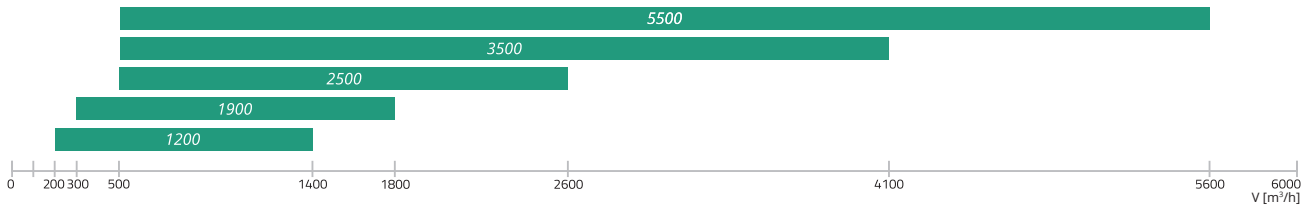
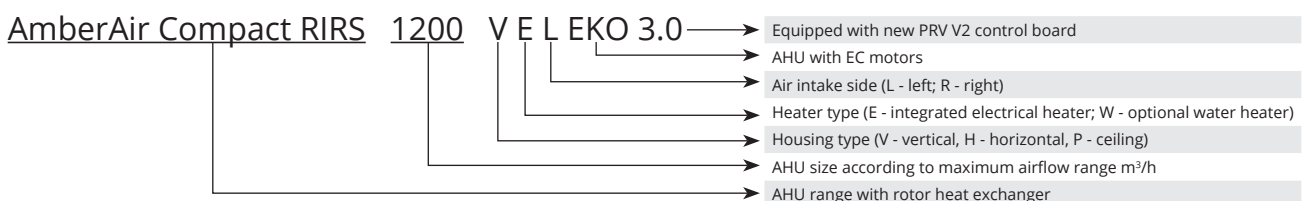


# AMBERAIR COMPACT RIRS V EKO



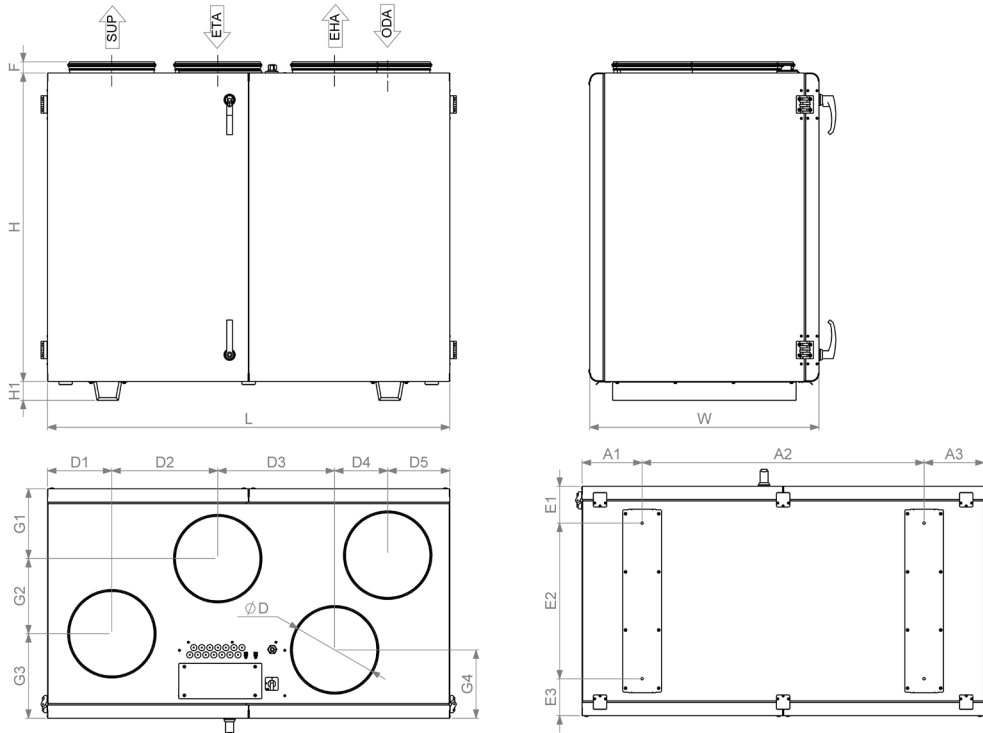
<b>Application</b>	Ventilation of houses, small public buildings, offices or other heated premises (classrooms, apartments, conference rooms, etc.).
<b>Description</b>	<p>AmberAir Compact RIRS V EKO 3.0 is a range of heat recovery units with high-efficiency rotor heat exchangers. Units are designed for vertical placement in auxiliary non-heated premises (basements, boiler rooms, etc.). There are 5 sizes (airflow interval 1400-5600 m³/h) with separate heaters available for different climate zones.</p> <p>AmberAir Compact RIRS V EKO 3.0 units have high overall energy savings due to the highly efficient heat recovery (up to 85%), quiet and economical EC fans, effective low pressure drop filters and top-level of air tightness.</p> <p>All AmberAir Compact RIRS V EKO 3.0 units are fully equipped with automatic controls.</p> <p>Optional external sensors for CO<sub>2</sub> and humidity and so the summer mode feature will guarantee the highest comfort (demand-level control).</p> <p>AmberAir Compact RIRS V EKO 3.0 units are service-friendly and easy to mount. Filter pollution identified by contamination controls. Rotor fault indicator is included in every AHU.</p> <p>All units are supplied tested and ready to install.</p>
<b>Controls</b>	<p>Three remote control options are available:</p> <ol style="list-style-type: none"> <li>1. Flex, Stouch or SA Control remote controllers.</li> <li>2. Building management system connections.</li> <li>3. Remote control via PC MB-Gateway.</li> </ol>
<b>The main Features</b>	<ul style="list-style-type: none"> <li>› Efficient rotor heat exchanger with up to 85% heat recovery.</li> <li>› Water/electrical heating options.</li> <li>› Easy and quick mounting.</li> <li>› Controlled airflow.</li> <li>› Fully integrated plug-and-play control system.</li> <li>› Outdoor versions and convertible inspection side.</li> </ul>
<b>Rotor</b>	<ul style="list-style-type: none"> <li>› Eurovent certified.</li> <li>› Plate gap 1,4-1,9 mm.</li> <li>› Rotor fault indicator.</li> <li>› Minimal airflow mixing.</li> <li>› Appropriate "Purge sector" size (for AmberAir Compact RIRS 2500, 3500 and 5500 V EKO 3.0).</li> </ul>
<b>Construction</b>	<ul style="list-style-type: none"> <li>› Frameless construction from double-skinned steel, with powder coated paint, panels.</li> <li>› Acoustic and thermal wall insulation - 50 mm.</li> <li>› Hinged door with locks grants easy access to internal components.</li> <li>› Separate compartment on the side of the unit grants quick access to the control board (plug-and-play).</li> <li>› Three sensors for fresh, supply and extract air temperatures.</li> <li>› Anti-vibration pads (optional for AmberAir Compact RIRS 1200-1900 V EKO 3.0; standard for AmberAir Compact RIRS 2500-5500 V EKO 3.0).</li> <li>› Water heater with frost protection kit available.</li> <li>› Low pressure drop filters: ePM1-70 / ePM10 55.</li> <li>› Integrated electrical heater or optional water heater/cooler (on duct).</li> <li>› RHX versions (rotor speed control, using stepper motor and driver).</li> <li>› Integrated pressure switch for filter pollution alarm.</li> </ul>



