



# RDCD 3.5 SH

Meets Regulation (EU) No. 1254/2014

- > Domestic HRU
- > 90% efficiency
- > High pressure

## APPLICATION

The RDCD 3.5 SH is our latest generation ceiling mounted HRV system, perfect for medium sized homes. The unit includes our high efficiency heat exchange system, by-pass and EC brushless plug fan as standard. The unit has control options including MODBUS.

## DESIGN

### Construction:

Galvanised steel casing. PVC heat exchanger.

### Options:

- F7 filter (G4 included as standard)

### Installation:

- Horizontal (left or right)
- Vertical (left or right)

## AVAILABLE TYPES

RDCD 2.5 SH  
RDCD 3.5 SH

## CONTROLS

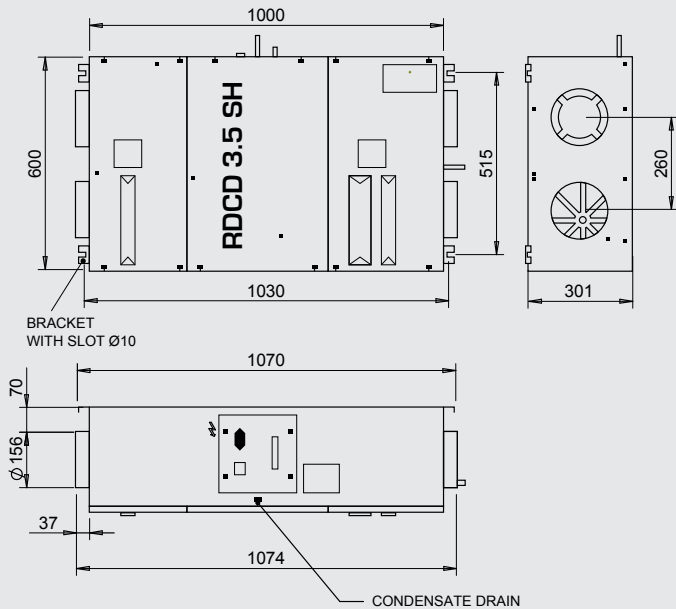
All options include Speed, By-Pass, Frost Protection and Filter Indicator control.

**4B-RF:** Includes booster function

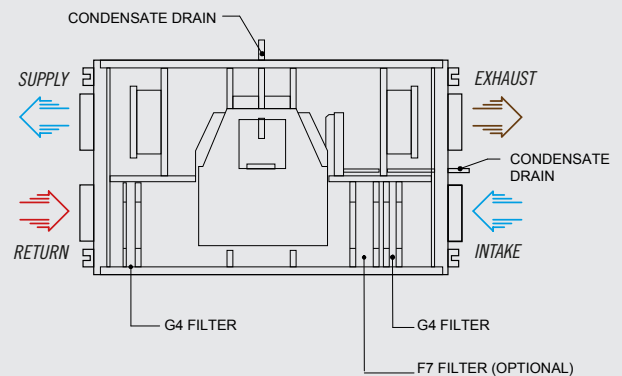
**RH-RF:** Includes humidity control

**C02-RF:** Includes CO<sub>2</sub> control

## RDCD 3.5 SH



## INTERNAL VIEW



## REMARKS

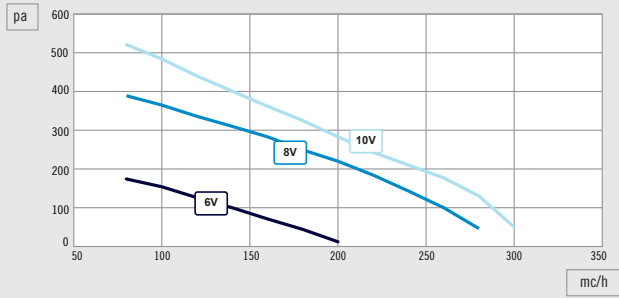
All dimensions are given in mm.  
Wireless Plug & Play control system included.

