



AHU with heat recovery

Lüftungsgeräte mit wärmerückgewinnung



Rekuperator-Einrichtungen RIRS säubern, erwärmen und liefern frische Luft. RIRS-Einrichtungen nehmen Wärme aus der ausgestoßenen Luft auf und leiten sie in die gelieferte Luft weiter.

Rotorwärmetauscher

Hoher Wärmerückgewinnungsgrad 71-80%

Elektrische oder Wasser-Erwärmungseinrichtung

Leistungsfähige und leise funktionierende Ventilatoren

Regelung des Luftstromes

Regelung der Temperatur der gelieferten Luft

Motoren mit Außenrotor

Wechselbare Bedienungsseite RIRS 400HE - 1500HE und 1500HW

RIRS 400...E - 1500...E und 1500HW mit integrierten Steuerungs- und Überwachungsmöglichkeiten mithilfe von UNI oder PRO Steuerpulten.

Akustische Isolation der Wände - 50mm

RIRS 400...E - 1500...E und 1500HW das Gehäuse: gestrichen

Niedriges Geräuschniveau

Leicht montierbar



Air handling units RIRS have high efficiency rotor heat exchanger.

AHU is used for ventilation of houses and other heated areas.

Rotor heat exchanger with efficiency 71-80%

Electrical or water heater

Efficient and low-noise fans

Controlled air flow

Supply air temperature control

External-rotor motors

Convertible inspection side for RIRS 400HE - 1500HE and 1500HW

RIRS 400...E - 1500...E and 1500HW with integrated control and monitoring capabilities, using UNI or PRO remote control devices

Acoustic insulation of the walls - 50 mm

RIRS 400...E - 1500...E and 1500HW housing: powder coated painting

Low noise level

Easy mounting

#### Accessories



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AKS  
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SSP  
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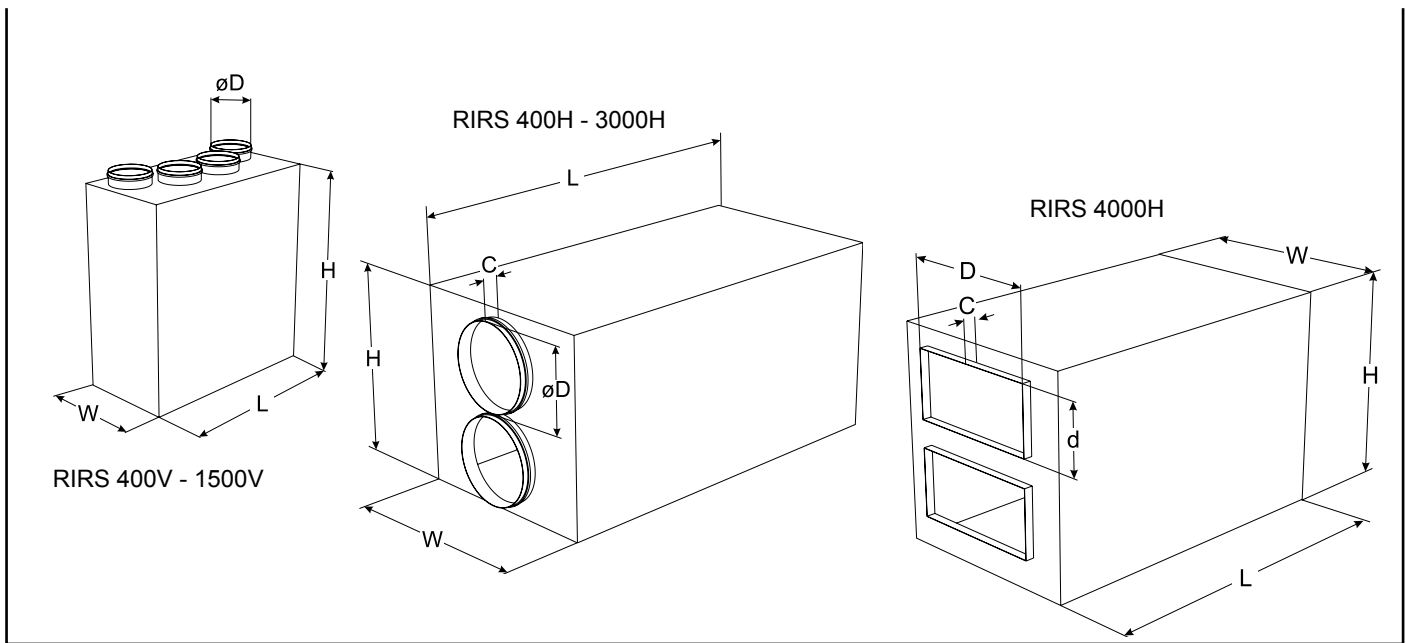
AP  
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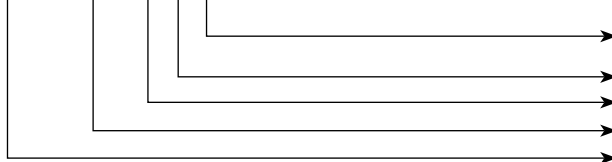
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### RIRS 2000 H E A

