losses are vital to the performance of the whole ventilation system. With our units we guarantee:

- › Top class airtightness: A1 (residential) or L1/L2 (non-residential);
- › Advanced casing insulation: EPP casing in Smarty X range or new generation polyurethane panels for SD50+ casing.

SD50+ casing for AmberAir Compact CXV and CXH units: the highest airtightness and the best thermal bridging factor in the market!

Model	Casing strength class	Casing air leakage class at 400 Pa	Casing air leakage class at 700 Pa	Filter bypass leakage class	Thermal transmittance class	Thermal bridging factor class
SD50+	D1(M)	L1(M)	L1(M)	F9(M)	T2	TB1

The casing properties of residential units are guaranteed by end-of-line testing in the manufacturing process.



EFFICIENCY FOR YOUR PROJECT

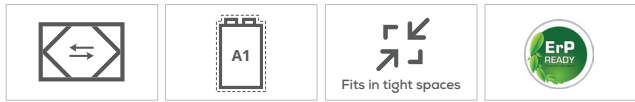
Every air handling unit includes a 4-step solution to maximize energy efficiency:

 <p>Counter-flow up to 91% heat exchangers¹ Rotor up to 81% heat exchangers¹</p>	 <p>Efficient EC fans</p>	 <p>A1, L1/L2 High airtightness</p>	 <p>Smart demand control-ready control board</p>
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¹According EU No 1253/2014

RESIDENTIAL AIR HANDLING

COUNTER-FLOW UNITS



Unit	Mounting position	Energy efficiency class	Max. Airflow at 50 Pa, m³/h	Heat recovery rate¹, %	Dimensions⁴ (LxWxH), mm	Electric power input of fan, W	Sound power level¹	Heater, kW		Filter Class	Annual energy savings, kWh¹
								Electrical	Water		
Smarty 2X P 1.1/1.2	Ceiling/Horizontal	A+²	219	85	1009x590x250	51x2	45	0-10V optional on duct	-	G4/G4³	3949
Smarty 3X P 1.1/1.2	Ceiling/Horizontal	A+²	350	87	1225x685x318	85x2	49	0-10V optional on duct	-	G4/G4³	4160
NEW Smarty 4X P 1.1/1.2	Ceiling/Horizontal	A²	580	82	1225x685x318	210x2	51	0-10V optional on duct	-	G4/G4³	3802
Smarty 2X V 1.1/1.2	Vertical	A+²	185	91	595x316x697	35x2	44	0-10V optional on duct	-	G4/G4³	4230
Smarty 3X V 1.1/1.2	Vertical	A+²	370	87	599x538x810	83x2	47	0-10V optional on duct	-	G4/G4³	4100
NEW Smarty 4X V 1.1/1.2	Vertical	A²	580	82	599x538x810	210x2	51	0-10V optional on duct	-	G4/G4³	3802
RIS 400 PE/PW EKO 3.0	Ceiling	A	395	81	1300x769x330	85x2	50	0.9/1.6/3.0	Optional on duct	F7/M5	4386
RIS 700 PE/PW EKO 3.0	Ceiling	A	700	81	1380x1074x350	168x2	50	1.2/3.0/4.5	Optional on duct	F7/M5	4386
RIS 700 VE/VW EKO 3.0	Vertical	A	750	81	1000x670x1110	168x2	51	1.2	Optional on duct	M5/M5	4090
RIS 700 HE/HW EKO 3.0	Horizontal	A	760	81	1200x670x975	168x2	55	1.2	Optional on duct	M5/M5	4060

1 - according to EU No 1253/2014

2 - Smarty are available in 2 versions. Only version V1.1 with additional CO2 or RH sensors complies to A+/A, the V1.2 version complies to A/B class

3 - optionally, can be supplied with F7 class supply air filter

4 - legs are included in the dimensions (except ceiling and Smarty units)

VERSIONS

Save on equipment: select the unit according to the climate zone and project requirements.

