



RHP 1600 U C5

Nominal air flow, m ³ /h	1700
Nominal air flow, l/s	472
Electric air heater capacity, kW / Δt, °C	2 / 3,7
Supply voltage, V	3~400
Maximal operating current, A	23,9
Electric power input of the fan drive at maximum flow rate, W	363
Filters dimensions BxHxL, mm	805x400x46
Unit dimensions BxHxL, mm	905x905x1505
Panel thickness, mm	45
Maintenance space, mm	800
Refrigerant R134 A, kg	3,4
Unit weight, kg	270



Acoustic data

A-weighted sound power level L_{WA} , dB(A)
at reference flow rate

Supply inlet	64
Supply outlet	72
Exhaust inlet	64
Exhaust outlet	72
Casing	55

A-weighted sound pressure level L_{pA} , dB(A)

10 m² normally isolated room, distance from casing – 3 m.

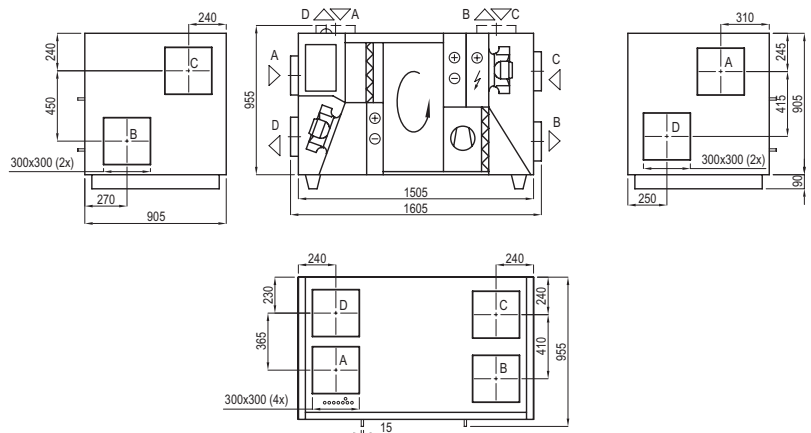
Surroundings	45
--------------	----

Temperature efficiency

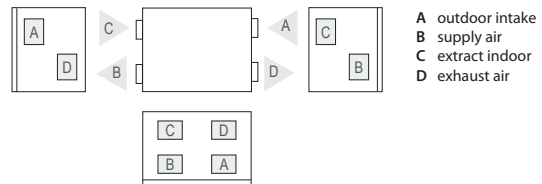
Outside temperature, °C	Winter					Summer		
	-23	-15	-10	-5	0	25	30	35
After heat exchanger, °C	12,4	14,1	15,1	16,2	17,3	22,6	23,7	24,8

indoor +22°C, 20 % RH.

Shown as right (R1)



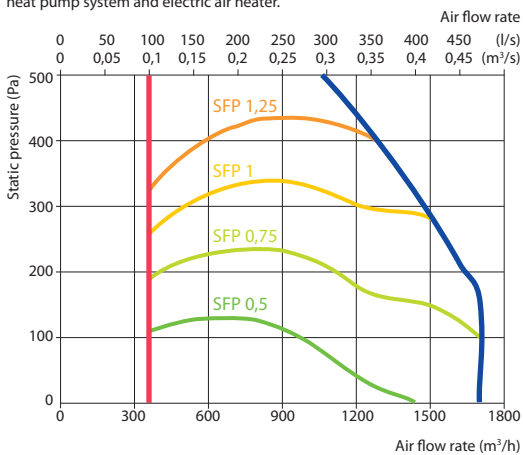
Shown as left (L1)



- A outdoor intake
- B supply air
- C extract indoor
- D exhaust air

Performance

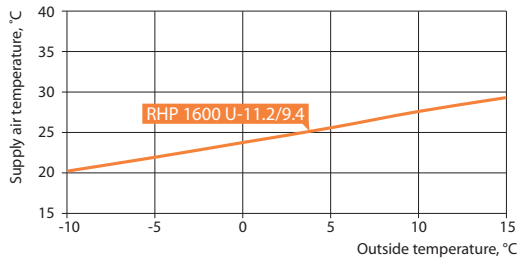
Filters ePM1 55 % / ePM10 50 %, rotary heat exchanger L, heat pump system and electric air heater.



Accessories

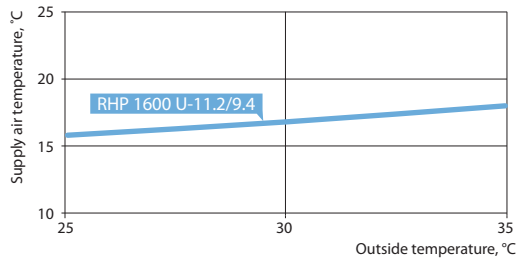
Closing damper	SRU-M-300x300+LF24/LM24
Silencer	A/D AGS-315-100-900-M
	B/C AGS-315-100-1200-M

Heating mode



Application: 20°C, RH 45% indoor.

Cooling mode



Application: 24°C, RH 55% indoor
Total (heating and cooling) – rotary heat recovery + heat pump.

Heat pump parameters

	RHP 1600 U 11.2/9.4				
	Heating			Cooling	
Outdoor temperature, °C	7	2	-7	35	27
Outdoor air related humidity, %	86	84	74	40	45
Indoor air temperature, °C	20	20	20	27	21
Indoor air related humidity, %	50	50	45	40	50
Supply air temperature, °C	26,3	24,4	21,1	18,9	13,6
Heat pump heating/cooling power, kW	5,26	4,79	3,99	5,73	5,42
Heat pump heating/cooling power consumption, kW	0,88	0,83	0,73	1,42	1,14
System SCOP ^{1,2,3} , Average climate / System SEER ^{1,2,3}	11,9			4,1	
COP/EER	5,95	5,79	5,5	4,04	4,74

¹ Rotary heat exchanger wave size "L"
² Rotary heat exchanger + heat pump
³ According to EN 14825 standard