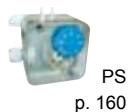


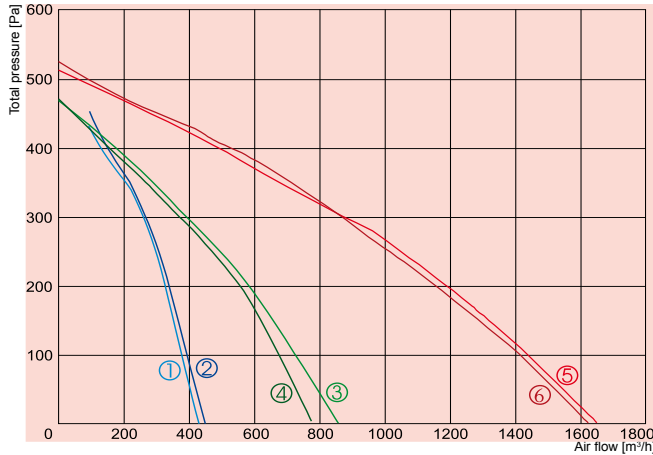
Version of fresh air in-feed direction (Models RIRS 400V-1500V: K – From left; D – From right) (Models RIRS 2000H-4000H: A – From right, from above; B – From right, from below; C – From left, from above; D – From left, from below)  
 Heater type (E - electrical; W - water)  
 Housing type (H - horizontal; V - vertical)  
 Air flow m<sup>3</sup>/h  
 AHU with rotor heat-exchanger

Type	Dimensions [mm]				
	L, mm	W, mm	H, mm	øD, mm	C, mm
RIRS 400V	900	552	850	160	30
RIRS 700V	1000	650	980	250	40
RIRS 1500V	1300	850	1150	315	40
RIRS 400H	1000	555	580	160	30
RIRS 700H	1220	706	700	250	40
RIRS 1500H	1800	906	900	315	40
RIRS 2000H	1800	906	900	400	65
RIRS 3000H	2100	1205	1200	400	65

