BRUCEC

Scheda tecnica
Data sheet

UNITÀ DI RECUPERO CALORE DI TIPO COMMERCIALE AD ALTISSIMA EFFICIENZA
BY-PASS AUTOMATICO INCLUSO
MOTORI EC CON INVERTER

Recuperatore di calore: in controcorrente interamente realizzato in alluminio. In corrispondenza dello stesso è prevista una vasca per il drenaggio della condensa.

Struttura: il telaio portante è realizzato con profili di alluminio e pannellatura sandwich afonica Le unità sono provviste di pannelli asportabili per accedere all'interno ed effettuare le operazioni di manutenzione ordinaria e straordinaria.

Ventilatori: plug fan con motore EC Brushless (modelli BRUCEC700, BRUCEC1000) centrifugo a doppia aspirazione con motore elettrico a rotore esterno EC Brushless direttamente accoppiato completo di inverter con interfaccia Modbus (modelli BRUCEC2000, BRUCEC3500, BRUCEC4500).

Filtri: le unità sono provviste di serie con celle filtranti ondulate in fibra sintetica classe G4, telaio in acciaio zincato e reti di protezione in filo di acciaio zincato elettrosaldato.

COMMERCIAL HEAT RECOVERY UNIT WITH VERY HIGH EFICIENCY
AUTOMATIC BY-PASS INCLUDED
EC MOTORS WITH FREQUENCY CONVERTER

Heat recovery: the recuperator is the counterflow type all-aluminium. On the same is installed a condensate drain basin.

Structure: the frame is made of aluminium and galvanized steel sandwich sound proof panels. The units are equipped with removable panels for access to the interior and make routine and extraordinary maintenance.

Fans: plug fan with EC Brushless engine (models BRUCEC700, BRUCEC1000) centrifugal double suction with electric motor with external rotor EC Brushless direct driven complete of frequency converter. Modbus interface (models BRUCEC2000, BRUCEC3500, BRUCEC4500).

Filters: the units are equipped with standard filter cells wavy synthetic fiber efficiency G4, galvanized steel frame and safety nets in electro galvanized steel wire.

	BRUCEC700	BRUCEC1000	BRUCEC2000	BRUCEC3500	BRUCEC4500
Portata aria (mc/h) | Nominal air flow (mc/h)	700	1000	2000	3500	4500
Pressione statica utile (pa) | Useful static pressure (pa)	110	190	390	240	350
VENTILATORE DIRETTAMENTE ACCOPPIATO (dati per singolo ventilatore) | FANS (data for each fan)					
Potenza nominale (w) | Installed power (W)	113	207	1050	1050	2000
I nominale (A) | Current (A)	0,8	1,4	4,51	4,53	9,52
Tensione (V) | Rated voltage (V)	230	230	230	230	230
Frequenza (Hz) | Frequency (HZ)	50	50	50	50	50
Velocità (nr) | Speeds (nr)	1	1	1	1	1
FILTRI | FILTERS					
Acrilici ondulati efficienza | Corrugated acrylic efficiency	G4 ISO COARSE > 65 %				

Con temperature esterne < -3°C necessario preriscaldamento | With fresh air temperature < -3°C it is necessary pre-heating

DATI ECODESIGN | ECODESIGN DATA SHEET

Modello Model	Efficienza Efficiency	Portata aria nominale Nominal air flow	Pressione statica utile Useful static pressure	SFPInt	SFP-2018	Velocità Frontale Front Speed	Efficienza ventilatore Fan efficiency	Leakage interno Internal leakage	Leakage esterno External leakage
	%	mc/h	pa	w/m³/s	w/m³/s	m/s	%	%	%
BRUCEC700	79,3	700	110	832	1439	1,24	42	6,6	3,9
BRUCEC1000	81,6	1000	190	946	1496	1,56	44	7,3	5,5
BRUCEC2000	80,7	2000	390	1303,2	1526,4	1,69	51	7,3	5,5
BRUCEC3500	81,7	3500	240	1202,4	1497,6	2,75	55	6,8	4,6
BRUCEC4500	81,3	4500	350	1432,8	1440,0	2,85	56	5,9	4,1

LIVELLO LW DI POTENZA SONORA IRRAGGIATO DAL CASING
SOUND POWER LW RADIATED FROM THE CASING SHEET

Modello Model	Dati misurati alla massima velocità | Data measured at maximum speed Frequenza | Frequency (Hz)							
	125	250	500	1000	2000	4000	8000	LwdB(A)
BRUCEC700	60,7	63,4	57,2	54,4	43,9	40,1	41,6	58,7
BRUCEC1000	63	65,2	59,4	56,3	46,6	41,3	43,8	61,6
BRUCEC2000	64,3	73,3	65,2	57,9	50,1	43,3	41,2	67
BRUCEC3500	73,4	76,2	68,4	59	53,4	44,6	44,4	70,3
BRUCEC4500	74,2	78,7	70,5	62,3	55,3	46,4	47,1	71,6

LIVELLO LW DI POTENZA SONORA IRRAGGIATO DAL VENTILATORE
SOUND POWER LW RADIATED FROM THE FAN

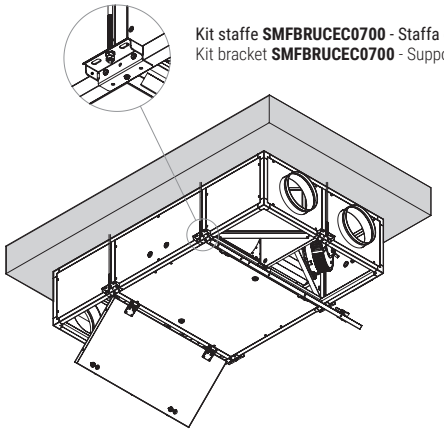
Modello Model	Dati misurati alla massima velocità | Data measured at maximum speed Frequenza | Frequency (Hz)							
	125	250	500	1000	2000	4000	8000	LwdB(A)
BRUCEC700	61,9	69,5	62,4	57,2	56,7	52,9	63,2	67,3
BRUCEC1000	64,2	73	66,7	60,6	61,9	56,4	65,3	70,6
BRUCEC2000	72,4	83,2	77,1	77,4	72,2	67,1	75,2	80,3
BRUCEC3500	74,2	78	78,4	76,6	73,1	71,4	74,6	79,2
BRUCEC4500	75,3	81,5	80,2	78,2	74,5	72,9	76,4	78,2

DISEGNI | DRAWINGS

BRUCEC700

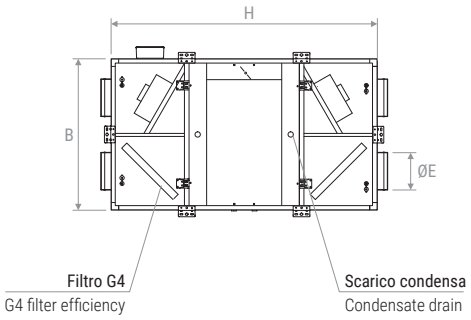
INSTALLAZIONE ORIZZONTALE | HORIZONTAL INSTALLATION

PESO | WEIGHT: **135 kg**

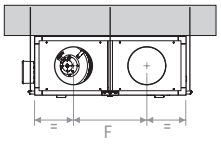


Kit staffe **SMFBRUCEC0700** - Staffa di sostegno asolate Ø9 (optional)
Kit bracket **SMFBRUCEC0700** - Support bracket with slot Ø9 (optional)

