

RDCD25SH



4BRF



**REGOLAZIONE PLUG AND PLAY
WIRELESS INCLUSA**

**BY-PASS AUTOMATICO
INCLUSO**

**INSTALLAZIONE
ORIZZONTALE-VERTICALE-
DESTRA-SINISTRA**

**WIRELESS PLUG AND PLAY
CONTROL SYSTEM INCLUDED**

**AUTOMATIC BY-PASS
INCLUDED**

**INSTALLATION HORIZONTAL-
VERTICAL-RIGHT -LEFT**

STRUTTURA:

Struttura autoportante in PPE a tenuta completa di sistema estrazione filtri e drenaggio condensa.

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:

Free standing EPP seal structure complete of filters ex traction system and drain condensate.

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.

TECHNIKAI JELLEMZŐK- GENERAL TECHNICAL DATA TABLE

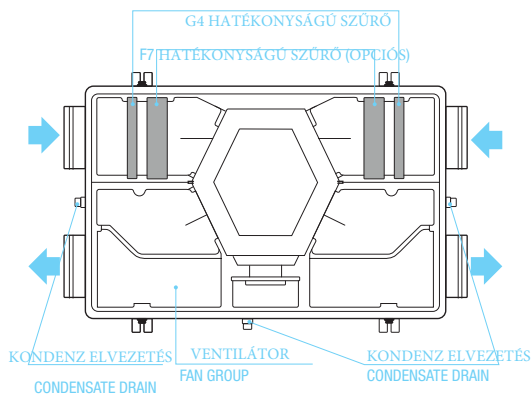
	RDCD25SH
Légszállítás (mc/h) - Nominal air flow (mc/h)	160
Statikus nyomás (pa) - Useful static pressure (pa)	100
VENTILÁTOR ADATOK - DATA FOR EACH FAN	
Teljesítmény (w) - Installed power (W)	27
Fordulatszám (1/min) - Round (1/MIN)	3700
Áramfelvétel (A) - Current (A)	0.27
Áramellátás (V) - Rated voltage (V)	230
Frekvencia (Hz) - Frequency (HZ)	50
Sebesség fokozat(nr) - Speed (nr)	1
SZŰRŐK(K) - FILTERS	
Hatékonyság - Efficiency Standard	G4
Hatékonyság - Efficiency Optional	F7

Modello Model		Seb. szabályzó Speed control	By-pass	Fagyvédelem Defrost protection	Intasamento filtri Clogged filters	CPáraérzékelő Humidity control	Ellenőrzés CO ₂ CO ₂ control	Turbó funkció Booster function	MODBUS MODBUS gate way	
4BRF		•	•	•	•			•		
RHRF		•	•	•	•	•				
CO2RF		•	•	•	•		•			
MODBUSRF									•	

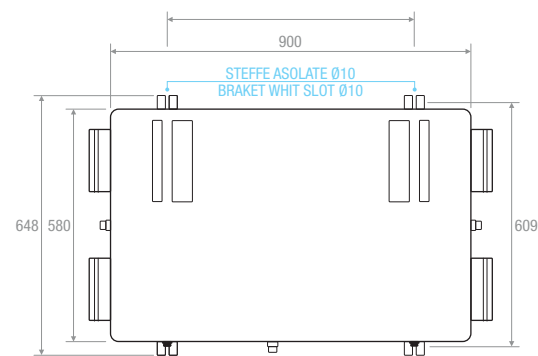
Plug and Play szabályzás. - Plug and Play regulation.

ÁBRA- DRAWINGS

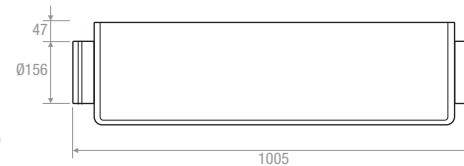
Felülnézet - Plan view



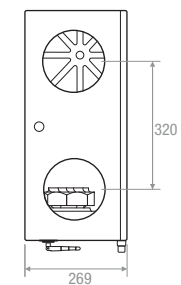
Alulnézet- Bottom View 617



Oldalnézet - Side view



Előlnézet
Front view



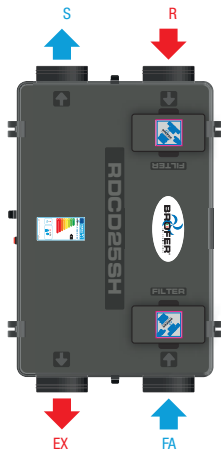
SÚLY - WEIGHT: 12 kg



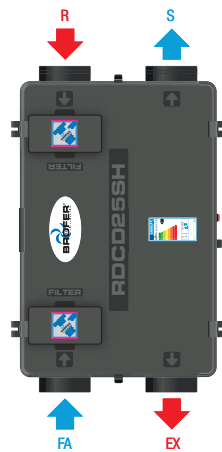
KONFIGURÁCIÓ - CONFIGURATION

FÜGGŐLEGES BEÉPÍTÉS - VERTICAL INSTALLATION

Típus - Type A (Standard)