Type	L, mm	W, mm	H, mm	D, mm	d, mm	C, mm
RIRS 4000H	2100	1205	1200	800	500	65

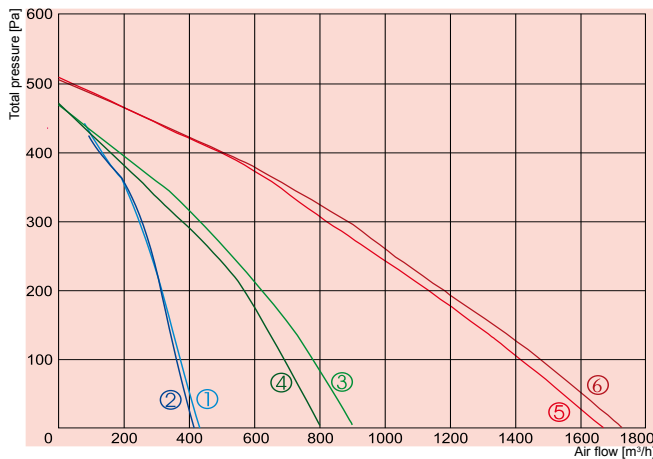
### Accessories





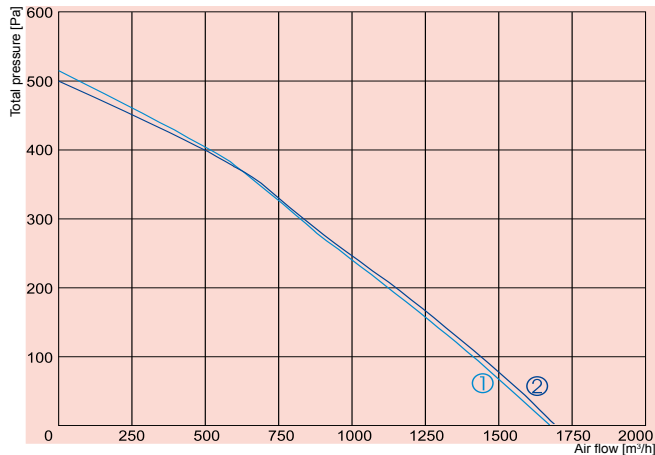
- ① — supply **RIRS 400VE**
- ② — exhaust
  
- ③ — supply **RIRS 700VE**
- ④ — exhaust
  
- ⑤ — supply **RIRS 1500VE**
- ⑥ — exhaust

		<b>400VE</b>	<b>700VE</b>	<b>1500VE</b>
Heater	-phase/voltage [50Hz/VAC]	~1, 230	~1, 230	~3, 400
	-power consumption [kW]	1,2	2,0	4,5
Fans	-phase/voltage [50Hz/VAC]	~1, 230	~1, 230	~1, 230
	exhaust -power/current [W/A]	190/0,84	280/1,22	390/1,71
	-fan speed [min <sup>-1</sup> ]	1850	2050	2750
	supply -power/current [W/A]	190/0,84	280/1,22	390/1,71
	-fan speed [min <sup>-1</sup> ]	1850	2050	2750
Motor protection class		IP-44	IP-44	IP-44
Terminal box protection class		IP-54	IP-54	IP-54
Thermal efficiency		75%	74%	74%
Max power consumption [kW/A]		1,59/6,91	2,57/11,21	5,30/10,07
Automatic control		integrated	integrated	integrated
Filter class	-exhaust	EU5	EU5	EU5
	-supply	EU5	EU5	EU5



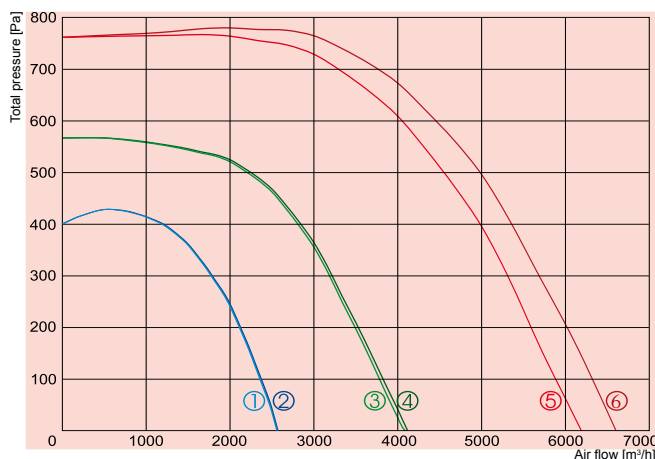
- ① — supply **RIRS 400HE**
- ② — exhaust
  
- ③ — supply **RIRS 700HE**
- ④ — exhaust
  
- ⑤ — supply **RIRS 1500HE**
- ⑥ — exhaust

		<b>400HE</b>	<b>700HE</b>	<b>1500HE</b>
Heater	-phase/voltage [50Hz/VAC]	~1, 230	~1, 230	~3, 400
	-power consumption [kW]	1,2	2,0	4,5
Fans	-phase/voltage [50Hz/VAC]	~1, 230	~1, 230	~1, 230
	exhaust -power/current [W/A]	190/0,84	300/1,31	390/1,71
	-fan speed [min <sup>-1</sup> ]	1850	2050	2750
	supply -power/current [W/A]	190/0,84	300/1,31	390/1,71
	-fan speed [min <sup>-1</sup> ]	1850	2050	2750
Motor protection class		IP-44	IP-44	IP-44
Terminal box protection class		IP-54	IP-54	IP-54
Thermal efficiency		75%	74%	74%
Max power consumption [kW/A]		1,59/6,91	2,61/11,39	5,30/10,07
Automatic control		integrated	integrated	integrated
Filter class	-exhaust	EU5	EU5	EU5
	-supply	EU5	EU5	EU5