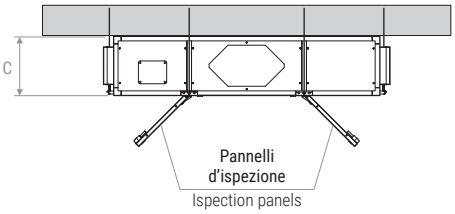
Vista dal basso | Bottom view



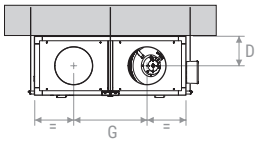
Vista frontale | Front view



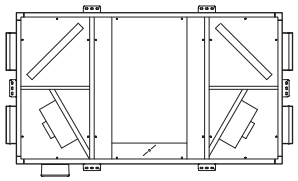
Vista laterale | Side view



Vista posteriore | Rear view



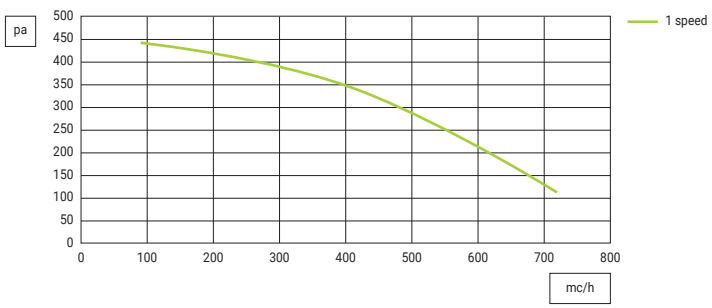
Vista dall'alto | Top view



	H	B	C	D	ØE	F	G
mm	1760	1000	390	195	250	485	485

DIAGRAMMI PRESTAZIONALI | PERFORMANCE CHARTS

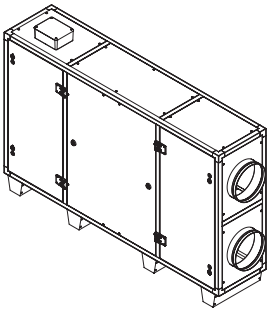
Pressione statica utile
Useful static pressure

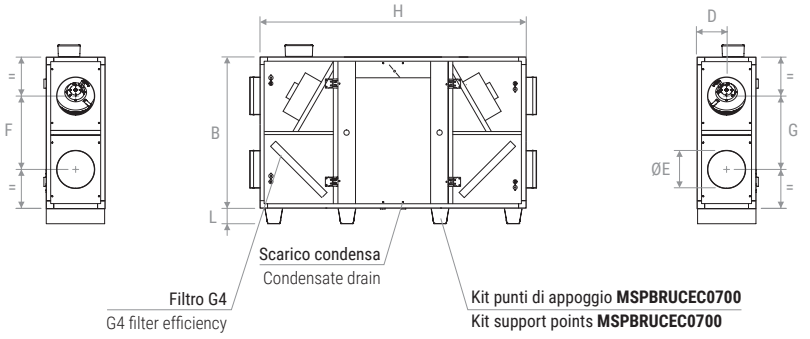


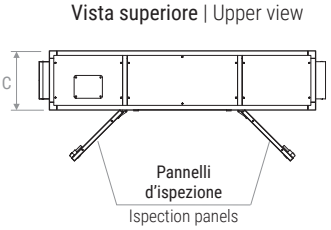
DISEGNI | DRAWINGS

BRUCEC700

INSTALLAZIONE VERTICALE | VERTICAL INSTALLATION







	H	B	C	D	ØE	F	G	L
mm	1760	1000	390	175	250	485	485	100

DIAGRAMMI PRESTAZIONALI | PERFORMANCE CHARTS

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.

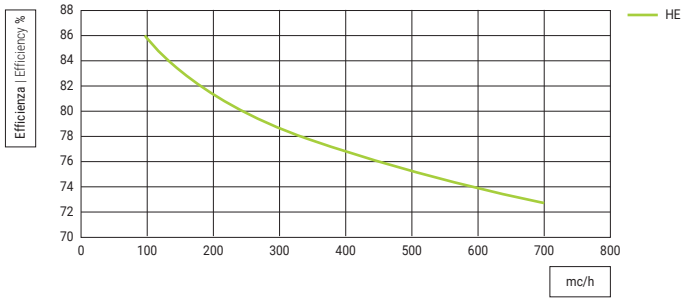
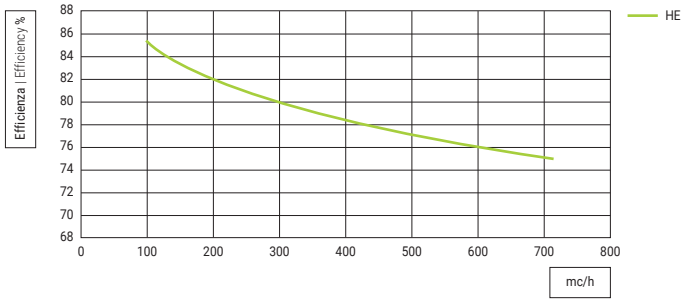


Diagramma efficienza invernale
Aria esterna: - 5 °C / 80 % U.R.
Aria ambiente: 20 °C / 50 % U.R.
Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.



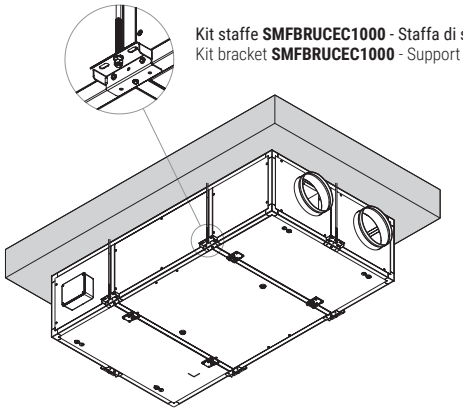
PROFESSIONAL

DISEGNI | DRAWINGS

BRUCEC1000

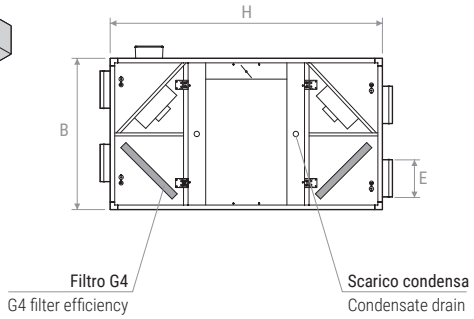
INSTALLAZIONE ORIZZONTALE | HORIZONTAL INSTALLATION

PESO | WEIGHT: **150 kg**

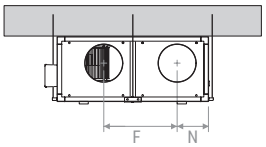


Kit staffe **SMFBRUCEC1000** - Staffa di sostegno asolate Ø9 (optional)
Kit bracket **SMFBRUCEC1000** - Support bracket with slot Ø9 (optional)

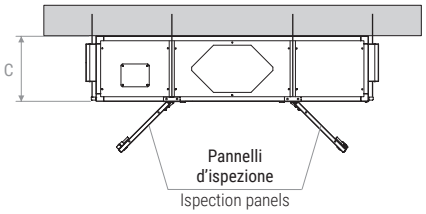
Vista dal basso | Bottom view



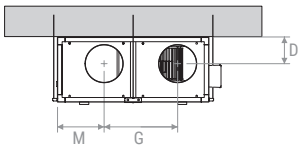
Vista frontale | Front view



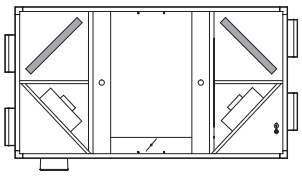
Vista laterale | Side view



Vista posteriore | Rear view



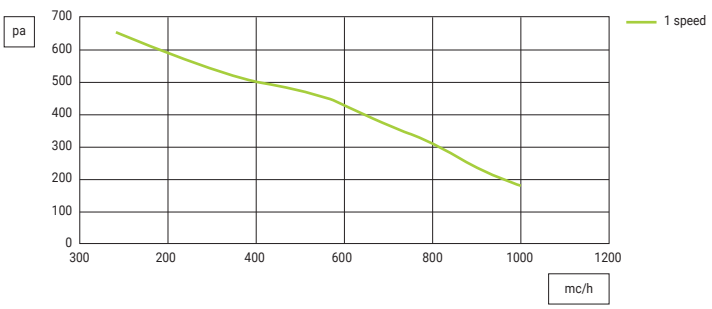
Vista dall'alto | Top view



	H	B	C	D	ØE	F	G	M	N
mm	1800	1000	430	175	250	485	485	308	207

DIAGRAMMI PRESTAZIONALI | PERFORMANCE CHARTS

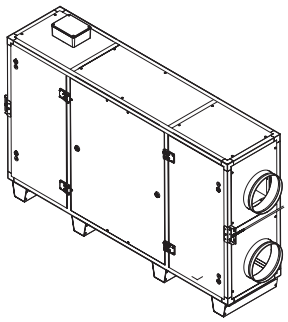
Pressione statica utile
Useful static pressure