Tipo - Type B



Jelmagyarázat - Legend

- EX =kifúvás - exhaust air
- R =visszatérő return
- FA =friss levegő - fresh air
- S = mandata - supply

VÍZSZINTES BEÉPÍTÉS - HORIZONTAL INSTALLATION

Típus - Type A (Standard)



Típus - Type A1 (Standard)



Típus - Type B



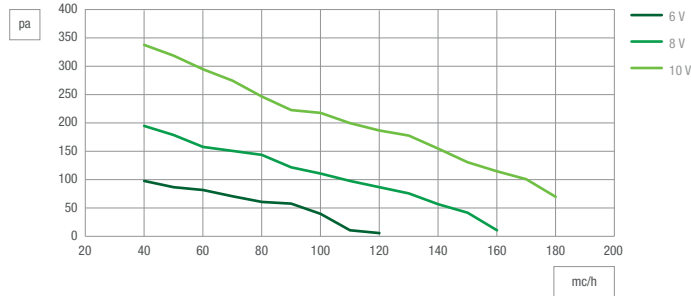
Típus - Type B



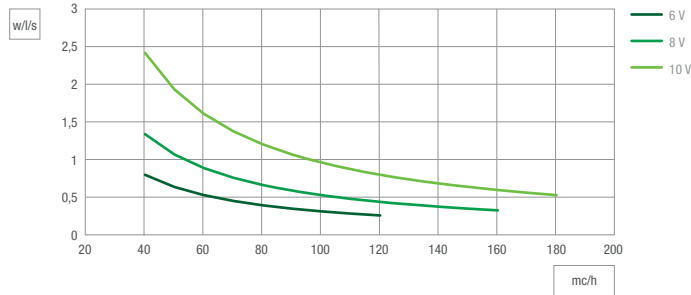
JELLEGÖRBÉK - PERFORMANCE CHARTS

IGAZOLT TELJESÍTMÉNY EN 13141:7:2011 - PERFORMANCE EN 13141:7:2011 CERTIFIED

Statikus nyomás
Useful static pressure
① ③

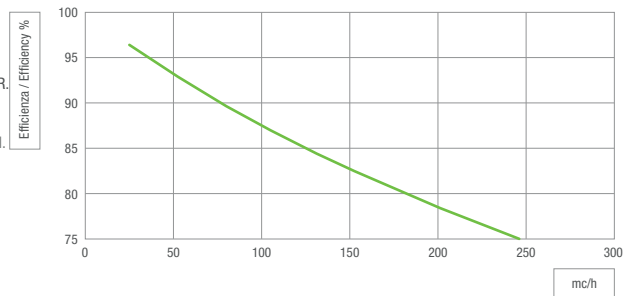


Ventilátor teljesítmény - S.F.P.
②



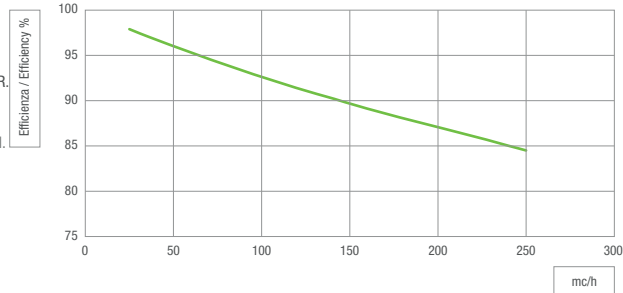
Hatékonysági diagram
nyáron

Külső levegő: 32 °C / 50 % U.R.
Környezeti levegő: 26 °C / 50 % U.R.
Nyári hatékonyság
Friss levegő: 32 °C / 50 % R.H.
Visszatérő levegő: 26 °C / 50 % R.H.



Hatékonysági diagram
télen

Külső levegő: - 5 °C / 80 % U.R.
Környezeti levegő: 20 °C / 50 % U.R.
Téli hatékonyság
Friss levegő: - 5 °C / 80 % R.H.
Visszatérő levegő: 20 °C / 50 % R.H.



ZAJSZINT - RADIATED SOUND LEVEL

RDCD25SH					
VOLT	10	9	8	7	6
Frekvencia - Frequency	Lw	Lw	Lw	Lw	Lw
Hz	[dB]	[dB]	[dB]	[dB]	[dB]
63	43,7	44,5	39,4	37,5	34,0
125	49,5	49,6	47,4	47,1	41,1
250	54,8	51,8	52,0	50,0	47,3
500	53,9	52,6	50,0	44,0	39,9
1000	53,4	50,3	47,1	44,0	40,4
2000	51,4	48,8	46,5	43,9	40,1
4000	50,0	46,6	43,6	40,1	34,6
8000	41,3	36,9	32,9	28,6	24,4
Hangteljesítmény - Sound Power	60,5	58,4	56,5	53,9	50,2
Hangnyomás - Sound Pressure	48,2	45,5	43,1	40,0	36,1