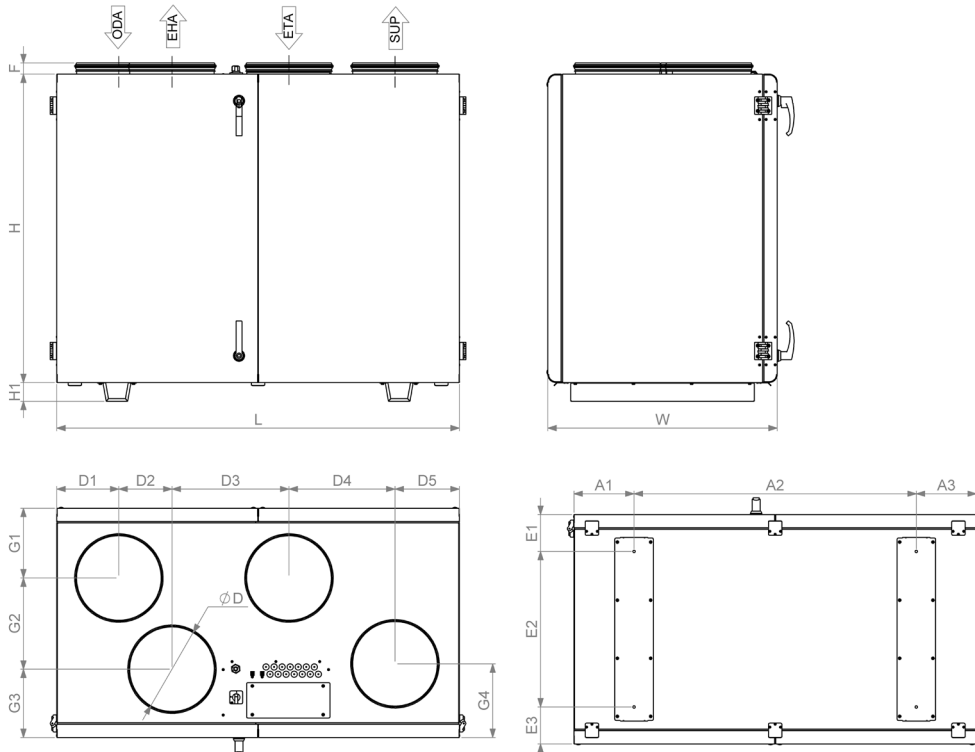
AIR HANDLING UNITS

# AMBERAIR COMPACT RIRS V EKO

AmberAir Compact RIRS 1200-1900V R EKO 3.0



AmberAir Compact RIRS 1200-1900V L EKO 3.0



**Dimensions [mm]**

Unit	L	W	H	ØD	F	H1	A1	A2	A3	D1	D2
AmberAir Compact RIRS 1200-1900VER/VWR EKO 3.0	1500	855	1150	315	41	70	224	1052	224	240	395
AmberAir Compact RIRS 1200-1900VEL/VWL EKO 3.0	1500	855	1150	315	41	70	224	1052	224	231	198

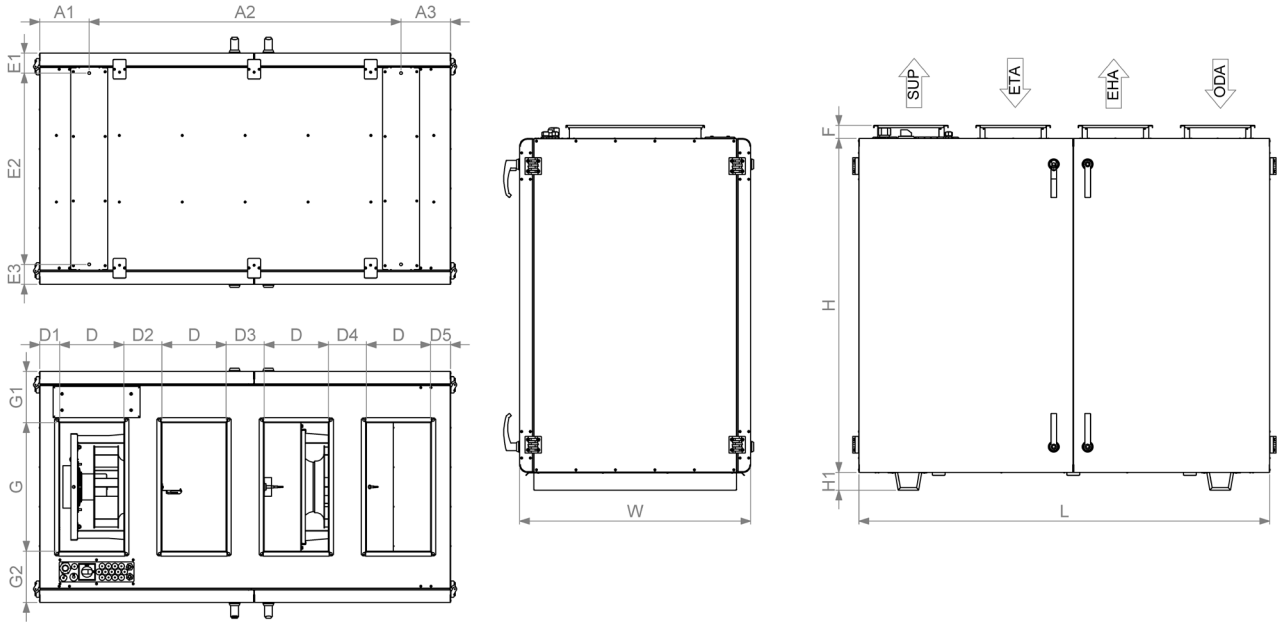
**Dimensions [mm]**

Unit	D3	D4	D5	E1	E2	E3	G1	G2	G3	G4
AmberAir Compact RIRS 1200-1900VER/VWR EKO 3.0	436	198	231	138	580	138	260	280	315	255
AmberAir Compact RIRS 1200-1900VEL/VWL EKO 3.0	436	395	240	138	580	138	260	340	255	275