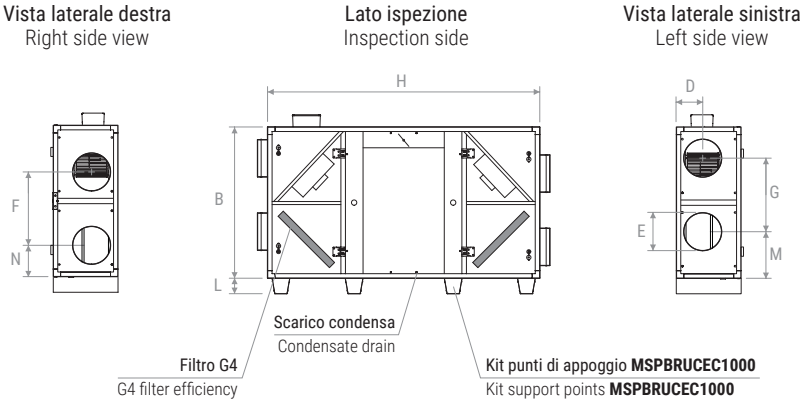


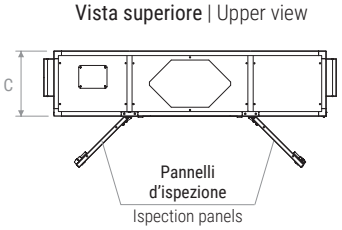
DISEGNI | DRAWINGS

BRUCEC1000

INSTALLAZIONE VERTICALE | VERTICAL INSTALLATION







	H	B	C	D	ØE	F	G	L	M	N
mm	1800	1000	430	175	250	485	485	100	308	207

DIAGRAMMI PRESTAZIONALI | PERFORMANCE CHARTS

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.

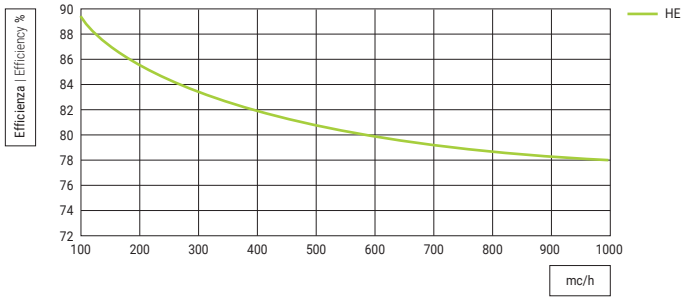
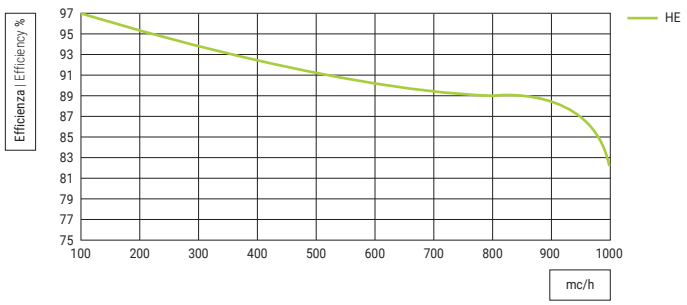


Diagramma efficienza invernale
Aria esterna: - 5 °C / 80 % U.R.
Aria ambiente: 20 °C / 50 % U.R.
Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.



PROFESSIONAL

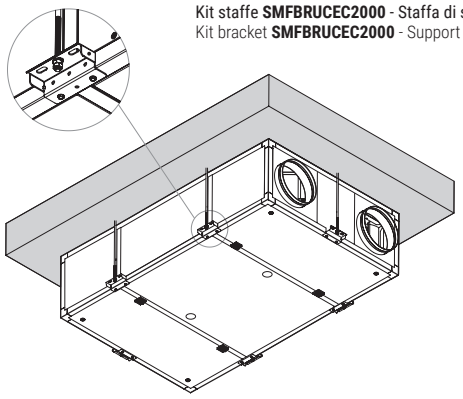
DISEGNI | DRAWINGS

BRUCEC2000

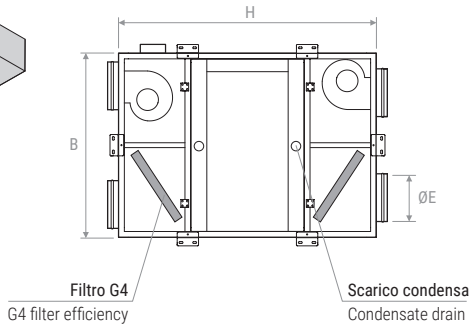
INSTALLAZIONE ORIZZONTALE | HORIZONTAL INSTALLATION

PESO | WEIGHT: **215 kg**

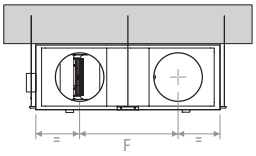
Kit staffe **SMFBRUCEC2000** - Staffa di sostegno asolate Ø9 (optional)
Kit bracket **SMFBRUCEC2000** - Support bracket with slot Ø9 (optional)



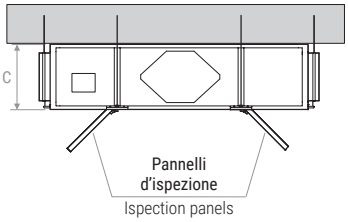
Vista dal basso | Bottom view



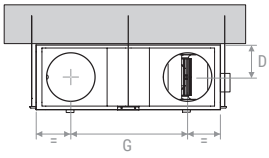
Vista frontale | Front view



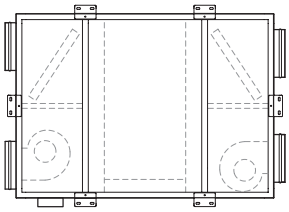
Vista laterale | Side view



Vista posteriore | Rear view



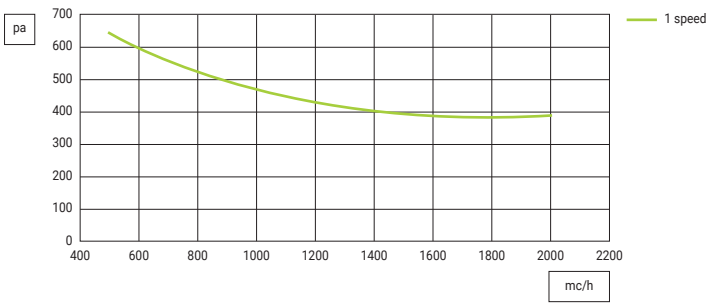
Vista dall'alto | Top view



	H	B	C	D	ØE	F	G
mm	2000	1100	510	255	355	498	622

DIAGRAMMI PRESTAZIONALI | PERFORMANCE CHARTS

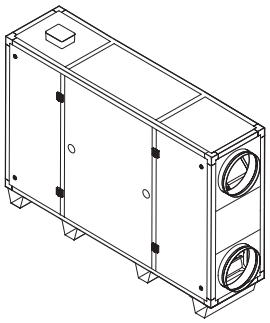
Pressione statica utile
Useful static pressure



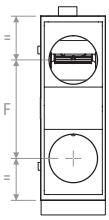
DISEGNI | DRAWINGS

BRUCEC2000

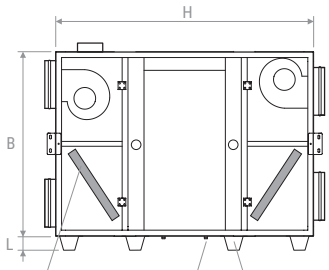
INSTALLAZIONE VERTICALE | VERTICAL INSTALLATION



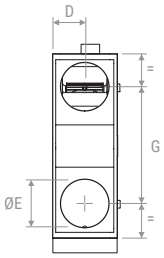
Vista laterale destra
Right side view



Lato ispezione
Inspection side



Vista laterale sinistra
Left side view

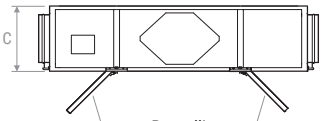


Filtro G4
G4 filter efficiency

Scarico condensa
Condensate drain

Kit punti di appoggio **MSPBRUCEC2000**
Kit support points **MSPBRUCEC2000**

Vista superiore | Upper view



Pannelli
d'ispezione
Ispection panels

	H	B	C	D	ØE	F	G	L
mm	2000	1100	510	255	355	498	622	100

DIAGRAMMI PRESTAZIONALI | PERFORMANCE CHARTS

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.