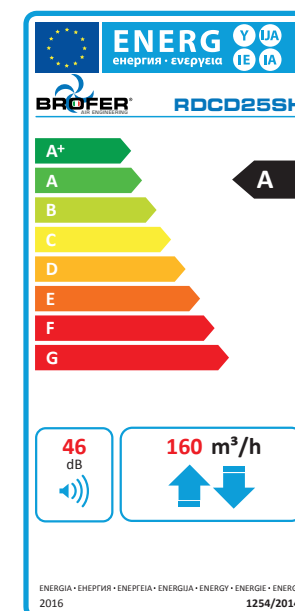
IGAZOLT TELJESÍTMÉNY EN 1314:7:2011 - EN ISO 5135:2003
PERFORMANCE EN 1314:7:2011 - EN ISO 5135:2003 CERTIFIED



DICHIARAZIONE DI PRESTAZIONE DELL'UNITA DI RECUPERO DEL CALORE RDCD25SH

Gyártó	BROFER			BROFER			BROFER		
Identificativo del modello del fornitore e opzioni installate	RDCD25SH + 4BRF			RDCD25SH + RHRF / CO2RF			RDCD25SH + RHRF / CO2RF locali		
Clima di riferimento	Temperato	Freddo	Caldo	Temperato	Freddo	Caldo	Temperato	Freddo	Caldo
SEC in [kWh/(m²a)] per ogni tipo di clima (temperato, caldo, freddo)	-36,9	-73,5	-13,9	-39,4	-76,8	-15,4	-42,4	-80,8	-17,8
SEC Class	A	A+	E	A	A+	E	A+	A+	E
Tipologia dichiarata dell'unità di ventilazione	UVR-B Bidirezionale			UVR-B Bidirezionale			UVR-B Bidirezionale		
Tipo di azionamento installato	Azionamento a velocità multiple			Velocità variabile			Velocità variabile		
Tipo di sistema di recupero del calore	a recupero			a recupero			a recupero		
Efficienza termica ¹	84,1%			84,1%			84,1%		
Portata massima in [m³/h] ²	160			160			160		
Potenza elettrica complessiva massima portata [W]	60			60			60		
Livello di potenza sonora (LWA) in [dB(A)] ³	46			46			46		
Portata di riferimento in [m³/h] ⁴	112			112			112		
Differenze di pressione di riferimento [Pa]	50			50			50		
SPI in [W/m³/h] ⁵	0,21			0,21			0,21		
Fattore di controllo e tipologia	1			0,85			0,65		
Percentuale massima di trafilamento interno [%] ⁶	5,8			5,8			5,8		
Percentuale massima di trafilamento esterno [%] ⁶	5			5			5		
Indirizzo Internet con costruzioni	www.vmcbrofer.it			www.vmcbrofer.it			www.vmcbrofer.it		

- 1: Efficienza in conformità a EN13141-7:2010 alla portata di riferimento a 50 Pa;
 - 2: Portata massima a 100 Pa di pressione esterna;
 - 3: Irraggiamento dalla cassa alla portata di riferimento a 50 Pa di pressione esterna;
 - 4: La percentuale della portata di riferimento è del 70% della portata massima a 50 Pa di pressione esterna in conformità a EN13141-7:2010;
 - 5: In conformità a EN13141-7:2010 alla portata di riferimento;
 - 6: In conformità a EN13141-7:2010;
- SEC: Consumo energetico specifico.



DECLARATION OF PERFORMANCE HEAT RECOVERY UNIT RDCD25SH

Supplier name or trade mark	BROFER			BROFER			BROFER		
Supplier Model Identifier and options installed	RDCD25SH + 4BRF			RDCD25SH + RHRF / CO2RF			RDCD25SH + RHRF / CO2RF local		
Reference climate	Temperate	Cold	Hot	Temperate	Cold	Hot	Temperate	Cold	Hot
SEC in [kWh/(m ² a)] per ogni tipo di clima (temperato, caldo, freddo)	-36,9	-73,5	-13,9	-39,4	-76,8	-15,4	-42,4	-80,8	-17,8
SEC Class	A	A+	E	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	84,1%			84,1%			84,1%		
Maximum flow rate in [m ³ /h] ²	160			160			160		
Maximum electric Power in [W]	60			60			60		
Sound Power Level (LWA) in [dB(A)] ³	46			46			46		
Reference flow rate [m ³ /h] ⁴ ⊠	112			112			112		
Reference pressure difference in [Pa]	50			50			50		
SPI in [W/m ³ /h]⊠ ⁵	0,21			0,21			0,21		
Control factor and typology	1			0,85			0,65		
Declared maximum internal leakage [%]⊠ ⁶	5,8			5,8			5,8		
Declared maximum external leakage [%]⊠ ⁶	5			5			5		
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.

