



AHU with heat recovery

Centrales de traitement d'air
avec récupération de chaleur

Lüftungsgeräte mit wärmerückgewinnung

Вентиляционные агрегаты с
рекуперацией тепла



Air handling units RIS 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 57-75%.
Electrical or water heater.
Controlled air flow.
Supply air temperature control.
Anti-freeze protection of the heat exchanger.
Low noise level.
RIS 400P, 700P all versions can be controlled by UNI, PRO and TPC remote control devices.
Acoustic insulation of the walls – 20mm and 30mm.
Housing: powder coated painting RAL 7040.
Easy mounting.



Rekuperator-Einrichtungen RIS säubern, erwärmen und liefern frische Luft. RIS-Einrichtungen nehmen Wärme aus der ausgestoßenen Luft auf und leiten sie in die gelieferte Luft weiter.
Leistungsfähige und leise funktionierende Ventilatoren.
Plattenwärmeaustauscher, Wärmerückgewinnungsgrad 57-75%.
Elektrische oder Wasser-Erwärmungseinrichtung.
Regelung des Luftstromes.
Regelung der Temperatur der gelieferten Luft.
Gefrierschutz des Wärmeaustauschers.
Niedriges Geräuschniveau.
Jedes Aggregat ist getrennt geprüft.
RIS 400P, 700P mit integrierten Steuerungs- und Überwachungsmöglichkeiten mithilfe von UNI, PRO und TPC Steuerpulten
Akustische Isolation der Wände - 20mm und 30mm.
Das Gehäuse: gestrichen RAL 7040.
Leicht montierbar.



Les centrales de traitement d'air avec récupération de chaleur RIS filtrent, chauffent et fournissent de l'air frais. Les centrales RIS prennent la chaleur de l'air extrait et la transfère dans l'air neuf.
Ventilateurs efficaces et silencieux.
Échangeur de chaleur à plaques, rendement thermique de 57-75%.
Batterie électrique ou à eau chaude.
Débit d'air réglable.
Régulation de la température de l'air insufflé
Protection antigel de l'échangeur de chaleur.
Faible niveau de bruit.
Chaque unité est testée séparément.
RIS 400P, 700P avec système de commande et de contrôle intégrée en utilisant les boîtiers de commande UNI, PRO et TPC.
Isolation acoustique des parois de 20mm et 30mm.
Enveloppe : peinte avec RAL 7040.
Montage facile.



Установки с рекуперацией тепла RIS очищают, нагревают и подают свежий воздух. Установки RIS извлекают тепло у выходящего воздуха и передают его поступающему воздуху.
Производительные и бесшумные вентиляторы.
Пластинчатый теплообменник, эффективность теплоотдачи 57-75%.
Электрический или водяной нагреватель.
Регулируемый воздушный поток.
Регулируемая температура подаваемого воздуха.
Защита теплообменника от замерзания.
Низкий уровень шума.
Каждый агрегат проверен отдельно.
RIS 400P, 700P с интегрированными возможностями управления и наблюдения с помощью пультов управления UNI, PRO и TPC.
Акустическая изоляция стенок – 20мм и 30мм.
Корпус: окрашенный RAL 7040.
Легко монтируются.

Accessories



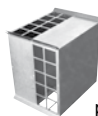
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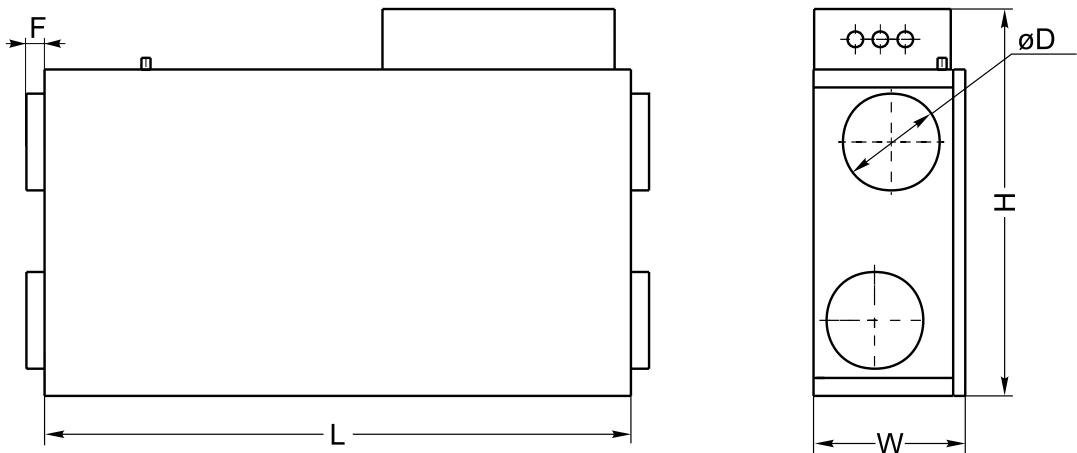
VK
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RIS 400 P E

