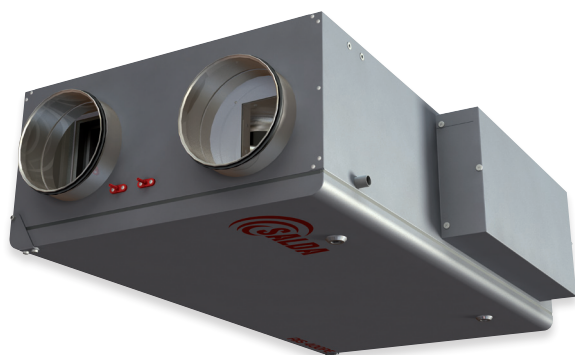


NEW!




AHU with heat recovery


Centrales de traitement d'air avec récupération de chaleur

Lüftungsgeräte mit Wärmerückgewinnung


AHU med varmegenvinding

 Air handling units RIS P 3.0 have high efficiency plate heat exchanger. AHU is used for ventilation of houses and other heated areas.


- Efficient, low noise fans.
- Efficiency of plate heat exchanger up to 80%.
- Electrical or water heater.
- Controlled air flow.
- Anti-freeze protection of the heat exchanger.
- Low noise level.
- RIS 400P, 700P, 1000P, 1500P 3.0 all versions can be controlled by Flex, Stouch remote control devices.
- Acoustic insulation of the walls RIS 400P, 700P 3.0 - 30mm and RIS 1000P, 1500P 3.0 - 50mm.
- Housing: powder coated painting RAL 7040.
- Easy mounting.

 Lüftungsgeräte RIS P 3.0 säubern, erwärmen und liefern frische Luft. Geräte sind für Lüftung von Häusern und anderen beheizten Räumen bestimmt.

- Leistungsfähige und leise Ventilatoren.
- Kreuzstromwärmetauscher mit Wärmerückgewinnungsgrad bis zu 80%.
- Elektro- oder Warmwasserheizregister.
- Regelung des Luftstromes und Temperatur.
- Frostschutz des Wärmetauschers.
- Niedrige Schallpegel.
- Eingebaute Steuerung, Regelung durch Bedieneinheiten UFlex, Stouch.
- Schall- und Wärmedämmung der Wände bei RIS 400/700 P 3.0 – 30mm, bei RIS1000/1500 P 3.0 – 50 mm.
- Pulverbeschichtet nach RAL7040.
- Leicht montierbar.









 Les centrales de traitement d'air RIS P 3.0 sont équipées d'un échangeur de chaleur à plaques efficace. Ces centrales de traitement d'air avec la récupération de chaleurs sont utilisées pour la ventilation des locaux chauffés.

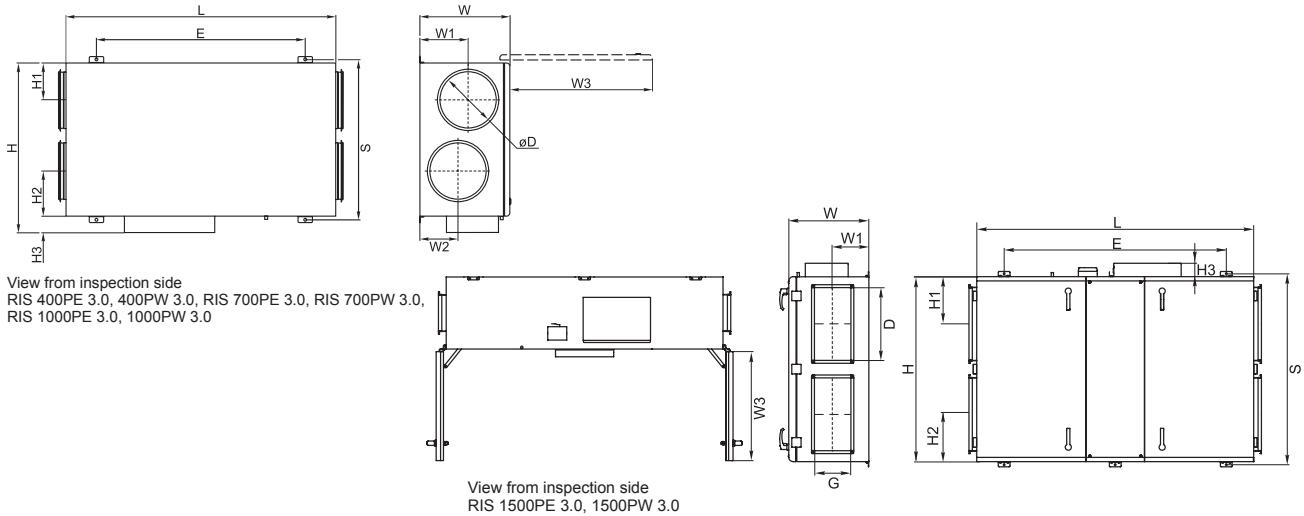
- Ventilateurs économes en énergie et silencieux.
- Échangeur de chaleur à plaques efficace, dont le rendement thermique fait jusqu'à 80%.
- Batterie électrique ou batterie à eau chaude régulée séparément.
- Possibilité d'inverser le flux d'air.
- Réglage de la température de l'air soufflé.
- Protection antigel de l'échangeur.
- Faible niveau de bruit.
- Peut être commandé à l'aide des boîtiers de commande Flex, Stouch.
- Isolation acoustique des parois – RIS 400P, 700P 3.0 – 30 mm et RIS 1000P, 1500P 3.0 – 50 mm.
- Caisson peint avec la peinture à poudre, couleur RAL 7040.
- Installation facile et rapide.

