

RDCD35SH

CE



4BRF



**REGOLAZIONE PLUG AND PLAY
WIRELESS INCLUSA**

**BY-PASS AUTOMATICO
INCLUSO**

**INSTALLAZIONE
ORIZZONTALE-VERTICALE**

**WIRELESS PLUG AND PLAY
CONTROL SYSTEM INCLUDED**

**AUTOMATIC BY-PASS
INCLUDED**

**INSTALLATION
HORIZONTAL-VERTICAL**

STRUTTURA:

Struttura con pannellatura sandwich afonica altoparlante.

RECUPERATORE DI CALORE:

Recuperatore di calore del tipo in controcorrente interamente realizzato in materiale plastico.

VENTILATORI:

Plug fan con motore EC Brushless.

FILTRI:

Le unità sono provviste di serie con celle filtranti ondulate in fibra sintetica classe G4, in opzione filtro efficienza F7 su aria esterna.

STRUCTURE:

Structure with sandwich panels sound proof free standing.

HEAT RECOVERY:

Heat exchanger of the type in countercurrent entirely made of plastic material.

FANS:

Plug fan with EC Brushless engine.

FILTERS:

The units are equipped with standard filter cells synthetic fiber efficiency G4, optional F7 efficiency on fresh air.

PREZZI - PRICES

Modello - Model	€
RDCD35SH	-
RDCD35SHE*	-

* Versione con recuperatore entalpico. - Version with enthalpic heat exchanger.

TABELLA TECNICA DATI GENERALI - GENERAL TECHNICAL DATA TABLE

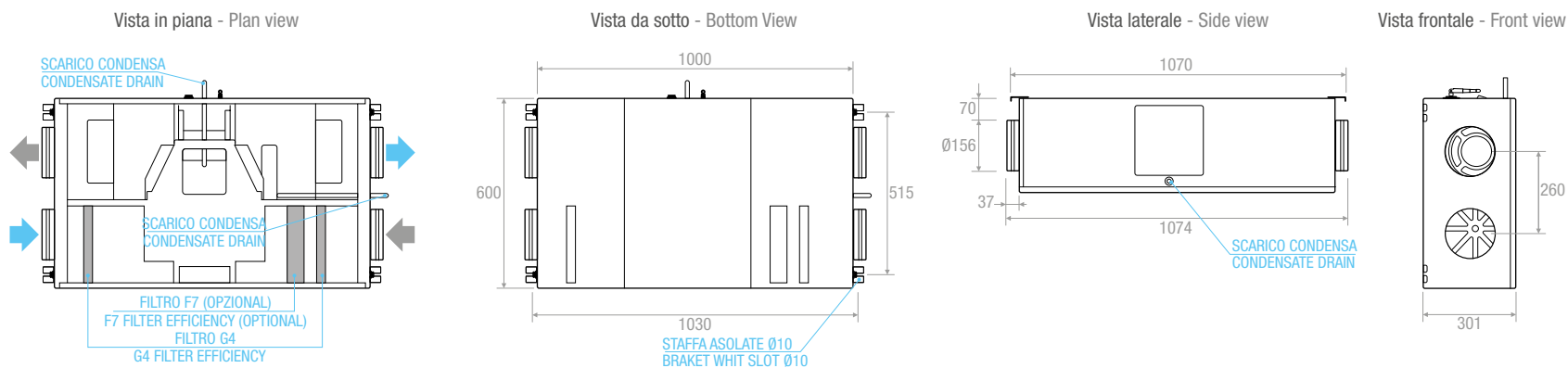
	RDCD35SH
Portata aria (mc/h) - Nominal air flow (mc/h)	280
Pressione statica utile (PA) - Useful static pressure (PA)	100
DATI PER SINGOLO VENTILATORE - DATA FOR EACH FAN	
Potenza nominale (w) - Installed power (W)	83
Giri (1/min) - Round (1/MIN)	3200
I nominale (A) - Current (A)	0,75
Tensione (V) - Rated voltage (V)	230
Frequenza (Hz) - Frequency (HZ)	50
Velocità (nr) - Speed (nr)	1
FILTRI - FILTERS	
Efficienza - Efficiency Standard	G4
Efficienza - Efficiency Optional	F7

PREZZI - PRICES

Modello Model		Controllo velocità Speed control	By-pass	Antigelo Defrost protection	Intasamento filtri Clogged filters	Controllo umidità Humidity control	Controllo CO ₂ CO ₂ control	Funzione booster Booster function	Trasmittitore MODBUS MODBUS gate way	€
4BRF		•	•	•	•			•		-
RHRF		•	•	•	•	•				-
C02RF		•	•	•	•		•			-
MODBUSRF									•	-

Regolazione Plug and Play. - Plug and Play regulation.