Heater type (E - electrical; W - water)
Housing type (P - under-ceiling)
Air flow m ³ /h
AHU with plate heat-exchanger

Type	Dimensions [mm]				
	L	W	H	øD	F
RIS 400PE	970	264	615	160	30
RIS 400PW	970	264	615	160	30
RIS 700PE	1200	300	775	250	40
RIS 700PW	1200	300	775	250	40

Accessories



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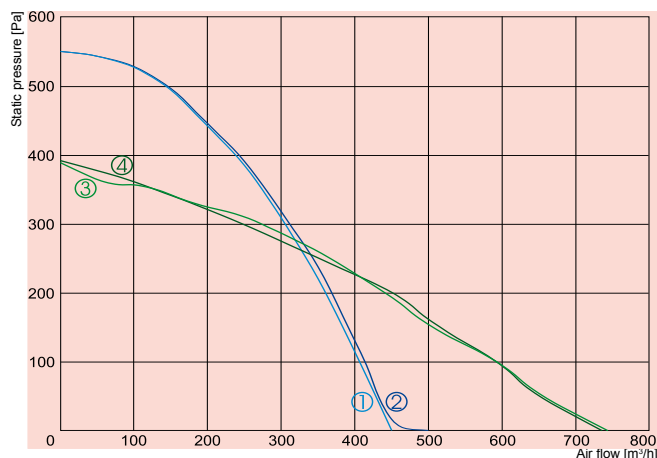
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① — supply **RIS 400PE**
 ② — exhaust

③ — supply **RIS 700PE**
 ④ — exhaust

		400PE	700PE
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]	3,45/15,2	4,71/20,5
Automatic control		integrated	integrated
Filter class	-exhaust	EU5	EU5
	supply	EU5	EU5
Thermal insulation	[mm]	30	30
Weight	[kg]	42,0	57,0

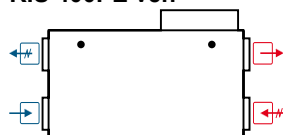
Air flow temperature range from -20°C to +40°C

Designed for operation indoors only

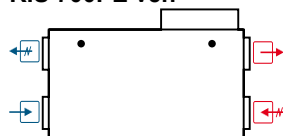
Thermal efficiency of RIS 400PE was measured at 400m³/h at temperature range from -20°C to +20°C

Thermal efficiency of RIS 700PE was measured at 700m³/h at temperature range from -20°C to +20°C

RIS 400PE ver.



RIS 700PE ver.



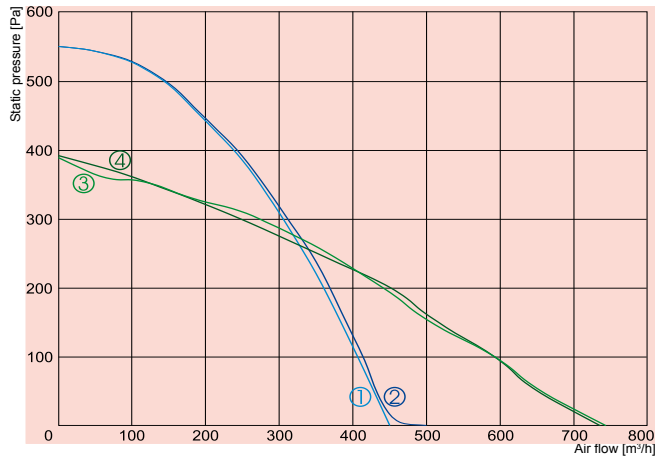
View from inspection side

Exhaust air

Extract air

Fresh air

Supply air



- ① supply **RIS 400PW**
- ② exhaust
- ③ supply **RIS 700PW**
- ④ exhaust

		400PW	700PW
Water heater	-power [kW]		
	-water . 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]	3,45/15,2	4,71/20,5
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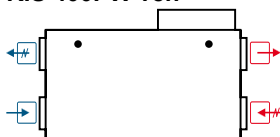
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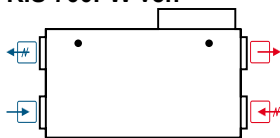
Thermal efficiency of RIS 400PW was measured at 400m³/h at temperature range from -20°C to +20°C

Thermal efficiency of RIS 700PW was measured at 700m³/h at temperature range from -20°C to +20°C

RIS 400PW ver.



