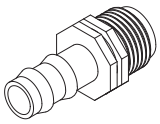


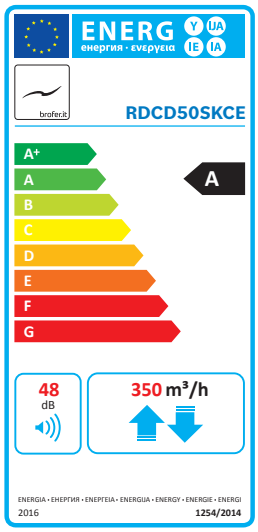
4BRF

RDCD50SKCE





Predisposizione per scarico della condensa.
Predisposition for condensate drying.



UNITÀ DI RECUPERO CALORE DOMESTICA CENTRALIZZATA AD ALTISSIMA EFFICIENZA CON SCAMBIATORE ENTALPICO
REGOLAZIONE PLUG AND PLAY WIRELESS INCLUSA
BY-PASS AUTOMATICO INCLUSO
INSTALLAZIONE ORIZZONTALE-VERTICALE

Recuperatore di calore: in controcorrente interamente realizzato in materiale plastico.

Struttura: autoportante in PPE a tenuta completa di sistema di estrazione filtri e drenaggio condensa. Casing esterno in lamiera preverniciata con isolamento fonoassorbente.

Ventilatori: plug fan con motore EC Brushless a semplice aspirazione.

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

DOMESTIC CENTRALIZZED HEAT RECOVERY UNIT WITH VERY HIGH EFFICIENCY ENTHALPIC HEAT EXCHANGER
WIRELESS PLUG AND PLAY CONTROL SYSTEM INCLUDED
AUTOMATIC BY-PASS INCLUDED
INSTALLATION HORIZONTAL-VERTICAL

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

Structure: free standing EPP seal, complete with filter extraction system and drain condensate. External casing made by prepainted steel with sound proof insulation.

Fans: plug fan with EC Brushless engine single inlet.

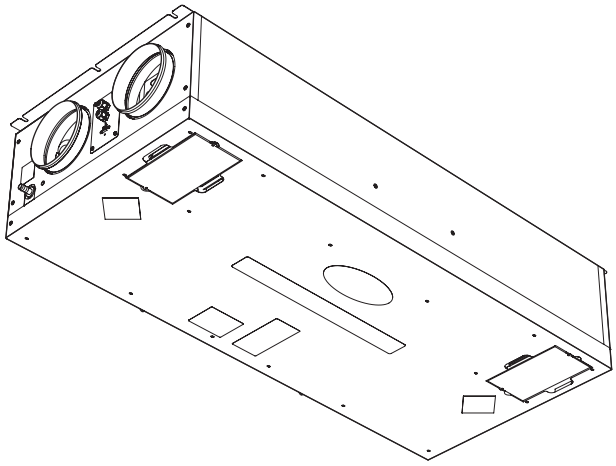
Filters: the units are equipped with standard filter cells synthetic fiber efficiency G4, optional F7 efficiency on fresh air.

Portata aria (mc/h) | Nominal air flow (mc/h)	350
Pressione statica utile (PA) | Useful static pressure (PA)	100
DATI PER SINGOLO VENTILATORE | DATA FOR EACH FAN	
* **Potenza nominale (w)** | Installed power (W)	169
* **Giri (1/min)** | Round (1/MIN)	4120
* **I nominale (A)** | Current (A)	1,35
Tensione (V) | Rated voltage (V)	230
Frequenza (Hz) | Frequency (HZ)	50
Velocità (nr) | Speed (nr)	3+(1 booster)
FILTRI | FILTERS	
Efficienza | Efficiency **Standard**	G4 ISO COARSE > 65 %
Efficienza | Efficiency **Optional**	F7 ISO e PM1 > 65 %

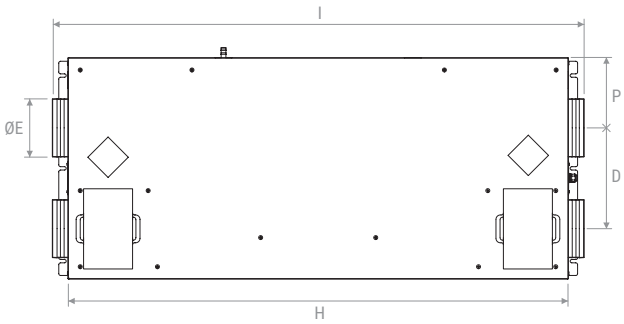
* **Dati installati controllati elettronicamente** | electronically controled installed data