① — supply **RIRS 1500HW**  
② — exhaust

			<b>1500HW</b>
Water heater	-power	[kW]	5,45
	-water temp. $T_{in}/T_{out}$	[°C]	80/60
	-water flow rate	[l/s]	0,07
	-water pressure drop	[kPa]	2,5
Fans	-phase/voltage	[50Hz/VAC]	~1, 230
exhaust	-power/current	[W/A]	390/1,71
	-fan speed	[min <sup>-1</sup> ]	2750
supply	-power/current	[W/A]	390/1,71
	-fan speed	[min <sup>-1</sup> ]	2750
Motor/terminal box protection class			IP-44/IP-54
Thermal efficiency			74%
Max power consumption	[kW/A]		2,30/3,58
Automatic control			integrated
Filter class	-exhaust/supply		EU5/EU5

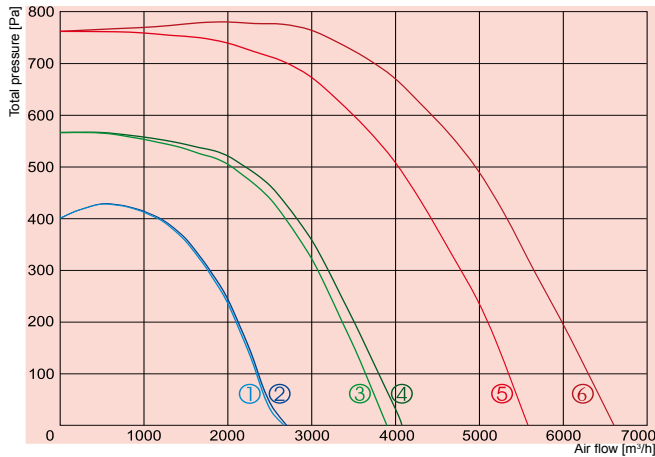


① — supply **RIRS 2000HE**  
② — exhaust

③ — supply **RIRS 3000HE**  
④ — exhaust

⑤ — supply **RIRS 4000HE**  
⑥ — exhaust

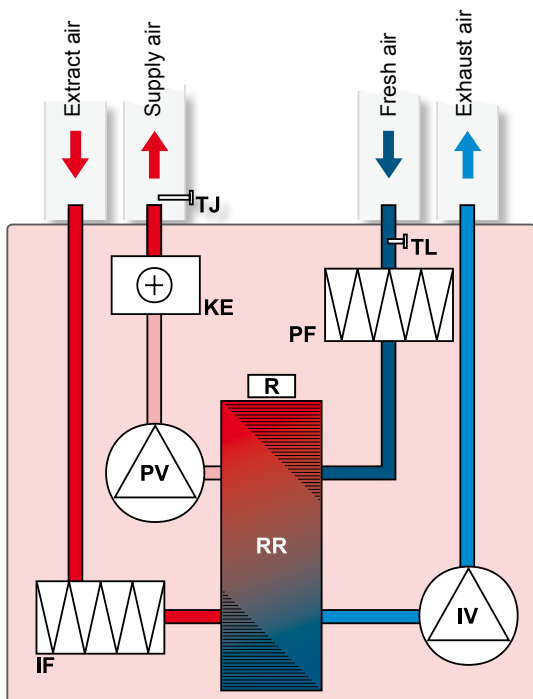
		<b>2000HE</b>	<b>3000HE</b>	<b>4000HE</b>	
Heater	-phase/voltage	[50Hz/VAC]	~3, 400	~3, 400	~3, 400
	-power consumption	[kW]	9	15	18 (9+9)
Fans	-phase/voltage	[50Hz/VAC]	~3, 400	~3, 400	~3, 400
exhaust	-power/current	[kW/A]	1,5/2,6	2,5/4,1	3,7/6,0
	-fan speed	[min <sup>-1</sup> ]	1310	1300	1320
supply	-power/current	[kW/A]	1,5/2,6	2,5/4,1	3,7/6,0
	-fan speed	[min <sup>-1</sup> ]	1310	1300	1320
Motor protection class			IP-54	IP-54	IP-54
Terminal box protection class			IP-54	IP-54	IP-54
Thermal efficiency			70%	77%	71%
Max power consumption	[kW/A]		12,1/18,5	20,1/30,2	25,5/38,3
Automatic control			optional	optional	optional
Filter class	-exhaust		EU5	EU5	EU5
	-supply		EU5	EU5	EU5



