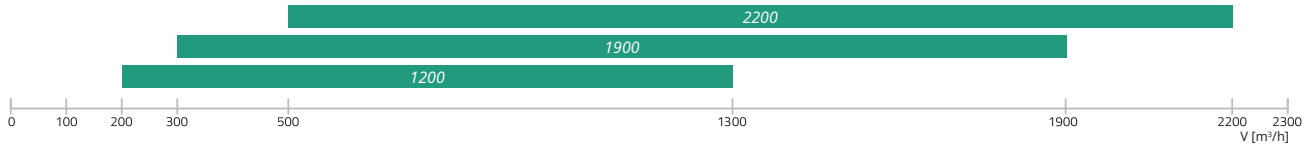


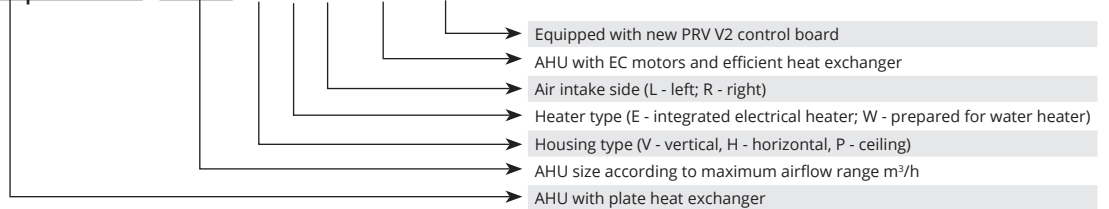
AMBERAIR COMPACT RIS V EKO



AIR HANDLING UNITS

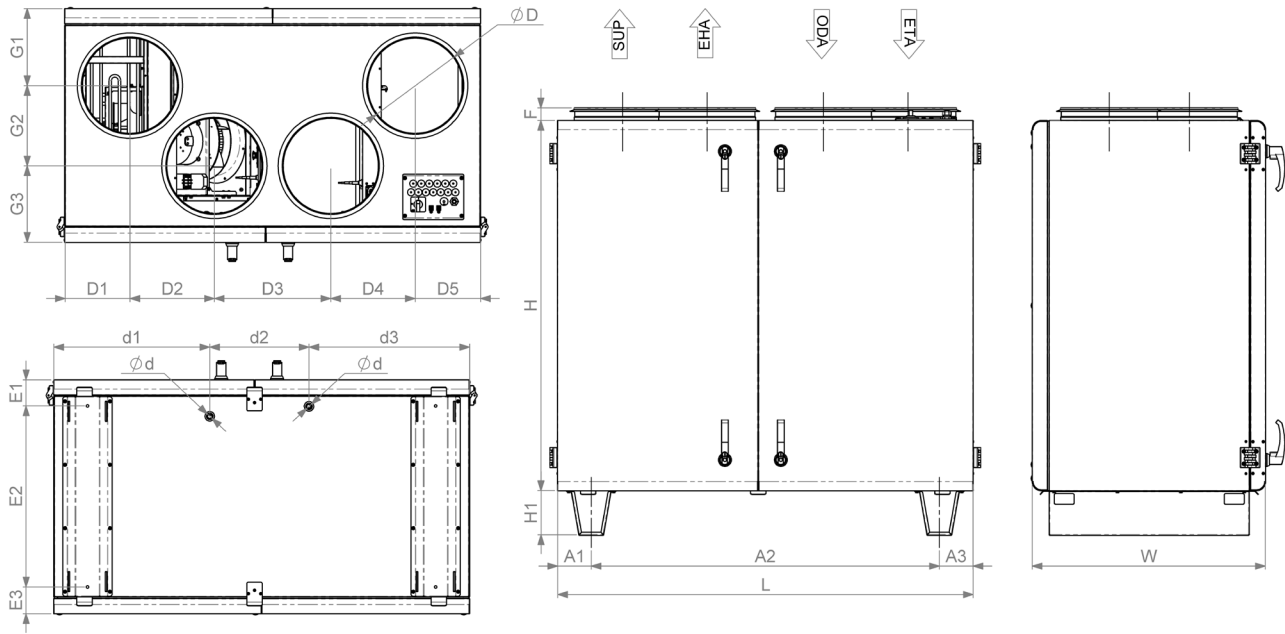
Application	Ventilation of houses, offices or other heated premises (classrooms, apartments, conference rooms, etc.)
Description	<p>AmberAir Compact RIS V EKO 3.0 is a range of heat recovery units with high-efficiency counter-flow heat exchangers and vertical duct connections. Units are designed for placement on the floor. Due to vertical ducting, the units are suitable for installation in various premises (basements, boiler rooms, etc). There are 3 sizes (airflow interval 1300-2200 m³/h) with left/right connection sides.</p> <p>AmberAir Compact RIS V EKO 3.0 units have high overall energy savings due to the highly efficient heat recovery (up to 90%), quiet and economical EC fans, effective low-pressure-drop filters and top-level of air tightness.</p> <p>Energy efficiency ensures full thermal comfort for passive houses, without an additional pre-heater at temperatures above -5°C.</p> <p>All the AmberAir Compact RIS V EKO 3.0 units are fully equipped with automatic controls. Optional external sensors for CO₂ and humidity and so the event planning feature will help to control automatically your climate (demand-level control).</p> <p>AmberAir Compact RIS V EKO 3.0 units are service-friendly and are easy to mount. Filter pollution identified by contamination controls.</p> <p>All units are supplied tested and ready to install.</p>
Remote control	<p>Three remote control options are available:</p> <ol style="list-style-type: none"> 1. Flex, Stouch or SA Control remote controllers. 2. Building management system connections. 3. Remote control via PC MB-Gateway.
Features	<ul style="list-style-type: none"> › Vertical mounting with left/right versions. › High efficiency. › Easy and quick mounting. › Water/electrical heating options. › Fully integrated plug-and-play control system.
Construction	<ul style="list-style-type: none"> › Construction from double-skinned steel, with powder coated paint, panels. › Acoustic and thermal wall insulation: 50 mm. › AmberAir Compact RIS 1200-2200 V EKO 3.0 powder-coated grey housing RAL 7040. › Integrated electrical heater or optional water heater/cooler on the duct. › Low-pressure-drop filters: ePM1-70 / ePM10 55. › Hinged door with locks grants easy access to internal components by. › Stainless steel condensate tray. › Fitted with mounting brackets (optional). › Integrated anti-frost pressure switch.

