

BRUCEC

BRUCEC**700**

BRUCEC**1000**

BRUCEC**2000**

BRUCEC**3500**

BRUCEC**4500**

BRUCEC**6000**

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). Centrifughi a doppia aspirazione a pale rovesce con motore EC Brushless direttamente accoppiato (BRUCEC6000).

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 with frequency converter. Modbus interface (models BRUCEC2000, BRUCEC3500, BRUCEC4500). Double - inlet centrifugal fan with back ward curved blades and directly coupled Brushless EC motor (BRUCEC6000).

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	BRUCEC6000
Portata aria (mc/h) | Nominal air flow (mc/h)	700	1000	2000	3500	4500	6000
Pressione statica utile (pa) | Useful static pressure (pa)	110	190	390	240	350	170
VENTILATORE DIRETTAMENTE ACCOPPIATO (dati per singolo ventilatore) | FANS (data for each fan)						
Potenza nominale (w) | Installed power (W)	113	207	1050	1050	2000	2600
I nominale (A) | Current (A)	0,8	1,4	4,51	4,53	9,52	3,7
Tensione (V) | Rated voltage (V)	230	230	230	230	230	400
Frequenza (Hz) | Frequency (HZ)	50	50	50	50	50	50
Velocità (nr) | Speeds (nr)	1	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
BRUCEC6000	79,5	4500	170	1224	1287,5	2,85	55	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
BRUCEC6000	78,7	82,4	74,6	66,4	59,9	51,6	52,4	75,8

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

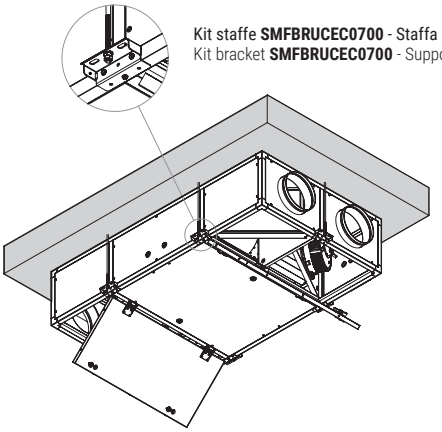
Modello Model	Dati misurati alla massima velocità | Data measured at maximum speed Frequenza | Frequency (Hz)							
	125	250	500	1000	2000	4000	8000	LwdB(A)
BRUCEC700	61,9	69,5	62,4	57,2	56,7	52,9	63,2	67,3
BRUCEC1000	64,2	73	66,7	60,6	61,9	56,4	65,3	70,6
BRUCEC2000	72,4	83,2	77,1	77,4	72,2	67,1	75,2	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
BRUCEC6000	80,1	85,4	84,6	82,1	77,6	76,5	79,7	82,3

DISEGNI | DRAWINGS

BRUCEC700

INSTALLAZIONE ORIZZONTALE | HORIZONTAL INSTALLATION

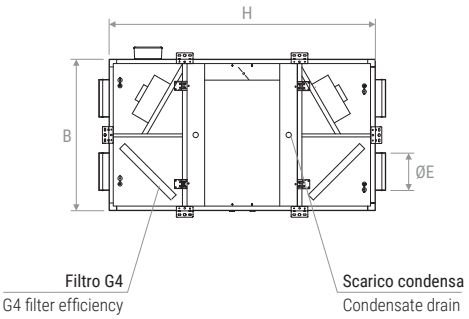
PESO | WEIGHT: **135 kg**



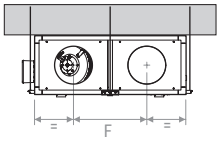
Kit staffe **SMFBRUCEC0700** - Staffa di sostegno asolate Ø9 (optional)
Kit bracket **SMFBRUCEC0700** - Support bracket with slot Ø9 (optional)

Le viti da utilizzare per il fissaggio della staffa all'unità sono auto-foranti 4,8x25 mm con testa esagonale (non comprese)
The screws to be used to fix the bracket to the unit are 4.8x25 mm self-drilling screws with hex heads (not included)

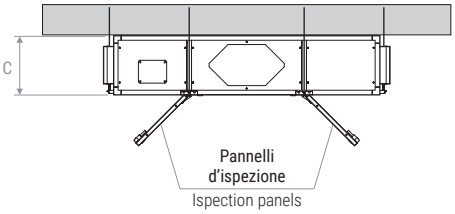
Vista dal basso | Bottom view



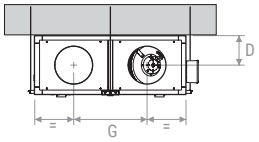
Vista frontale | Front view



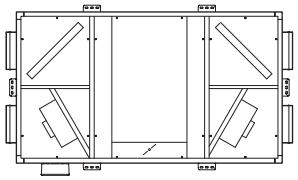
Vista laterale | Side view



Vista posteriore | Rear view



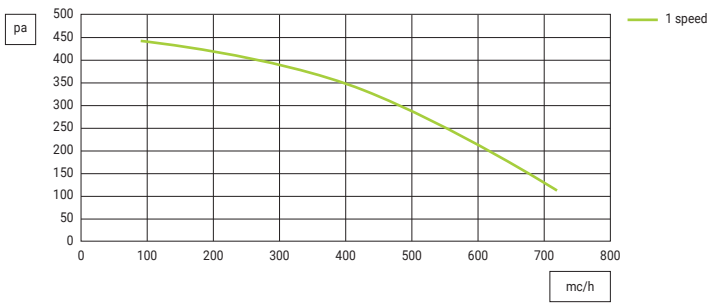
Vista dall'alto | Top view



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

DIAGRAMMI PRESTAZIONALI | PERFORMANCE CHARTS

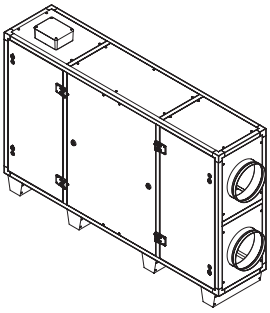
Pressione statica utile
Useful static pressure



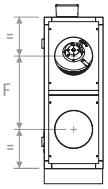
DISEGNI | DRAWINGS

BRUCEC700

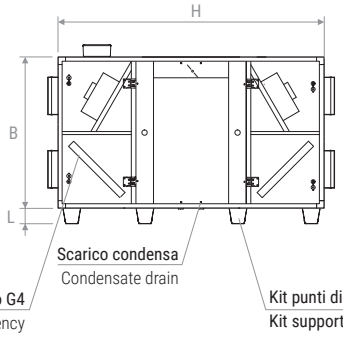
INSTALLAZIONE VERTICALE | VERTICAL INSTALLATION



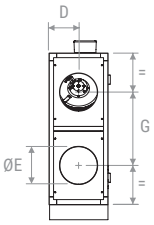
Vista laterale destra
Right side view



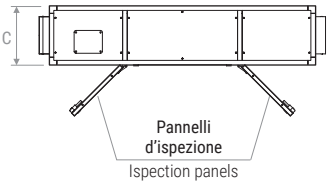
Lato ispezione
Inspection side



Vista laterale sinistra
Left side view



Vista superiore | Upper view



	H	B	C	D	ØE	F	G	L
mm	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.

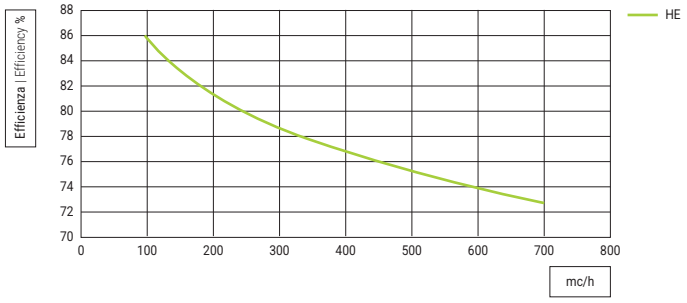
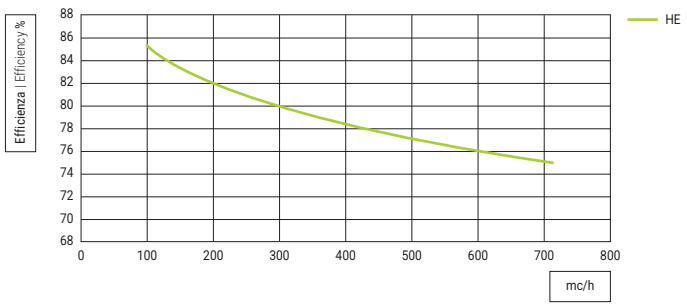


Diagramma efficienza invernale
Aria esterna: - 5 °C / 80 % U.R.
Aria ambiente: 20 °C / 50 % U.R.
Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.