 Ventilationsaggregatet RIS P 3.0 har en særdeles effektiv krydsvarmeveksler. AHU anvendes til ventilation af huse og andre opvarmede områder.

- Effektive og støjsvage ventilatorer.
- Virkningsgrad op til 80%.
- El- eller vandvarme.
- Regulerbar luftmængde.
- Regulerbar indblæsnings-temperatur.
- Anti-frost beskyttelse af krydsveksleren.
- Lavt støjniveau.
- Støjdæpende isolering af kabinettet, RIS 400P, 700P 3.0 – 30mm / RIS 1000P, 1500P 3.0 - 50mm.
- Alle varianter af RIS 400P, 700P, 1000P 1500P 3.0 kan styres med Flex, Stouch fjernbetjening.
- Pulverlakeret kabinet RAL 7040.
- Nem montering.

Accessories

Control panel	Sensor controller	Shuft-off damper	Circular duct silencer	Mounting clamp	Dampers for rectangular duct	Rectangular duct silencer	Water heater coil
							
Flex p. 178	Stouch p. 179	SKG p. 226	AKS p. 230	AP p. 229	SSK p. 228	SKS p. 233	SVS p. 198



RIS 400 P E 3.0







- Equipped with new PRV V1.1 control board
- Heater type (E - integrated electrical heater; W - optional water heater)
- Housing type (V - vertical, H - horizontal, P - under - ceiling)
- AHU size according to air flow range m³/h
- AHU with plate heat-exchanger

Type	Dimensions [mm]													
	W	W1	W2	W3	H	H1	H2	H3	E	L	S	øD	D	G
RIS 400PE/PW 3.0	264	125	140	484	615	125	120	75	830	970	592	160	-	-
RIS 700PE/PW 3.0	300	134	134	644	775	190	190	75	1040	1200	752	250	-	-
RIS 1000PE/PW 3.0	495	230	230	800	950	206	216	100	1124	1500	890	315	-	-
RIS 1500PE/PW 3.0	549	248	-	715	1363	325	325	93	1524	1900	1310	-	500	250