AmberAir Compact RIS 1200 V E L EKO 3.0

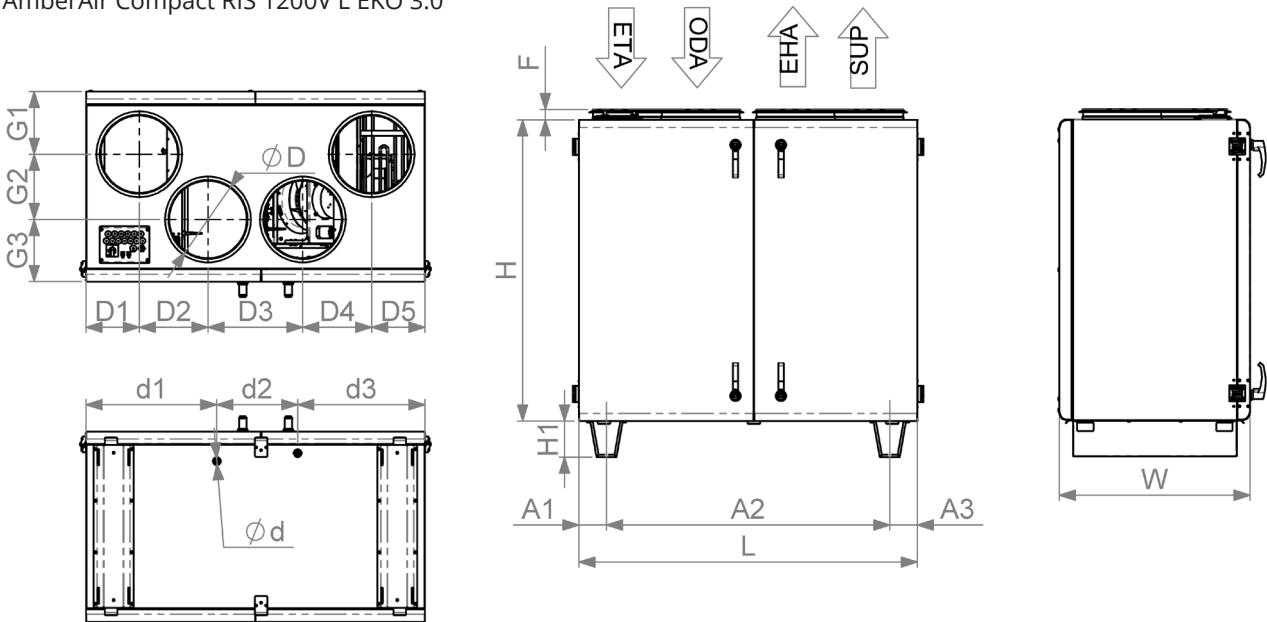


AMBERAIR COMPACT RIS V EKO

AmberAir Compact RIS 1200V R EKO 3.0



AmberAir Compact RIS 1200V L EKO 3.0



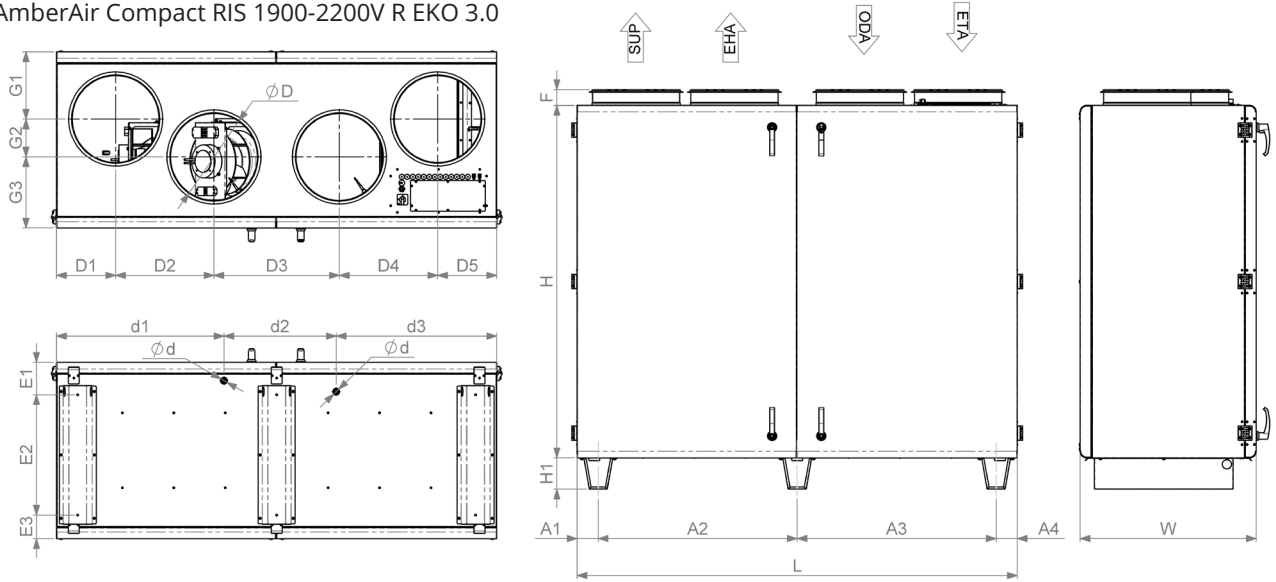
AIR HANDLING UNITS

Unit	Dimensions [mm]												
	L	W	H	ØD	dn	F	H1	A1	A2	A3	D1	D2	D3
AmberAir Compact RIS 1200VER/VWR EKO 3.0	1350	760	1200	315	G1/2	40	144	110	1130	110	212	274	378
AmberAir Compact RIS 1200VEL/VWL EKO 3.0	1350	760	1200	315	G1/2	40	144	110	1130	110	212	274	378

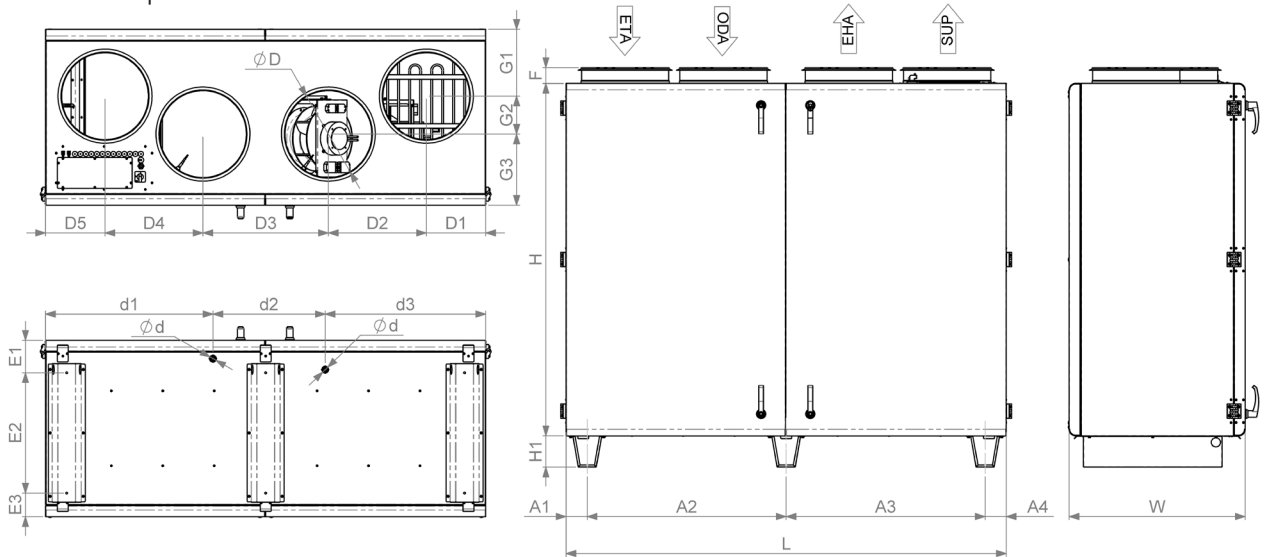
Unit	Dimensions [mm]										
	D4	D5	E1	E2	E3	G1	G2	G3	d1	d2	d3
AmberAir Compact RIS 1200VER/VWR EKO 3.0	274	212	87	587	87	250	260	250	507	322	521
AmberAir Compact RIS 1200VEL/VWL EKO 3.0	274	212	87	587	87	250	260	250	507	322	521

AMBERAIR COMPACT RIS V EKO

AmberAir Compact RIS 1900-2200V R EKO 3.0



AmberAir Compact RIS 1200-2200V L EKO 3.0