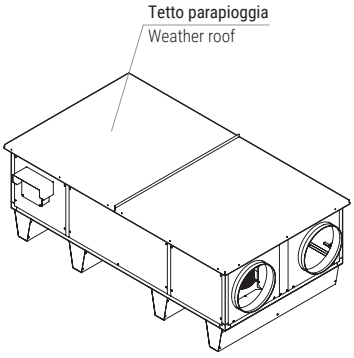
PROFESSIONAL

DISEGNI | DRAWINGS

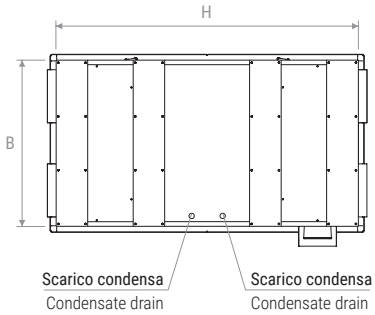
BRUCEC700

INSTALLAZIONE ORIZZONTALE ESTERNO | HORIZONTAL EXTERNAL INSTALLATION

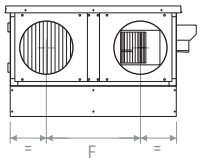
PESO | WEIGHT: **145 kg**



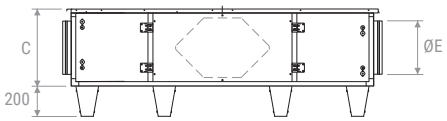
Vista dal basso | Bottom view



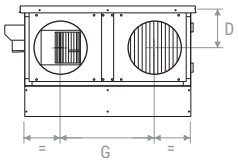
Vista frontale | Front view



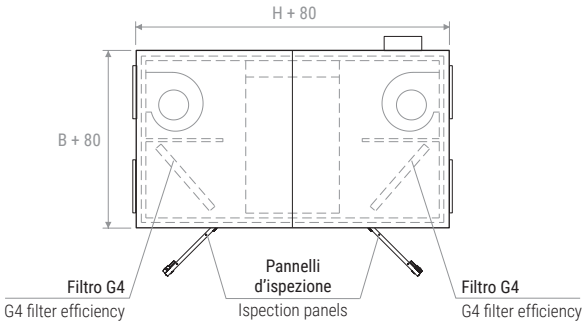
Vista laterale | Side view



Vista posteriore | Rear view

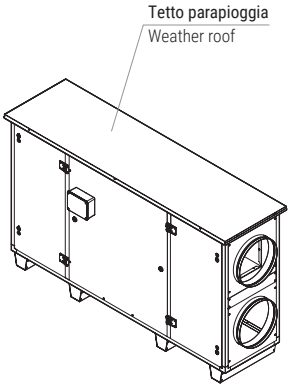


Vista dall'alto | Top view

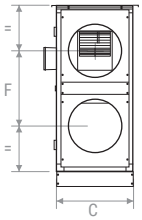


	H	B	C	D	ØE	F	G
mm	1760	1000	390	195	250	485	485

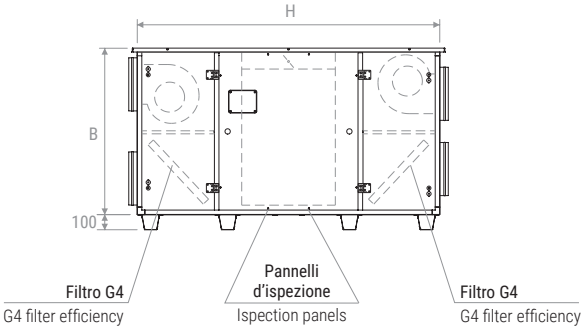
INSTALLAZIONE VERTICALE ESTERNO | VERTICAL EXTERNAL INSTALLATION



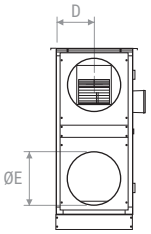
Vista frontale | Front view



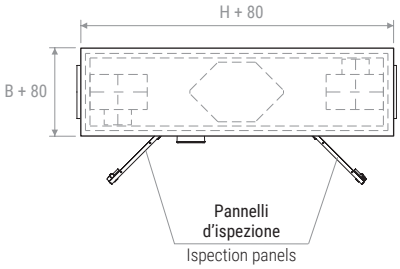
Lato ispezione | Inspection side



Vista posteriore | Rear view



Vista superiore | Upper view



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

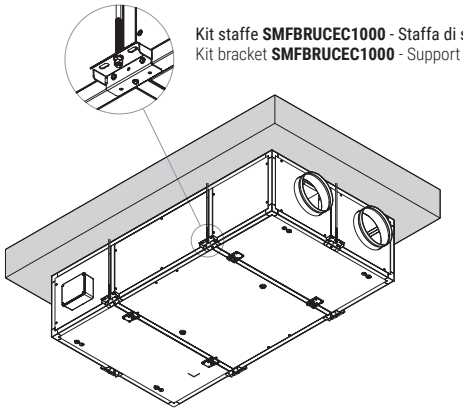
PROFESSIONAL

DISEGNI | DRAWINGS

BRUCEC1000

INSTALLAZIONE ORIZZONTALE | HORIZONTAL INSTALLATION

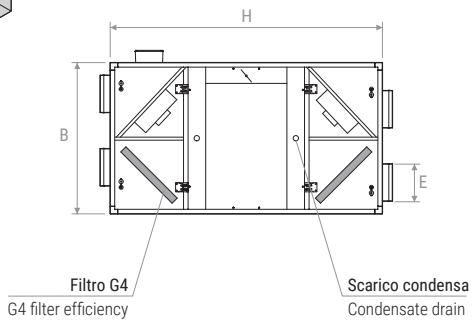
PESO | WEIGHT: **150 kg**



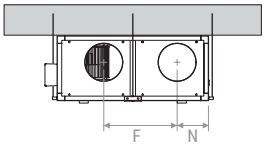
Kit staffe **SMFBRUCEC1000** - Staffa di sostegno asolate Ø9 (optional)
Kit bracket **SMFBRUCEC1000** - Support bracket with slot Ø9 (optional)

Le viti da utilizzare per il fissaggio della staffa all'unità sono auto-foranti 4,8x25 mm con testa esagonale (non comprese)
The screws to be used to fix the bracket to the unit are 4.8x25 mm self-drilling screws with hex heads (not included)

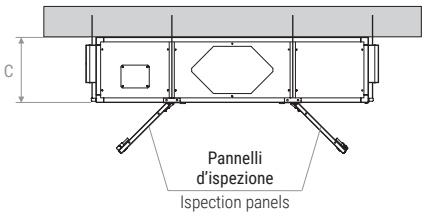
Vista dal basso | Bottom view



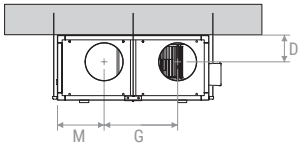
Vista frontale | Front view



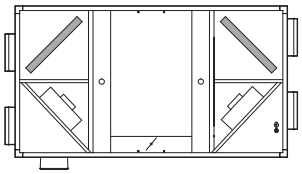
Vista laterale | Side view



Vista posteriore | Rear view



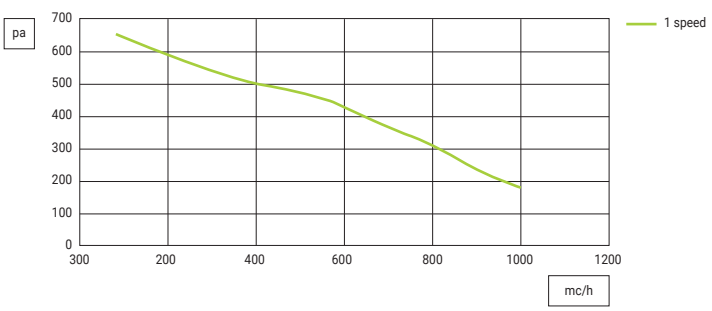
Vista dall'alto | Top view



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

DIAGRAMMI PRESTAZIONALI | PERFORMANCE CHARTS

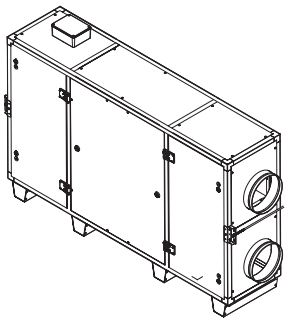
Pressione statica utile
Useful static pressure



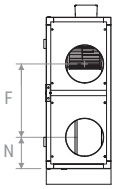
DISEGNI | DRAWINGS

BRUCEC1000

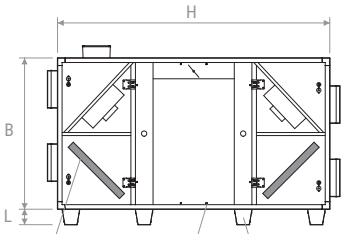
INSTALLAZIONE VERTICALE | VERTICAL INSTALLATION



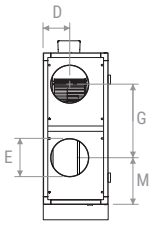
Vista laterale destra
Right side view



Lato ispezione
Inspection side



Vista laterale sinistra
Left side view

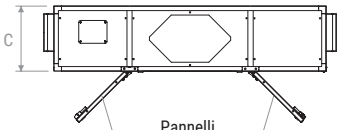


Scarico condensa
Condensate drain

Filtro G4
G4 filter efficiency

Kit punti di appoggio **MSPBRUCEC1000**
Kit support points **MSPBRUCEC1000**

Vista superiore | Upper view



Pannelli d'ispezione
Ispection panels

	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.

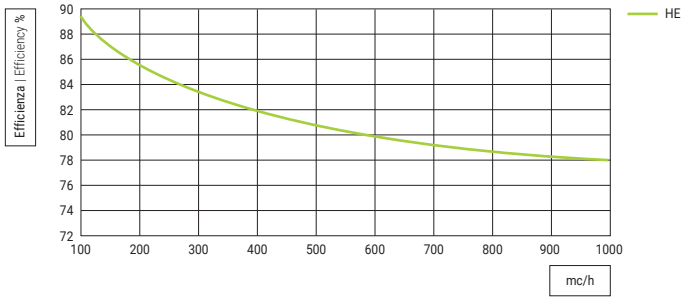
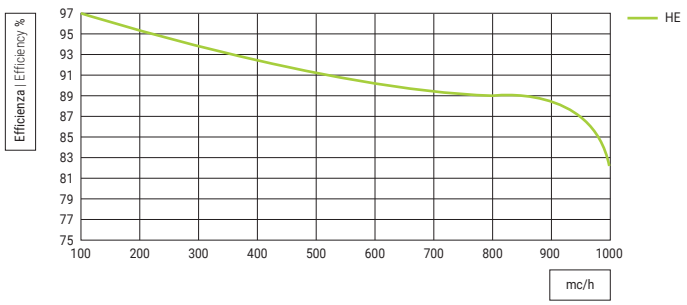


Diagramma efficienza invernale
Aria esterna: - 5 °C / 80 % U.R.
Aria ambiente: 20 °C / 50 % U.R.
Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.