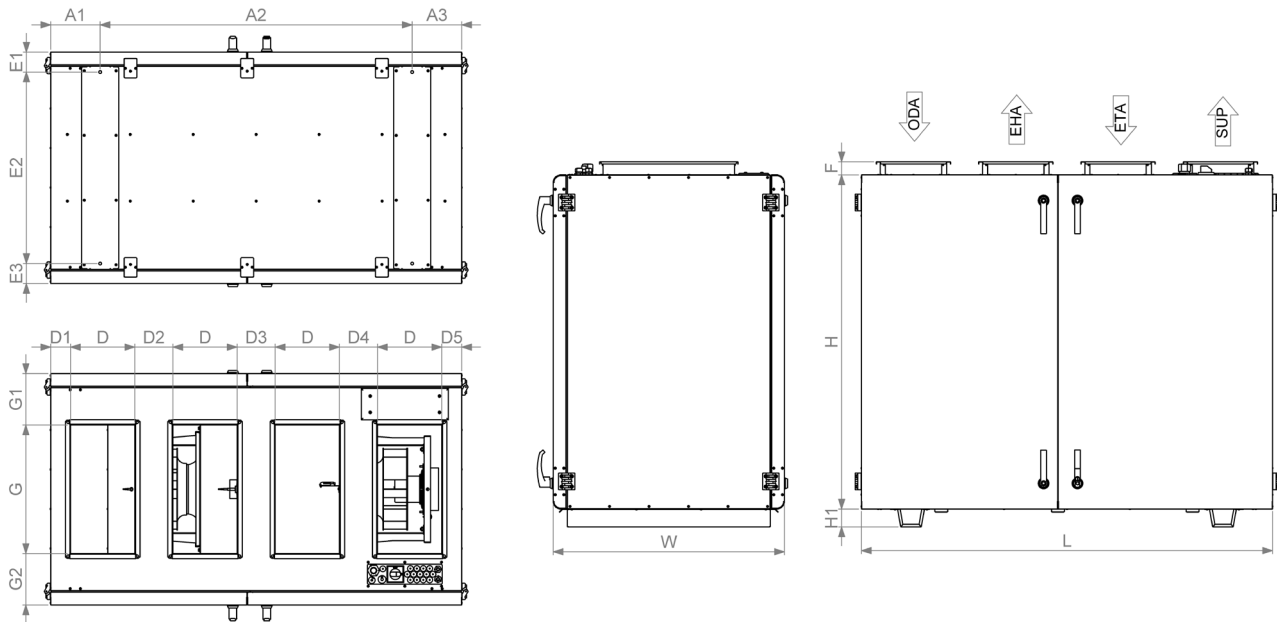
AIR HANDLING UNITS

# AMBERAIR COMPACT RIRS V EKO

AmberAir Compact RIRS 2500V R EKO 3.0



AmberAir Compact RIRS 2500V L EKO 3.0



AIR HANDLING UNITS

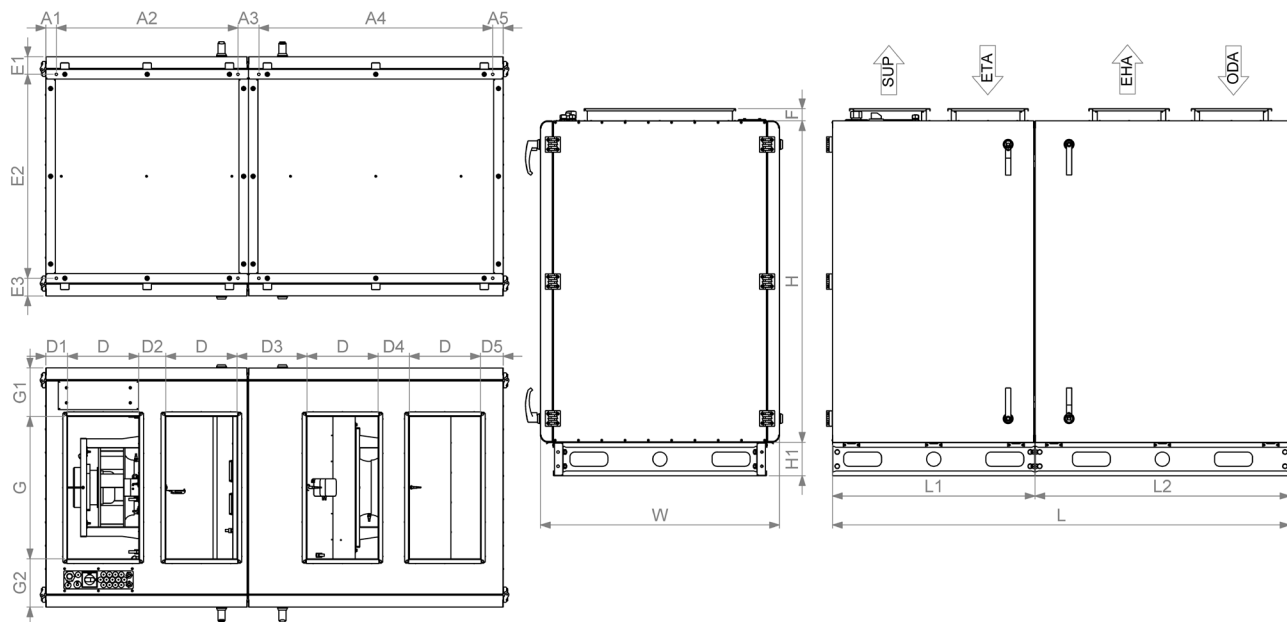
Unit	Dimensions [mm]									
	L	W	H	D	G	F	H1	A1	A2	A3
AmberAir Compact RIRS 2500VER/VWR EKO 3.0	1600	900	1300	250	500	51	70	193	1214	193
AmberAir Compact RIRS 2500VEL/VWL EKO 3.0	1600	900	1300	250	500	51	70	193	1214	193

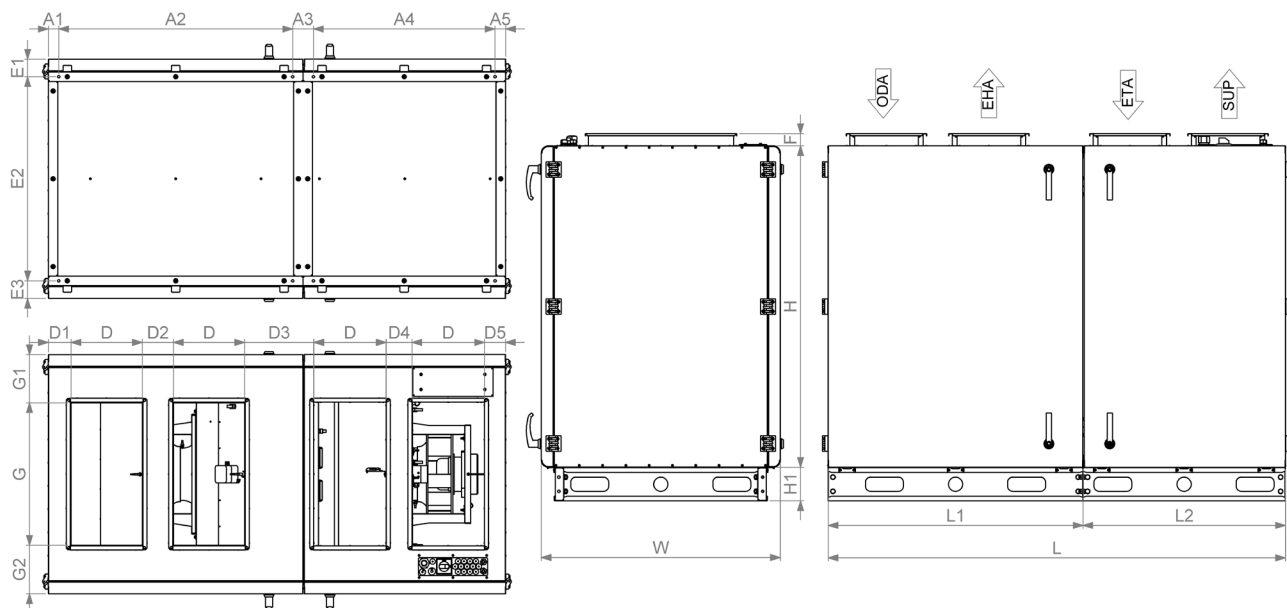
Unit	Dimensions [mm]									
	D1	D2	D3	D4	D5	E1	E2	E3	G1	G2
AmberAir Compact RIRS 2500VER/VWR EKO 3.0	75	142	140	142	75	78	745	78	197	197
AmberAir Compact RIRS 2500VEL/VWL EKO 3.0	75	142	140	142	75	78	745	78	197	197

# AMBERAIR COMPACT RIRS V EKO

AmberAir Compact RIRS 3500V R EKO 3.0



AmberAir Compact RIRS 3500V L EKO 3.0



AIR HANDLING UNITS

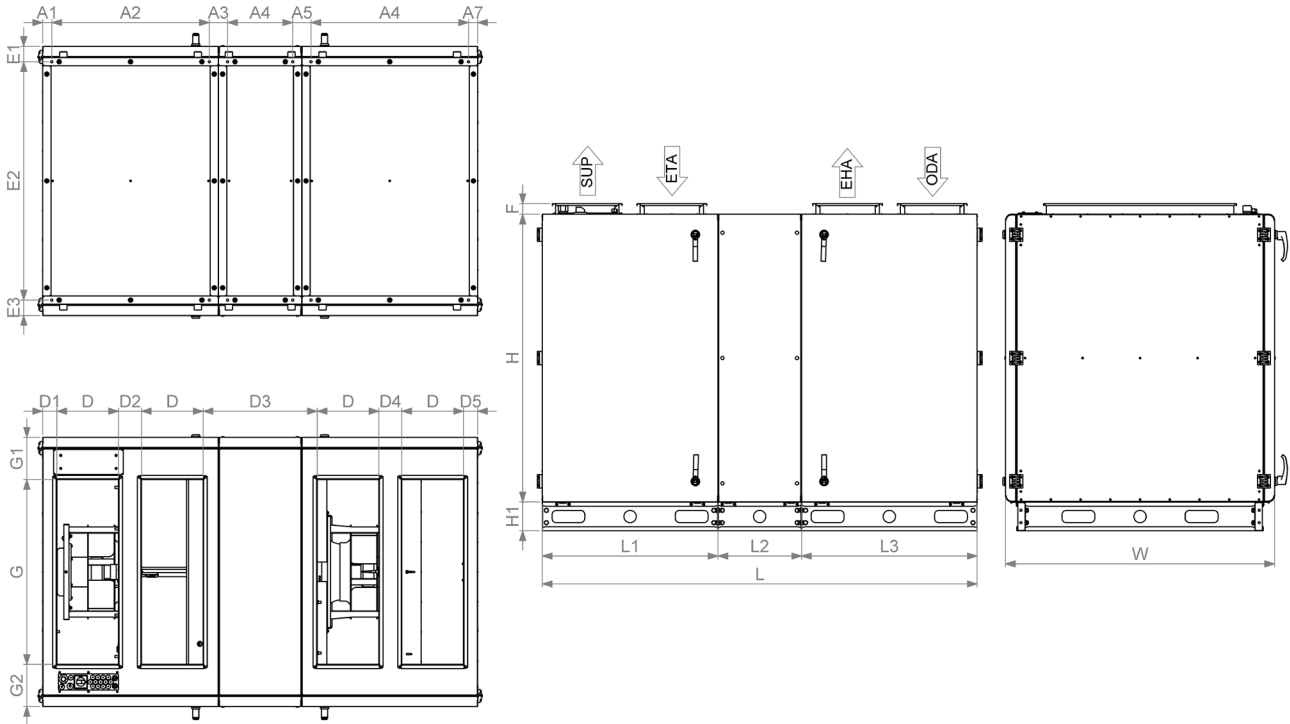
Unit	Dimensions [mm]											
	L	W	H	D	G	L1	L2	F	H1	A1	A2	A3
AmberAir Compact RIS 3500VER/VWR EKO 3.0	1930	1008	1355	300	600	854	1075	51	141	44	767	88
AmberAir Compact RIS 3500VEL/VWL EKO 3.0	1930	1008	1355	300	600	1075	854	51	141	44	987	88