AIR HANDLING UNITS

Unit	Dimensions [mm]												
	L	W	H	ØD	dn	F	H1	A1	A2	A3	A4	D1	D2
AmberAir Compact RIS 1900VER/VWR EKO 3.0	2000	798	1600	400	G1/2	70	141	96	904	904	96	270	445
AmberAir Compact RIS 1900VEL/VWL EKO 3.0	2000	798	1600	400	G1/2	70	141	96	904	904	96	270	445
AmberAir Compact RIS 2200VER/VWR EKO 3.0	2000	798	1600	400	G1/2	70	141	96	904	904	96	270	445
AmberAir Compact RIS 2200VEL/VWR EKO 3.0	2000	798	1600	400	G1/2	70	141	96	904	904	96	270	445

Unit	Dimensions [mm]											
	D3	D4	D5	E1	E2	E3	G1	G2	G3	d1	d2	d3
AmberAir Compact RIS 1900VER/VWR EKO 3.0	570	445	270	147	546	105	303	172	323	761	510	730
AmberAir Compact RIS 1900VEL/VWL EKO 3.0	570	445	270	147	546	105	303	172	323	730	510	761
AmberAir Compact RIS 2200VER/VWR EKO 3.0	570	445	270	147	546	105	303	172	323	761	510	730
AmberAir Compact RIS 2200VEL/VWR EKO 3.0	570	445	270	147	546	105	303	172	323	730	510	761