- ① — supply **RIRS 2000HW**
- ② — exhaust
- ③ — supply **RIRS 3000HW**
- ④ — exhaust
- ⑤ — supply **RIRS 4000HW**
- ⑥ — exhaust

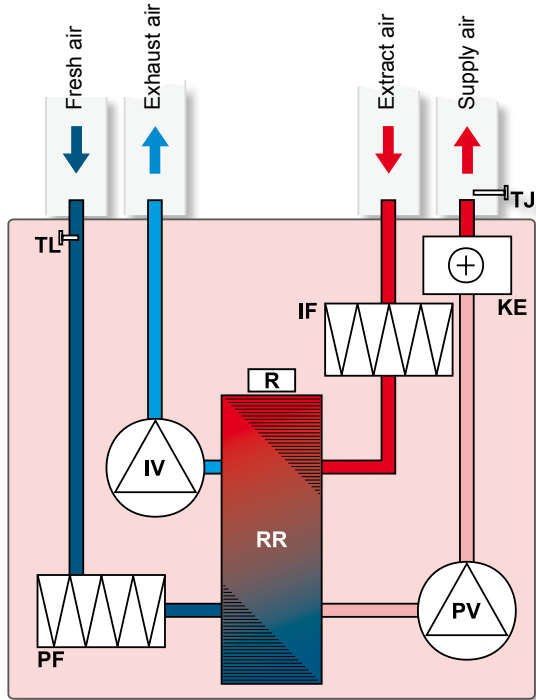
			2000HW	3000HW	4000HW	
Water heater	-power	[kW]	9,5	11,21	16,29	
	-water temp. $T_{in}/T_{out}$	[°C]	80/60	80/60	80/60	
	-water flow rate	[l/s]	0,12	0,14	0,20	
	-water pressure drop	[kPa]	4,5	7,5	11,85	
Fans	-phase/voltage	[50Hz/VAC]	~3, 400	~3, 400	~3, 400	
	exhaust	-power/current	[kW/A]	1,5/2,6	2,5/4,1	3,7/6,0
		-fan speed	[min <sup>-1</sup> ]	1310	1300	1320
supply	-power/current	[kW/A]	1,5/2,6	2,5/4,1	3,7/6,0	
	-fan speed	[min <sup>-1</sup> ]	1310	1300	1320	
Motor/terminal box protection class			IP-54/IP-54	IP-54/IP-54	IP-54/IP-54	
Thermal efficiency			70%	77%	71%	
Max power consumption		[kW/A]	3,1/5,5	5,1/8,5	7,5/12,3	
Automatic control			optional	optional	optional	
Filter class	-exhaust/supply		EU5/EU5	EU5/EU5	EU5/EU5	