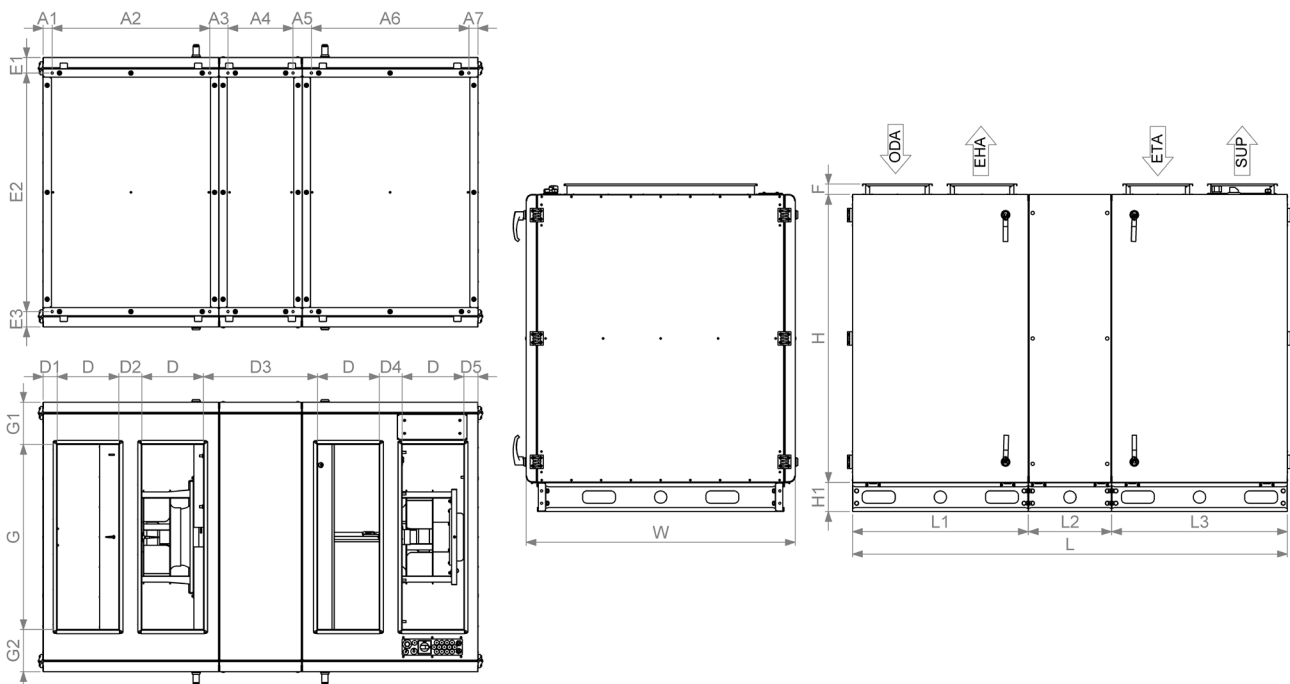
Unit	Dimensions [mm]											
	A4	A5	D1	D2	D3	D4	D5	E1	E2	E3	G1	G2
AmberAir Compact RIS 3500VER/VWR EKO 3.0	987	44	89	108	289	126	93	74	860	74	200	200
AmberAir Compact RIS 3500VEL/VWL EKO 3.0	767	44	93	126	289	108	89	74	860	74	200	200

# AMBERAIR COMPACT RIRS V EKO

AmberAir Compact RIRS 5500V R EKO 3.0



AmberAir Compact RIRS 5500V L EKO 3.0



Dimensions [mm]

Unit	L	W	H	D	G	L1	L2	L3	F	H1	A1	A2	A3	A4
AmberAir Compact RIS 5500VER/VWR EKO 3.0	2117	1310	1400	300	900	855	400	855	51	141	44	767	89	317
AmberAir Compact RIS 5500VEL/VWL EKO 3.0	2117	1310	1400	300	900	855	400	855	51	141	44	767	89	317

Dimensions [mm]

Unit	A5	A6	A7	D1	D2	D3	D4	D5	E1	E2	E3	G1	G2
AmberAir Compact RIS 5500VER/VWR EKO 3.0	89	767	44	66	106	550	106	66	75	1160	75	202	202
AmberAir Compact RIS 5500VEL/VWL EKO 3.0	89	767	44	66	106	550	106	66	75	1160	75	202	202

# AMBERAIR COMPACT RIRS V EKO

Unit	Optional accessories									
	Flex Stouch SA Control MB-Gateway	S-1141 S-RC02-F2 S-KFF-U	AKS AP SKG	SSK SKS LJ/PG	STP	SVS AVS**	SP Supply	SP Exhaust	EKA NV PH	EKS NV PH
AmberAir Compact RIRS 1200VE EKO 3.0	+	+	315	-	-	-	LM230A-TP	LM230A-TP	315	315
AmberAir Compact RIRS 1200VW EKO 3.0	+	+	315	-	-	315*	LF230	LM230A-TP	315	315
AmberAir Compact RIRS 1900VE EKO 3.0	+	+	315	-	-	-	LM230A-TP	LM230A-TP	315	315
AmberAir Compact RIRS 1900VW EKO 3.0	+	+	315	-	-	315*	LF230	LM230A-TP	315	315
AmberAir Compact RIRS 2500VE EKO 3.0	+	+	-	500x250	500x250-400	500x250	LM230A-TP	LM230A-TP	500x250	500x250
AmberAir Compact RIRS 2500VW EKO 3.0	+	+	-	500x250	500x250-400	500x250	LF230	LM230A-TP	500x250	500x250
AmberAir Compact RIRS 3500VE EKO 3.0	+	+	-	600x300	600x300-500	600x300	LM230A-TP	LM230A-TP	600x300	600x300
AmberAir Compact RIRS 3500VW EKO 3.0	+	+	-	600x300	600x300-500	600x300	LF230	LM230A-TP	600x300	600x300
AmberAir Compact RIRS 5500VE EKO 3.0	+	+	-	800x500**	900x300-800x500	800x500**	LM230A-TP	LM230A-TP	800x500**	800x500**
AmberAir Compact RIRS 5500VW EKO 3.0	+	+	-	800x500**	900x300-800x500	800x500**	LF230	LM230A-TP	800x500**	800x500**


















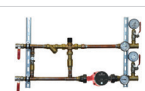




\*\* flange adapter STP is required.

Unit	Optional accessories									
	AVS	AVA	TJP 10K CO4C***	SSB Heating	SSB Cooling	RMG 80/60°C	RMG 60/40°C	VVP/VXP 80/60°C	VVP/VXP 60/40°C	
AmberAir Compact RIRS 1200VE EKO 3.0	-	315	-	-	81	-	-	-	-	
AmberAir Compact RIRS 1200VW EKO 3.0	315	315	int	161	81	3-1,0-4	3-1,0-4	45.10-1,0	45.10-1,0	
AmberAir Compact RIRS 1900VE EKO 3.0	-	315	-	-	81	-	-	-	-	
AmberAir Compact RIRS 1900VW EKO 3.0	315	315	int	161	81	3-1,0-4	3-1,0-4	45.10-1,0	45.10-1,0	
AmberAir Compact RIRS 2500VE EKO 3.0	-	-	-	-	81					
AmberAir Compact RIRS 2500VW EKO 3.0	-	-	int	161	81					
AmberAir Compact RIRS 3500VE EKO 3.0	-	-	-	-	81					
AmberAir Compact RIRS 3500VW EKO 3.0	-	-	int	161	81					
AmberAir Compact RIRS 5500VE EKO 3.0	-	-	-	-	81					
AmberAir Compact RIRS 5500VW EKO 3.0	-	-	int	161	81					

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

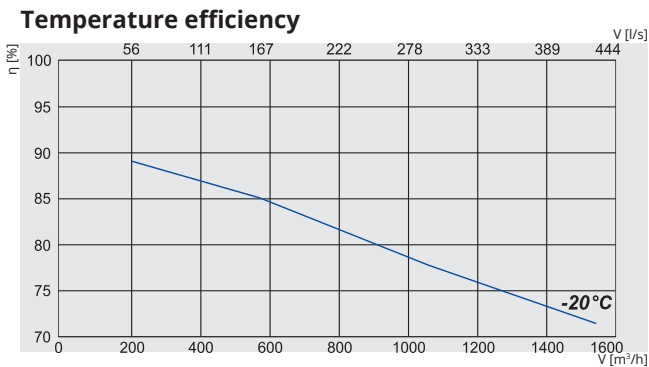
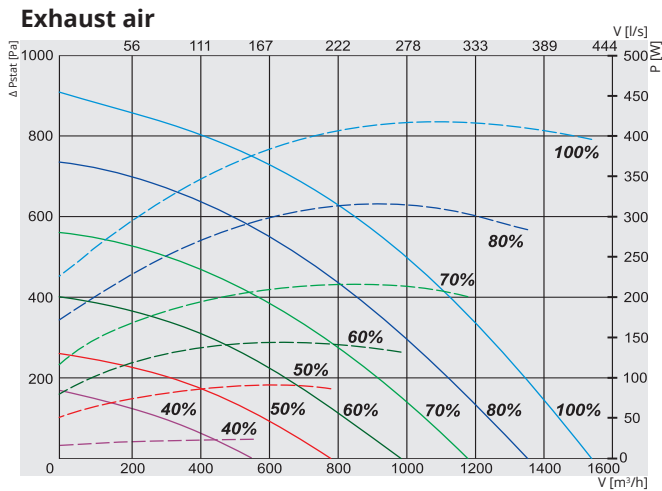
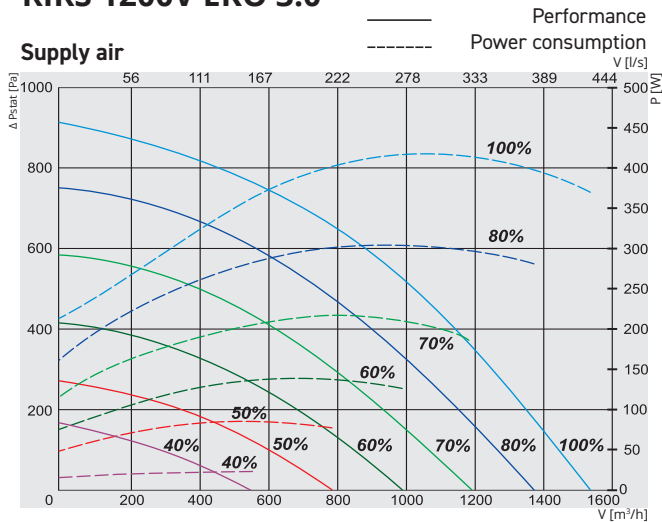
\*\*\* anti-frost thermostat.