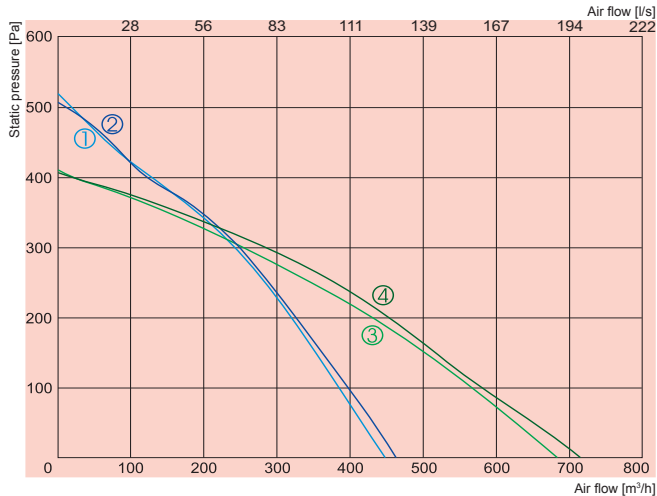
Type	Accessories													
	Flex Stouch	SKG AKS AP	SSK	SKS	SVS	AVS	SP	TJP 10K CO4C***	SSB Heating	RMG 80/60°C	RMG 60/40°C	VVP/VXP 80/60°C	VVP/VXP 60/40°C	
RIS 400PE 3.0	+	160	-	-	-	-	LM230A-TP	-	-	-	-	-	-	
RIS 400PW 3.0	+	160	-	-	-	160	TF230	+	61	3-0,63-4	3-0,63-4	45.10-0,63	45.10-0,63	
RIS 700PE 3.0	+	250	-	-	-	-	LM230A-TP	-	-	-	-	-	-	
RIS 700PW 3.0	+	250	-	-	-	250	TF230	+	61	3-1,0-4	3-0,63-4	45.10-1,0	45.10-0,63	
RIS 1000PE 3.0	+	315	-	-	-	-	LM230A-TP	-	-	-	-	-	-	
RIS 1000PW 3.0	+	315	-	-	-	315	LF230	int	61	3-1,6-4	3-1,0-4	45.10-1,6	45.10-1,0	
RIS 1500PE 3.0	+	-	500x250	50-25	-	-	LM230A-TP	-	-	-	-	-	-	
RIS 1500PW 3.0	+	-	500x250	50-25	500x250	-	TF230	int	61	3-2,5-4	3-1,6-4	45.10-2,5	45.10-1,6	

*** - anti-frost thermostat
int - already integrated into the unit

Accessories

Heating coil  AVS p. 192	Actuator for dampers  SP p. 188	Duct sensor  TJP 10K p. 187	Thermic water valve actuator  SSB p. 184	Mixing point  RMG p. 185	2 and 3 way valves  VVP/VXP p. 186
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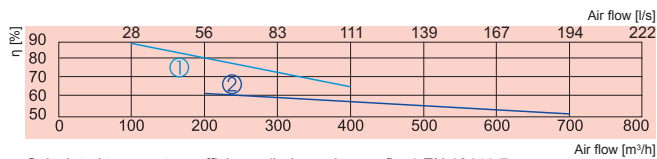
RIS P



- ① — supply
- ② — exhaust
- ③ — supply
- ④ — exhaust

RIS 400PE 3.0

RIS 700PE 3.0



- ① —
- ② —

RIS 400PE 3.0

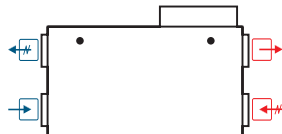
RIS 700PE 3.0

Calculated temperature efficiency (balanced mass flow) EN 13141-7:
 Extract air = 20°C/60%RH
 Outdoor air = -20°C

		400PE 3.0	700PE 3.0
Heater	-phase/voltage [50Hz/VAC]	~1, 230	~1, 230
	-power consumption [kW]	2,0	3,0
Pre-heater for heat exchanger	[kW]	1,0	1,2
Fans	-phase/voltage [50Hz/VAC]	~1, 230	~1, 230
exhaust	-power/current [kW/A]	0,225 /1,1	0,255 /1,12
	-fan speed [min ⁻¹]	1850	2000
supply	-power/current [kW/A]	0,225 /1,1	0,255 /1,12
	-fan speed [min ⁻¹]	1850	2000
Motor protection class		IP-44	IP-44
Thermal efficiency		75%	57%
Max power consumption	[kW/A]	3,45 /15,24	4,68 /20,50
Automatic control		integrated	integrated
Filter class	-exhaust	M5	M5
	supply	M5	M5
Thermal insulation	[mm]	30	30
Weight	[kg]	42,0	57,0
Comply with ERP 2013		+	+

Designed for operation indoors only

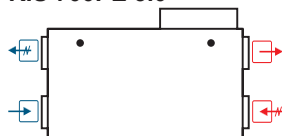
RIS 400PE 3.0



400PE 3.0	Lwa total, dB(A)	LWA, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	68	52	62	63	57	61	55	51
Extract	55	42	48	52	46	42	39	31
Surrounding	48	36	41	44	40	38	35	30