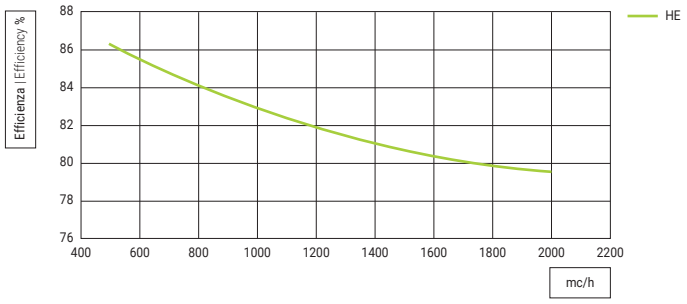
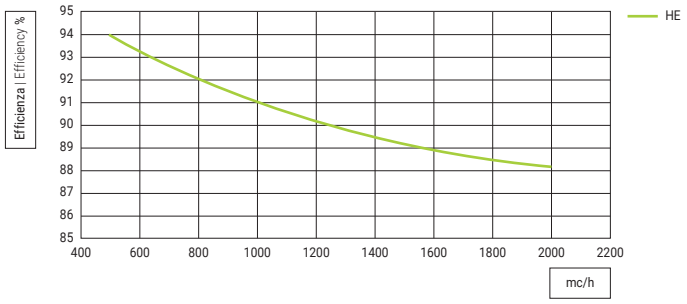


Diagramma efficienza invernale
Aria esterna: - 5 °C / 80 % U.R.
Aria ambiente: 20 °C / 50 % U.R.
Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.



PROFESSIONAL

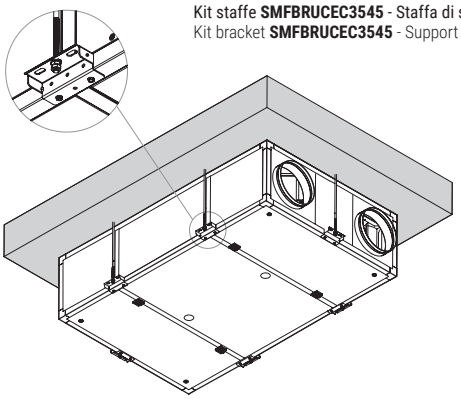
DISEGNI | DRAWINGS

BRUCEC3500

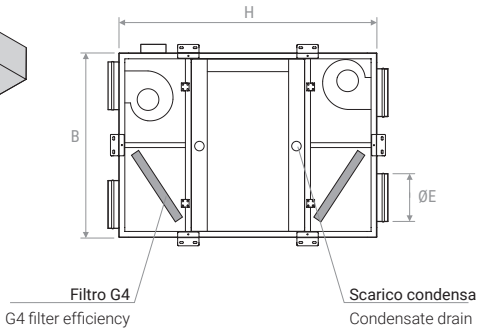
INSTALLAZIONE ORIZZONTALE | HORIZONTAL INSTALLATION

PESO | WEIGHT: **360 kg**

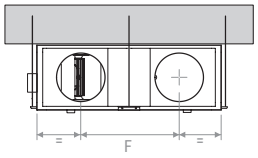
Kit staffe **SMFBRUCEC3545** - Staffa di sostegno asolate Ø9 (optional)
Kit bracket **SMFBRUCEC3545** - Support bracket with slot Ø9 (optional)



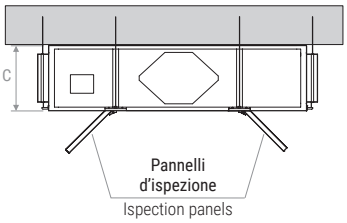
Vista dal basso | Bottom view



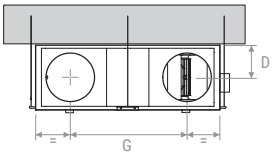
Vista frontale | Front view



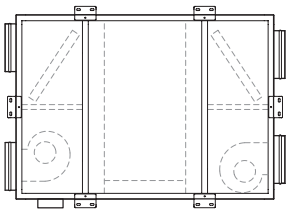
Vista laterale | Side view



Vista frontale | Front view



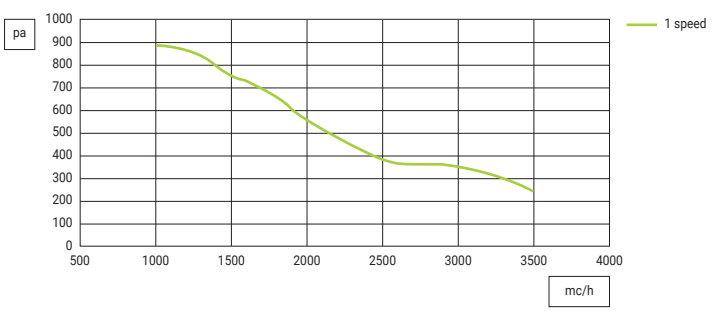
Vista dall'alto | Top view



	H	B	C	D	ØE	F	G
mm	2250	1400	650	365	355	860	860

DIAGRAMMI PRESTAZIONALI | PERFORMANCE CHARTS

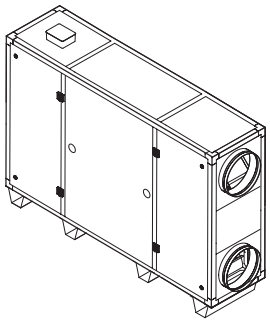
Pressione statica utile
Useful static pressure



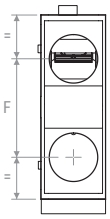
DISEGNI | DRAWINGS

BRUCEC3500

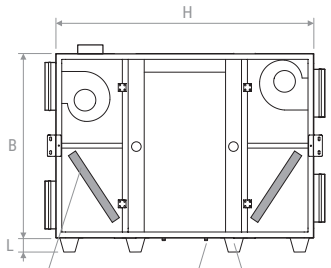
INSTALLAZIONE VERTICALE | VERTICAL INSTALLATION



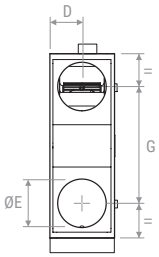
Vista laterale destra
Right side view



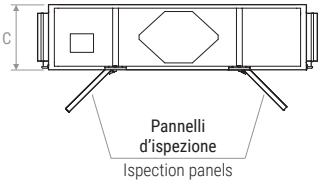
Lato ispezione
Inspection side



Vista laterale sinistra
Left side view



Vista superiore | Upper view



	H	B	C	D	ØE	F	G	L
mm	2250	1400	650	365	355	860	860	100

DIAGRAMMI PRESTAZIONALI | PERFORMANCE CHARTS

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.