DISEGNI - DRAWINGS



PESO - WEIGHT: 38 kg

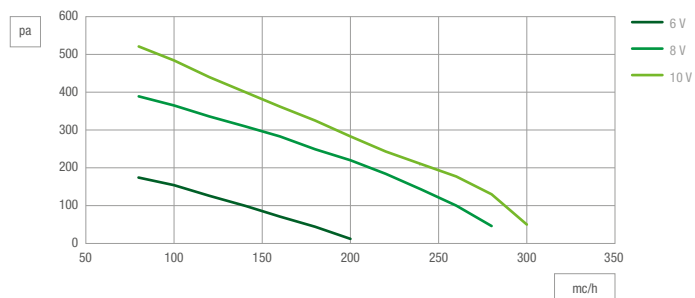


DIAGRAMMI PRESTAZIONALI - PERFORMANCE CHARTS

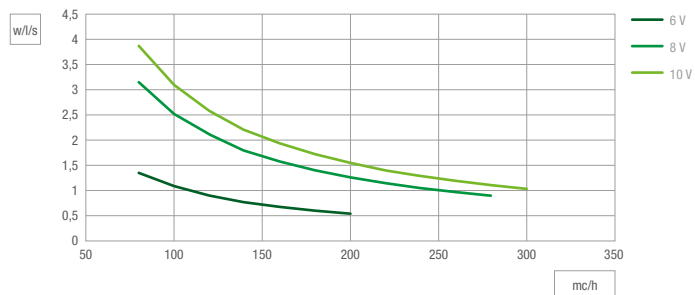
PRESTAZIONI CERTIFICATE EN 13141:7:2011 - PERFORMANCE EN 13141:7:2011 CERTIFIED

Pressione statica utile
Useful static pressure

① ③



Potenza specifica
ventilatore - S.F.P. ②



SCAMBIATORE CERTIFICATO EN 308 - HEAT EXCHANGER EN 308 CERTIFIED

Diagramma efficienza
estiva

Aria esterna: 32 °C / 50 % U.R.
Aria ambiente: 26 °C / 50 % U.R.

Summer efficiency chart

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

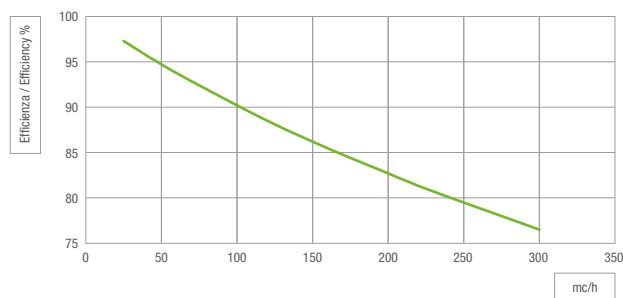
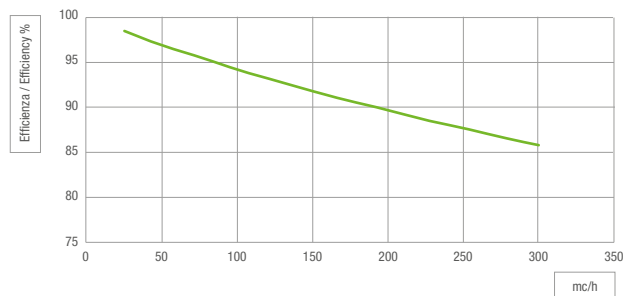


Diagramma efficienza
invernale

Aria esterna: -5 °C / 80 % U.R.
Aria ambiente: 20 °C / 50 % U.R.

