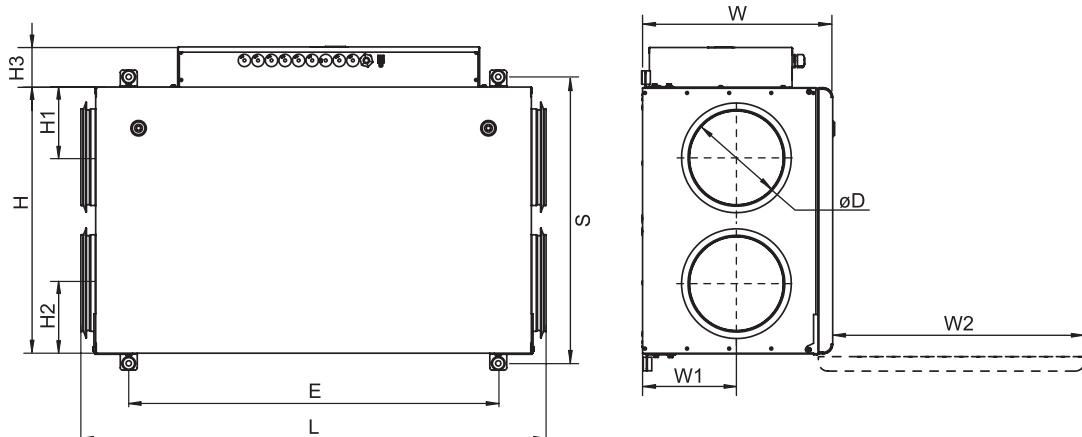




Application	Ventilation of houses, small public buildings, offices or other heated premises (classrooms, apartments, conference rooms, etc.).
Description	<p>RIRS P EKO 3.0 is a heat recovery unit with high-efficiency rotor heat exchanger and low height. The unit is designed for mounting under ceiling in order to save space.</p> <p>RIRS 350 P unit can come with an optional duct-based water heater or an integrated electrical heater.</p> <p>RIRS P EKO unit has 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 RIRS P EKO unit is fully equipped with automatic controls.</p> <p>Optional external sensors for CO₂ and humidity and so the summer mode feature will guarantee the highest comfort (demand-level control).</p> <p>RIRS P EKO unit is service-friendly and easy to mount. Rotor fault indicator is included in every AHU.</p> <p>All units are supplied tested and ready to install.</p>
Controls	<p>Three remote control options are available:</p> <ol style="list-style-type: none"> 1. Flex, Stouch or Ptouch remote controllers. 2. Building management system connections. 3. Remote control via PC MB-Gateway.
The main features	<ul style="list-style-type: none"> Efficient rotor heat exchanger with up to 85% heat recovery. Water/electrical heating options. Easy and quick mounting. Controlled airflow. Fully integrated plug-and-play control system. Extremely low height: ideal for ceiling installations.
Rotor	<ul style="list-style-type: none"> Eurovent certified. Plate gap 1,5 mm. Rotor fault indicator. Minimal airflow mixing.
Construction	<ul style="list-style-type: none"> Frameless construction from double-skinned steel, with powder coated paint, panels. Acoustic and thermal wall insulation – 50 mm. Hinged door with locks grants easy access to internal components. Separate compartment on the side of the unit grants quick access to the control board (plug-and-play). Three sensors for fresh, supply and extract air temperatures. Integrated electrical heater or optional water heater/cooler (on duct). Water heater with frost protection kit available. Low pressure drop filters: F7/M5.

RIRS 350 P EKO 3.0

- Equipped with new PRV V2 control board
- AHU with EC motors
- Heater type (E - integrated electrical heater; W - optional water heater)
- Housing type (V - vertical, H - horizontal, P - ceiling)
- AHU size according to maximum airflow range m³/h
- AHU range with rotor heat exchanger



Unit	Dimensions [mm]											
	W	W1	W2	H	H1	H2	H3	E	L	S	ØD	
RIRS 350PE EKO 3.0	398	196	550	610	160	160	83	764	961	652	200	
RIRS 350PW EKO 3.0	398	196	550	610	160	160	83	764	961	652	200	