Product name	Smarty 2X V 1.1	Smarty 2X V 1.2	Smarty 3X V 1.1	Smarty 3X V 1.2	Smarty 4X V 1.1	Smarty 4X V 1.2	Smarty 2X P 1.1	Smarty 2X P 1.2	Smarty 3X P 1.1	Smarty 3X P 1.2	Smarty 3X P 1.4	Smarty 4X P 1.1	Smarty 4X P 1.2
Energy efficiency class	A*	A	A*	A	A*	B	A*	A	A*	A	A*	A*	B
Control board	Mini MCB	Mini MCB Basic	Mini MCB	Mini MCB Basic	Mini MCB	Mini MCB Basic	Mini MCB	Mini MCB Basic	Mini MCB	Mini MCB Basic	MCB	Mini MCB	Mini MCB Basic
Version	Premium	Advanced	Premium	Advanced	Premium	Advanced	Premium	Advanced	Premium	Advanced	Premium*	Premium	Advanced
Heat recovery	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Temp. control	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bypass damper	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pressure sensor (constant air flow)			✓		✓				✓		✓	✓	
Integrated pre-heater	✓		✓		✓								
Optional heating elements													
Duct-based pre-heater		✓**		✓**		✓**	✓	✓**	✓	✓**	✓	✓	✓**
Duct-based heater	✓	✓**	✓	✓**	✓	✓**	✓	✓**	✓	✓**	✓	✓	✓**

* - version V1.1 with additional CO2 or RH sensors complies to A+/A.

** - only with pre-heater or heater.

RESIDENTIAL AIR HANDLING

ROTARY UNITS



NEW

Unit	Mounting position	Energy efficiency class	Max. Airflow at 50 Pa, m³/h	Heat recovery rate ¹ , %	Dimensions ² (LxWxH), mm	Electric power input of fan, W	Sound power level ¹	Heater, kW		Filter Class	Kitchen hood connection Ø, mm	Annual energy savings, kWh ¹
								Electrical	Water			
Smarty 2R VE	Vertical	B	214	68	598x320x620	70x2	41	0.6	-	M5/M5	125	3690
Smarty 2R VE plus	Vertical	B	254	69	598x320x620	84x2	46	0.6	-	M5/M5	125	3670
RIRS 350 PE/PW EKO 3.0	Ceiling	A	308	81	900x693x398	83x2	49	0.6	Optional on duct	F7/M5	-	4110
RIRS 400 VE/VW EKO 3.0	Vertical	A	388	75	900x553x890	85x2	46	1.2	Optional on duct	F7/M5	-	3970
RIRS 700 VE/VW EKO 3.0	Vertical	A	751	73	1100x655x1020	168x2	47	2.0	Optional on duct	F7/M5	-	3890
RIRS 400 HE/HW EKO 3.0	Horizontal	A	400	75	1000x560x650	85x2	46	1.1	Optional on duct	F7/M5	125	3960
RIRS 700 HE/HW EKO 3.0	Horizontal	A	735	73	1100x653x740	168x2	48	2.0	Optional on duct	F7/M5	125	3880

1 - according EU No 1253/2014

2 - legs are included in the dimensions (except ceiling and Smarty units)



COMPACT AIR HANDLING UNITS

RIS EKO 3.0

Unit	Nominal airflow rate ¹ , m ³ /h	Heat recovery rate ¹ , %	Dimensions ² (LxWxH), mm	Electric power input of fan, W	Sound power level ¹	Heater, kW		Filter Class	Outdoor version
						Electrical	Water		
CEILING UNITS									
RIS 1200 PE/PW EKO 3.0	1260	80	1750x1500x390	370x2	56	3.0/6.0/9.0	Optional on duct	F7/M5	-
RIS 1900 PE/PW EKO 3.0	1660	81	1710x1955x399	485x2	59	3.0/6.0/12.0	Optional on duct	F7/M5	-
RIS 2500 PE/PW EKO 3.0	2300	80	1850x2055x499	675x2	61	4.5/9.0/18.0	Optional on duct	F7/M5	-
VERTICAL UNITS									
RIS 1200 VE/VW EKO 3.0	1190	79	1350x760x1326	430x2	60	2.0	Optional on duct	F7/M5	-
RIS 1900 VE/VW EKO 3.0	1620	80	2000x802x1740	490x2	57	3.0	Optional on duct	F7/M5	-
RIS 2200 VE/VW EKO 3.0	2160	79	2000x802x1740	715x2	62	3.0	Optional on duct	F7/M5	-
HORIZONTAL UNITS									
RIS 1200 HE/HW EKO 3.0	1190	80	1500x760x1210	400x2	57	2.0	Optional on duct	F7/M5	+
RIS 1900 HE/HW EKO 3.0	1510	80	1800x802x1492	480x2	58	3.0	Optional on duct	F7/M5	+
RIS 2200 HE/HW EKO 3.0	2090	79	1800x802x1492	720x2	63	3.0	Optional on duct	F7/M5	+
RIS 2500 HE/HW EKO 3.0	2660	80	2100x900x1643	880x2	62	3.6	Optional on duct	F7/M5	+
RIS 3500 HE/HW EKO 3.0	3560	80	2756x946x1909	1160x2	67	6.0	Optional on duct	F7/M5	+
RIS 5500 HE/HW EKO 3.0	5330	79	2644x1670x1780	1840x2	73	12.0	Optional on duct	F7/M5	+