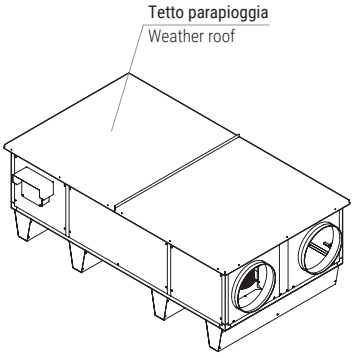
PROFESSIONAL

DISEGNI | DRAWINGS

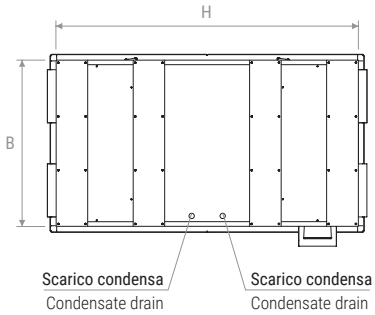
BRUCEC1000

INSTALLAZIONE ORIZZONTALE ESTERNO | HORIZONTAL EXTERNAL INSTALLATION

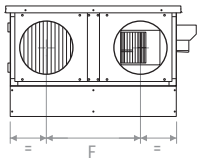
PESO | WEIGHT: **160 kg**



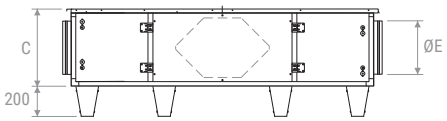
Vista dal basso | Bottom view



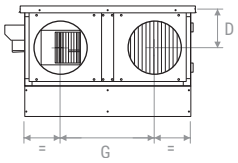
Vista frontale | Front view



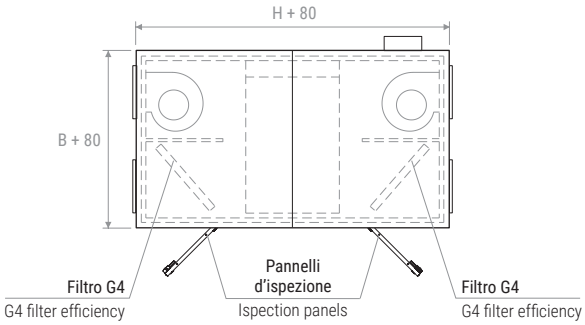
Vista laterale | Side view



Vista posteriore | Rear view

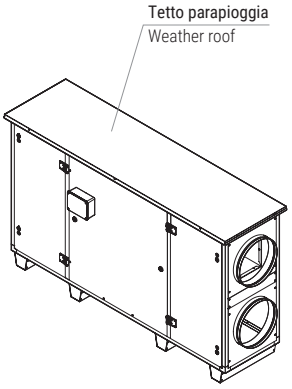


Vista dall'alto | Top view

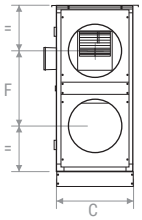


	H	B	C	D	ØE	F	G
mm	1800	1000	430	175	250	485	485

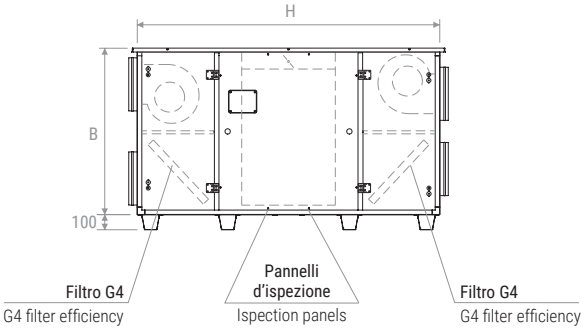
INSTALLAZIONE VERTICALE ESTERNO | VERTICAL EXTERNAL INSTALLATION



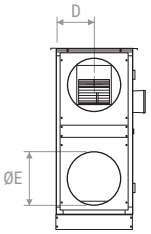
Vista frontale | Front view



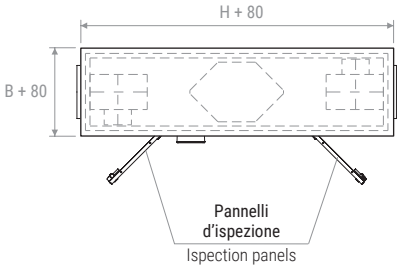
Lato ispezione | Inspection side



Vista posteriore | Rear view



Vista superiore | Upper view



	H	B	C	D	ØE	F	G
mm	1800	1000	430	175	250	485	485

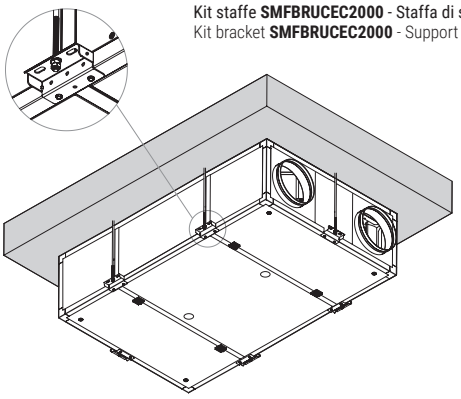
PROFESSIONAL

DISEGNI | DRAWINGS

BRUCEC2000

INSTALLAZIONE ORIZZONTALE | HORIZONTAL INSTALLATION

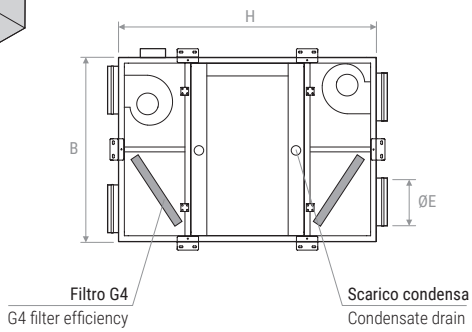
PESO | WEIGHT: **215 kg**



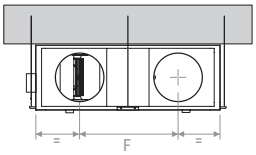
Kit staffe **SMFBRUCEC2000** - Staffa di sostegno asolate Ø9 (optional)
Kit bracket **SMFBRUCEC2000** - Support bracket with slot Ø9 (optional)

Le viti da utilizzare per il fissaggio della staffa all'unità sono **auto-foranti 4,8x25 mm con testa esagonale (non comprese)**
The screws to be used to fix the bracket to the unit are 4.8x25 mm self-drilling screws with hex heads (not included)

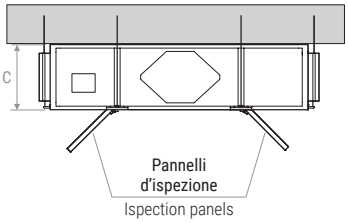
Vista dal basso | Bottom view



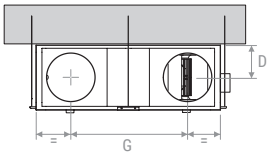
Vista frontale | Front view



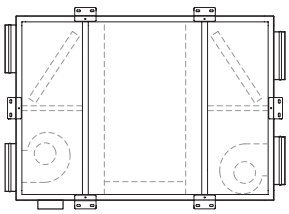
Vista laterale | Side view



Vista posteriore | Rear view



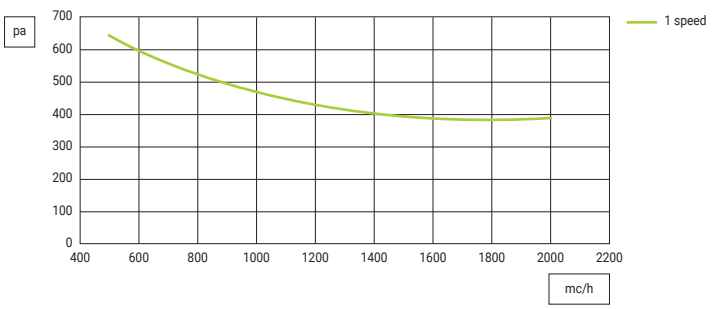
Vista dall'alto | Top view



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

DIAGRAMMI PRESTAZIONALI | PERFORMANCE CHARTS

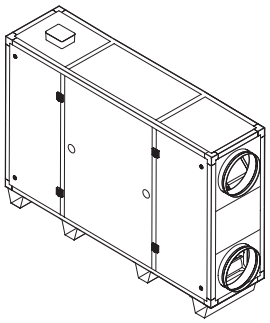
Pressione statica utile
Useful static pressure



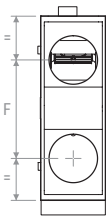
DISEGNI | DRAWINGS

BRUCEC2000

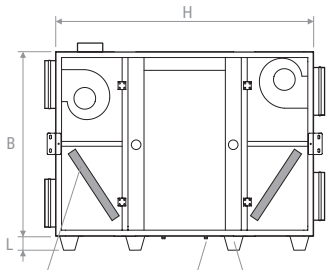
INSTALLAZIONE VERTICALE | VERTICAL INSTALLATION



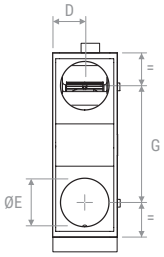
Vista laterale destra
Right side view



Lato ispezione
Inspection side



Vista laterale sinistra
Left side view

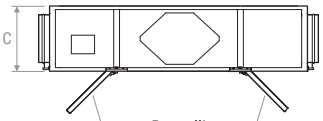


Filtro G4
G4 filter efficiency

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.

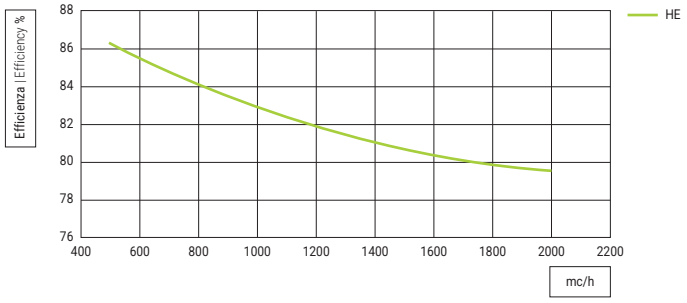
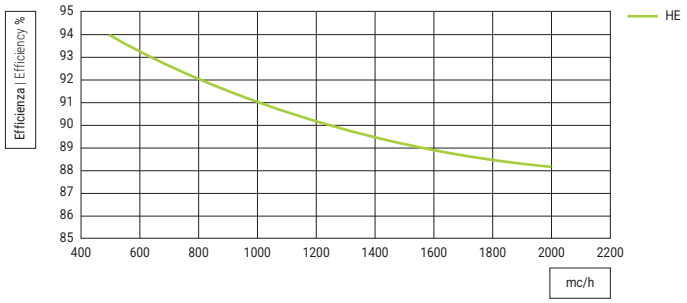


Diagramma efficienza invernale
Aria esterna: - 5 °C / 80 % U.R.
Aria ambiente: 20 °C / 50 % U.R.
Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.