Unit	Optional accessories					
	Flex Stouch Ptouch MB-Gateway	S-1141 S-RC02-F2 S-KFF-U	SP Supply	SP Exhaust	AP SKG	TJP10K C04C***
RIRS 350PE EKO 3.0	+	+	CM230-1-F-L	CM230-1-F-L	200	-
RIRS 350PW EKO 3.0	+	+	TF230	CM230-1-F-L	200	incl

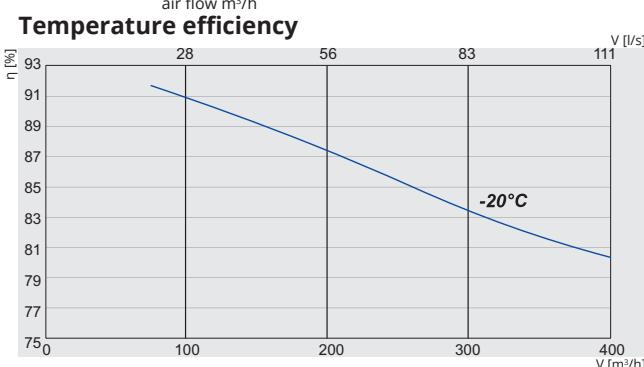
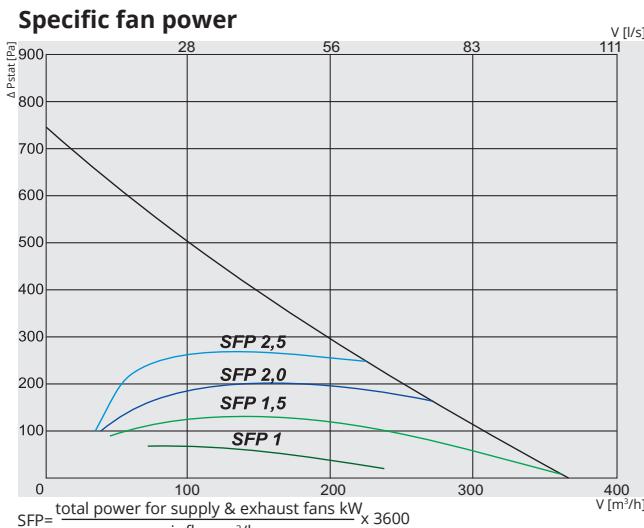
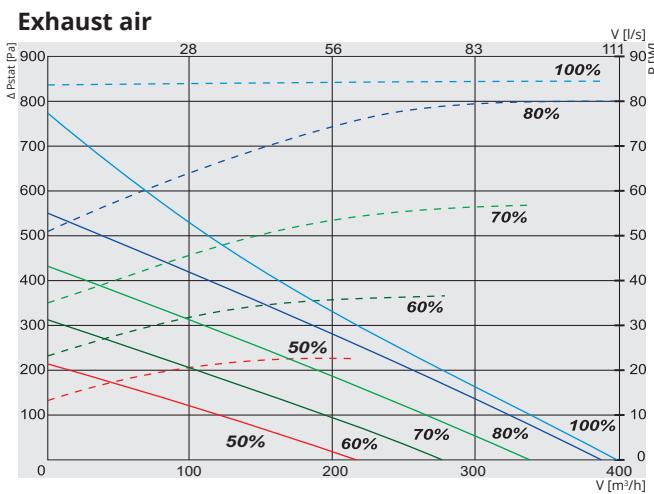
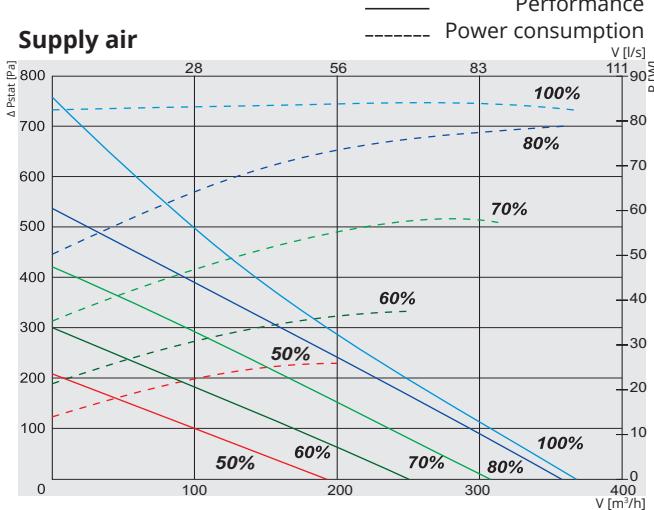
*** - anti-frost thermostat