1 - according EU No 1253/2014

2 - legs and protruding parts are included in dimensions

COMPACT AIR HANDLING UNITS

RIRS EKO 3.0

Unit	Nominal airflow rate ¹ , m ³ /h	Heat recovery rate ¹ , %	Dimensions ² (LxWxH), mm	Electric power input of fan, W	Sound power level ¹	Heater, kW		Filter Class	Outdoor version
						Electrical	Water		
VERTICAL UNITS									
RIRS 1200 VE/VW EKO 3.0	1300	75	1500x855x1220	408x2	57	4.0	Optional on duct	F7/M5	-
RIRS 1900 VE/VW EKO 3.0	1480	73	1500x855x1220	470x2	58	9.0	Optional on duct	M5/F7	-
RIRS 2500 VE/VW EKO 3.0	2380	75	1600x900x1410	750x2	60	9.0	Optional on duct	M5/F7	+
RIRS 3500 VE/VW EKO 3.0	3820	71	1930x1010x1310	1330x2	67	12.0	Optional on duct	M5/F7	+
RIRS 5500 VE/VW EKO 3.0	5650	71	2117x1541x1590	1900x2	71	18.0	Optional on duct	M5/F7	+
HORIZONTAL UNITS									
RIRS 1200 HE/HW EKO 3.0	1300	75	1350x855x1110	435x2	53	4.0	Optional on duct	M5/F7	+
RIRS 1900 HE/HW EKO 3.0	1480	73	1350x855x1110	490x2	59	9.0	Optional on duct	M5/F7	+
RIRS 2500 HE/HW EKO 3.0	2480	80	1608x1110x1387	710x2	59	9.0	Optional on duct	M5/F7	+
RIRS 3500 HE/HW EKO 3.0	4000	77	1901x1205x1620	1300x2	63	12.0	Optional on duct	M5/F7	+
RIRS 5500 HE/HW EKO 3.0	6080	76	1908x1404x1775	1980x2	69	15.0	Optional on duct	M5/F7	+

1 - according EU No 1253/2014

2 - legs and protruding parts are included in dimensions

AmberAir COMPACT

The AmberAir Compact CX V 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.

The AmberAir Compact CX P is a range of new generation ceiling air handling units with an advanced casing and unique maintenance solution that allows a unit to be installed indoors or outdoors (with optional roofing), including under the ceiling and on the ground.