## Accessories

Remote controller  <b>SA Control</b> p. 175	Control panel  <b>FLEX</b> p. 177	Remote controller  <b>Stouch</b> p. 176	Net module  <b>MB-Gateway</b> p. 178	Pressure transmitter  <b>S-1141</b> p. 179	CO <sub>2</sub> sensor  <b>S-RC02-F2</b> p. 180	Duct humidity sensor  <b>S-KFF-U</b> p. 181	Thermic water valve actuator  <b>SSB</b> p. 195
Circular duct silencer  <b>AKS</b> p. 216	Mounting clamp  <b>AP</b> p. 219	Shut-off damper  <b>SKG</b> p. 212	Damper for rectangular duct  <b>SSK</b> p. 213	Flexible connection  <b>LJ/PG</b> p. 221	Flange adapter  <b>STP</b> p. 220	Water heating coil  <b>SVS</b> p. 190	Actuator for dampers  <b>SP</b> p. 210
Temperature sensor  <b>TJP-10K</b> p. 182	Mixing point  <b>RMG</b> p. 196	2 and 3 way valves  <b>VVP/VXP</b> p. 197	Rectangular duct silencer  <b>SKS</b> p. 215	Electrical duct pre-heater  <b>EKA NV PH</b> p. 201	Electrical duct pre-heater  <b>EKS NV PH</b> p. 203		

# AMBERAIR COMPACT RIRS V EKO

## AmberAir Compact RIRS 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
AHU000984	1200VEL EKO 3.0	Left-hand maintenance version with integrated electrical heater
AHU000985	1200VWL EKO 3.0	Left-hand maintenance version prepared for optional water heater
AHU000983	1200VER EKO 3.0	Right-hand maintenance version with integrated electrical heater
AHU000986	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	78	63	74	71	70	69	64	55
Extract	67	57	63	56	52	53	51	37
Surrounding	57	47	54	49	47	49	46	36

Measured at 1351 m³/h, 181 Pa

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

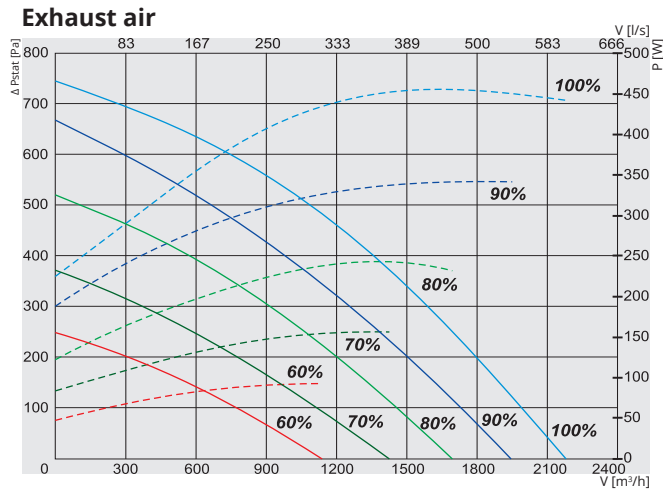
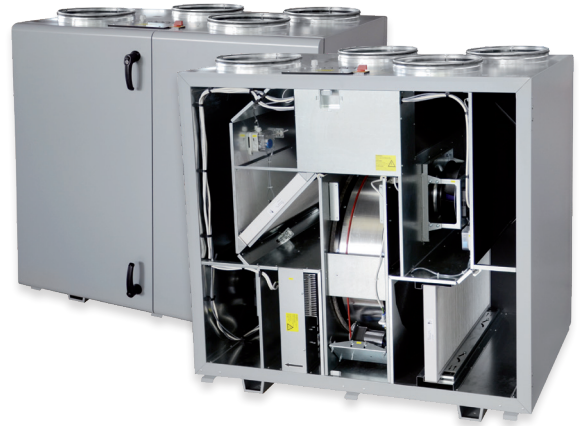
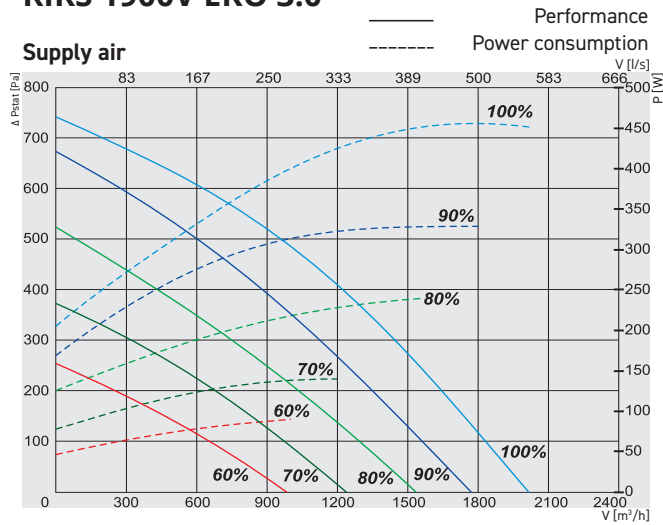
### 1200VE / VW EKO 3.0

Water heater (optional) VW ver.		AVS 315
Electrical heater VE ver.	phase/voltage	~2, 400
		4,0
EC fans	phase/voltage	~1, 230
exhaust	power/current	0,408 /2,71
	fan speed	3400
supply	power/current	0,415 /2,81
	fan speed	3400
Thermal efficiency up to*		75%
Max power consumption VE/VW	[kW/A]	4,84 /15,69
Control board		0,84 /5,69
Filter class	exhaust/supply	PRV V2
		ePM10 55 /ePM1-70
Housing insulation, mineral wool	[mm]	50
Colour	RAL	grey
		7040
Weight (net, without packing)	[kg]	192
Comply with ERP		2016; 2018
Operation		indoors
Housing protection class	IP	34

\* Calculated wet efficiency.

# AMBERAIR COMPACT RIRS V EKO

## AmberAir Compact RIRS 1900V EKO 3.0



### 1900VL EKO 3.0

Air intake side (L- left)



View from inspection side

### 1900VR EKO 3.0

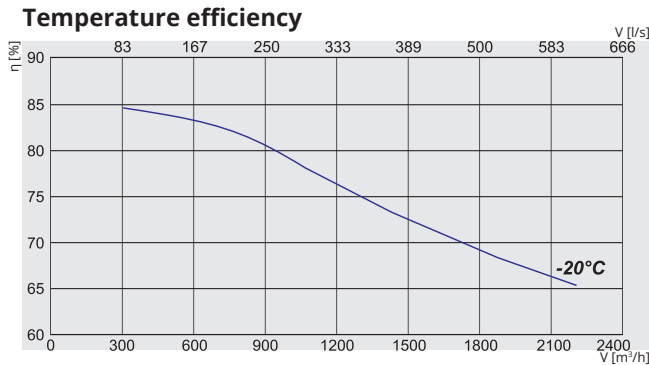
Air intake side (R- right)



View from inspection side

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

Article No.	Version	Version
AHU000990	1900VEL EKO 3.0	Left-hand maintenance version with integrated electrical heater
AHU000992	1900VWL EKO 3.0	Left-hand maintenance version prepared for optional water heater
AHU000989	1900VER EKO 3.0	Right-hand maintenance version with integrated electrical heater
AHU000991	1900VVR EKO 3.0	Right-hand maintenance version prepared for optional water heater



1900V EKO 3.0	Lwa total, dB(A)							
	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
Supply	80	58	76	71	72	71	70	62
Extract	69	56	67	60	54	58	57	48
Surrounding	60	44	57	51	49	53	52	45