Unit	Optional accessories							
	SSB Heating	SSB Cooling	RMG 80/60°C	RMG 80/40°C	VVP/VXP 80/60°C	VVP/VXP 80/60°C	AVA	EKA NV PH
RIRS 350PE EKO 3.0	-	81	-	-	-	-	200	200
RIRS 350PW EKO 3.0	61	81	3-0,63-4	3-0,63-4	45.10-0,63	45.10-0,63	200	200

Accessories

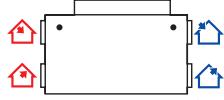
Remote controller	Control panel	Remote controller	Net module	Electrical duct pre-heater	Circular duct water cooler		
Ptouch p. 175	FLEX p. 177	Stouch p. 176	MB-Gateway p. 178	EKA NV PH p. 201	AVA p. 193		
Pressure transmitter	CO2 sensor	Humidity sensor	Thermic water valve actuator	Actuator for dampers	Duct sensor	Mixing point	2 and 3 way valves
S-1141 p. 179	S-RC02-F2 p. 180	S-KFF-U p. 181	SSB p. 195	SP p. 210	TJK-10K p. 182	RMG p. 196	VVP/VXP p. 197

RIRS 350P EKO 3.0



RIRS 350P EKO 3.0

Air intake side (L- left)



View from inspection side

Exhaust air

Extract air

Outdoor air

Supply air

Article No.

GAGRIRS1762_0028A 350PE EKO 3.0 Integrated electrical heater.

GAGRIRS1763_0029A 350PW EKO 3.0 Optional water heater.

Version

350PE / PW EKO 3.0

AVS 200

Electrical heater PE ver.	phase/voltage [50Hz/VAC]	~1, 230
EC fans exhaust	power/current [kW/A]	0,083/0,75
supply	fan speed [min⁻¹]	3200
	power/current [kW/A]	0,083/0,75
	fan speed [min⁻¹]	3200

Thermal efficiency up to*

85%

Max power consumption PE / PW [kW/A] 0,77/4,20 0,18/1,60

Control board PRV V2

Filter class M5/F7

Housing insulation, mineral wool [mm] 30

Colour RAL white 9016

Weight (net, without packing) PE / PW [kg] 54 53

Comply with ERP 2016; 2018

Operation indoors

Housing protection class IP 34

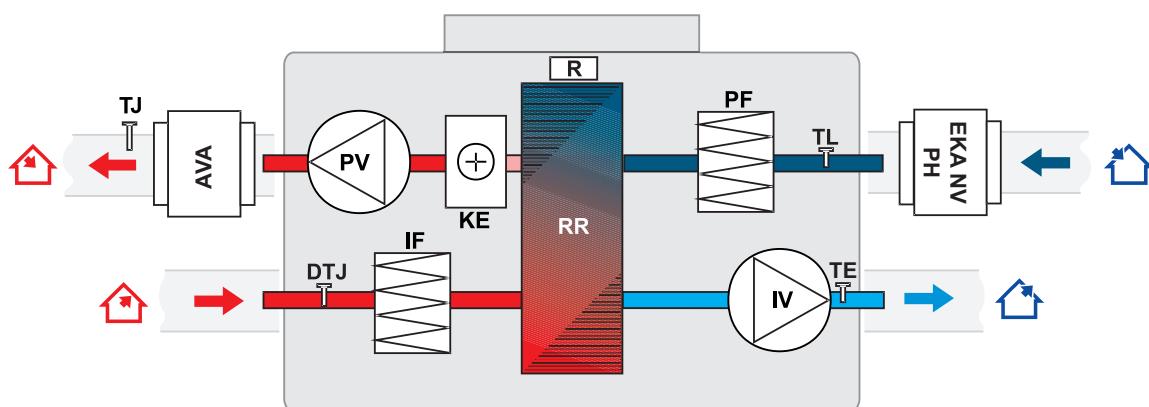
* Calculated wet efficiency.