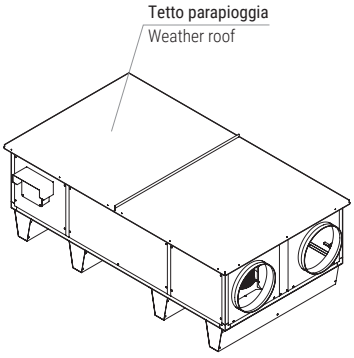
PROFESSIONAL

DISEGNI | DRAWINGS

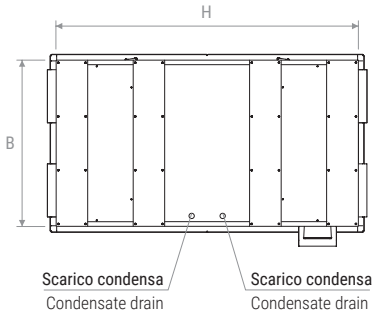
BRUCEC2000

INSTALLAZIONE ORIZZONTALE ESTERNO | HORIZONTAL EXTERNAL INSTALLATION

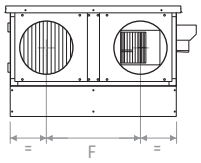
PESO | WEIGHT: **225 kg**



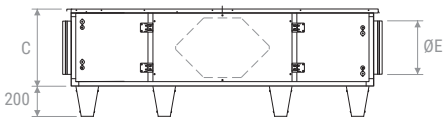
Vista dal basso | Bottom view



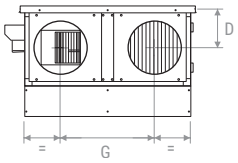
Vista frontale | Front view



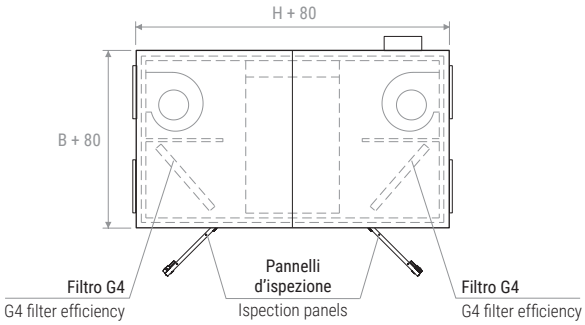
Vista laterale | Side view



Vista posteriore | Rear view

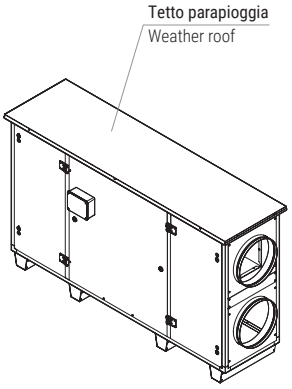


Vista dall'alto | Top view

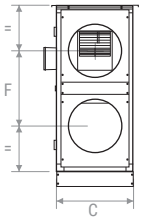


	H	B	C	D	ØE	F	G
mm	2000	1100	510	255	355	498	622

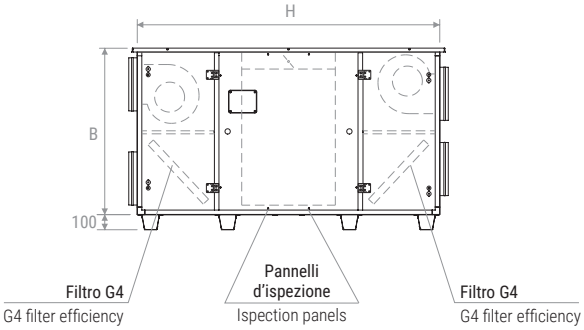
INSTALLAZIONE VERTICALE ESTERNO | VERTICAL EXTERNAL INSTALLATION



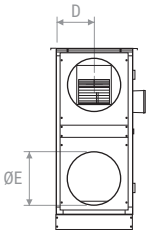
Vista frontale | Front view



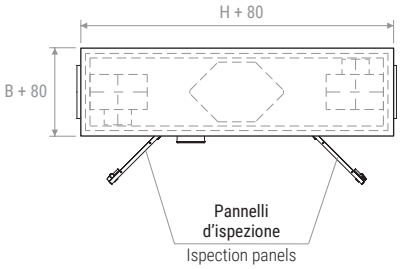
Lato ispezione | Inspection side



Vista posteriore | Rear view



Vista superiore | Upper view



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

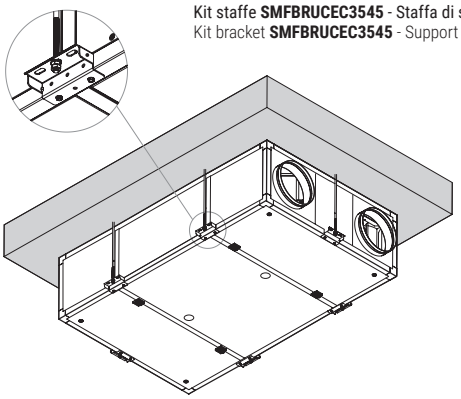
PROFESSIONAL

DISEGNI | DRAWINGS

BRUCEC3500

INSTALLAZIONE ORIZZONTALE | HORIZONTAL INSTALLATION

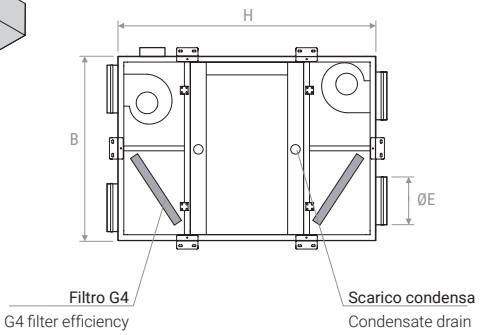
PESO | WEIGHT: **360 kg**



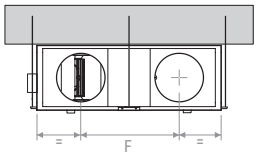
Kit staffe **SMFBRUCEC3545** - Staffa di sostegno asolate Ø9 (optional)
Kit bracket **SMFBRUCEC3545** - Support bracket with slot Ø9 (optional)

Le viti da utilizzare per il fissaggio della staffa all'unità sono auto-foranti 4,8x25 mm con testa esagonale (non comprese)
The screws to be used to fix the bracket to the unit are 4.8x25 mm self-drilling screws with hex heads (not included)

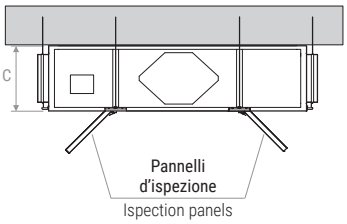
Vista dal basso | Bottom view



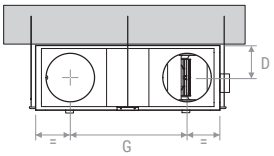
Vista frontale | Front view



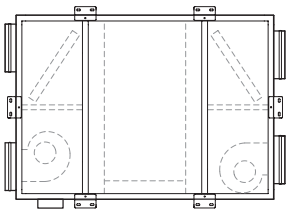
Vista laterale | Side view



Vista frontale | Front view



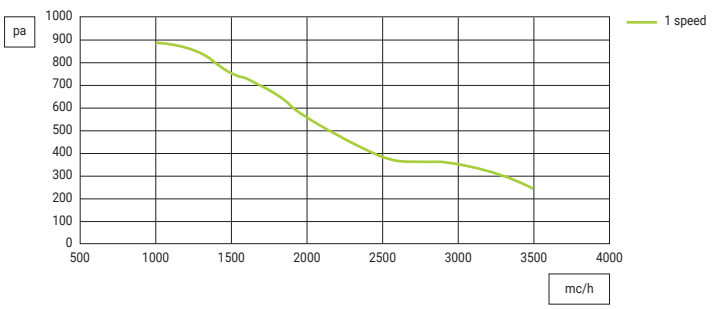
Vista dall'alto | Top view



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

DIAGRAMMI PRESTAZIONALI | PERFORMANCE CHARTS

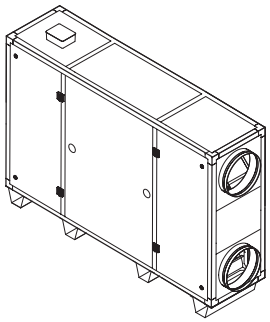
Pressione statica utile
Useful static pressure



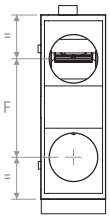
DISEGNI | DRAWINGS

BRUCEC3500

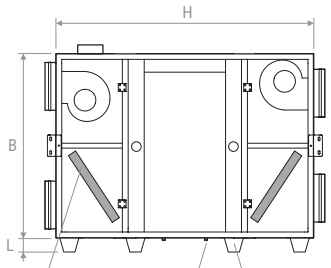
INSTALLAZIONE VERTICALE | VERTICAL INSTALLATION



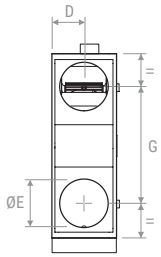
Vista laterale destra
Right side view



Lato ispezione
Inspection side



Vista laterale sinistra
Left side view

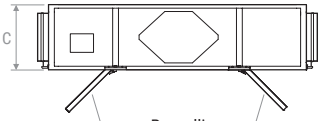


Filtro G4
G4 filter efficiency

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	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.

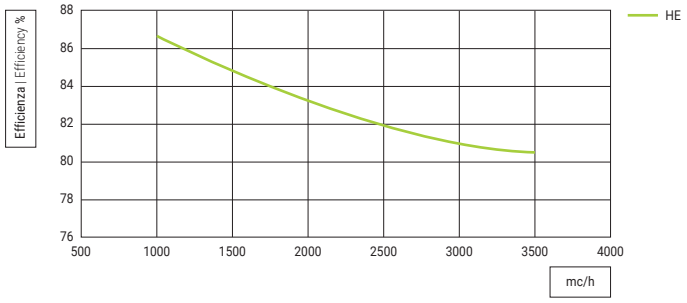
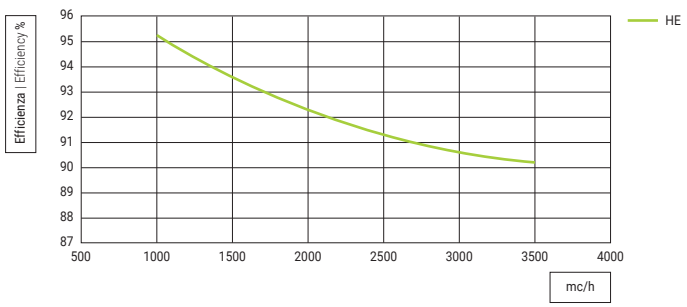


Diagramma efficienza invernale
Aria esterna: - 5 °C / 80 % U.R.
Aria ambiente: 20 °C / 50 % U.R.
Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.