Measured at 1830 m³/h, 101 Pa

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

Water heater (optional) VW ver.			1900VE / VW EKO 3.0
Electrical heater VE ver.	phase/voltage	[50Hz/VAC]	AVS 315
		[kW]	~3, 400
			9,0
EC fans	phase/voltage	[50Hz/VAC]	~1, 230
exhaust	power/current	[kW/A]	0,47 /3,1
	fan speed	[min <sup>-1</sup> ]	2540
supply	power/current	[kW/A]	0,47 /3,1
	fan speed	[min <sup>-1</sup> ]	2540
Thermal efficiency up to*			75%
Max power consumption VE / VW		[kW/A]	9,96 /19,37    0,96 /6,37
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]	180    178
Comply with ERP			2016; 2018
Operation			indoors
Housing protection class		IP	34

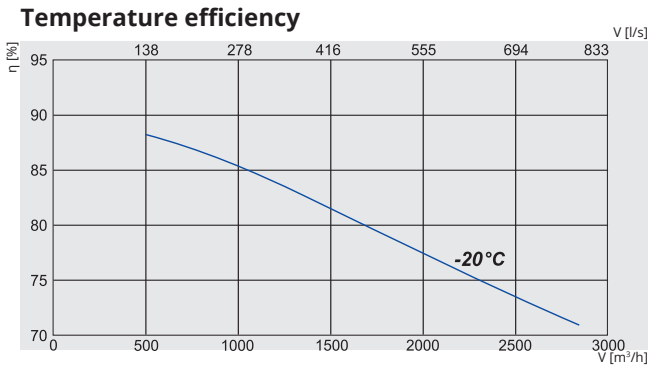
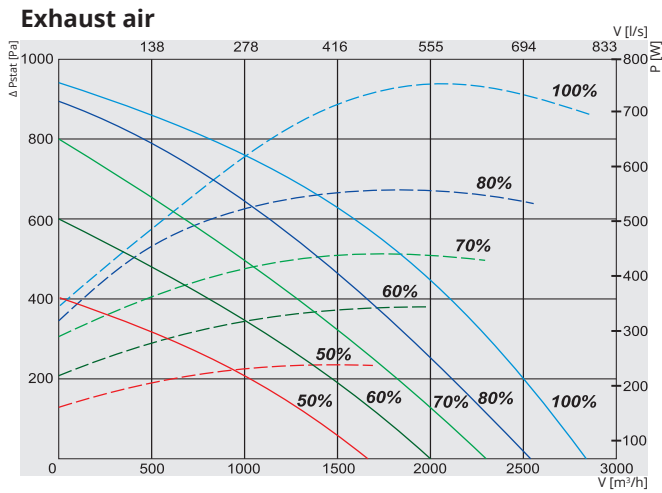
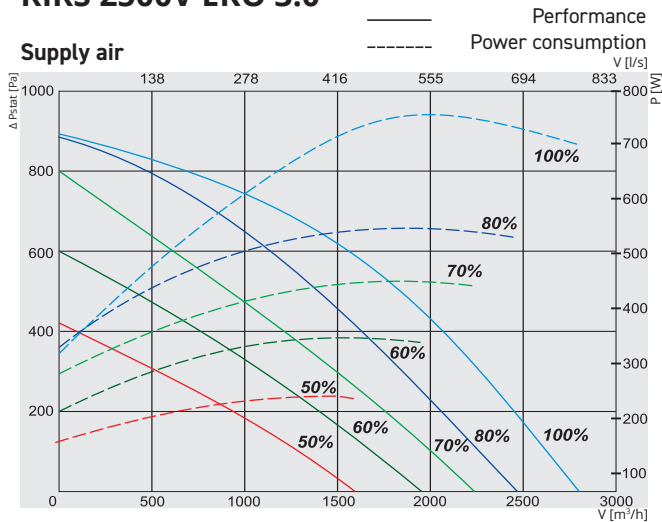
\* Calculated wet efficiency.

AIR HANDLING UNITS



# AMBERAIR COMPACT RIRS V EKO

## AmberAir Compact RIRS 2500V EKO 3.0



### 2500VL EKO 3.0

Air intake side (L- left)



View from inspection side

### 2500VR EKO 3.0

Air intake side (R- right)



View from inspection side

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

Article No.	Version	Description
AHU001350	2500VEL EKO 3.0	Left-hand maintenance version with integrated electrical heater and 0-10 rotor
AHU001349	2500WVL EKO 3.0	Left-hand maintenance version prepared for optional water heater and 0-10 rotor control
AHU000995	2500VER EKO 3.0	Right-hand maintenance version with integrated electrical heater and 0-10 rotor
AHU000996	2500VVR EKO 3.0	Right-hand maintenance version prepared for optional water heater and 0-10 rotor control

2500V 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	78	61	68	72	73	70	64	62
Extract	67	59	62	63	57	52	48	43
Surrounding	62	45	54	59	52	52	49	46

Measured at 2355 m³/h, 214 Pa

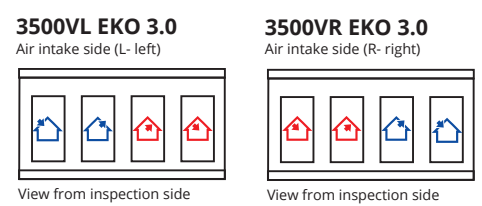
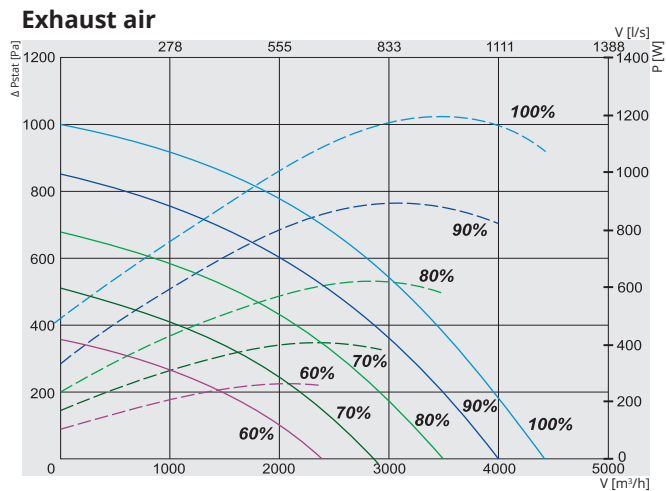
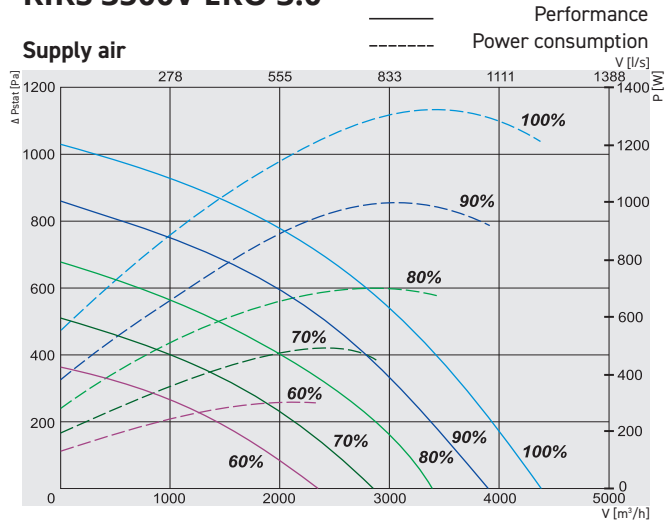
Temperature efficiency (balanced mass flow):  
 Extract air = 20°C/60%RH  
 Outdoor air = -20°C

Water heater (optional) VW ver.			2500VE / VW EKO 3.0
Electrical heater VE ver.	phase/voltage	[50Hz/VAC]	SVS-V
		[kW]	~3, 400
EC fans	phase/voltage	[50Hz/VAC]	9
exhaust	power/current	[kW/A]	~1, 230
	fan speed	[min <sup>-1</sup> ]	0,75 /3,3
supply	power/current	[kW/A]	2800
	fan speed	[min <sup>-1</sup> ]	0,76 /3,32
			2800
Thermal efficiency up to*			75%
Max power consumption VE / VW		[kW/A]	10,55 /19,97 1,55 /6,97
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]	280,0 270,0
Comply with ERP			2016; 2018
Operation			indoors
Housing protection class		IP	34

\* Calculated wet efficiency.