RIS 700PW ver.



View from inspection side

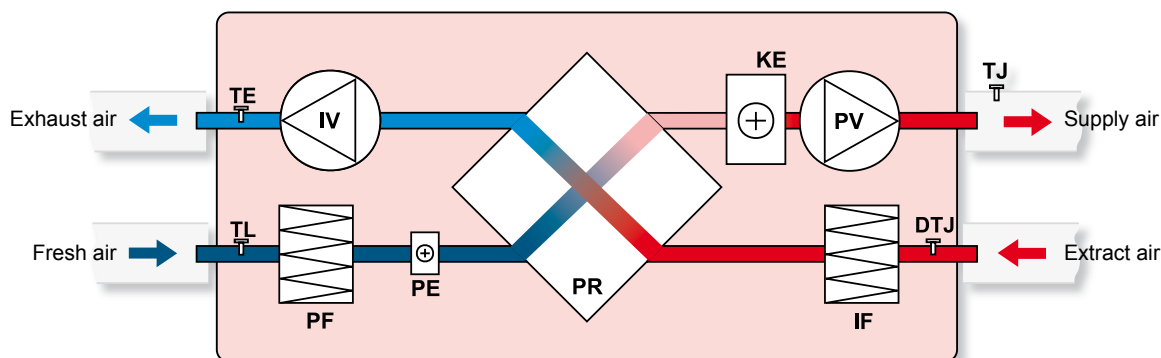
Exhaust air

Extract air

Fresh air

Supply air

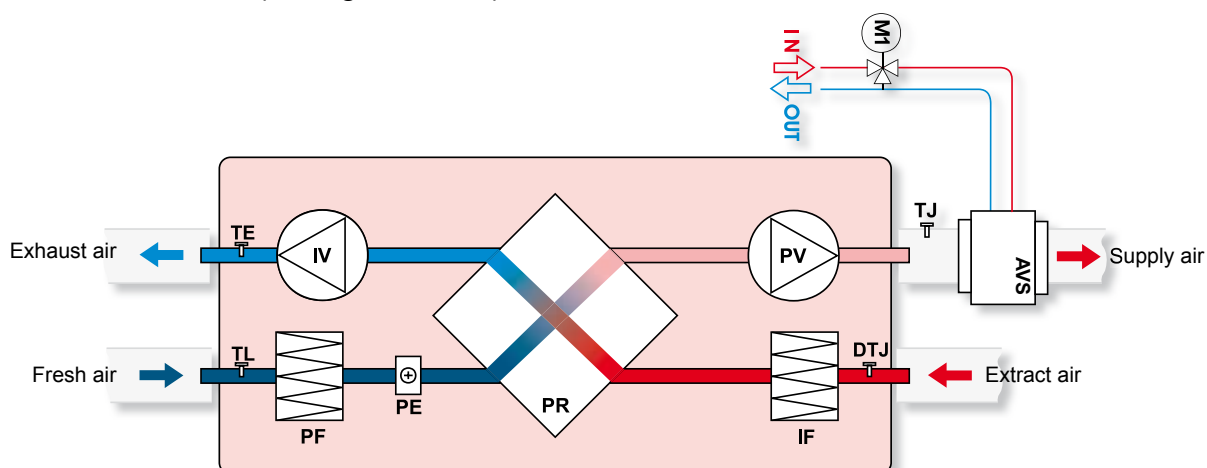
RIS 400PE; 700PE (ceiling mounted) versions with electrical heater *



- | | |
|-----|---|
| 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 EU5) |
| IF | - filter for extract air (class EU5) |
| 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; RIS 700 PE. Used for closing-up of plate heat exchanger during warm period of the year when heat recovery is of no benefit.

RIS 400PW; 700PW (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 EU5) |
| IF | - filter for extract air (class EU5) |
| 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 |