Unit	Nominal airflow rate ¹ , m ³ /h	Heat recovery rate ¹ , %	Dimensions ² (LxWxH), mm	Electric power input of fan, W	Sound power level ¹	Heater, kW		Filter Class	Outdoor version
						Electrical	Water*		
VERTICAL UNITS **									
1CXV F1	1224	81	1740x850x1478	380x2	60	2.0/3.0	2.7/3.1	G4/M5/F7	+
1CXV F2	1404	80	1935x850x1478	470x2	61	2.0/3.0	2.7/3.1	G4/M5/F7	+
2CXV F1	1728	84	1937x855x1538	470x2	59	3.0/4.0	3.1/3.4	G4/M5/F7	+
2CXV F2	2232	83	1937x855x1538	715x2	64	3.0/4.0	3.1/3.4	G4/M5/F7	+
3CXV F1	2196	85	2070x895x1593	715x2	64	4.0/6.0	4.2/4.7	G4/M5/F7	+
3CXV F2	2988	84	2070x895x1593	1280x2	63	4.0/6.0	4.2/4.7	G4/M5/F7	+
4CXV F1	3600	83	2070x1220x1593	1280x2	65	6.0/7.0	6.2/6.9	G4/M5/F7	+
4CXV F2	3708	83	2070x1220x1593	1900x2	66	6.0/7.0	6.2/6.9	G4/M5/F7	+
5CXV F1	4284	84	2220x1290x1638	1900x2	69	7.0/9.0	6.4/7.1	G4/M5/F7	+
5CXV F2	4716	84	2220x1290x1638	2275x2	65	7.0/9.0	6.4/7.1	G4/M5/F7	+
6CXV F1	5616	84	2715x1595x1848	2275x2	68	9.0/9.0	9.7/10.3	G4/M5/F7	+
6CXV F2	6192	84	2715x1595x1848	2840x2	67	9.0/9.0	9.7/10.3	G4/M5/F7	+
7CXV F1	7236	85	2785x1960x1888	2840x2	69	12.0/15.0	12.2/13.4	G4/M5/F7	+
7CXV F2	7884	84	2785x1960x1888	3405x2	69	12.0/15.0	12.2/13.4	G4/M5/F7	+
CEILING UNITS									
1CXP	1152	80	1750x1534x385	450x2	55	2.0/3.6	2.5/6.3	G4/M5/F7	+
2CXP	1908	79	1850x1975x400	795x2	57	3.0/6.0	3.0/5.6	G4/M5/F7	+
3CXP	2520	79	1950x2185x400	1115x2	59	4.5/9.0	4.3/6.6	G4/M5/F7	+
4CXP	3384	79	2250x2370x500	2135x2	67	6.0/12.0	5.3/10.0	G4/M5/F7	+

NEW

* - water temperature 60/40°C
 ** - fan type (F1 - standard, F2 - more powerful)
 1 - according EU No 1253/2014
 2 - legs are included in CXV dimensions



ADDITIONAL SAVINGS WITH DEMAND CONTROLLED VENTILATION

Modern ventilation control equipment from Salda provides more than just expert handling possibilities - it also allows users to save on energy. All currently installed control boards - MCB (AmberAir), MiniMCB (Smarty) and PRV (RIS/RIS EKO 3.0) - are demand-control ready. Additional CO2 or relative humidity sensors can be connected for full control of the climate. Demand-control ventilation allows saving triple the amount of electrical energy than manual control can afford. Together with a standard calendar, night cooling and fireplace mode functions, the MCB control board controls the whole ventilation system: air dampers, heaters (water, electrical), coolers (water or DX). The unit fully integrates in the entire building system: fire alarm connection with fire damper test, building management system connection. The key benefits of the MCB control board are as follows:



- › Demand-control ready: optimized ventilation by air quality sensors;
- › Time-controlled ventilation: optimal ventilation by calendar events;
- › Control of the external components: own control board eliminates any need for expensive heaters etc.

MAIN FUNCTIONS:

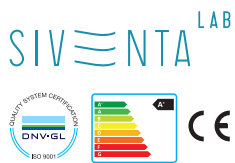
- › 4 airflow modes for convenient control;
- › Boost;
- › Supply air temperature control;
- › Holiday schedule;
- › Weekly schedule;
- › Fire place mode;
- › Night cooling function;
- › Relative humidity level control*;
- › Dryness protection*;
- › CO2 level control**;
- › Filter pollution monitoring (pressure switch*** or timer);
- › Frost protection of heat exchanger;
- › Rotor fault protection;
- › Connection and smart control of el. heater/preheater (on/off or 0-10V);
- › Control and protection of water heater/cooler or DX cooler;
- › Control of air dampers;
- › Connection of fire alarm system;
- › BMS connection;
- › PC connection via MB-Gateway.

* - AmberAir Compact EXP, RIS/RIRS EKO 3.0 have integrated DTJ sensor (extract air humidity and temperature sensor) for other units additional RH sensor is required for this function

** - additional CO2 sensor is required for this function

*** - pressure switches is installed in commercial AHU only in residential unit they are available as accessory

TESTED PERFORMANCE



Tested in independent Laboratory "SIVENTA", according EN ISO/IEC 17025.

Performed tests:

- › Aerodynamic.
- › Thermal.
- › Acoustic.
- › Electrical performance.
- › Sound power level.
- › Sound energy level determination.

Quick and convenient selection at www.salda.lt or VentMaster v5 (AmberAir)

Salda provides a user-friendly product selection tool for compact air handling units. It will help you save time and find the best solution for your project.

- › Up-to-date information;
- › Full technical data for specific points;
- › Wide range of suitable options to choose from.



2 year warranty



Spare parts for 10years



2 weeks delivery



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