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

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

350P EKO 3.0	LWA total, dB(A)	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Supply	69	54	53	66	64	60	58	55
Extract	64	52	54	59	58	57	54	49
Surrounding	54	40	39	48	41	47	44	46
Measured at 356 m³/h, 120 Pa								

RIRS 350PE EKO 3.0 (ceiling mounted) versions with electrical heater



IV - exhaust air fan

PV - supply air fan

RR - rotary heat exchanger

R - rotor motor

KE - electrical heater

TJ - temperature sensor for supply air

TE - temperature sensor for exhaust air

AVA - optionally supplied water cooler

EKA NV PH - optional fresh air pre-heater

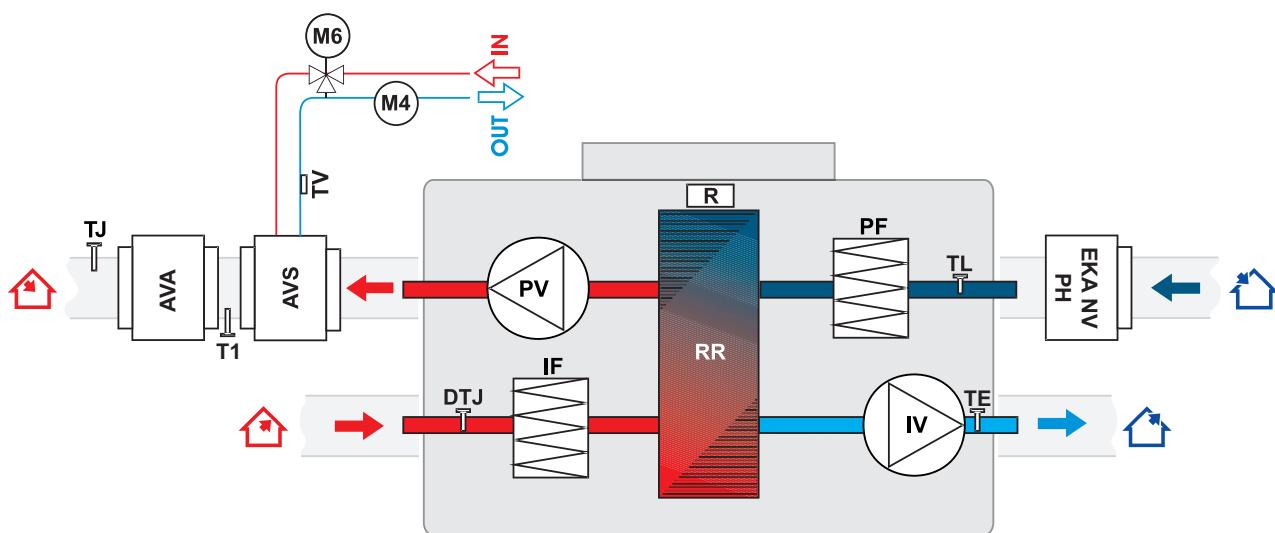
PF - fresh air filter (class F7)

IF - extract air filter (class M5)

TL - temperature sensor for fresh air

DTJ - humidity + temperature sensor

RIRS 350PW EKO 3.0 (ceiling mounted) versions with water heater



IV - exhaust air fan

PV - supply air fan

RR - rotary heat exchanger

R - rotor motor

PF - fresh air filter (class F7)

IF - extract air filter (class M5)

TE - temperature sensor for exhaust air

T1 - antifrost thermostat

TV - antifrost sensor

AVA - optionally supplied water cooler

EKA NV PH - optional fresh air pre-heater

AVS - optionally supplied water heater

TJ - air temperature sensor for supply air

TL - temperature sensor for fresh air

DTJ - humidity + temperature sensor

M6 - optionally supply mixing valve and motor

M4 - water heater circulatory pump

FUNCTIONS			
		PRV V2	
		RIRS EKO 3.0	
		E	W
Functions			
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 CO₂ 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)			
Mode switch (start/stop) Extracted air relative humidity converter Manual components control			
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 termostat (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			
Filter pollution monitoring			
By pressure switch (NC) By filter timer			
Rotor			
Pulse-width modulation (PWM) (0-10VDC) motor control On/Off motor control Motor belt levers protection			
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 Ptouch MB Gateway			

1 With FLEX TEST remote controller

2 Only sensors