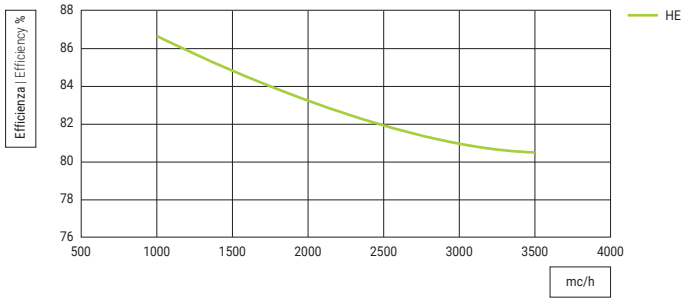
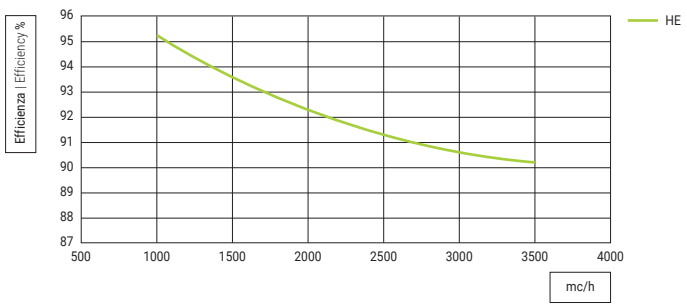


Diagramma efficienza invernale
Aria esterna: - 5 °C / 80 % U.R.
Aria ambiente: 20 °C / 50 % U.R.
Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.



PROFESSIONAL

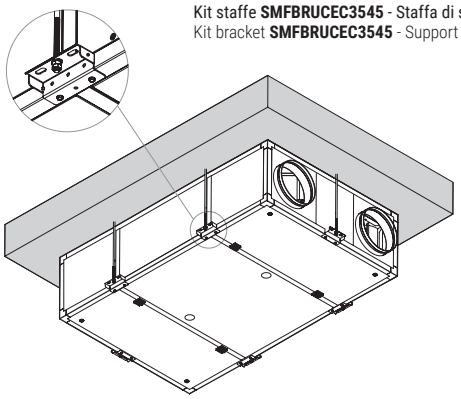
DISEGNI | DRAWINGS

BRUCEC4500

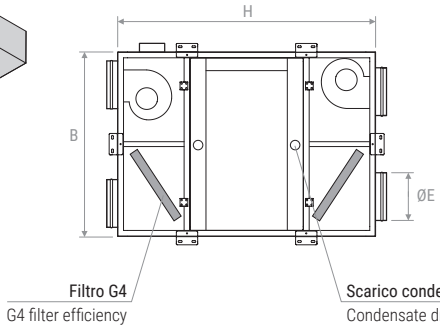
INSTALLAZIONE ORIZZONTALE | HORIZONTAL INSTALLATION

PESO | WEIGHT: **400 kg**

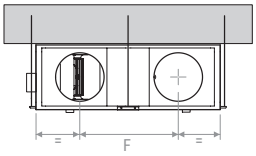
Kit staffe **SMFBRUCEC3545** - Staffa di sostegno asolate Ø9 (optional)
Kit bracket **SMFBRUCEC3545** - Support bracket with slot Ø9 (optional)



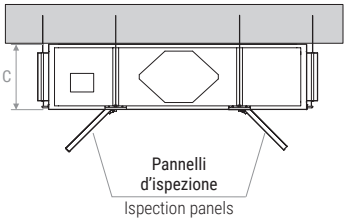
Vista dal basso | Bottom view



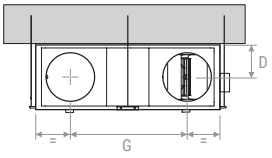
Vista frontale | Front view



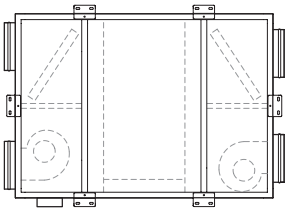
Vista laterale | Side view



Vista posteriore | Rear view



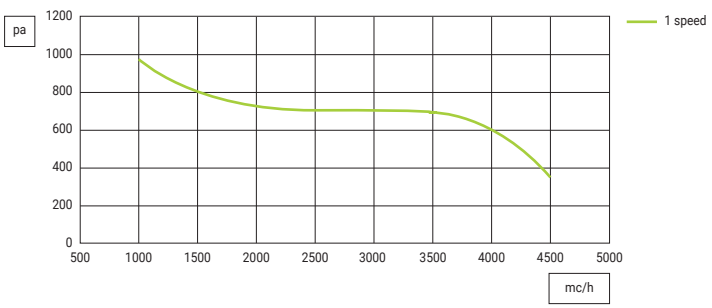
Vista dall'alto | Top view



	H	B	C	D	ØE	F	G
mm	2500	1650	650	365	400	985	985

DIAGRAMMI PRESTAZIONALI | PERFORMANCE CHARTS

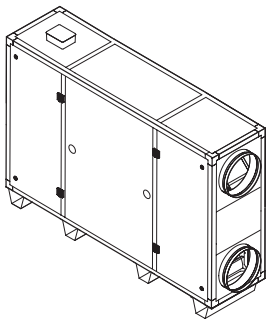
Pressione statica utile
Useful static pressure



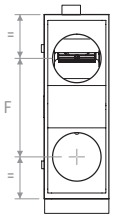
DISEGNI | DRAWINGS

BRUCEC4500

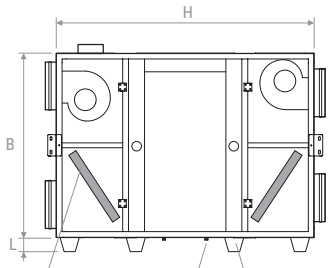
INSTALLAZIONE VERTICALE | VERTICAL INSTALLATION



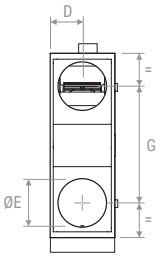
Vista laterale destra
Right side view



Lato ispezione
Inspection side



Vista laterale sinistra
Left side view

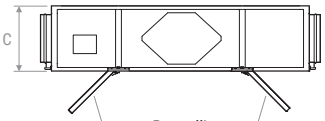


Filtro G4
G4 filter efficiency

Scarico condensa
Condensate drain

Kit punti di appoggio **MSPBRUCEC3545**
Kit support points **MSPBRUCEC3545**

Vista superiore | Upper view



Pannelli
d'ispezione
Ispection panels

	H	B	C	D	ØE	F	G	L
mm	2500	1650	650	365	400	985	985	100

DIAGRAMMI PRESTAZIONALI | PERFORMANCE CHARTS

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.

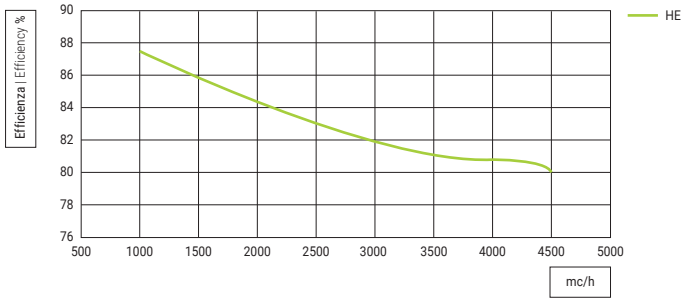
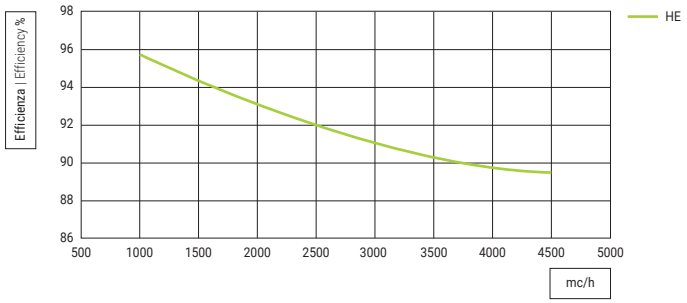