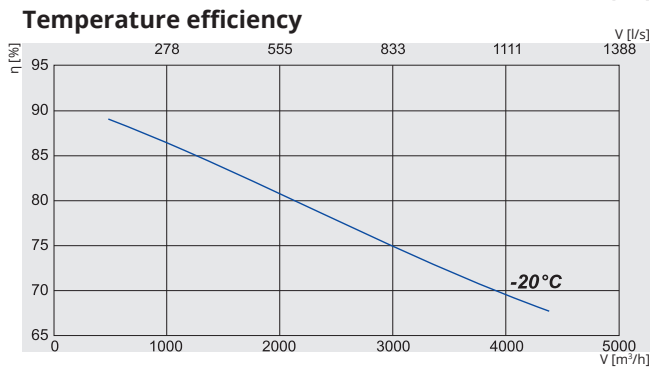
# AMBERAIR COMPACT RIRS V EKO

## AmberAir Compact RIRS 3500V EKO 3.0



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

Article No.	Version	Description
AHU001345	3500VEL EKO 3.0	Left-hand maintenance version with integrated electrical heater and 0-10 rotor
AHU001331	3500VWL EKO 3.0	Left-hand maintenance version prepared for optional water heater and 0-10 rotor control
AHU000999	3500VER EKO 3.0	Right-hand maintenance version with integrated electrical heater and 0-10 rotor
AHU001000	3500VVR EKO 3.0	Right-hand maintenance version prepared for optional water heater and 0-10 rotor control



3500V 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	82	60	74	75	76	75	73	68
Extract	72	58	70	66	60	57	51	43
Surrounding	64	55	58	59	57	53	49	45

Measured at 3728 m³/h, 242 Pa

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

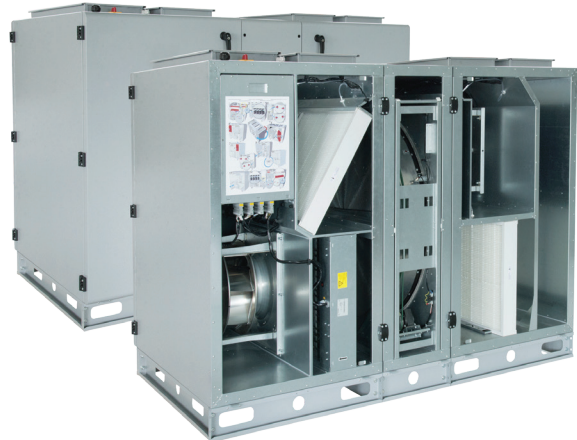
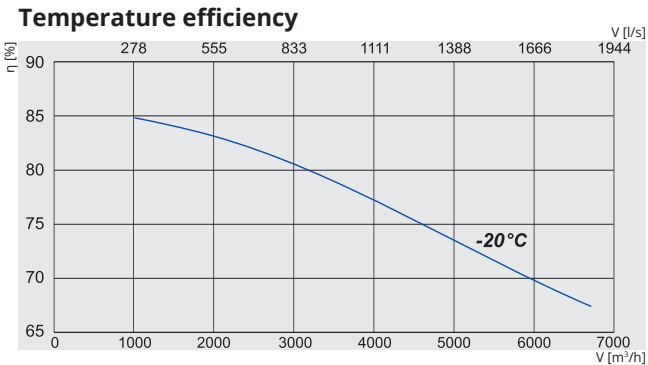
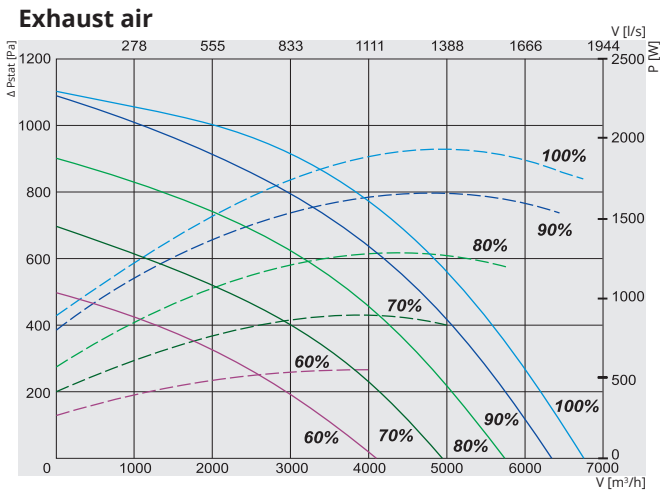
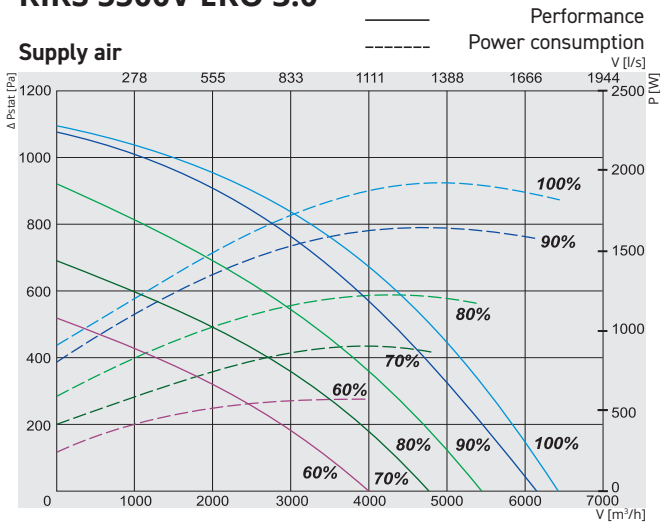
Water heater (optional) VW ver.			3500VE / VW EKO 3.0		
Electrical heater VE ver.	phase/voltage	[50Hz/VAC]	SVS-V		
		[kW]	~3, 400		
EC fans	phase/voltage	[50Hz/VAC]	12		
exhaust	power/current	[kW/A]	~1, 230		
	fan speed	[min <sup>-1</sup> ]	1,35 /6		
supply	power/current	[kW/A]	2390		
	fan speed	[min <sup>-1</sup> ]	1,33 /5,7		
Thermal efficiency up to*			2390		
Max power consumption VE / VW		[kW/A]	75%		
Control board			14,72 /29,35    2,72 /12,05		
Filter class	exhaust/supply		PRV V2		
Housing insulation, mineral wool		[mm]	ePM10 55 /ePM1-70		
Colour	RAL	grey	50		
Weight (net, without packing)		[kg]	7040		
Comply with ERP			380,0    370,0		
Operation			2016; 2018		
Housing protection class	IP		indoors		
			34		

\* Calculated wet efficiency.

AIR HANDLING UNITS

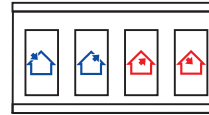
# AMBERAIR COMPACT RIRS V EKO

## AmberAir Compact RIRS 5500V EKO 3.0



**5500VL EKO 3.0**

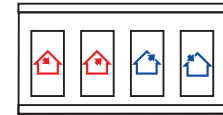
Air intake side (L- left)



View from inspection side

**5500VR EKO 3.0**

Air intake side (R- right)



View from inspection side

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

Article No.	Version	Description
AHU001341	5500VEL EKO 3.0	Left-hand maintenance version with integrated electrical heater and 0-10 rotor
AHU001340	5500WVL EKO 3.0	Left-hand maintenance version prepared for optional water heater and 0-10 rotor control
AHU001003	5500VER EKO 3.0	Right-hand maintenance version with integrated electrical heater and 0-10 rotor
AHU001004	5500VVR EKO 3.0	Right-hand maintenance version prepared for optional water heater and 0-10 rotor control

5500V 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	87	68	80	81	82	78	77	74
Extract	75	63	69	72	66	63	58	55
Surrounding	74	58	66	69	68	65	51	54

Measured at 5652 m³/h, 246Pa

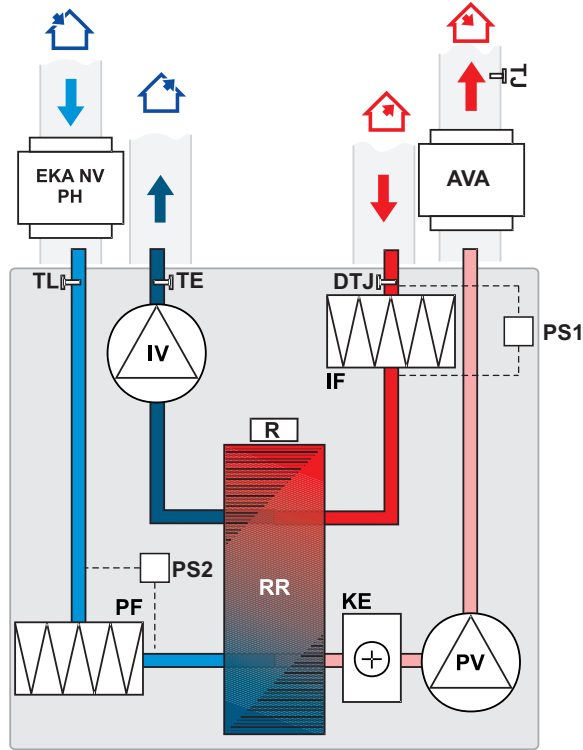
Temperature efficiency (balanced mass flow):  
 Extract air = 20°C/60%RH  
 Outdoor air = -20°C

Water heater (optional) VW ver.			5500VE / VW EKO 3.0
Electrical heater VE ver.	phase/voltage	[50Hz/VAC]	SVS-V
		[kW]	~3, 400
			18
EC fans	phase/voltage	[50Hz/VAC]	~3, 400
exhaust	power/current	[kW/A]	1,9 /3,1
	fan speed	[min <sup>-1</sup> ]	2180
supply	power/current	[kW/A]	1,9 /3,1
	fan speed	[min <sup>-1</sup> ]	2180
Thermal efficiency up to*			75%
Max power consumption VE / VW		[kW/A]	21,84 /32,55 3,84 /6,55
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]	580,0 565,0
Comply with ERP			2016; 2018
Operation			indoors
Housing protection class		IP	34

\* Calculated wet efficiency.