DISEGNI | DRAWINGS

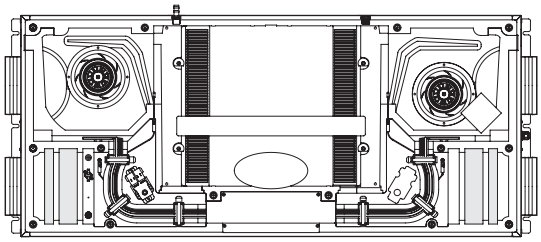
PESO | WEIGHT: **42 kg**



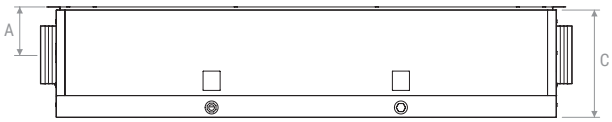
Vista dal basso | Bottom View



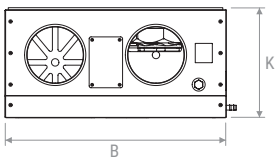
Vista interna | Internal view



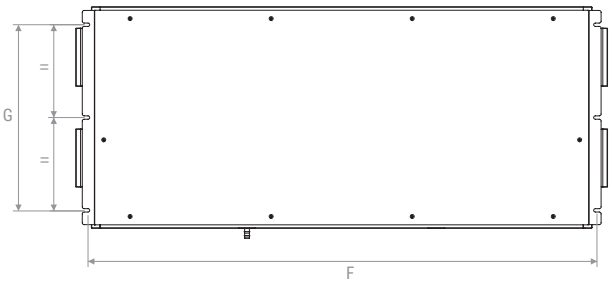
Vista laterale | Side view



Vista frontale | Front view



Vista in pianta | Plan view



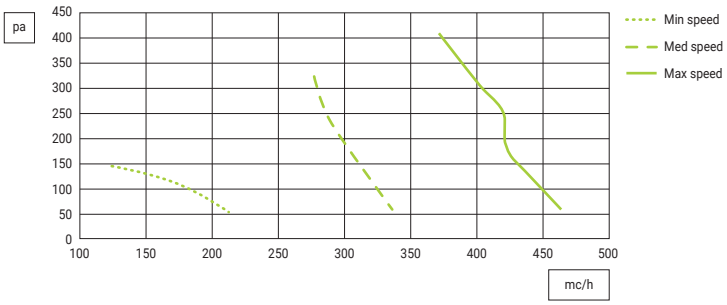
Dimensionare i condotti di distribuzione aria in funzione della portata aria di progetto, maggiorando se necessario rispetto agli attacchi dell'unità.
Size the air distribution ducts according to the design air flow rate, increasing if necessary compared to the unit spigots.

	A	B	C	D	ØE	F	G	H	I	K	P
mm	129	596	298	271	156	1367	500	1348	1431	298	189

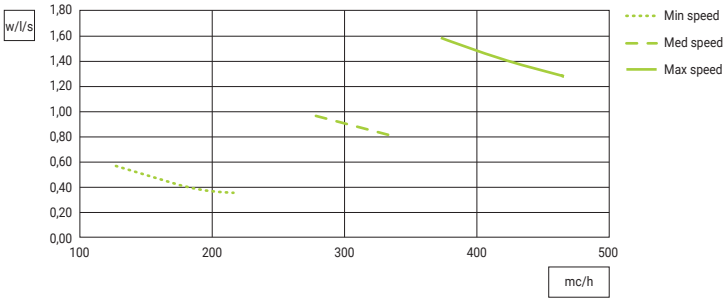
DIAGRAMMI PRESTAZIONALI | PERFORMANCE CHARTS

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

Pressione statica utile
Useful static pressure
①③



Potenza specifica ventilatore
S.F.P.
②



SCAMBIATORE CERTIFICATO EN 13147:7:2011 | HEAT EXCHANGER EN 13147:7:2011 CERTIFIED

Diagramma efficienza sensibile invernale
Aria esterna: 25 °C
Aria ambiente: 5 °C
Winter sensible efficiency chart
Fresh air: 25 °C
Return air: 5 °C