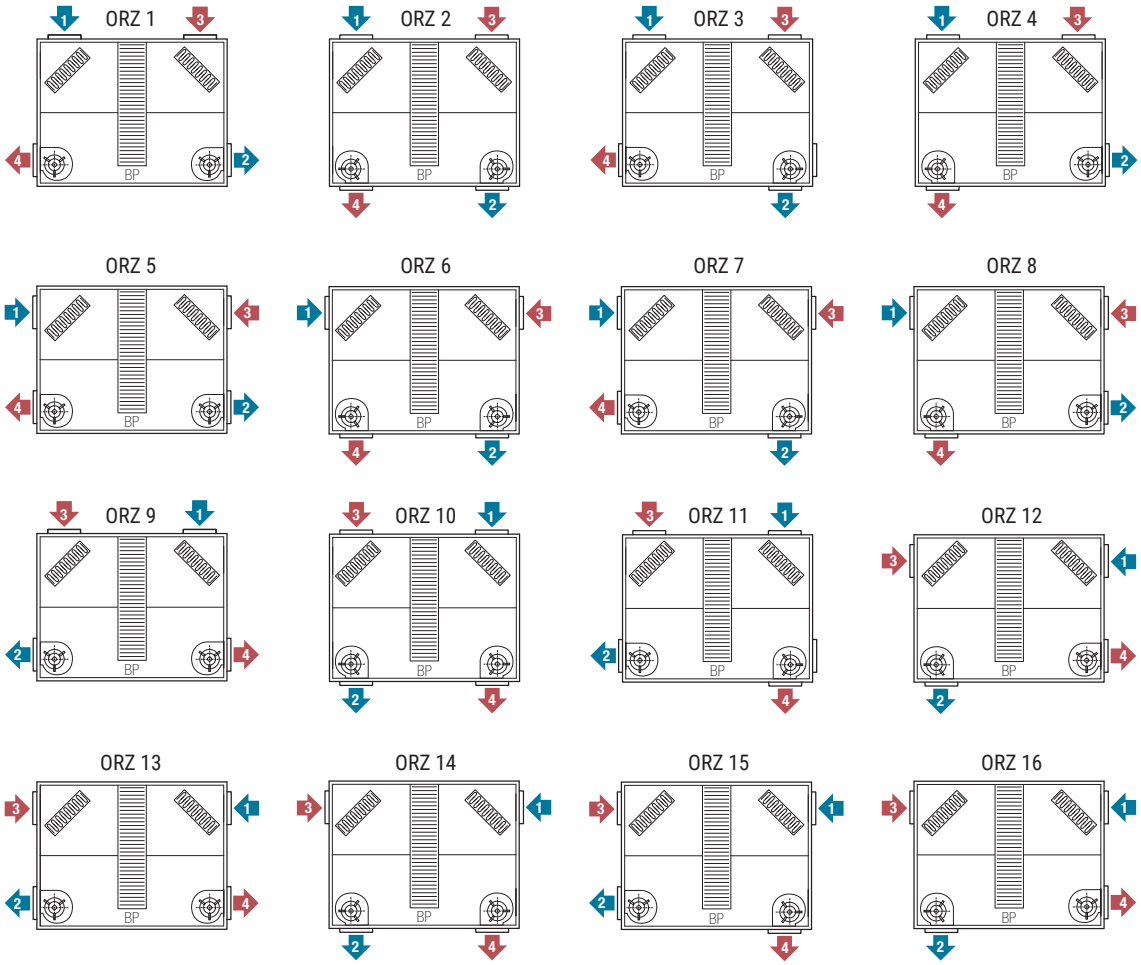
Diagramma efficienza invernale
Aria esterna: - 5 °C / 80 % U.R.
Aria ambiente: 20 °C / 50 % U.R.
Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.



PROFESSIONAL

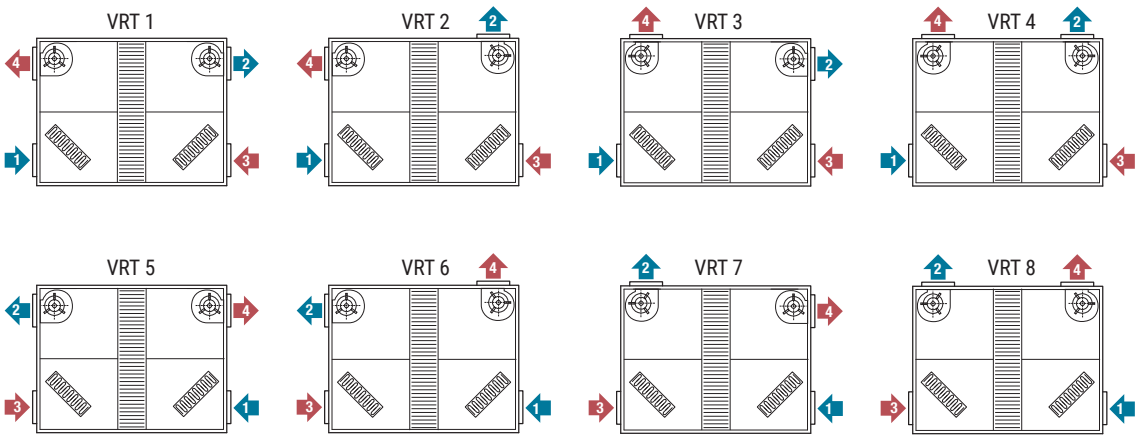
CONFIGURAZIONE | CONFIGURATION

ORIENTAMENTO VERSIONE ORIZZONTALE (vista superiore) | CONFIGURATIONS HORIZONTAL VERSION (top view)



ORZ 5 = STANDARD

ORIENTAMENTO VERSIONE VERTICALE (vista frontale lato ispezione) | CONFIGURATIONS VERTICAL VERSION (front view inspection side)



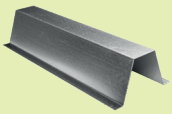
Leggenda | Legend
1 = aria esterna | fresh air
2 = mandata | supply
3 = ripresa | return
4 = espulsione | exhaust air

PREZZI | PRICES

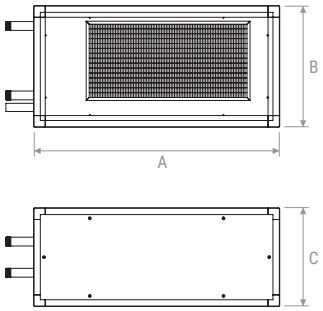
Modello | Model	€
BRUCEC700	
BRUCEC1000	
BRUCEC2000	
BRUCEC3500	
BRUCEC4500	

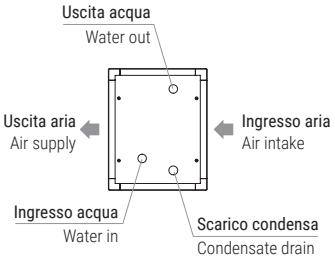
Versione da esterno BRUCECOE e BRUCECVE prezzi a richiesta
Outdoor version BRUCECOE and BRUCECVE prices on request

ACCESSORI | ACCESSORIES

Modello | Model			€
REP		**Regolatore velocità** | Speed control **Consigliati 2 regolatori di velocità per unità** Racommended 2 speed controls for unit	
SMFBRUCEC0700 **SMFBRUCEC1000** **SMFBRUCEC2000** **SMFBRUCEC3545**		**Kit staffe per installazione a soffitto** | Kit brackets fot ceiling mounting	
MSPBRUCEC0700 **MSPBRUCEC1000** **MSPBRUCEC2000** **MSPBRUCEC3545**		**Kit punti di appoggio per installazione verticale** Kit support points for vertical installation	

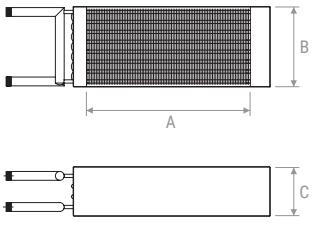
GRUPPO POST TRATTAMENTO ESTIVO | SUMMER COOLING GROUP

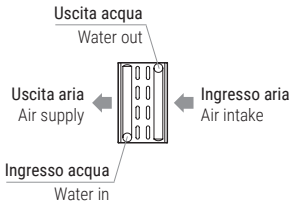




Aria ingresso: 29,5°C - 65% U.R. / Acqua ingresso: 7°C / Acqua uscita: 12°C Air inlet: 29,5°C - 65% U.R. / Water in: 7°C / Water out: 12°C							Dimensioni | Dimensions			
Modello | Model	Temperatura aria uscita Exit air temperature	U.R. aria uscita Exit air relative humidity	Potenzialità Capacity	Portata acqua Water flow	Perdita carico lato aria Air pressure drop	Perdita carico lato acqua Pressure drop water side	Diametro attacchi Diameter water connections	Base gruppo Base group	Altezza gruppo Height group	Spessore gruppo Thickness group	
	°C	%	Kw	mc/h	pa	kpa	pollici | inches	A mm	B mm	C mm	€
BAFREC1000*	16	96	9,21	1,6	73	12,3	3/4	750	370	300	
BAFREC2000	16	93	18,9	3,2	68	26,6	3/4	1100	430	300	
BAFREC3500	16	93	33,1	5,7	62	18,9	1	1400	610	300	
BAFREC4500	17,2	90	42,5	7,3	83	28,3	1	1600	610	300	