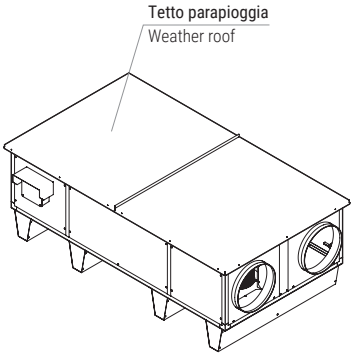
PROFESSIONAL

DISEGNI | DRAWINGS

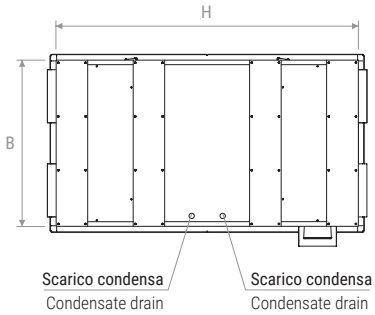
BRUCEC3500

INSTALLAZIONE ORIZZONTALE ESTERNO | HORIZONTAL EXTERNAL INSTALLATION

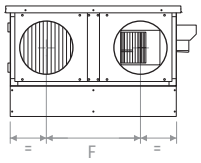
PESO | WEIGHT: **370 kg**



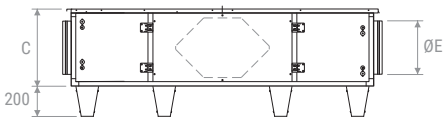
Vista dal basso | Bottom view



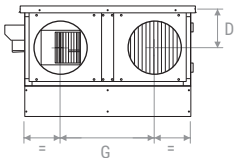
Vista frontale | Front view



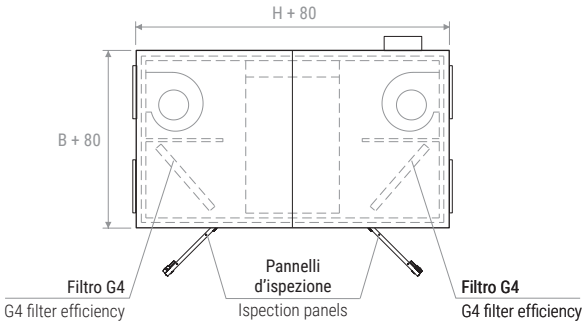
Vista laterale | Side view



Vista posteriore | Rear view



Vista dall'alto | Top view

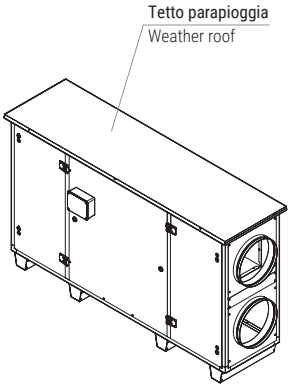


	H	B	C	D	ØE	F	G
mm	2250	1400	650	365	355	860	860

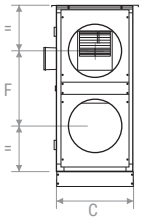
DISEGNI | DRAWINGS

BRUCEC3500

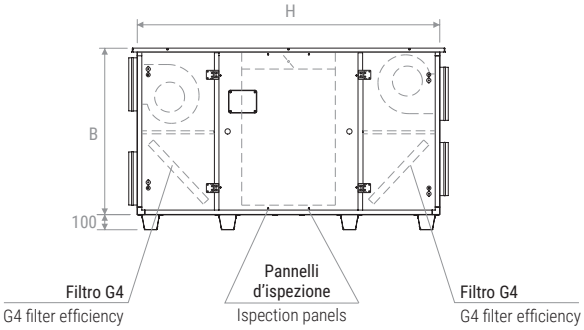
INSTALLAZIONE VERTICALE ESTERNO | VERTICAL EXTERNAL INSTALLATION



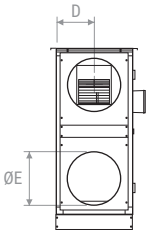
Vista frontale | Front view



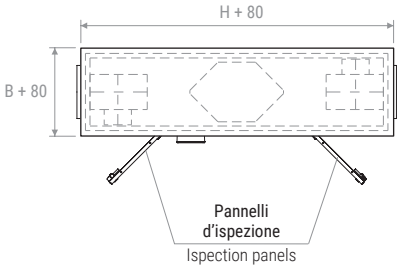
Lato ispezione | Inspection side



Vista posteriore | Rear view



Vista superiore | Upper view



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

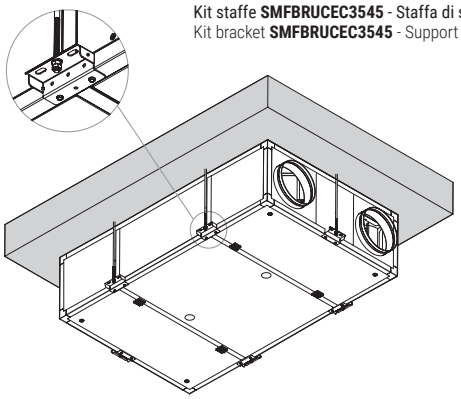
PROFESSIONAL

DISEGNI | DRAWINGS

BRUCEC4500

INSTALLAZIONE ORIZZONTALE | HORIZONTAL INSTALLATION

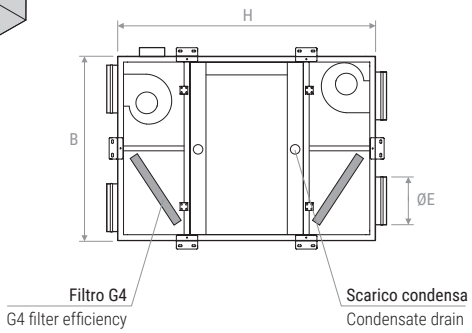
PESO | WEIGHT: **400 kg**



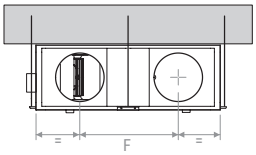
Kit staffe **SMFBRUCEC3545** - Staffa di sostegno asolate Ø9 (optional)
Kit bracket **SMFBRUCEC3545** - Support bracket with slot Ø9 (optional)

Le viti da utilizzare per il fissaggio della staffa all'unità sono **auto-foranti 4,8x25 mm con testa esagonale (non comprese)**
The screws to be used to fix the bracket to the unit are 4.8x25 mm self-drilling screws with hex heads (not included)

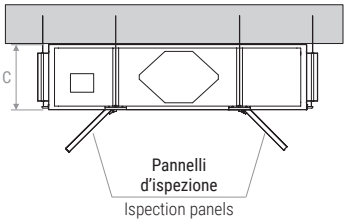
Vista dal basso | Bottom view



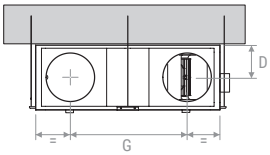
Vista frontale | Front view



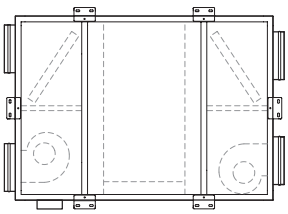
Vista laterale | Side view



Vista posteriore | Rear view



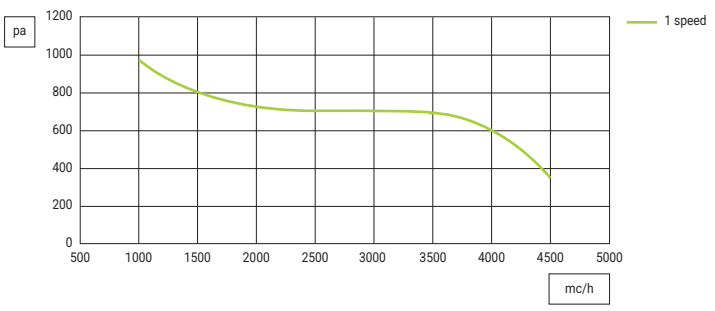
Vista dall'alto | Top view



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

DIAGRAMMI PRESTAZIONALI | PERFORMANCE CHARTS

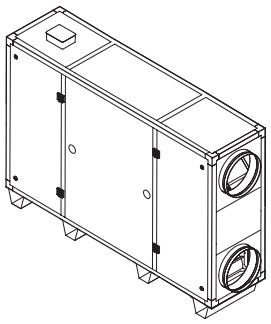
Pressione statica utile
Useful static pressure



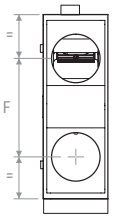
DISEGNI | DRAWINGS

BRUCEC4500

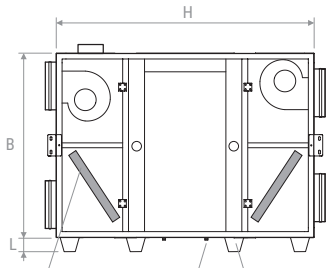
INSTALLAZIONE VERTICALE | VERTICAL INSTALLATION



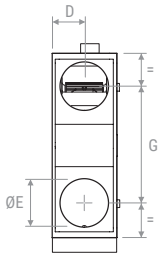
Vista laterale destra
Right side view



Lato ispezione
Inspection side



Vista laterale sinistra
Left side view

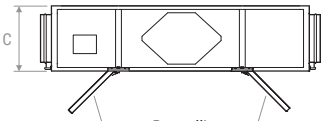


Filtro G4
G4 filter efficiency

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.

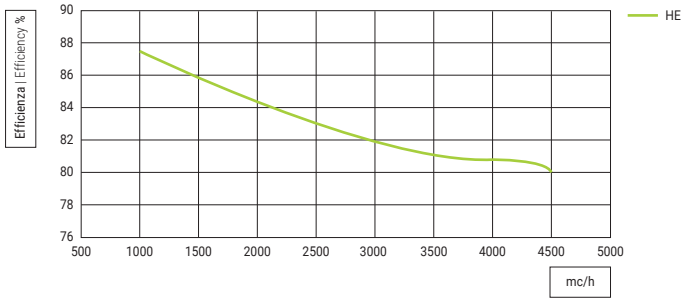
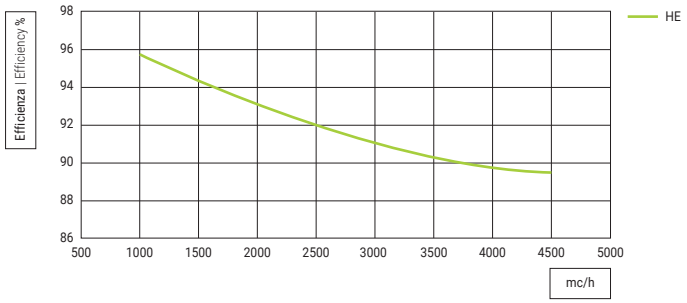


Diagramma efficienza invernale
Aria esterna: - 5 °C / 80 % U.R.
Aria ambiente: 20 °C / 50 % U.R.
Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.