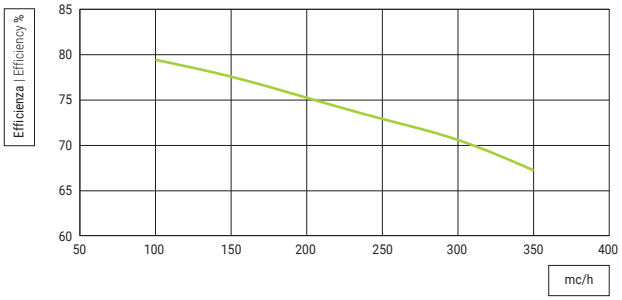
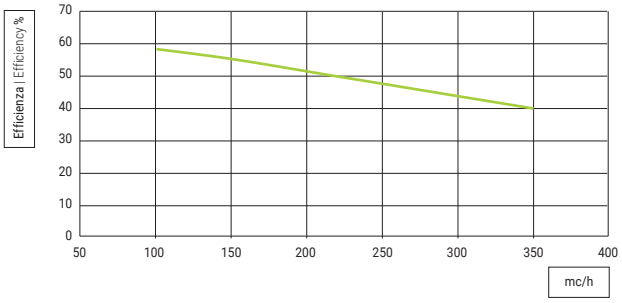


Diagramma efficienza latente invernale
Aria esterna: 5 °C - 79 % U.R.
Aria ambiente: 25 °C - 50 % U.R.
Winter latent efficiency chart
Fresh air: 5 °C - 79 % R.H.
Return air: 25 °C - 50 % R.H.



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 80 pa alla massima portata con filtro pulito
Air pressure drop with F7 efficiency filter 80 pa at maximum air flow rate with clean filter

Diagramma efficienza sensibile estiva
Aria esterna: 35 °c
Aria ambiente: 25 °C
Summer sensible efficiency chart
Fresh air: 35 °C
Return air: 25 °C

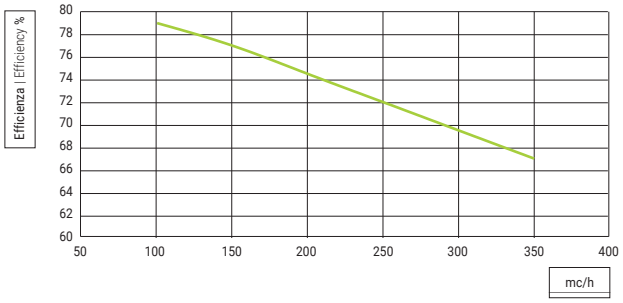
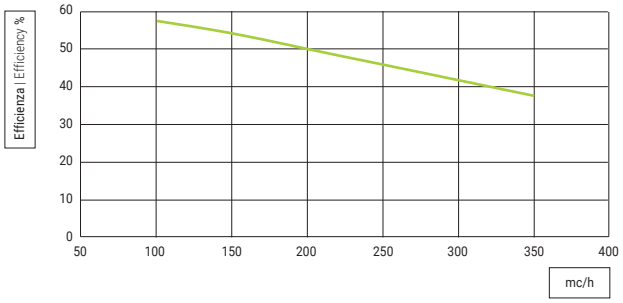


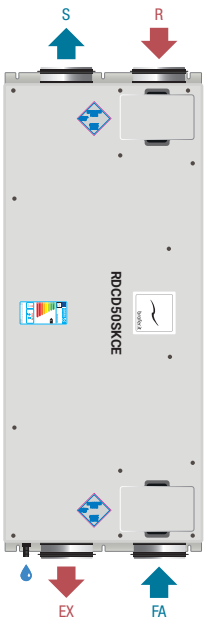
Diagramma efficienza latente estiva
Aria esterna: 35 °C - 57 % U.R.
Aria ambiente: 25 °C - 50 % U.R.
Summer latent efficiency chart
Fresh air: 35 °C - 57 % R.H.
Return air: 25 °C - 50 % R.H.



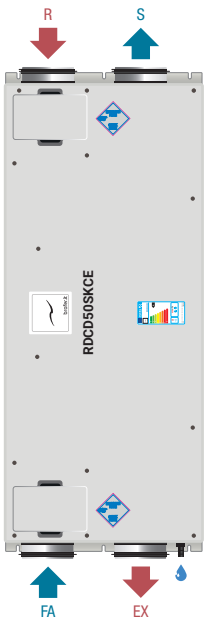
CONFIGURAZIONE | CONFIGURATION

INSTALLAZIONE VERTICALE A PARETE | VERTICAL WALL INSTALLATION

Tipo | Type A (Standard)