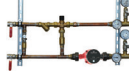

AMBERAIR COMPACT RIS V EKO

Unit	Optional accessories									
	Flex Stouch SA Control MB-Gateway	S-1141 S-RC02-F2 S-KFF-U	AKS	AVS	AVA	OC	EKA NV PH	AP SKG	SP Supply	SP Exhaust
AmberAir Compact RIS 1200VE EKO 3.0	+	+	315	-	315	315	315	315		LM230A-TP
AmberAir Compact RIS 1200VW EKO 3.0	+	+	315	315	315	315	315	315	LF230	LM230A-TP
AmberAir Compact RIS 1900VE EKO 3.0	+	+	400	-	400	400	400	400		SM230A-TP
AmberAir Compact RIS 1900VW EKO 3.0	+	+	400	400	400	400	400	400	NFA	SM230A-TP
AmberAir Compact RIS 2200VE EKO 3.0	+	+	400	-	400	400	400	400	SM230A-TP	SM230A-TP
AmberAir Compact RIS 2200VW EKO 3.0	+	+	400	400	400	400	400	400	NFA	SM230A-TP

Unit	Optional accessories					
	SSB Heating	SSB Cooling	RMG 80/60°C	RMG 60/40°C	VVP/VXP 80/60°C	VVP/VXP 60/40°C
AmberAir Compact RIS 1200VE EKO 3.0	-	81	-	-	-	-
AmberAir Compact RIS 1200VW EKO 3.0	161	81	3-0,63-4	3-0,63-4	45.10-0.63	45.10-0.63
AmberAir Compact RIS 1900VE EKO 3.0	-	81				
AmberAir Compact RIS 1900VW EKO 3.0	161	81				
AmberAir Compact RIS 2200VE EKO 3.0	-	81				
AmberAir Compact RIS 2200VW EKO 3.0	161	81				

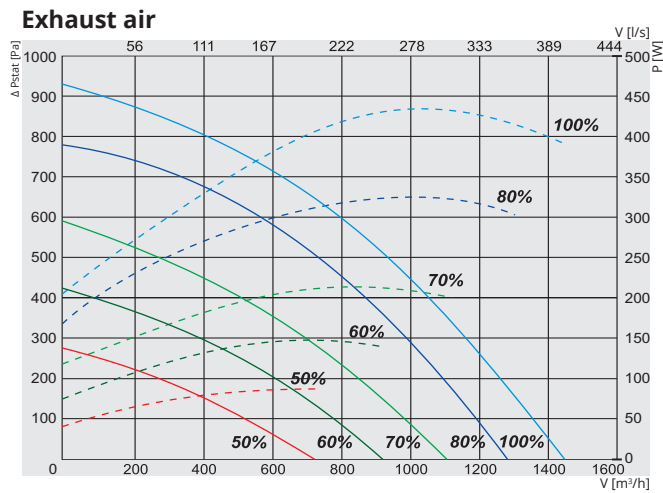
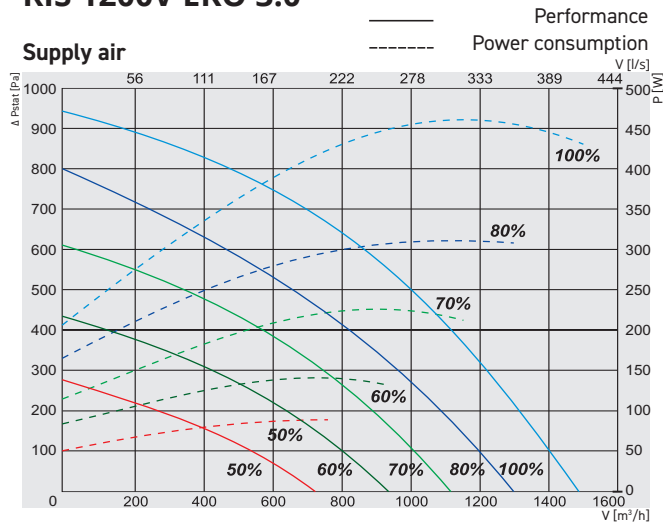
Heaters, coolers and RMG/VVP/VXP data online selection program:
<https://select.salda.it/>

Accessories

Remote controller  SA Control p. 175	Control panel  Flex p. 177	Remote controller  Stouch p. 176	Network Module  MB-Gateway p. 178	Pressure transmitter  S-1141 p. 179	CO ₂ sensor  S-RC02-F2 p. 180	Humidity sensor  S-KFF-U p. 181	Shut-off damper  SKG p. 212
Thermic water valve actuator  SSB p. 195	Actuator for dampers  SP p. 210	Circular duct silencer  AKS p. 216	Electric duct heater  EKA NV PH p. 201	Heating coil  AVS p. 185	Circular duct water cooler  AVA p. 193	Mixing point  RMG p. 196	2 and 3 way valves  VVP/VXP p. 197

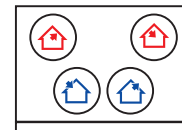
AMBERAIR COMPACT RIS V EKO

AmberAir Compact RIS 1200V EKO 3.0



1200VL EKO 3.0

Air intake side (L - left)



View from inspection side

1200VR EKO 3.0

Air intake side (R - right)



View from inspection side

🏠 Exhaust air
 🏠 Extract air
 🏠 Outdoor air
 🏠 Supply air

Article No.	Version	Version
AHU000771	1200VEL EKO 3.0	Left-hand maintenance version with integrated electrical heater
AHU000637	1200WVL EKO 3.0	Left-hand maintenance version prepared for optional water heater
AHU000064	1200VER EKO 3.0	Right-hand maintenance version with integrated electrical heater
AHU000065	1200VVR EKO 3.0	Right-hand maintenance version prepared for optional water heater