Measured at 380 m³/h, 108 Pa

RIS 700PE 3.0

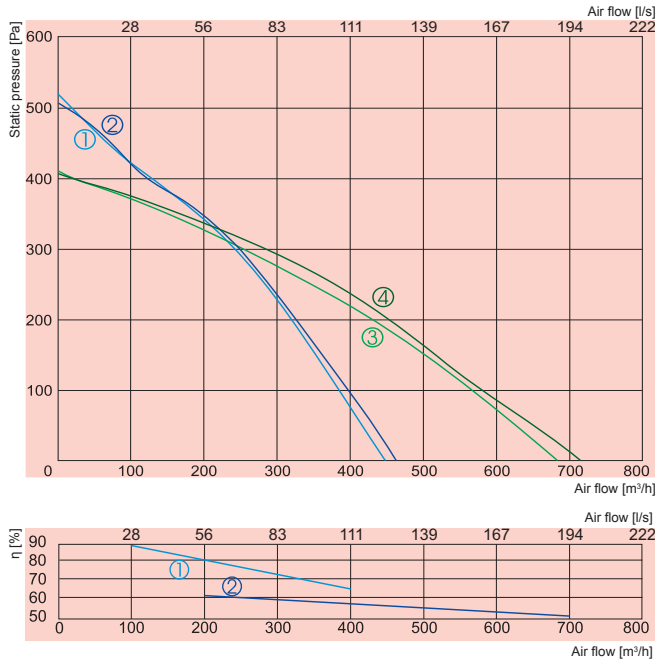


700PE 3.0	Lwa total, dB(A)	LWA, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	76	55	63	70	73	67	68	60
Extract	61	52	59	52	45	44	39	27
Surrounding	53	42	46	47	45	44	42	34

Measured at 556 m³/h, 106 Pa

View from inspection side

- Exhaust air
- Extract air
- Fresh air
- Supply air



① — supply
② — exhaust

RIS 400PW 3.0

③ — supply
④ — exhaust

RIS 700PW 3.0

① — supply
② — exhaust

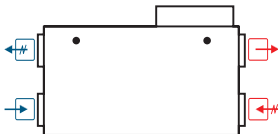
RIS 400PW 3.0
RIS 700PW 3.0

Calculated temperature efficiency (balanced mass flow) EN 13141-7:
Extract air = 20°C/60%RH
Outdoor air = -20°C

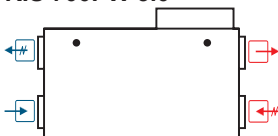
		400PW 3.0	700PW 3.0
Water heater	-power [kW]		
	-water $\cdot T_{in}/T_{out}$ [°C]	AVS 160	AVS 250
	-water flow rate [l/s]		
Pre-heater for heat exchanger	[kW]	1,0	1,2
Fans	-phase/voltage [50Hz/VAC]	~1, 230	~1, 230
exhaust	-power/current [kW/A]	0,225 / 1,1	0,255 / 1,12
	-fan speed [min ⁻¹]	1850	2000
supply	-power/current [kW/A]	0,225 / 1,1	0,255 / 1,12
	-fan speed [min ⁻¹]	1850	2000
Motor protection class		IP-44	IP-44
Thermal efficiency		75%	57%
Max power consumption	[kW/A]	1,45 / 6,55	1,71 / 7,46
Automatic control		integrated	integrated
Filter class	-exhaust	M5	M5
	supply	M5	M5
Thermal insulation	[mm]	30	30
Weight	[kg]	42,0	57,0
Comply with ERP 2013		+	+