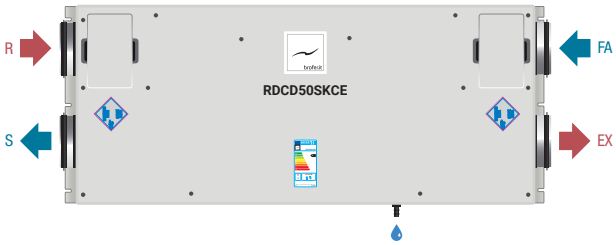


Tipo | Type B

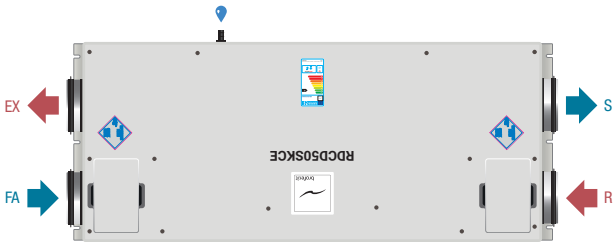


INSTALLAZIONE ORIZZONTALE A SOFFITTO | HORIZZONTAL CEILING INSTALLATION

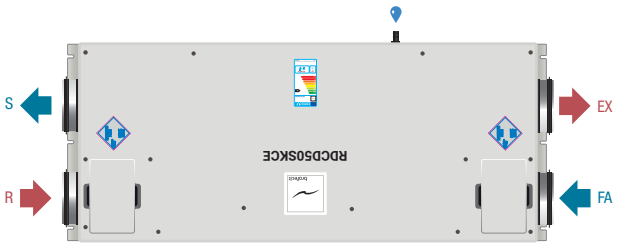
Tipo | Type A (Standard)



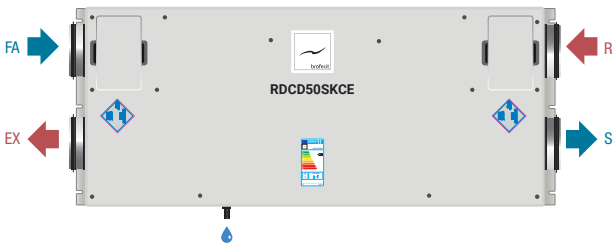
Tipo | Type A1 (Standard)



Tipo | Type B



Tipo | Type B1



Legenda | Legend
EX = **espulsione** | exhaust air
R = **ripresa** | return
FA = **aria esterna** | fresh air
S = **mandata** | supply

DICHIARAZIONE DI PRESTAZIONE DELL'UNITÀ DI RECUPERO DEL CALORE
DECLARATION OF PERFORMANCE HEAT RECOVERY UNIT

Nome o denominazione commerciale del fabbricante Supplier name or trade mark	BROFER								
Identificativo del modello del fornitore e opzioni installate Supplier Model Identifier and options installed	**RDCD50SKCE** + 4BRF			**RDCD50SKCE** + RHRF / CO2RF			**RDCD50SKCE** + RHRF / CO2RF **locali** | local		
Clima di riferimento Reference climate	Temperato Temperate	Freddo Cold	Caldo Hot	Temperato Temperate	Freddo Cold	Caldo Hot	Temperato Temperate	Freddo Cold	Caldo Hot
SEC in [kWh/(m²a)] per ogni tipo di clima (temperato, caldo, freddo) for each type of climate (temperate, hot, cold)	-27,80	-66,40	-5,68	-32,46	-72,3	-9,63	-37,82	-79,31	-14,05
SEC Class	B	A+	F	B	A+	F	A	A+	E
Tipologia dichiarata dell'unità di ventilazione Declared Typology	UVR-B Bidirezionale UVR-B Bidirectional			UVR-B Bidirezionale UVR-B Bidirectional			UVR-B Bidirezionale UVR-B Bidirectional		
Tipo di azionamento installato Type of drive installed	Azionamento a velocità multiple Multi-speed drive			Velocità variabile Variable speed			Velocità variabile Variable speed		
Tipo di sistema di recupero del calore Type of heat recovery	a recupero Recuperative			a recupero Recuperative			a recupero Recuperative		
Efficienza termica [1] Thermal efficiency [1]	72,95%			72,95%			72,95%		
Portata massima in [m³/h] [2] Maximum flow rate in [m³/h] [2]	350			350			350		
Potenza elettrica complessiva massima portata [W] Maximum electric Power in [W]	337			337			337		
Livello di potenza sonora (LWA) in [dB(A)] [3] Sound Power Level (LWA) in [dB(A)][3]	48			48			48		
Portata di riferimento in [m³/h] [4] Reference flow rate [m³/h] [4]	245			245			245		
Differenze di pressione di riferimento [Pa] Reference pressure difference in [Pa]	50			50			50		
SPI in [W/m³/h] [5]	0,387			0,387			0,387		
Fattore di controllo e tipologia Control factor and typology	1			0,85			0,65		
Percentuale massima di trafilamento interno [%] [6] Declared maximum internal leakage [%] [6]	A3			A3			A3		
Percentuale massima di trafilamento esterno [%] [6] Declared maximum esternal leakage [%] [6]	A3			A3			A3		
SEC Clima temperato (kWh energia elettrica/anno) SEC Tempertate climate (kWh electricity/annum)	529								
AHS (kWh energia primaria/anno) AHS (kWh primary energy/annum)	4039	1826	7901						
Indirizzo Internet per istruzioni Internet address for pre/dis-assembly instruction	www.broferpura.it								