1200V EKO 3.0	Lwa total, dB(A)	LWA, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	79	66	75	73	72	70	67	58
Extract	68	62	63	64	58	53	48	43
Surrounding	58	51	52	53	50	49	45	40

Measured at 1300 m³/h, 120 Pa

Temperature efficiency (balanced mass flow):
 Extract air = 20°C/60%RH
 Outdoor air = -7°C / 2°C / 7°C

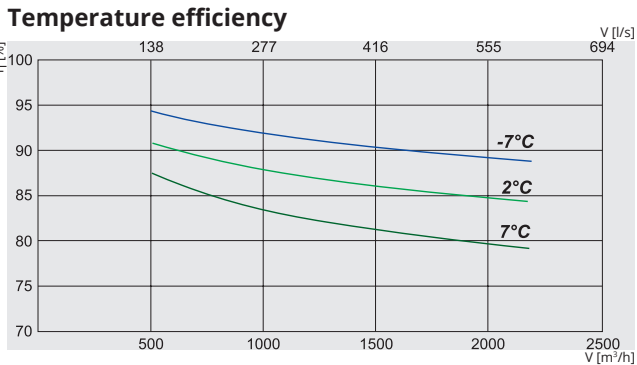
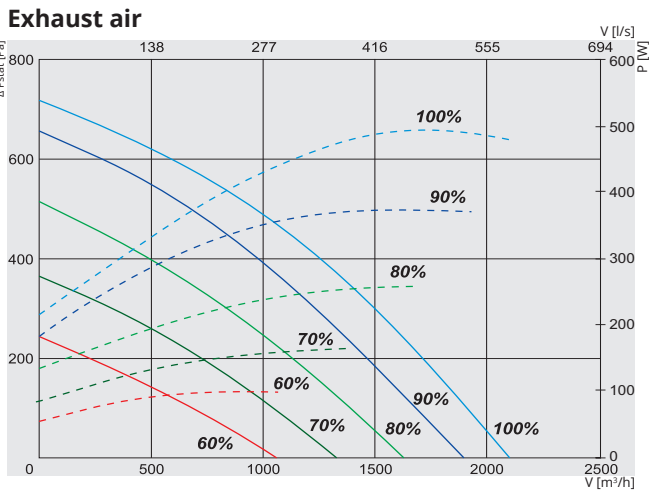
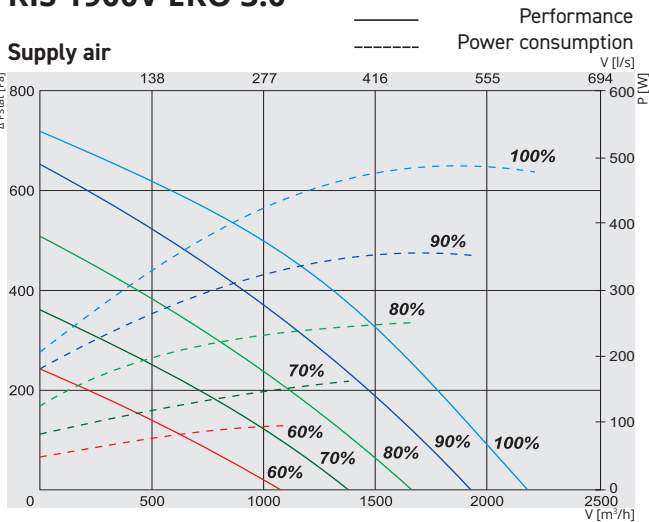
Water heater (optional) VW ver.		AVS/AVA 315
Electrical heater VE ver.	phase/voltage [50Hz/VAC]	~1, 230
	[kW]	2,0
EC fans	phase/voltage [50Hz/VAC]	~1, 230
exhaust	power/current [kW/A]	0,430 / 2,95
	fan speed [min ⁻¹]	3400
supply	power/current [kW/A]	0,435 / 2,9
	fan speed [min ⁻¹]	3400
Thermal efficiency up to*		90%
Motorized by-pass		+
Max power consumption VE / VW	[kW/A]	2,87 / 14,49 0,87 / 5,89
Control board		PRV V2
Filter class	exhaust/supply	ePM10 55 / ePM1-70
Housing insulation, mineral wool	[mm]	50
Colour	RAL	grey
Weight (net, without packing)	[kg]	152
Comply with ERP		2016; 2018
Operation		indoors
Fresh air temperature limits**	°C	-5 - +40
Housing protection class	IP	34

* Calculated wet efficiency.

**For temperatures lower than recommended, use electrical pre-heater to ensure balanced operation.

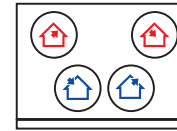
AMBERAIR COMPACT RIS V EKO

AmberAir Compact RIS 1900V EKO 3.0



1900VL EKO 3.0

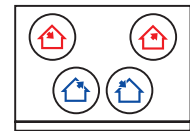
Air intake side (L - left)



View from inspection side

1900VR EKO 3.0

Air intake side (R - right)



View from inspection side

Exhaust air Extract air Outdoor air Supply air

Article No.	Version	Version
AHU000758	1900VEL EKO 3.0	Left-hand maintenance version with integrated electrical heater
AHU000594	1900VWL EKO 3.0	Left-hand maintenance version prepared for optional water heater
AHU000068	1900VER EKO 3.0	Right-hand maintenance version with integrated electrical heater
AHU000069	1900VVR EKO 3.0	Right-hand maintenance version prepared for optional water heater