Designed for operation indoors only

RIS 400PW 3.0



RIS 700PW 3.0



View from inspection side

↔ Exhaust air ↔ Extract air ↔ Fresh air ↔ Supply air

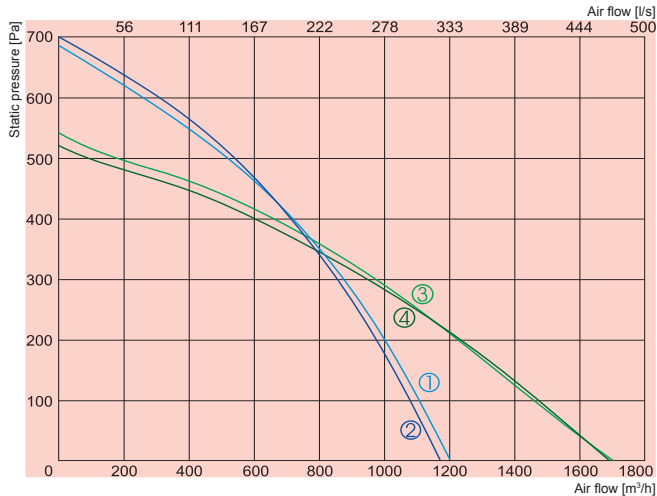
400PW 3.0	Lwa total, dB(A)	LWA, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	68	52	62	63	57	61	55	51
Extract	55	42	48	52	46	42	39	31
Surrounding	48	36	41	44	40	38	35	30

Measured at 380 m³/h, 108 Pa

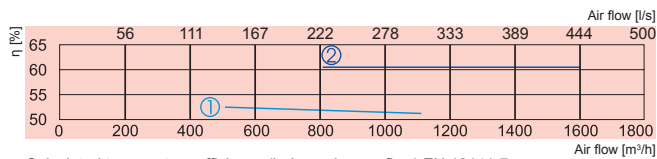
700PW 3.0	Lwa total, dB(A)	LWA, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	76	55	63	70	73	67	68	60
Extract	61	52	59	52	45	44	39	27
Surrounding	53	42	46	47	45	44	42	34

Measured at 556 m³/h, 106 Pa

RIS P



- ① — supply **RIS 1000PE 3.0**
- ② — exhaust
- ③ — supply **RIS 1500PE 3.0**
- ④ — exhaust



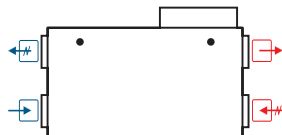
- ① — **RIS 1000PE 3.0**
- ② — **RIS 1500PE 3.0**

Calculated temperature efficiency (balanced mass flow) EN 13141-7:
 Extract air = 20°C/60%RH
 Outdoor air = -20°C

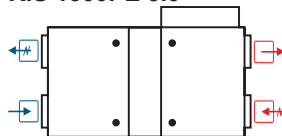
		1000PE 3.0	1500PE 3.0
Heater	-phase/voltage [50Hz/VAC]	~3,400	~3,400
	-power consumption [kW]	6,0	9,0
Fans	-phase/voltage [50Hz/VAC]	~1,230	~1,230
	exhaust -power/current [kW/A]	0,303/1,32	0,359/1,57
	-fan speed [min ⁻¹]	2250	2750
supply	-power/current [kW/A]	0,322/1,4	0,373/1,63
	-fan speed [min ⁻¹]	2250	2750
Motor protection class		IP-44	IP-44
Thermal efficiency		50%	62%
Max power consumption	[kW/A]	6,63/11,40	9,73/16,19
Automatic control		integrated	integrated
Filter class	-exhaust	M5	M5
	-supply	M5	M5
Thermal insulation	[mm]	30	50
Weight	[kg]	113,0	194,0
Comply with ERP 2013		+	-

Designed for operation indoors only

RIS 1000PE 3.0



RIS 1500PE 3.0



View from inspection side

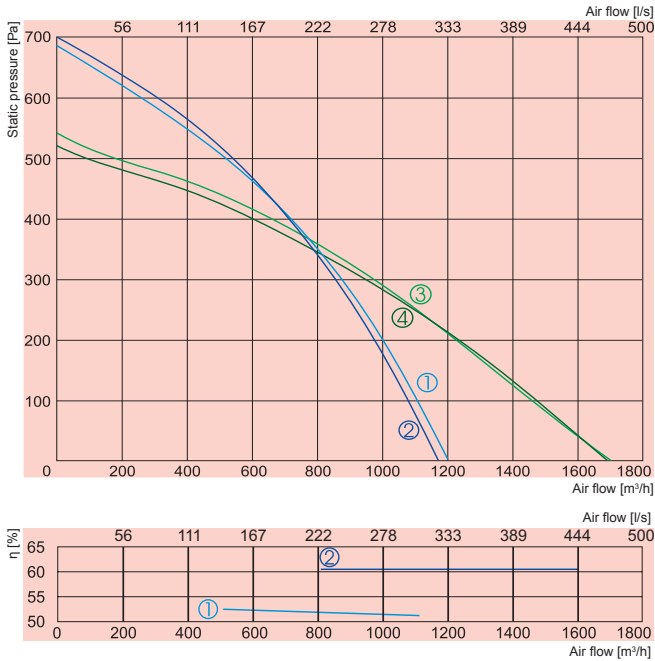
- Exhaust air
- Extract air
- Fresh air
- Supply air