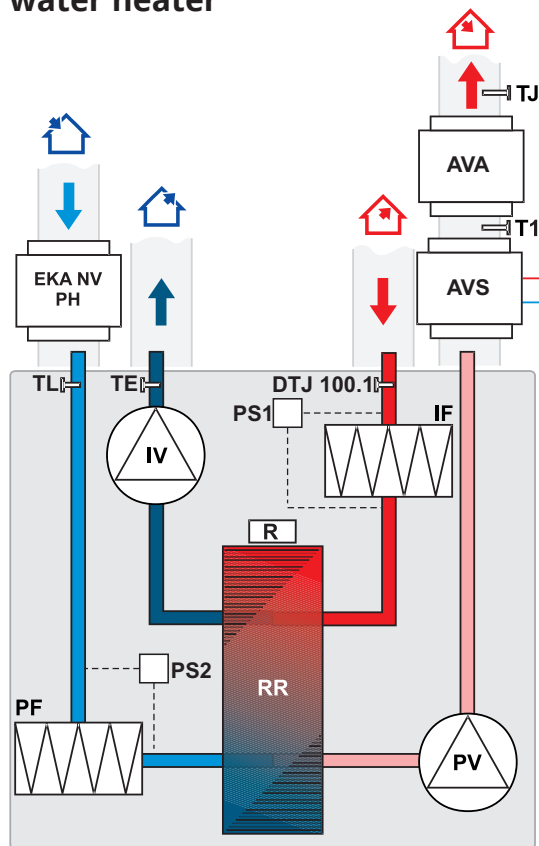
# AMBERAIR COMPACT RIRS V EKO

## AmberAir Compact RIRS 1200VE EKO 3.0 / 1900VE EKO 3.0 (vertical) versions with electrical heater



- PS1 - supply air differential pressure switch
- PS2 - extract air differential pressure switch
- DTJ - humidity + temperature sensor
- IV - exhaust air fan
- PV - supplied air fan
- RR - rotary heat exchanger
- R - rotor motor
- KE - electrical heater
- PF - fresh air filter (class ePM1-70)
- IF - extract air filter (class ePM10 55)
- TJ - temperature sensor for supply air
- TL - temperature sensor for fresh air
- TE - temperature sensor for exhaust air
- EKA NV PH - optional fresh air pre-heater
- AVA - optionally supplied water cooler

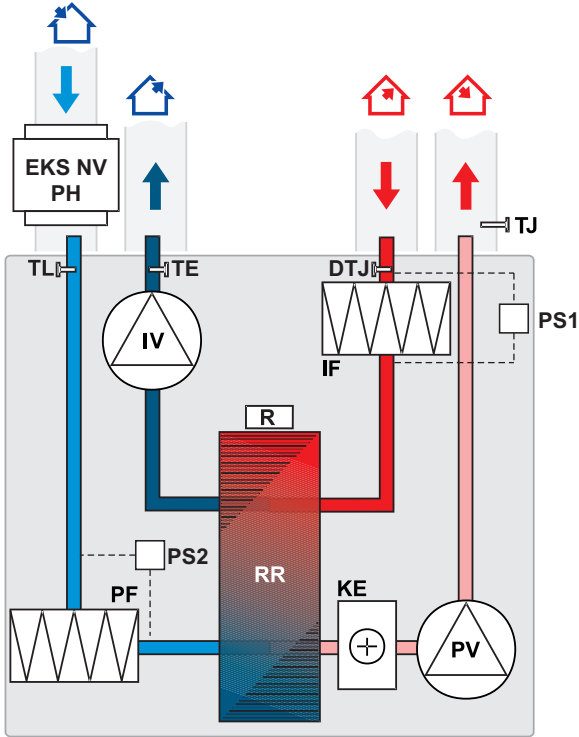
## AmberAir Compact RIRS 1200VW EKO 3.0 / 1900VW EKO 3.0 (vertical) versions with water heater



- PS1 - supply air differential pressure switch
- PS2 - extract air differential pressure switch
- AVS - optionally supplied water heater
- AVA - optionally supplied water cooler
- EKA NV PH - optional fresh air pre-heater
- DTJ - humidity + temperature sensor
- IV - exhaust air fan
- PV - supplied air fan
- RR - rotary heat exchanger
- R - rotor motor
- PF - fresh air filter (class ePM1-70)
- IF - extract air filter (class ePM10 55)
- TJ - air temperature sensor
- TL - air temperature sensor
- M6 - optionally supplied mixing valve and motor
- M4 - water heater circulation pump
- T1 - antifrost thermostat
- TV - supplied antifrost sensor
- TE - temperature sensor for exhaust air

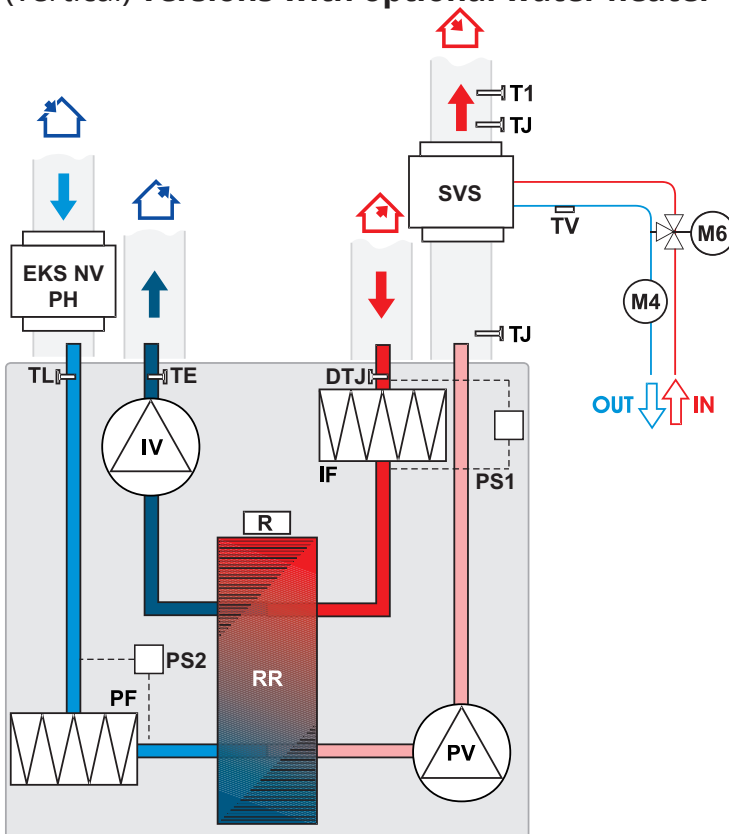
# AMBERAIR COMPACT RIRS V EKO

## AmberAir Compact RIRS 2500VE EKO 3.0 / 3500VE EKO 3.0 / 5500VE EKO 3.0 (vertical) versions with electrical heater



- PS1 - supply air differential pressure switch
- PS2 - extract air differential pressure switch
- DTJ - humidity + temperature sensor for extract air
- IV - exhaust air fan
- PV - supply air fan
- RR - rotary heat exchanger
- R - rotor motor
- KE - electrical heater
- PF - fresh air filter (class ePM1-70)
- IF - extract air filter (class ePM10 55)
- TJ - temperature sensor for supply air
- TL - temperature sensor for fresh air
- TE - temperature sensor for exhaust air
- EKS NV PH - optional fresh air pre-heater

## AmberAir Compact RIRS 2500VW EKO 3.0 / 3500VW EKO 3.0 / 5500VW EKO 3.0 (vertical) versions with optional water heater



- SVS - optionally supplied water heater
- PS1 - supply air differential pressure switch
- PS2 - extract air differential pressure switch
- DTJ - humidity + temperature sensor
- IV - exhaust air fan
- PV - supplied air fan
- RR - rotary heat exchanger
- R - rotor motor
- PF - fresh air filter (class ePM1-70)
- IF - extract air filter (class ePM10 55)
- TJ - air temperature sensor
- TL - air temperature sensor
- TE - temperature sensor for exhaust air
- M6 - optionally supplied mixing valve and motor
- M4 - water heater circulation pump
- T1 - antifrost thermostat
- TV - supplied antifrost sensor
- EKS NV PH - optional fresh air pre-heater

# AMBERAIR COMPACT RIRS V EKO

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

1 With FLEX TEST remote controller

2 Only sensors