1900V EKO 3.0	Lwa total, dB(A)	LWA, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	77	64	73	70	71	68	65	59
Extract	66	57	62	60	55	58	56	45
Surrounding	59	48	53	52	50	51	49	42

Measured at 2077 m³/h, 150 Pa

Temperature efficiency (balanced mass flow):
Extract air = 20°C/60%RH
Outdoor air = -7°C / 2°C / 7°C

1900VE / VW EKO 3.0

AVS / AVA / Comfort Box 250

Electrical heater VE ver.	phase/voltage	[50Hz/VAC]	~1, 230
		[kW]	3,0
EC fans	phase/voltage	[50Hz/VAC]	~1, 230
exhaust	power/current	[kW/A]	0,49 / 3,1
	fan speed	[min ⁻¹]	2540
supply	power/current	[kW/A]	0,49 / 3,2
	fan speed	[min ⁻¹]	2540
Thermal efficiency up to*			90%
Motorized by-pass			+
Max power consumption VE / VW		[kW/A]	3,98 / 19,32 0,98 / 6,31
Control board			PRV V2
Filter class	exhaust/supply		ePM10 55 / ePM1-70
Housing insulation, mineral wool		[mm]	50
Colour	RAL	grey	7040
Weight (net, without packing)		[kg]	290
Comply with ERP			2016; 2018
Operation			indoors
Fresh air temperature limits**		°C	-5 - +40
Housing protection class		IP	34

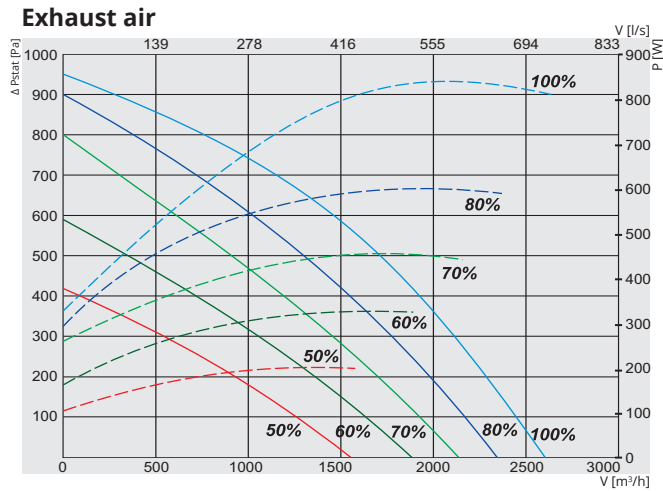
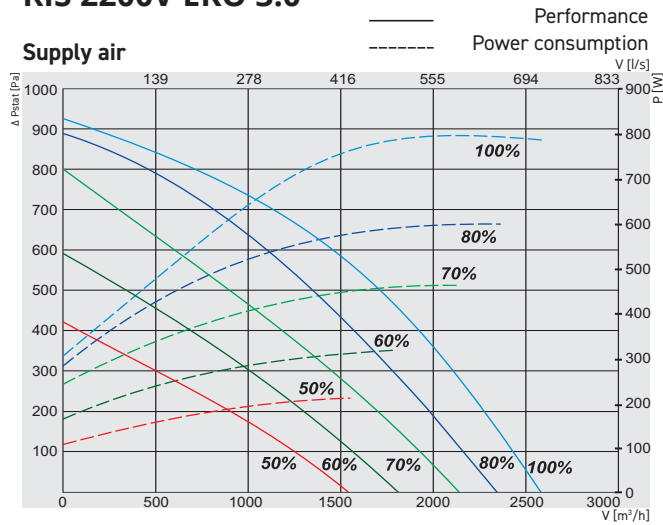
* Calculated wet efficiency.

**For temperatures lower than recommended, use electrical pre-heater to ensure balanced operation.

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

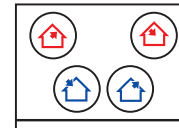
AMBERAIR COMPACT RIS V EKO

AmberAir Compact RIS 2200V EKO 3.0



2200VL EKO 3.0

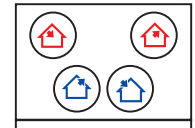
Air intake side (L - left)



View from inspection side

2200VR EKO 3.0

Air intake side (R - right)

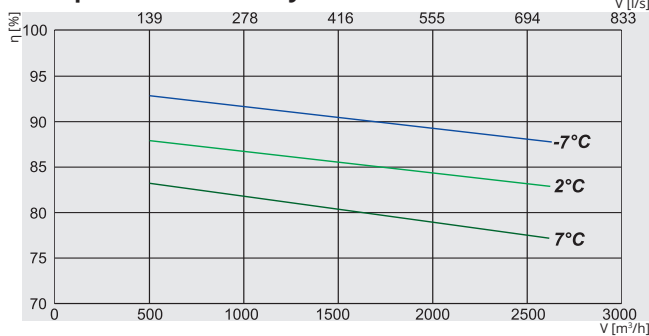


View from inspection side

🏠 Exhaust air
 🏠 Extract air
 🏠 Outdoor air
 🏠 Supply air

Article No.	Version	Version
AHU000737	2200VEL EKO 3.0	Left-hand maintenance version with integrated electrical heater
AHU000674	2200VWL EKO 3.0	Left-hand maintenance version prepared for optional water heater
AHU000072	2200VER EKO 3.0	Right-hand maintenance version with integrated electrical heater
AHU000073	2200VVR EKO 3.0	Right-hand maintenance version prepared for optional water heater

Temperature efficiency



2200V EKO 3.0

	Lwa total, dB(A)	LWA, dB(A)							
		63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	80	63	65	69	71	74	74	71	65
Extract	72	60	61	63	66	65	64	62	58
Surrounding	63	44	51	58	57	55	54	51	46

Measured at 2150 m³/h, 250 Pa

Temperature efficiency (balanced mass flow):
 Extract air = 20°C/60%RH
 Outdoor air = -7°C / 2°C / 7°C

Water heater (optional) VW ver.