### RIRS 400VE (vertical) with electrical heater



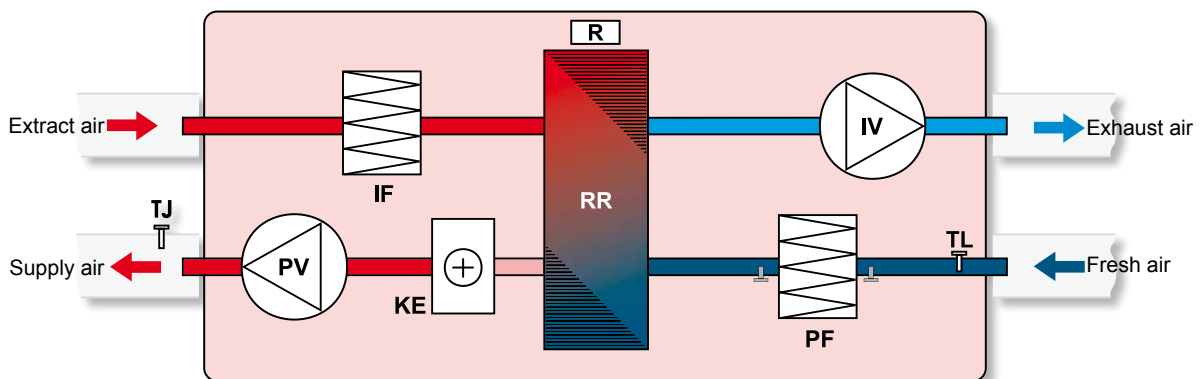
- IV - exhaust air fan
- PV - supplied air fan
- RR - rotary heat exchanger
- R - rotor motor
- KE - electrical heater
- PF - fresh air filter (class EU5)
- IF - extract air filter (class EU5)
- TJ - air temperature sensor
- TL - air temperature sensor

### RIRS 700VE; 1500VE (vertical) versions with electrical heater



- IV - exhaust air fan
- PV - supplied air fan
- RR - rotary heat exchanger
- R - rotor motor
- KE - electrical heater
- PF - fresh air filter (class EU5)
- IF - extract air filter (class EU5)
- TJ - air temperature sensor
- TL - air temperature sensor

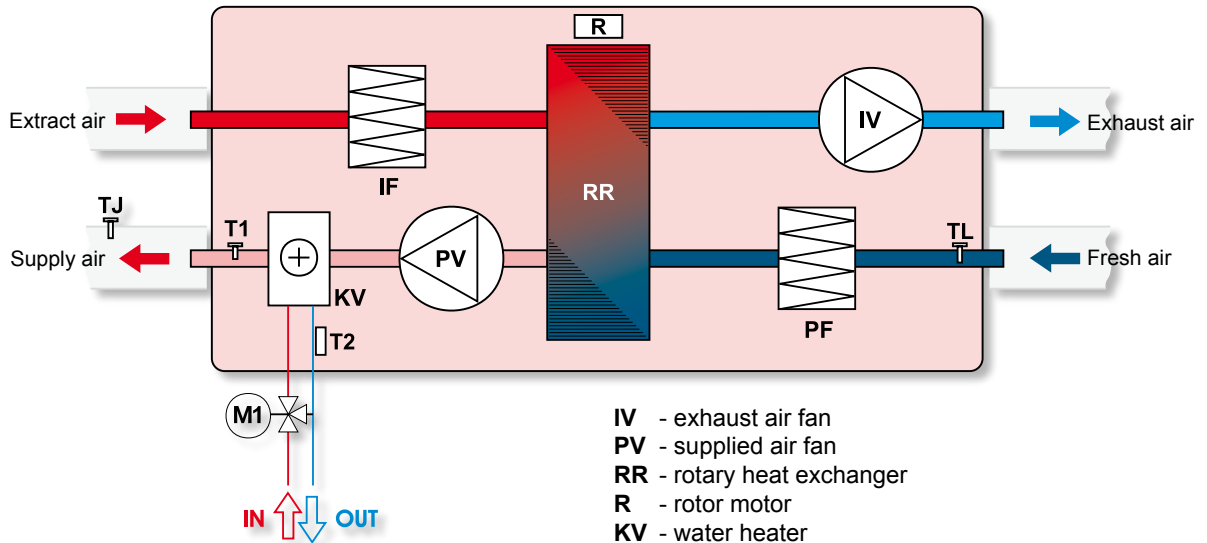
### RIRS HE (horizontal) versions with electrical heater



- IV - exhaust air fan
- PV - supplied air fan
- RR - rotary heat exchanger
- R - rotor motor
- KE - electrical heater
- PF - fresh air filter (class EU5)
- IF - extract air filter (class EU5)
- TJ - air temperature sensor \*
- TL - air temperature sensor \*

\* - supplied with integrated automatic control (RIRS 400HE, RIRS 700HE, RIRS 1500HE). It is optional for other RIRS models.