BATTERIA POST-RISCALDAMENTO ALTA TEMPERATURA | POST- HEATING HIGH TEMPERATURE COIL

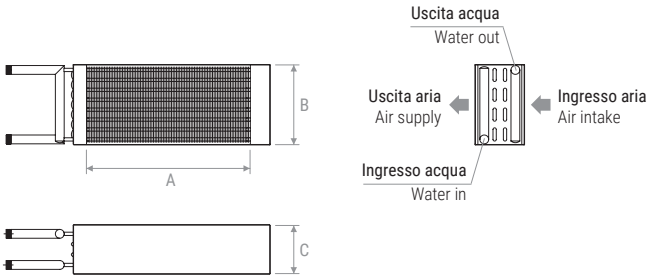




Aria ingresso: 8°C / Acqua ingresso: 70°C / Acqua uscita: 60°C Air inlet: 8°C / Water in: 70°C / Water out: 60°C						Dimensioni | Dimensions			
Modello | Model	Temperatura aria uscita Exit air temperature	Potenzialità Capacity	Portata acqua Water flow	Perdita carico lato aria Air pressure drop	Perdita carico lato acqua Pressure drop water side	Diametro attacchi Diameter water connections	Base passaggio aria Base air passage	Altezza passaggio aria Height air passage	Spessore Thickness air passage	
	°C	Kw	mc/h	pa	kpa	pollici | inches	A mm	B mm	C mm	€
BRATREC1000*	25	8,89	0,8	22	12,8	1/2	500	300	90	
BRATREC2000	25	11,8	1	26	23,6	1/2	600	300	90	
BRATREC3500	25	20,7	1,8	20	16,7	3/4	800	480	100	
BRATREC4500	25	26,6	2,3	27	8	1	1000	480	120	

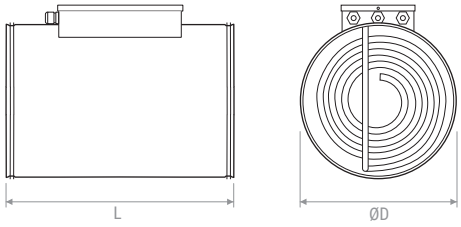
*** Adatto per BRUCEC1000 e BRUCEC700** | Suitable fot BRUCEC1000 and BRUCEC700

BATTERIA POST-RISCALDAMENTO BASSA TEMPERATURA | POST-HEATING LOW TEMPERATURE COIL



Aria ingresso: 8°C / Acqua ingresso: 45°C / Acqua uscita: 40°C Air inlet: 8°C / Water in: 45°C / Water out: 40°C						Dimensioni | Dimensions			
Modello | Model	Temperatura aria uscita Exit air temperature	Potenzialità Capacity	Portata acqua Water flow	Perdita carico lato aria Air pressure drop	Perdita carico lato acqua Pressure drop water side	Diametro attacchi Diameter water connection	Base passaggio aria Base air passage	Altezza passaggio aria Height air passage	Spessore Thickness air passage
	°C	Kw	mc/h	pa	kpa	pollici | inches	A mm	B mm	C mm	€
BRBTREC1000*	30	7,67	1,3	34	7,9	3/4	500	240	150	
BRBTREC2000	30	15,3	2,7	31	12,6	3/4	850	300	150	
BRBTREC3500	30	26,8	4,7	28	15,1	1	1000	480	160	
BRBTREC4500	30	34,4	6	37	10	1½	1300	480	170	

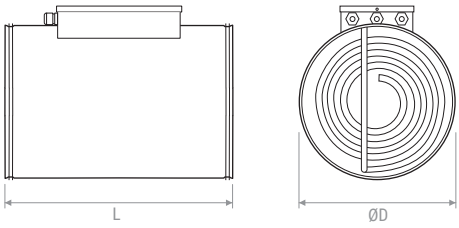
BATTERIA ELETTRICA TRIFASE | ELECTRICAL COIL 400 VOLT



Aria ingresso: 8°C / Alimentazione: 400 Volt - 50 Hz Air inlet: 8°C / Electrical data: 400 Volt - 50 Hz				Dimensioni | Dimensions	
Modello | Model	Temperatura aria uscita Exit air temperature	Potenzialità Capacity	Stadi Levels	Ø D Diametro Diameter	L Lunghezza Lenght
	°C	Kw	NR.	mm	mm	€
BETREC1000*	20	4,5	3	250	370	
BETREC1500	20	6,6	3	355	373	
BETREC2500	20	10,5	3	355	373	
BETREC3500	20	15	3	400	630	

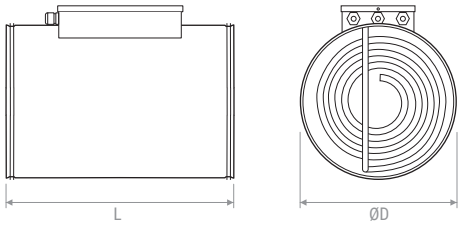
*** Adatto per BRUCEC1000 e BRUCEC700** | Suitable fot BRUCEC1000 and BRUCEC700

BATTERIA ELETTRICA MONOFASE | ELECTRICAL COIL 230 VOLT



Aria ingresso: 8°C / Alimentazione: 230 Volt - 50 Hz Air inlet: 8°C / Electrical data: 230 Volt - 50 Hz				Dimensioni | Dimensions		
Modello | Model	Temperatura aria uscita Exit air temperature	Potenzialità Capacity	Stadi Levels	Ø D Diametro Diameter	L Lunghezza Lenght	
	°C	Kw	NR.	mm	mm	€
BEMREC1000*	20	4,2	3	250	370	
BEMREC1500	20	6,3	3	355	373	
BEMREC2500	20	10,6	3	355	373	
BEMREC3500	20	15	3	400	630	

BATTERIA ELETTRICA TRIFASE AUTOREGOLANTE | ELECTRICAL COIL 400 VOLT SELF-REGULATING

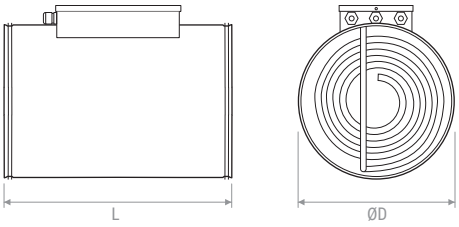


Aria ingresso: 8°C / Alimentazione: 400 Volt - 50 Hz Air inlet: 8°C / Electrical data: 400 Volt - 50 Hz		Dimensioni | Dimensions		
Modello | Model	Potenzialità Capacity	Ø D Diametro Diameter	L Lunghezza Lenght	
	Kw	mm	mm	€
BETREC025006000AR	6	250	370	
BETREC035509000AR	9	355	373	
BETREC035512000AR	12	355	373	
BETREC035515000AR	15	355	373	
BETREC035518000AR	18	355	373	
BETREC040024000AR	24	400	630	

Adatte solo per funzionamento come batterie di pre-riscaldamento | Suitable only for pre-heating battery operating

* Adatto per BRUCEC1000 e BRUCEC700 | Suitable fot BRUCEC1000 and BRUCEC700

BATTERIA ELETTRICA MONOFASE AUTOREGOLANTE | ELECTRICAL COIL 230 VOLT SELF-REGULATING



Aria ingresso: 8°C / Alimentazione: 230 Volt - 50 Hz Air inlet: 8°C / Electrical data: 230 Volt - 50 Hz		Dimensioni | Dimensions		
Modello | Model	Potenzialità Capacity	Ø D Diametro Diameter	L Lunghezza Lenght	
	Kw	mm	mm	€
BEMREC025004200AR	4,2	250	370	
BEMREC025006000AR	6	250	370	