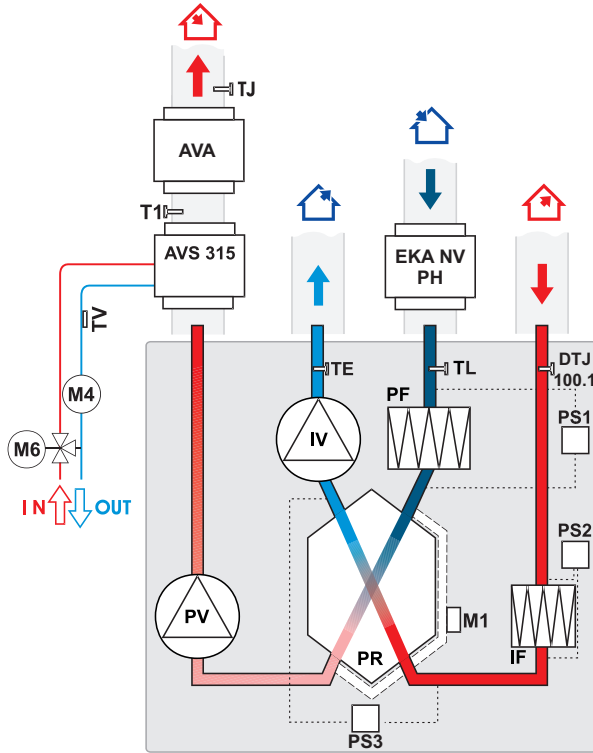
Electrical heater VE ver.	phase/voltage	[50Hz/VAC]							
			[kW]						
EC fans	phase/voltage	[50Hz/VAC]							
exhaust	power/current	[kW/A]							~1, 230
	fan speed	[min ⁻¹]							3,0
supply	power/current	[kW/A]							~1, 230
	fan speed	[min ⁻¹]							0,715 /3,2
Thermal efficiency up to*									2800
Motorized by-pass									0,715 /3,1
Max power consumption VE / VW		[kW/A]							2800
Control board									90%
Filter class	exhaust/supply								+
Housing insulation, mineral wool		[mm]							4,43 /19,32 1,43 /6,31
Colour	RAL	grey							PRV V2
Weight (net, without packing)		[kg]							ePM10 55 / ePM1-70
Comply with ERP									50
Operation									7040
Fresh air temperature limits**		°C							290
Housing protection class		IP							2016; 2018

* Calculated wet efficiency.

** For temperatures lower than recommended, use electrical pre-heater to ensure balanced operation.

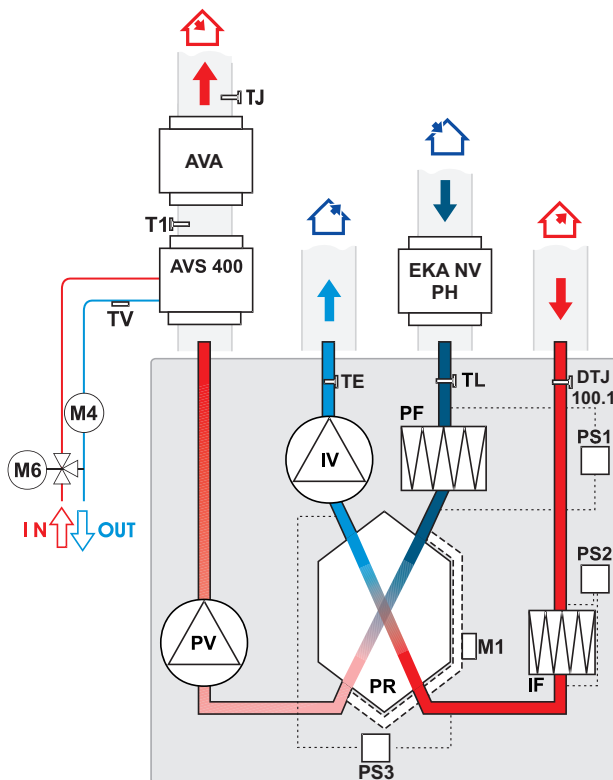
AMBERAIR COMPACT RIS V EKO

AmberAir Compact RIS 1200VW EKO 3.0 (vertical) version with water heater



- AVS - optionally supplied water heater
- AVA - optionally supplied water cooler
- IV - exhaust air fan
- PV - supply air fan
- PR - plate heat exchanger
- PF - filter for supply air (class ePM1-70)
- IF - filter for extract air (class ePM10 55)
- M1 - actuator of by-pass damper
- M4 - optionally supplied water heater circulation pump
- M6 - optionally supplied mixing valve and motor
- TJ - temperature sensor for supply air
- TE - temperature sensor for exhaust air
- TL - temperature sensor for fresh air
- TV - antifrost sensor
- T1 - antifrost thermostat
- DTJ100.1 - humidity + temperature sensor
- PS1 - supply air differential pressure switch
- PS2 - extract air differential pressure switch
- PS3 - heat exchanger antifrost pressure switch
- EKA NV PH - optional fresh air pre-heater