1000PE 3.0	Lwa total, dB(A)	LWA, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	72	54	59	67	68	65	62	56
Extract	57	44	43	53	54	44	42	35
Surrounding	55	42	46	50	48	45	44	39

Measured at 935 m³/h, 90 Pa

1500PE 3.0	Lwa total, dB(A)	LWA, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	80	69	71	76	74	69	68	65
Extract	59	52	51	56	50	41	32	27
Surrounding	58	48	50	54	52	46	38	36

Measured at 1507 m³/h, 101 Pa



- ① — supply **RIS 1000PW 3.0**
- ② — exhaust
- ③ — supply **RIS 1500PW 3.0**
- ④ — exhaust

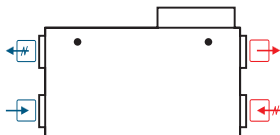
- ① — **RIS 1000PW 3.0**
- ② — **RIS 1500PW 3.0**

Calculated temperature efficiency (balanced mass flow) EN 13141-7:
 Extract air = 20°C/60%RH
 Outdoor air = -20°C

		1000PW 3.0	1500PW 3.0
Water heater	-power [kW]	AVS 315	SVS 500x250
	-water . T_{in}/T_{out} [°C]		
	-water flow rate [l/s]		
Fans	-phase/voltage [50Hz/VAC]	~1, 230	~1, 230
exhaust	-power/current [kW/A]	0,286/1,25	0,359/1,57
	-fan speed [min ⁻¹]	2250	2750
supply	-power/current [kW/A]	0,312/1,36	0,373/1,63
	-fan speed [min ⁻¹]	2250	2750
Motor protection class		IP-44	IP-44
Thermal efficiency		50%	62%
Max power consumption	[kW/A]	0,6/2,63	0,732/3,2
Automatic control		integrated	integrated
Filter class	-exhaust	M5	M5
	supply	M5	M5
Thermal insulation	[mm]	30	50
Weight	[kg]	113,0	189,0
Comply with ERP 2013		+	-

Designed for operation indoors only

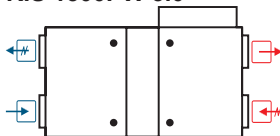
RIS 1000PW 3.0



1000PW 3.0	Lwa total, dB(A)	LWA, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	72	54	59	67	68	65	62	56
Extract	57	44	43	53	54	44	42	35
Surrounding	55	42	46	50	48	45	44	39

Measured at 935 m³/h, 90 Pa

RIS 1500PW 3.0



1500PW 3.0	Lwa total, dB(A)	LWA, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	80	69	71	76	74	69	68	65
Extract	59	52	51	56	50	41	32	27
Surrounding	58	48	50	54	52	46	38	36