FAN PERFORMANCE	RDCD 3.5 SH
Power consumption (W)	83
RPM	3200
Current (A)	0.75
Voltage (V) (HZ)	230V 50Hz

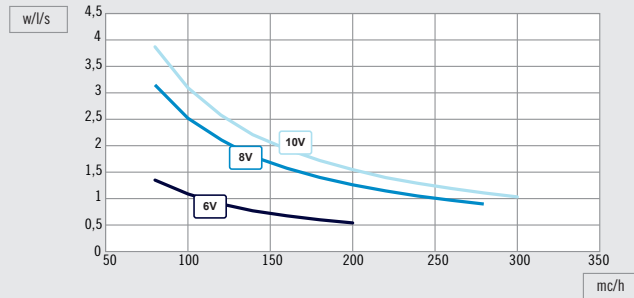
AIR FLOW PERFORMANCE	RDCD 3.5 SH
Nominal air flow (m <sup>3</sup> /h)	280
Useful static pressure (Pa)	100

# RDCD 3.5 SH – PERFORMANCE DATA

## USEFUL STATIC PRESSURE ①



## SPECIFIC FAN POWER ②

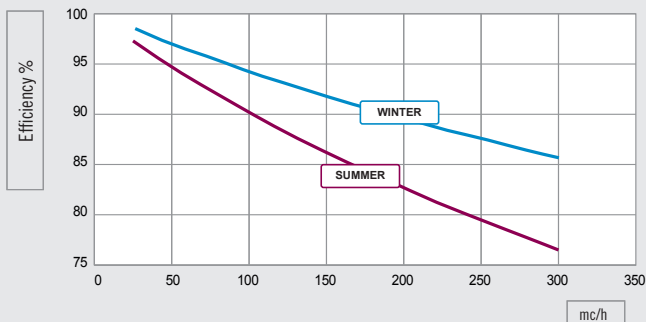


## SUMMER EFFICIENCY

Fresh air: 32 °C / 50 % R.H. • Return air: 26 °C / 50 % R.H.

## WINTER EFFICIENCY

Fresh air: -5 °C / 80 % R.H. • Return air: 20 °C / 50 % R.H.



## RADIATED SOUND LEVEL

VOLT	10	9	8	7	6
FREQUENCY (HZ)	Lw (dB)	lw (dB)	Lw (dB)	lw (dB)	Lw (dB)
63	51.8	-	51.4	-	44.6
125	53.3	-	51.9	-	46.8
250	51.9	-	51.9	-	48.7
500	53.3	-	50.9	-	42.7
1000	44.6	-	42.9	-	35.5
2000	43.7	-	42.1	-	34.4
4000	33.8	-	32.1	-	23.4
8000	26.9	-	25.5	-	22.4
Sound Power	59.0	-	57.9	-	52.5
Sound Pressure	42.4	-	41.0	-	34.6

## F7 FILTER PRESSURE DROP

mc/h	Pa
50	10
100	15
150	30
200	40
250	50
300	65

\*approximate values

Performance EN 1314:7:2011 - EN ISO 5135:2003 certified.

- ① DATA WITH STANDARD G4 FILTERS  
② DATA FOR SINGLE FAN

MODEL OPTIONS INSTALLED	4B-RF			RH-RF / CO2-RF			RH-RF / CO2-RF local		
	Temp.	Cold	Hot	Temp.	Cold	Hot	Temp.	Cold	Hot
Climate Reference									
SEC in [kWh/(m²a)]	-31.93	-68.6	-9.2	-35.9	-73.3	-12.7	-40.48	-78.7	-16.7
SEC Class	B	A+	F	A	A+	E	A	A+	E
Declared Typology	UVR-B Bidirectional			UVR-B Bidirectional			UVR-B Bidirectional		
Type of drive installed	Multi-speed drive			Variable speed			Variable speed		
Type of heat recovery	Recuperative			Recuperative			Recuperative		
Thermal efficiency <sup>1</sup>	83,2%			83,2%			83,2%		
Maximum flow rate in [m³/h] <sup>2</sup>	280			280			280		
Maximum electric Power in [W] <sup>3</sup>	172			172			172		
Sound Power Level (LWA) in [dB(A)] <sup>3</sup>	44			44			44		
Reference flow rate [m³/h] <sup>4</sup>	196			196			196		
Reference pressure difference in [Pa]	50			50			50		
SPI in [W/m³/h] <sup>5</sup>	0.36			0.36			0.36		
Control factor and typology	1			0.85			0.65		
Declared maximum internal [%] <sup>6</sup>	4.7			4.7			4.7		
Declared maximum external leakage [%] <sup>6</sup>	3.2			3.2			3.2		

- 1: Efficiency according EN13141-7:2010 at reference flow at 50 Pa;  
2: Maximum flow at 100 Pa external pressure;  
3: Casing radiation at reference flow rate at 50 Pa external pressure;  
4: Reference flow rate is 70% of maximum flow at 50 Pa external pressure according EN13141-7:2010;

- 5: According EN13141-7:2010 at reference flow rate;  
6: According EN13141-7:2010;  
SEC: Specific Energy Consumption.

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**RDCD 3.5 SH**

A+

A

B

C

D

E

F

G

**A**

**44**  
dB

**280 m³/h**

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2016 1254/2014