1: **Efficienza in conformità a EN13141-7:2010 alla portata di riferimento a 50 Pa** | Efficiency according EN13141-7:2010 at reference flow at 50 Pa
2: **Portata massima a 100 Pa di pressione esterna** | Maxiumum flow at 100 Pa external pressure
3: **Irraggiamento dalla cassa alla portata di riferimento a 50 Pa di pressione esterna** | Casing radiation at reference flow rate at 50 Pa external pressure
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**
Reference flow rate is 70% of maximum flow at 50 Pa external pressure according EN13141-7:2010
5: **In conformità a EN13141-7:2010 alla portata di riferimento** | According EN13141-7:2010 at reference flow rate
6: **In conformità a EN13141-7:2010** | According EN13141-7:2010
SEC: **Consumo energetico specifico** | Specific Energy Consumption

RDCD50SKCE

VERSIONI DISPONIBILI | VERSIONS AVAILABLE

Modello | Model	Descrizione | Description
RDCD50ASKCE	Configurazione A standard | Standard A configuration
RDCD50BSKCE	Configurazione B | Configuration B
RDCD50ASKCEBE*	Configurazione A standard | Standard A configuration
RDCD50BSKCEBE*	Configurazione B | Configuration B
KFTR062A	Kit filtri ricambio (2 pz) efficienza G4 | Replacement filter kit (2 pcs) efficiency G4
FTR062C	Filtro ricambio efficienza F7 | Replacement filter efficiency F7

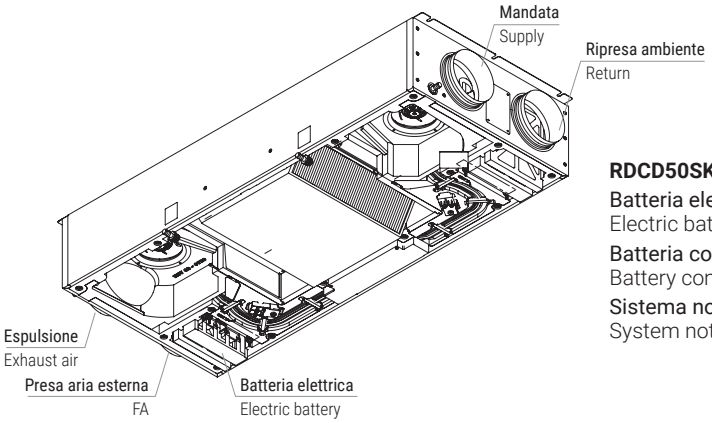
* Versione con batteria elettrica interna all'unità | Enthalpic version with electric battery inside the unit

COMPOSIZIONE SISTEMI DI REGOLAZIONE | CONTROL SYSTEM COMPOSITION

	4BRF	RHRF	CO2RF	MODBUSRF	APPRF	DSPRF	TSMART
Modello Model							
Controllo velocità Speed control	●	●	●		●	●	●
By-pass						●	●
Intasamento filtri Clogged filters	●	●	●			●	●
Controllo umidità Humidity control		●					●
Controllo CO_2 CO_2 control			●				●
Funzione booster Booster function	●				●	●	●
Trasmettitore MODBUS MODBUS gate way				●			
Impostazione velocità Speeds setting		●	●			●	●
ON/OFF			●			●	●
Allarmi puntuali Punctual alarms	●	●	●			●	●
	incluso nel prezzo included in the price						

Descrizione dettagliata comandi a pag. 16-18 | Detailed commands device description on page 16-18

ACCESSORI | ACCESSORIES



RDCD50SKCEBE

Batteria elettrica 1,5 kw - 230 V - 50 Hz integrata nell'unità
Electric battery 1,5 kw - 230 V - 50 Hz integrated in the unit

Batteria controllata dalla PCB dell'unità
Battery controlled by PCB of the unit

Sistema non fornibile dopo consegna unità
System not available after unit delivery