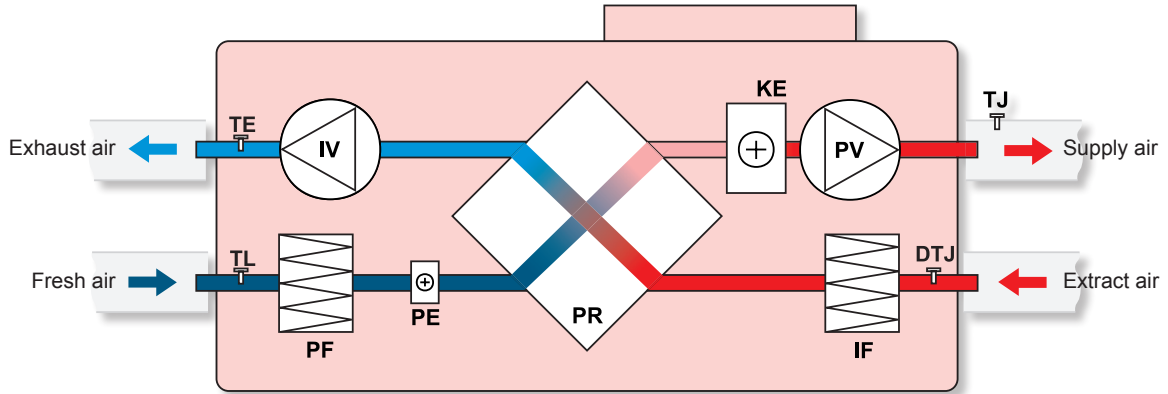
Measured at 1507 m³/h, 101 Pa

View from inspection side

- Exhaust air
- Extract air
- Fresh air
- Supply air

RIS P

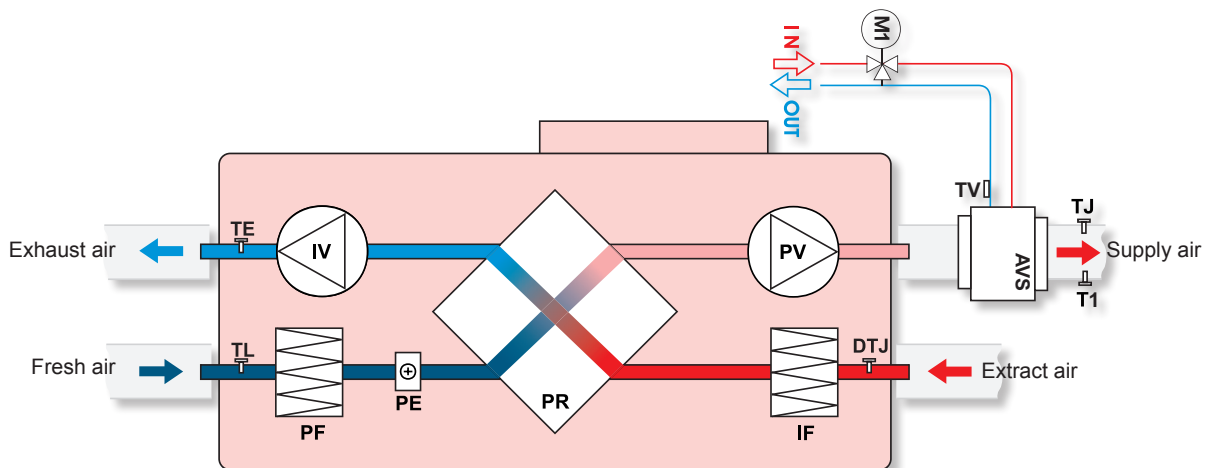
RIS 400PE 3.0; 700PE 3.0 (ceiling mounted) versions with electrical heater *



- IV - exhaust air fan
- PV - supply air fan
- PR - plate heat exchanger
- KE - electrical heater
- PE - anti-freeze heater for heat exchanger
- PF - filter for supply air (class M5)
- IF - filter for extract air (class M5)
- TJ - temperature sensor for supply air
- TL - temperature sensor for fresh air
- TE - temperature sensor for extract air
- DTJ - humidity + temperature sensor

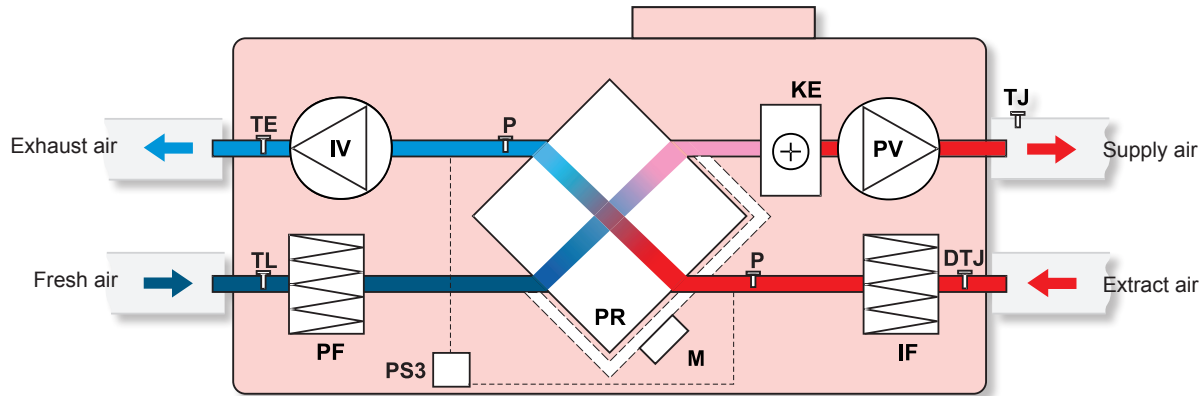
* - Summer cassette can be applied to RIS 400 PE 3.0; RIS 700 PE 3.0. Used for closing-up of plate heat exchanger during warm period of the year when heat recovery is of no benefit.