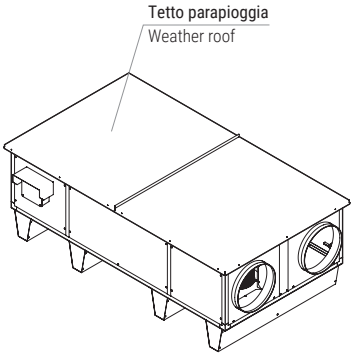
PROFESSIONAL

DISEGNI | DRAWINGS

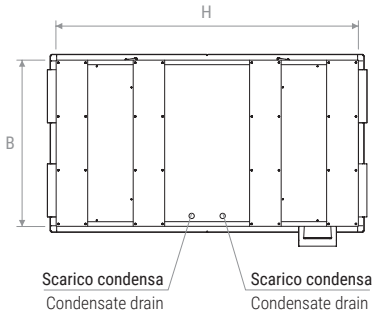
BRUCEC4500

INSTALLAZIONE ORIZZONTALE ESTERNO | HORIZONTAL EXTERNAL INSTALLATION

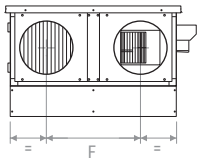
PESO | WEIGHT: **410 kg**



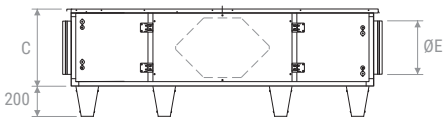
Vista dal basso | Bottom view



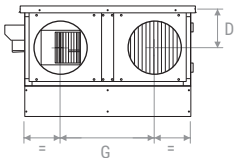
Vista frontale | Front view



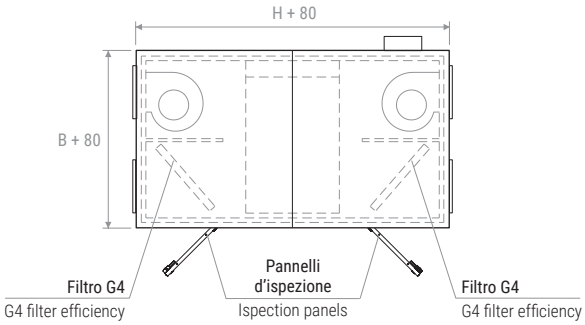
Vista laterale | Side view



Vista posteriore | Rear view

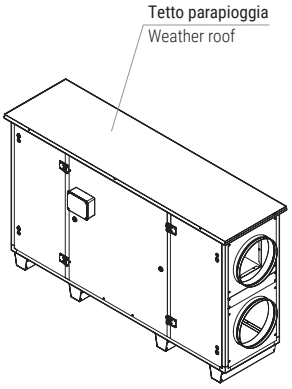


Vista dall'alto | Top view

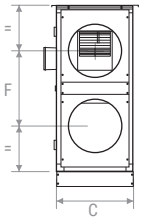


	H	B	C	D	ØE	F	G
mm	2500	1650	650	365	400	985	985

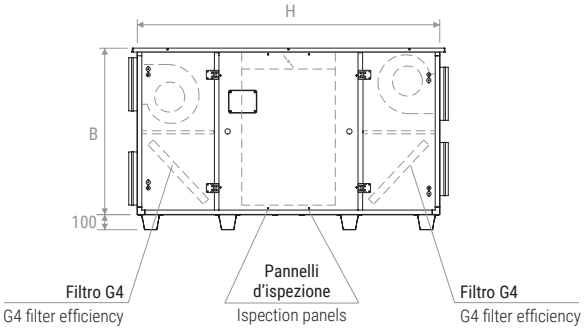
INSTALLAZIONE VERTICALE ESTERNO | VERTICAL EXTERNAL INSTALLATION



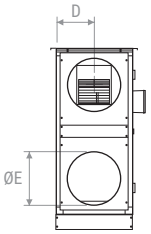
Vista frontale | Front view



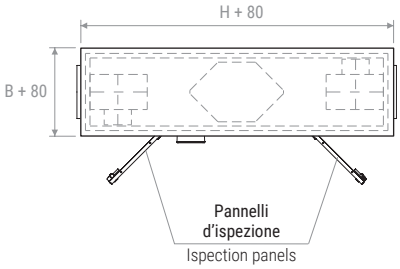
Lato ispezione | Inspection side



Vista posteriore | Rear view



Vista superiore | Upper view



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

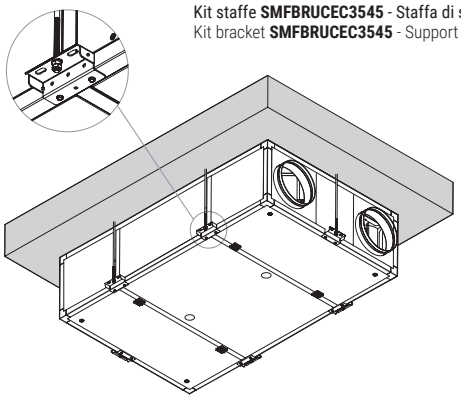
PROFESSIONAL

DISEGNI | DRAWINGS

BRUCEC6000

INSTALLAZIONE ORIZZONTALE | HORIZONTAL INSTALLATION

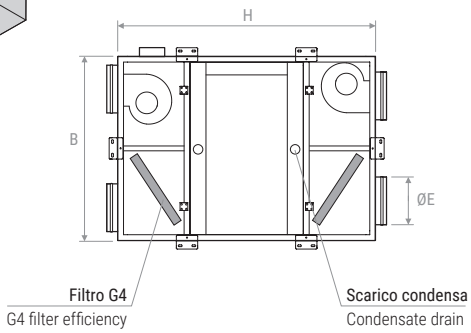
PESO | WEIGHT: **450 kg**



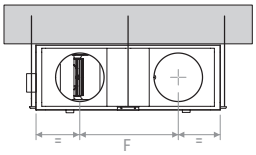
Kit staffe **SMFBRUCEC3545** - Staffa di sostegno asolate Ø9 (optional)
Kit bracket **SMFBRUCEC3545** - Support bracket with slot Ø9 (optional)

Le viti da utilizzare per il fissaggio della staffa all'unità sono auto-foranti 4,8x25 mm con testa esagonale (non comprese)
The screws to be used to fix the bracket to the unit are 4.8x25 mm self-drilling screws with hex heads (not included)

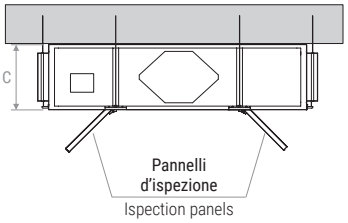
Vista dal basso | Bottom view



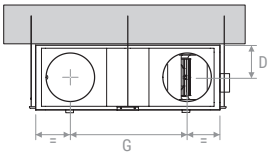
Vista frontale | Front view



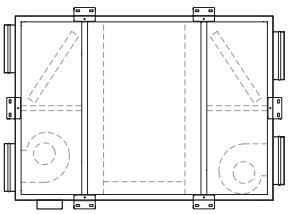
Vista laterale | Side view



Vista posteriore | Rear view



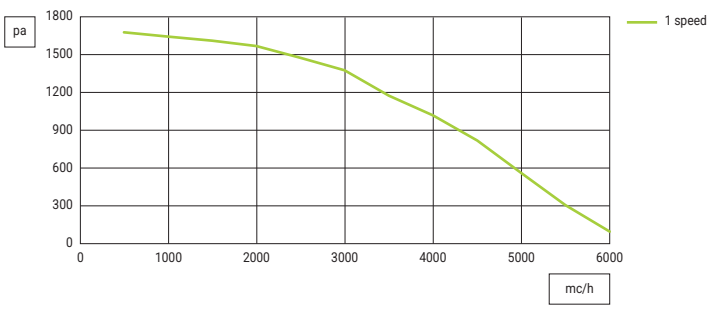
Vista dall'alto | Top view



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

DIAGRAMMI PRESTAZIONALI | PERFORMANCE CHARTS

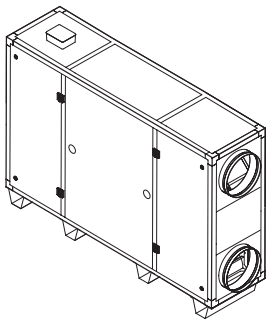
Pressione statica utile
Useful static pressure



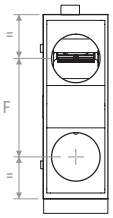
DISEGNI | DRAWINGS

BRUCEC6000

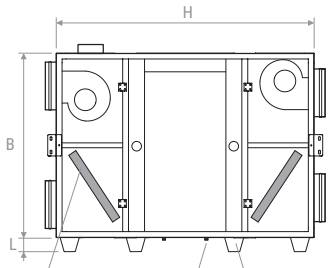
INSTALLAZIONE VERTICALE | VERTICAL INSTALLATION



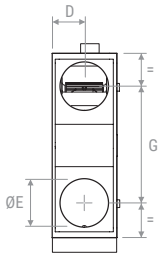
Vista laterale destra
Right side view



Lato ispezione
Inspection side



Vista laterale sinistra
Left side view

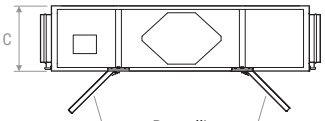


Filtro G4
G4 filter efficiency

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.

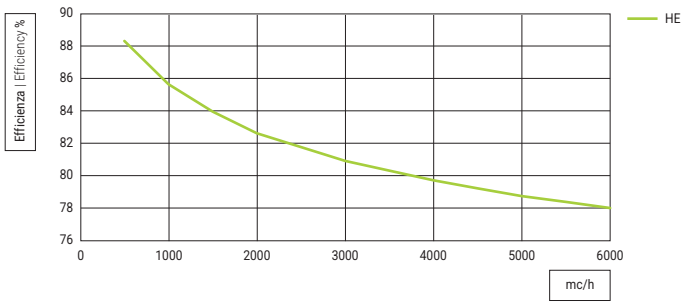
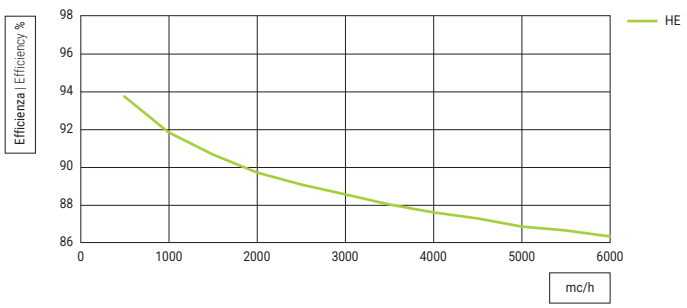


Diagramma efficienza invernale
Aria esterna: - 5 °C / 80 % U.R.
Aria ambiente: 20 °C / 50 % U.R.
Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.