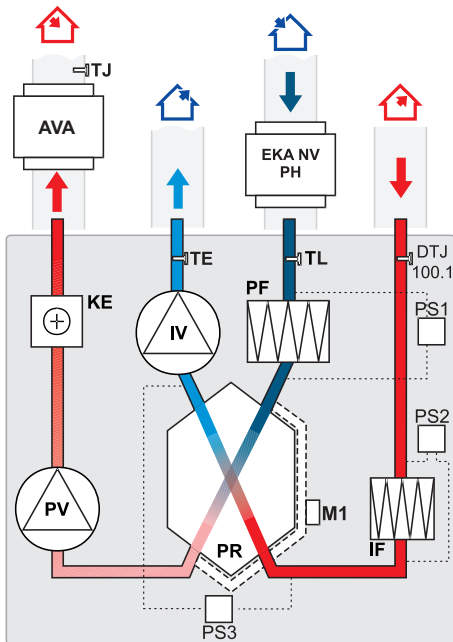
AmberAir Compact RIS 1900VW EKO 3.0 / 2200VW EKO 3.0 (vertical) versions with water heater



- AVS - optionally supplied water heater
- AVA - optionally supplied water cooler
- IV - exhaust air fan
- PV - supply air fan
- PR - plate heat exchanger
- PF - filter for supply air (class ePM1-70)
- IF - filter for extract air (class ePM10 55)
- TL - temperature sensor for fresh air
- TE - temperature sensor for exhaust air
- M1 - actuator of by-pass damper
- M6 - optionally supplied mixing valve and motor
- M4 - optionally supplied water heater circulation pump
- TJ - temperature sensor for supply air
- TV - antifrost sensor
- T1 - antifrost thermostat
- DTJ100.1 - humidity + temperature sensor
- PS1 - supply air differential pressure switch
- PS2 - extract air differential pressure switch
- PS3 - heat exchanger antifrost pressure switch
- EKA NV PH - optional fresh air pre-heater

AMBERAIR COMPACT RIS V EKO

AmberAir Compact RIS 1200VE EKO 3.0 / 1900VE EKO 3.0 / 2200VE EKO 3.0
 (vertical) versions with electrical heater



- IV** - exhaust air fan
- PV** - supply air fan
- PR** - plate heat exchanger
- KE** - electrical heater
- PF** - filter for fresh air (class ePM1-70)
- IF** - filter for extract air (class ePM10 55)
- M1** - actuator of by-pass damper
- TE** - temperature sensor for exhaust air
- TL** - temperature sensor for fresh air
- TJ** - temperature sensor for supply air
- DTJ100.1** - humidity + temperature sensor
- PS1** - supply air differential pressure switch
- PS2** - extract air differential pressure switch
- PS3** - heat exchanger antifrost pressure switch
- EKA NV PH** - optional fresh air pre-heater
- AVA** - optionally supplied water cooler

AMBERAIR COMPACT RIS V EKO

FUNCTIONS			
Description of the functions	Functions	PRV V2	
		AmberAir Compact RIS EKO 3.0	
		E	W
	Date and time settings	✓	✓
	4 speeds for easy and user-friendly control (“Stop” – the unit is stopped; “Low”, “medium”, and “High”. Service menu allows adjusting each speed individually)	✓	✓
	BOOST function (Fans operate at highest speed)	✓	✓
	Comfortable air temperature function	✓	✓
	Cold/heat recovery	✓	✓
	Fire place function	✓	✓
	Dryness protection	✓	✓
	Weekly schedule	✓	✓
	Holiday schedule	✓	✓
	User and service control levels	✓	✓
	Manual air flow balancing	✓	✓
	CO ₂ level indication and reduction function	✓	✓
	Night cooling function	✓	✓
	Relative humidity (RH) level indication and reduction function	✓	✓
	Software and configuration update possibility	✓	✓
	Supply air temperature control according to the extract air sensor	✓	✓
	Monitoring function (all sensors and I/O)	✓2	✓2
	Mode switch (start/stop)	✓	✓
	Extracted air relative humidity converter	✓	✓
	Manual components control	✓1	✓1
Functional units			
Fans	Soft start and stop	✓	✓
	Fan failure protection	✓	✓
	Speed synchronous/asynchronous 0-10V control	✓	✓
Electric heater	On/Off / PWM control	✓	
	Manual protection	✓	
	Overheat protection (additional protection software)	✓	✓
Water heater	Pulse-width modulation (PWM) valve actuator control		✓
	Protection using temperature sensor		✓
	Protection using thermostat (NC)		✓
	Circulation pump control		✓
	Return water temperature sensor	✓	✓
DX cooler	Control On/Off	✓	✓
Water cooler	Pulse-width modulation (PWM) valve actuator control		✓
	Control with three-positional valve actuator	✓	✓
Bypass damper	3-position actuator control	✓	✓
Filter pollution monitoring	By pressure switch (NC)	✓	✓
	By filter timer	✓	✓
Sensors	Supply air temperature sensor	✓	✓
	Fresh air temperature sensor	✓	✓
	Exhaust air temperature sensor	✓	✓
	Extract air temperature sensor	✓	✓
Emergency signals and inputs/outputs			
	Fire protection input	✓	✓
	Working indication output	✓	✓
	Alarm indication output	✓	✓
Remote controllers			
	Stouch	✓	✓
	Flex	✓	✓
	SA Control	✓	✓
	MB-Gateway	✓	✓

AIR HANDLING UNITS

1	With FLEX TEST remote controller	2	Only sensors
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