RIS 400PW 3.0; 700PW 3.0 (ceiling mounted) versions with water heater



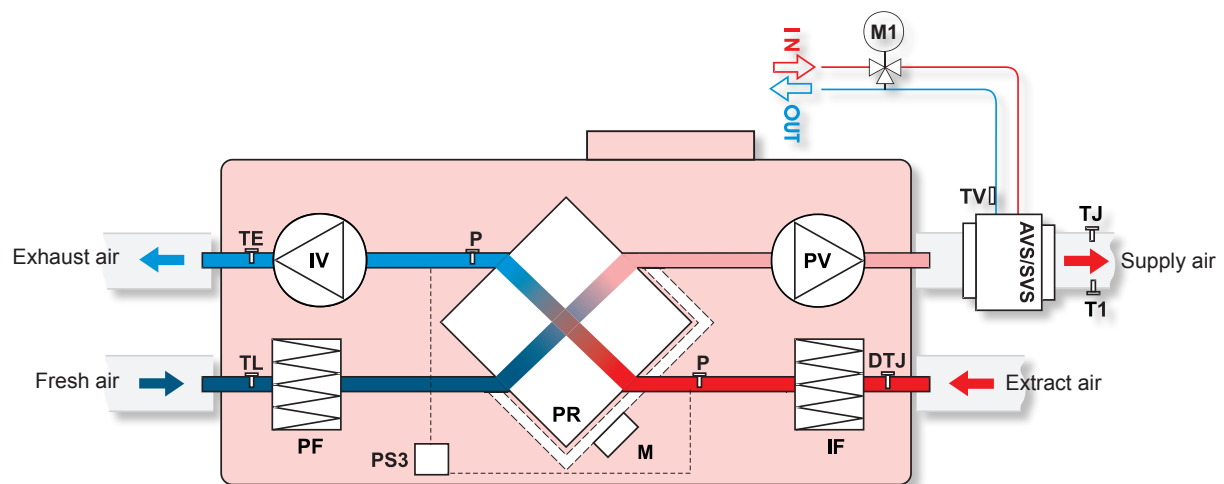
- AVS - optionally supplied water heater
- IV - exhaust air fan
- PV - supply air fan
- PR - plate heat exchanger
- PE - anti-freeze heater for heat exchanger
- PF - filter for supply air (class M5)
- IF - filter for extract air (class M5)
- TJ - temperature sensor for supply air
- TL - temperature sensor for fresh air
- TE - temperature sensor for extract air
- DTJ - humidity + temperature sensor
- M1 - optionally supplied mixing valve and motor
- TV - optionally supplied antifrost sensor
- T1 - optionally supplied antifrost thermostat

RIS 1000PE 3.0; 1500PE 3.0 (ceiling mounted) versions with electrical heater



- IV** - exhaust air fan
- PV** - supply air fan
- PR** - plate heat exchanger
- KE** - electrical heater
- PF** - filter for supply air (class M5)
- IF** - filter for extract air (class M5)
- TJ** - temperature sensor for supply air
- TL** - temperature sensor for fresh air
- TE** - temperature sensor for extract air
- DTJ** - humidity + temperature sensor
- M** - actuator of by-pass damper
- PS3** - heat exchanger antifrost pressure switch
- P** - heat exchanger pressure switch

RIS 1000PW 3.0; 1500PW 3.0 (ceiling mounted) versions with water heater



- AVS/SVS** - optionally supplied water heater
- IV** - exhaust air fan
- PV** - supply air fan
- PR** - plate heat exchanger
- PF** - filter for supply air (class M5)
- IF** - filter for extract air (class M5)
- TJ** - temperature sensor for supply air
- TL** - temperature sensor for fresh air
- TE** - temperature sensor for extract air
- DTJ** - humidity + temperature sensor
- M** - actuator of by-pass damper
- M1** - optionally supplied mixing valve and motor
- PS3** - heat exchanger antifrost pressure switch
- TV** - optionally antifrost sensor
- T1** - optionally antifrost thermostat
- P** - heat exchanger pressure switch