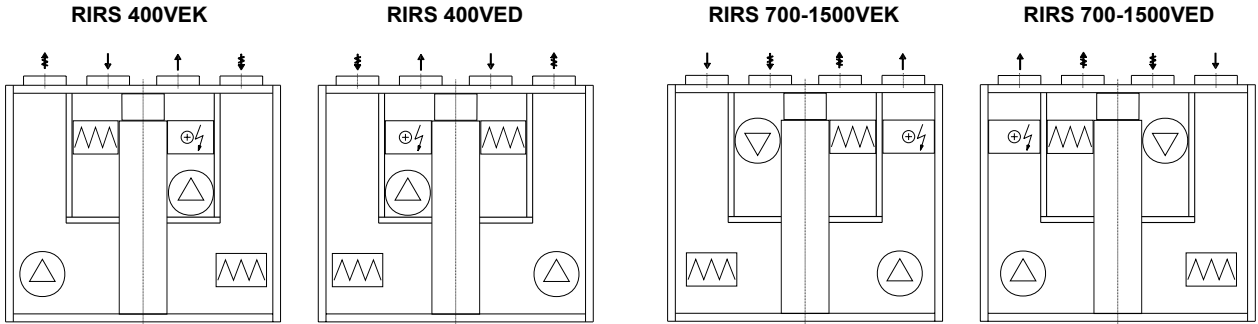
### RIRS HW (horizontal) versions with water heater



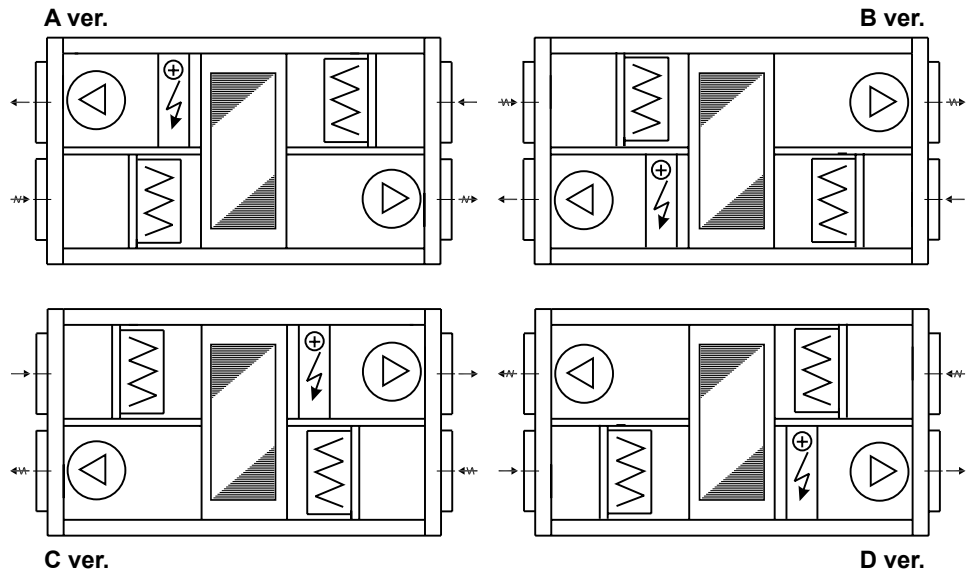
- IV** - exhaust air fan
- PV** - supplied air fan
- RR** - rotary heat exchanger
- R** - rotor motor
- KV** - water heater
- PF** - fresh air filter (class EU5)
- IF** - extract air filter (class EU5)
- TJ** - air temperature sensor \*
- TL** - air temperature sensor \*
- T1** - air temperature sensor \*
- T2** - surface temperature sensor \*
- M1** - optionally supplied mixing valve and motor

\* - supplied with integrated automatic controll (RIRS 1500HW). It is optional for other RIRS models.

**RIRS 400VE; 700VE; 1500VE versions**



**RIRS 2000HE; 3000HE; 4000HE versions**



**RIRS 2000HW; 3000HW; 4000HW versions**