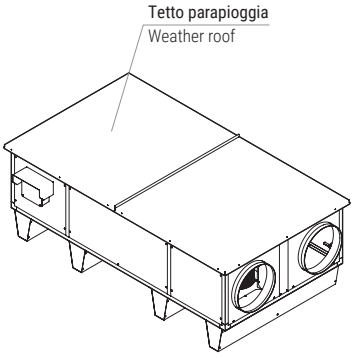
PROFESSIONAL

DISEGNI | DRAWINGS

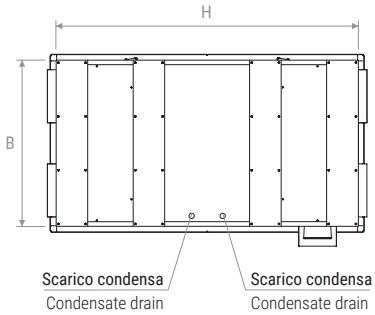
BRUCEC6000

INSTALLAZIONE ORIZZONTALE ESTERNO | HORIZONTAL EXTERNAL INSTALLATION

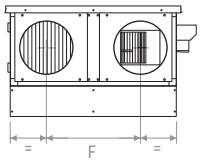
PESO | WEIGHT: **460 kg**



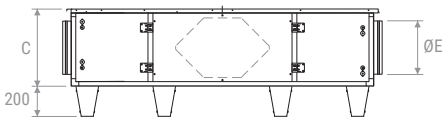
Vista dal basso | Bottom view



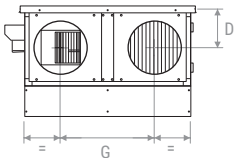
Vista frontale | Front view



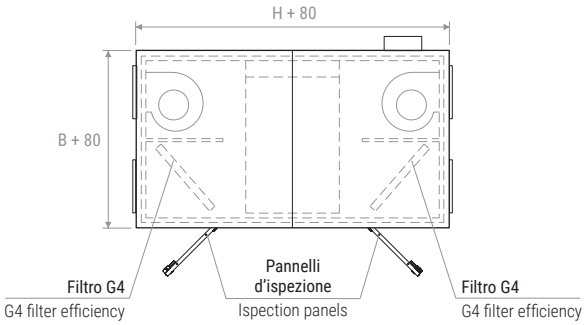
Vista laterale | Side view



Vista posteriore | Rear view

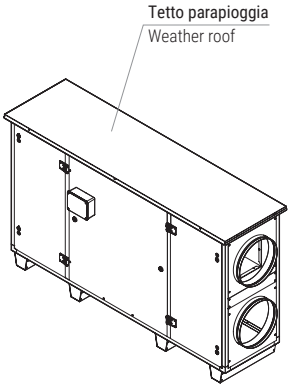


Vista dall'alto | Top view

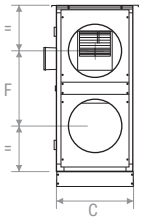


	H	B	C	D	ØE	F	G
mm	2500	1650	650	365	400	985	985

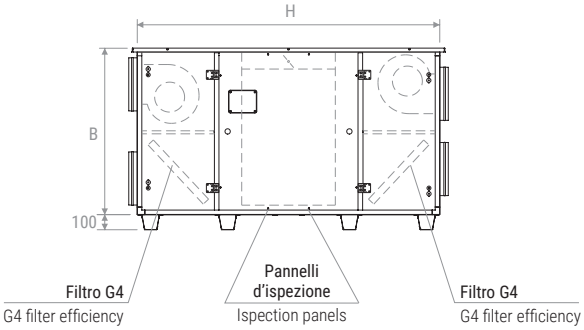
INSTALLAZIONE VERTICALE ESTERNO | VERTICAL EXTERNAL INSTALLATION



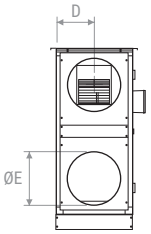
Vista frontale | Front view



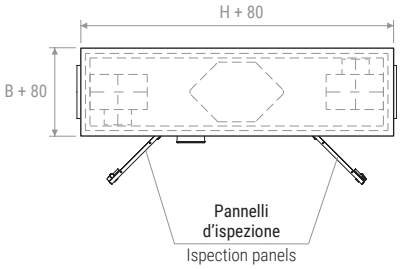
Lato ispezione | Inspection side



Vista posteriore | Rear view



Vista superiore | Upper view

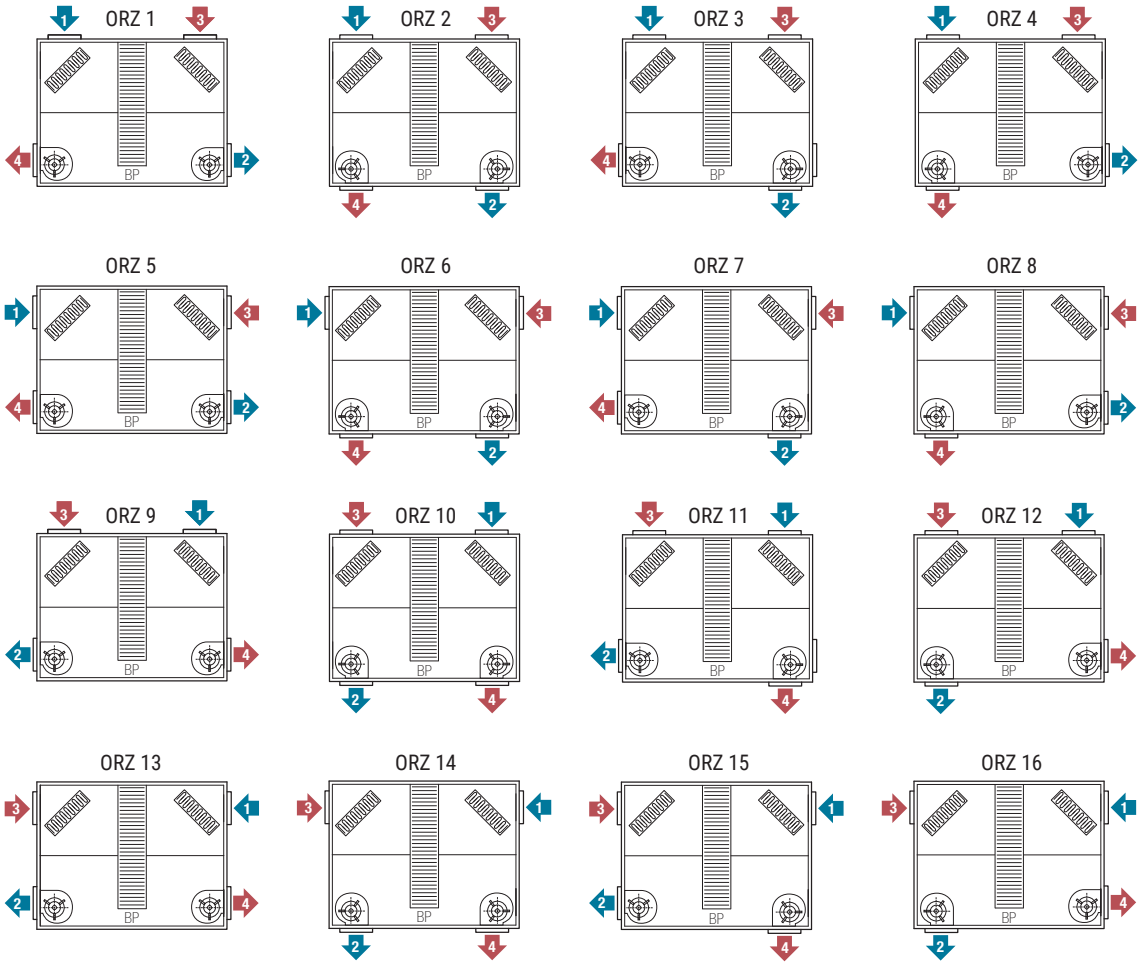


	H	B	C	D	ØE	F	G
mm	2500	1650	650	365	400	985	985

PROFESSIONAL

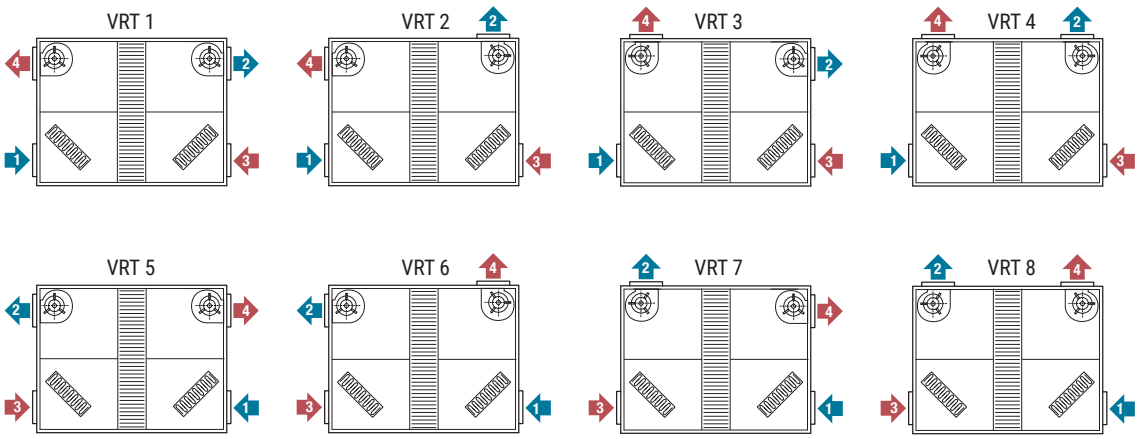
CONFIGURAZIONE | CONFIGURATION

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)



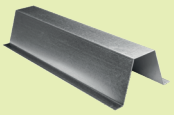
Leggenda | Legend
1 = aria esterna | fresh air
2 = mandata | supply
3 = ripresa | return
4 = espulsione | exhaust air

VERSIONI DISPONIBILI | VERSIONS AVAILABLE

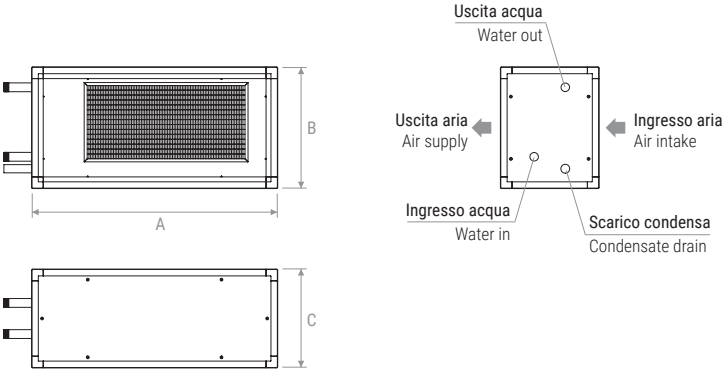
Modello | Model
BRUCEC700
BRUCEC1000
BRUCEC2000
BRUCEC3500
BRUCEC4500
BRUCEC6000