Adatte solo per funzionamento come batterie di pre-riscaldamento | Suitable only for pre-heating battery operating

FILTRI ALTA EFFICIENZA | HIGH EFFICIENCY FILTERS

Modello | Model	Efficienza | Efficiency	€	
GFTBRUC0700	F7 ISO e PM1 > 65 %	105,78	adatto per | suitable for **BRUCEC700**
GFTBRUC1000	F7 ISO e PM1 > 65 %	106,90	adatto per | suitable for **BRUCEC1000**
GFTBRUC1500	F7 ISO e PM1 > 65 %	128,94	adatto per | suitable for **BRUCEC2000**
GFTBRUC2500	F7 ISO e PM1 > 65 %	245,62	adatto per | suitable for **BRUCEC3500**
GFTBRUC3500	F7 ISO e PM1 > 65 %	245,62	adatto per | suitable for **BRUCEC4500**

Installabili nell'unità al posto dei filtri G4 di serie. Prezzo al pezzo | Installable inside the unit instead of G4 series filters. Price for pieces
Adatti per versioni da interno e per BRUCECVE | Suitable for indoor version and for BRUCECVE

Modello | Model	Efficienza | Efficiency	€	
GFTBRUCOE0700	F7 ISO e PM1 > 65 %	105,78	adatto per | suitable for **BRUCECOE700**
GFTBRUCOE1000	F7 ISO e PM1 > 65 %	106,90	adatto per | suitable for **BRUCECOE1000**
GFTBRUCOE1500	F7 ISO e PM1 > 65 %	128,94	adatto per | suitable for **BRUCECOE2000**
GFTBRUCOE2500	F7 ISO e PM1 > 65 %	245,62	adatto per | suitable for **BRUCECOE3500**
GFTBRUCOE3500	F7 ISO e PM1 > 65 %	245,62	adatto per | suitable for **BRUCECOE4500**

Installabili nell'unità al posto dei filtri G4 di serie. Prezzo al pezzo | Installable inside the unit instead of G4 series filters. Price for pieces
Adatti per BRUCECOE | Suitable for BRUCECOE

SET FILTRI G4 | G4 SET FILTER

Modello | Model	Efficienza | Efficiency	€
FABRUCEC0700	G4 ISO COARSE > 65 %	
FABRUCEC1000	G4 ISO COARSE > 65 %	
FABRUCEC2000	G4 ISO COARSE > 65 %	
FABRUCEC3500	G4 ISO COARSE > 65 %	
FABRUCEC4500	G4 ISO COARSE > 65 %	

Prezzo per set di 2 filtri | Price for set of 2 filters
Adatti per versioni da interno e per BRUCECVE
Suitable for indoor version and for BRUCECVE

Modello | Model	Efficienza | Efficiency	€
FABRUCECOE0700	G4 ISO COARSE > 65 %	
FABRUCECOE1000	G4 ISO COARSE > 65 %	
FABRUCECOE2000	G4 ISO COARSE > 65 %	
FABRUCECOE3500	G4 ISO COARSE > 65 %	
FABRUCECOE4500	G4 ISO COARSE > 65 %	

Prezzo per set di 2 filtri | Price for set of 2 filters
Adatti per BRUCECOE | Suitable for BRUCECOE

SISTEMA DI REGOLAZIONE BASE | BASIC CONTROL SYSTEM

	CTRDSPRF	CTRTSMART
Controllo velocità | Speed control	•	•
Contollo by-pass | By-pass control	•	•
Intasamento filtri | Clogging filter	•	•
Comunicazione MODBUS 485 | MODBUS485 communication	•	•
Impostazione velocità | Speed setting	•	•
ON/OFF	•	•
Allarmi puntuali | Specific allarms	•	•
Programmazione giornaliera / settimanale | Daily / weekly programming timer	•	•
Controllo velocità ventilatori da sonda CO_2 posta a display Fan control speed from CO_2 probe installed on display		•
Controllo velocità ventilatori da sonda umidità posta a display Control fan speed from humidity probe installed on display		•
Connessione wi-fi network | Connection to wi-fi network		•

Le protezioni elettriche per i componenti di potenza posti all'interno delle unità sono a carico dell'installatore secondo le leggi dei singoli paesi.
Electrical protections for power components inside the units are the responsibility of the installer according to the laws of the each countries.

SISTEMA DI REGOLAZIONE AVANZATI | ADVANCED CONTROL SYSTEM

CTRBTRI (sistema controllo batteria idronica) | (hydronic coil control system)
- **Controllo temperatura a punto fisso in mandata** | Fixed point temperature control in supply
- **Selezione stagione** | Season selection

CTRBTRE (sistema controllo batteria elettrica) | (electric battery control system)
- **Controllo temperatura a punto fisso in mandata** | Fixed point temperature control in supply
- **Segnale attivazione batteria** | coil activation signal

CTRRH (sistema controllo in funzione della U.R.) **con sonda interna unità** | (control system in function of R.H.) with probe internal unit
- **Controllo velocità ventilatori da R.H. solo per CTRDSPRF** | Control fan speed by R.H. only for CTRDSPRF

CTRCO2 (sistema controllo in funzione della CO^2) **con sonda posta in ambiente** | (control system in function of CO^2) with probe installed in the room
- **Controllo velocità ventilatori da CO_2 solo per CTRDSPRF** | Control fan speed by CO_2 only for CTRDSPRF

CTRBTRI e CTRBRE non possono essere gestiti in contemporanea | CTRBTRI and CTRBRE cannot be managed simultaneously
CTRRH e CTRCO2 non possono essere gestiti in contemporanea | CTRRH and CTRCO2 cannot be managed simultaneously

COMPOSIZIONE SISTEMI DI REGOLAZIONE | CONTROL SYSTEMS COMPOSITION

Modello | Model	Elenco componenti | List of components	€
CTRDSPRF	**Scheda elettronica** | PCB **Sonde temperatura interne** | Internal temperature probes **Cablaggio e collaudo sistema** | Wiring and system commissioning **Pannello di comando remoto wireless** | Wireless remote control panel	
CTRTSMART	**Scheda elettronica** | PCB **Sonde temperatura interne** | Internal temperature probes **Cablaggio e collaudo sistema** | Wiring and system commissioning **Pannello di comando remoto wireless touch screen** Wireless remote control panel touch screen	

Modello | Model		Elenco componenti | List of components	€
CTRBTRI		**Valvola a 3 vie** | 3-way valve **Servomotore controllo valvola** | Valve control servomotor **Sonda temperatura da canale** | Duct temperature probe **Cablaggio e collaudo sistema** | Wiring and system commissioning	
CTRBTRE		**Modulo segnale controllo Q.E. potenza batteria elettrica** Control signal module Q.E. battery power electric **Sonda temperatura da canale** | Duct temperature probe **Cablaggio e collaudo sistema** | Wiring and system commissioning	
CTRRH		**Modulo controllo U.R.** | Control module R.H. **Sonda U.R. interna unità** | Internal R.H.. probe unit **Cablaggio e collaudo sistema** | Wiring and system commissioning	
CTRCO2		**Modulo controllo CO_2** | Control module CO_2 **Modulo rilevazione CO_2 ambiental wireless** Wireless ambient CO_2 detection module **Cablaggio e collaudo sistema** | Wiring and system commissioning	

CTRBTRE per funzionare deve essere accoppiato ad un quadro di potenza (vedi sotto BRUCQE) che può anche essere eseguito dall'installatore elettrico su schema Brofer.
To function CTRBTRE must be coupled to a power panel (see below BRUCQE) which can also be made by the electrical installer on the Brofer scheme

QUADRO ELETTRICO POTENZA BATTERIE ELETTRICA | POWER ELECTRIC BOX ELECTRIC BATTERY

Modello | Model	Kw	€
BRUCQE45	4,5	
BRUCQE66	6,6	
BRUCQE105	10,5	
BRUCQE150	15	