Winter efficiency chart

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



① Dati con filtri G4 standard - Data with standard G4 filters

② Dati per singolo ventilatore - Data for single fan

③ Perdite di carico filtro efficienza F7 vedi pag 63 - Pressure drop F7 efficiency filter see pag 63

LIVELLO SONORO IRRAGGIATO - RADIATED SOUND LEVEL

RDCD35SH					
Volt	10	9	8	7	6
Frequenza - Frequency	Lw	lw	Lw	lw	Lw
[Hz]	[dB]	[dB]	[dB]	[dB]	[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
Potenza Sonora - Sound Power	59,0	-	57,9	-	52,5
Pressione Sonora - Sound Pressure	42,4	-	41,0	-	34,6

PRESTAZIONI CERTIFICATE EN 1314:7:2011 - EN ISO 5135:2003

PERFORMANCE EN 1314:7:2011 - EN ISO 5135:2003 CERTIFIED

CONFIGURAZIONE - CONFIGURATION

INSTALLAZIONE VERTICALE - VERTICAL INSTALLATION

Tipo - Type A (Standard)

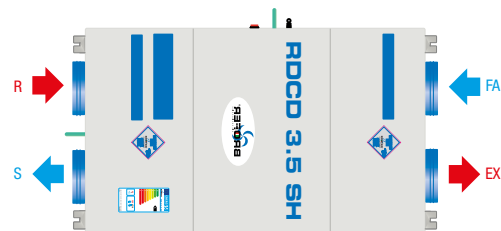


Tipo - Type B

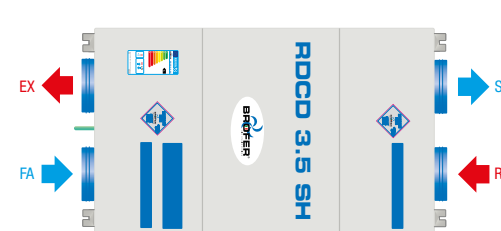


INSTALLAZIONE ORIZZONTALE - HORIZONTAL INSTALLATION

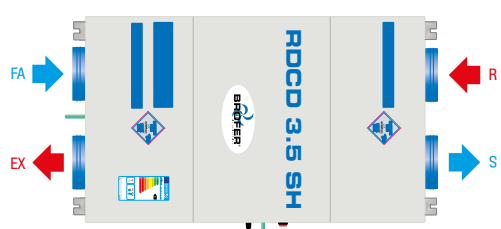
Tipo - Type A (Standard)



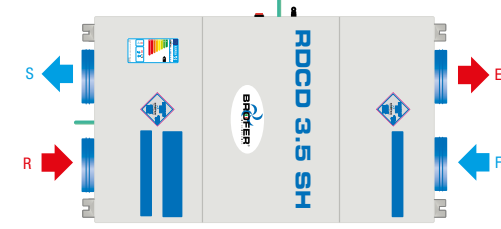
Tipo - Type A1 (Standard)



Tipo - Type B



Tipo - Type B



Leggenda - Legend

EX = espulsione - exhaust air

R = ripresa - return

FA = aria esterna - fresh air

S = mandata - supply



DECLARATION OF PERFORMANCE HEAT RECOVERY UNIT RD35SH

Supplier name or trade mark	BROFER			BROFER			BROFER		
Supplier Model Identifier and options installed	RD35SH + 4BRF			RD35SH + RHRF / C02RF			RD35SH + RHRF / C02RF local		
Reference climate	Temperate	Cold	Hot	Temperate	Cold	Hot	Temperate	Cold	Hot
SEC in [kWh/(m²a)] per ogni tipo di clima (temperato, caldo, freddo)	-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 ¹	83,2%			83,2%			83,2%		
Maximum flow rate in [m³/h] ²	280			280			280		
Maximum electric Power in [W]	172			172			172		
Sound Power Level (LWA) in [dB(A)] ³	44			44			44		
Reference flow rate [m³/h] ⁴	196			196			196		
Reference pressure difference in [Pa]	50			50			50		
SPI in [W/m³/h] ⁵	0,36			0,36			0,36		
Control factor and typology	1			0,85			0,65		
Declared maximum internal leakage [%] ⁶	4,7			4,7			4,7		
Declared maximum external leakage [%] ⁶	3,2			3,2			3,2		
Internet address for pre/dis-assembly instruction	www.vmcbrofer.it			www.vmcbrofer.it			www.vmcbrofer.it		

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.