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

ACCESSORI | ACCESSORIES

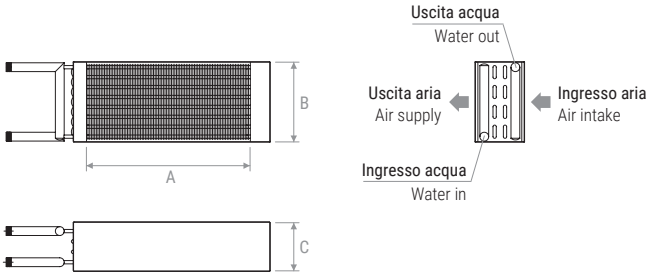
Modello | Model		
REP		**Regolatore velocità** | Speed control **Consigliati 2 regolatori di velocità per unità** Racommended 2 speed controls for unit
SMFBRUCEC0700 **SMFBRUCEC1000** **SMFBRUCEC2000** **SMFBRUCEC3545**		**Kit staffe per installazione a soffitto** | Kit brackets fot ceiling mounting
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
BAFREC6000	16,8	96	56,6	9,7	71	22	1 1/4	1850	670	300

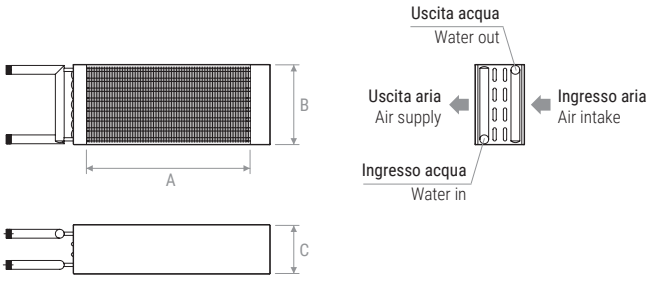
BATTERIA POST-RISCALDAMENTO ALTA TEMPERATURA | POST- HEATING HIGH TEMPERATURE COIL



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	5,92	0,5	24	4,3	1/2	400	240	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
BRATREC6000	29,8	45,9	4	23	20,8	1	1550	540	110

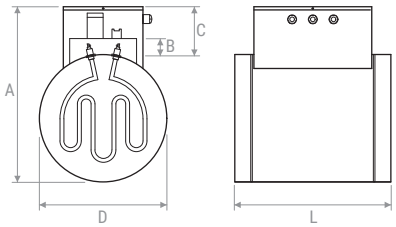
*** Adatto per BRUCEC1000 e BRUCEC700** | Suitable fot BRUCEC1000 and BRUCEC700

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
BRBTREC6000	30	46,27	8	38	19,1	1 1/4	1550	540	170

BATTERIA ELETTRICA TRIFASE | ELECTRICAL COIL 400 VOLT



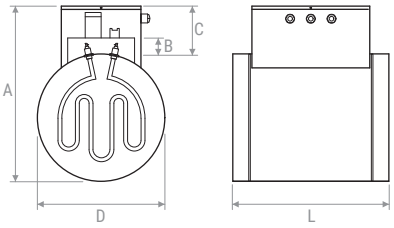
Aria ingresso: 8°C / Alimentazione: 400 Volt - 50 Hz Air inlet: 8°C / Electrical data: 400 Volt - 50 Hz				Dimensioni | Dimensions				
Modello | Model	Temperatura aria uscita Exit air temperature	Potenzialità Capacity	Stadi Levels	Ø D Diametro Diameter	A	B	C	L
	°C	Kw	NR.	mm	mm	mm	mm	mm
BETREC1000BCTR	20	4,5	3	250	400	50	150	490
BETREC1500BCTR	20	6,6	3	355	505	50	150	490
BETREC2500BCTR	20	10,5	3	355	505	50	150	490
BETREC3500BCTR	20	15	3	400	550	50	150	490
BETREC6000BCTR	20	25	3	400	560	50	160	850

Batterie dedicate a sistema regolazione CBTR | Batteries dedicated to CBTR system

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

PROFESSIONAL

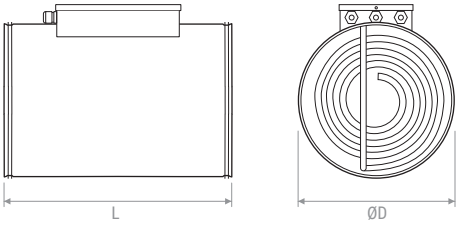
BATTERIA ELETTRICA MONOFASE | ELECTRICAL COIL 230 VOLT



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	A	B	C	L
	°C	Kw	NR.	mm	mm	mm	mm	mm
BEMREC1000BCTR	20	4,5	3	250	400	50	150	490
BEMREC1500BCTR	20	6,6	3	355	505	50	150	490
BEMREC2500BCTR	20	10,5	3	355	505	50	150	490
BEMREC3500BCTR	20	15	3	400	550	50	150	490
BEMREC6000BCTR	20	25	3	400	560	50	160	850

Batterie dedicate a sistema regolazione CBTR | Batteries dedicated to CBTR system

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

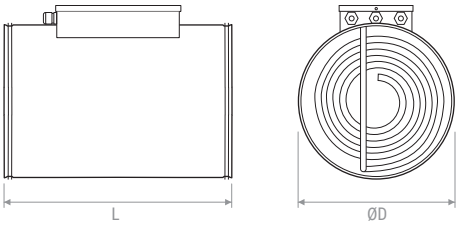


Aria ingresso: 8°C / Alimentazione: 400 Volt - 50 Hz Air inlet: 8°C / Electrical data: 400 Volt - 50 Hz		Dimensioni | Dimensions	
Modello | Model	Potenzialità Capacity	Ø D Diametro Diameter	L Lunghezza Lenght
	Kw	mm	mm
BETREC025006000AR	6	250	370
BETREC035509000AR	9	355	373
BETREC035512000AR	12	355	373
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 %	adatto per | suitable for **BRUCEC700**
GFTBRUC1000	F7 ISO e PM1 > 65 %	adatto per | suitable for **BRUCEC1000**
GFTBRUC1500	F7 ISO e PM1 > 65 %	adatto per | suitable for **BRUCEC2000**
GFTBRUC2500	F7 ISO e PM1 > 65 %	adatto per | suitable for **BRUCEC3500**
GFTBRUC3500	F7 ISO e PM1 > 65 %	adatto per | suitable for **BRUCEC4500 - BRUCEC6000**

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 %	adatto per | suitable for **BRUCECOE700**
GFTBRUCOE1000	F7 ISO e PM1 > 65 %	adatto per | suitable for **BRUCECOE1000**
GFTBRUCOE1500	F7 ISO e PM1 > 65 %	adatto per | suitable for **BRUCECOE2000**
GFTBRUCOE2500	F7 ISO e PM1 > 65 %	adatto per | suitable for **BRUCECOE3500**
GFTBRUCOE3500	F7 ISO e PM1 > 65 %	adatto per | suitable for **BRUCECOE4500 - BRUCEC6000**

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 %

* Adatto anche per BRUCECVE6000 | Suitable also to BRUCECVE6000
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 %

* Adatto anche per BRUCECOE6000 | Suitable also to BRUCECOE6000
Prezzo per set di 2 filtri | Price for set of 2 filters
Adatti per BRUCECOE | Suitable for BRUCECOE

SISTEMA DI REGOLAZIONE | CONTROL SYSTEM

BCTR

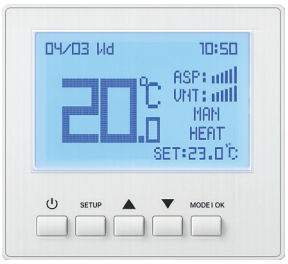
Sistema integrato per la regolazione ed il controllo delle unità di recupero calore.
Componenti essenziali:
- Sonde interne per la lettura della temperatura nelle diverse zone dell'unità.
- Pressostati differenziali per valutazione livello sporcamento filtri.
- PCB per il controllo di tutte le funzioni di regolazioni previste.
- Sonde interne per rilevazione di CO_2 e umidità relativa (ove previsto).
- Valvola motorizzata per gestione batteria idronica (ove previsto).
- Sonda da canale per controllo sistemi di post-trattamento (ove previsto).
- Comando utente per impostazione di tutte le funzioni.

Tutti i componenti sono installati sull'unità e testati in fabbrica in tutte le funzionalità previste prima della consegna dell'unità.

Integrated system for the regulation and control of heat recovery units. Essential components:
- Internal probes for temperature readings in the different zones of the unit.
- Differential pressure switches for filter clogging assessment.
- PCB for controlling all required control functions.
- Internal probes for CO_2 and relative humidity detection (where applicable).
- Motorized valve for hydronic coil management (where applicable).
- Duct probe for post-treatment system control (where applicable).
- User command for setting all functions.

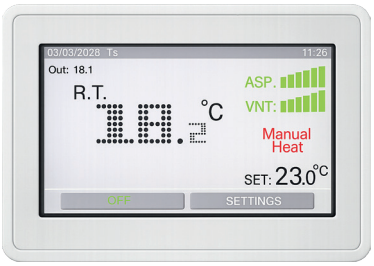
All components are installed on the unit and factory-tested for all required functions before unit delivery.

BCTRCOMSTD



Comando utente base
Standard user command

BCTRCOMTC



Comando utente avanzato
Advanced user command

PCB



Centralina elettronica di controllo installata a bordo unità
Electronic control unit installed on board the unit

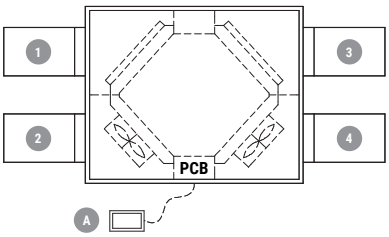
SISTEMA DI REGOLAZIONE (funzioni di regolazione) | CONTROL SYSTEM (control function)

	BCTR1	BCTR2	BCTR3	BCTR4	BCTR5	BCTR6	BCTR7	BCTR8	BCTR9
Gestione automatica by-pass scambiatore Automatic heat exchanger by-pass management	●	●	●	●	●	●	●	●	●
Monitoraggio filtri sporchi con pressostati differenziali Dirty filter monitoring with differential pressure switches	●	●	●	●	●	●	●	●	●
Controllo velocità ventilatori Fan speed control	●	●	●	●	●	●	●	●	●
Ingresso STOP incendio da remoto Remote fire STOP unit input	●	●	●	●	●	●	●	●	●
Ingresso ON/OFF unità da remoto Remote unit ON / OFF input	●	●	●	●	●	●	●	●	●
Programmazione giornaliera/settimanale Daily/weekly programming timer	●	●	●	●	●	●	●	●	●
Comunicazione MODBUS RS485 MODBUS RS485 communication	●	●	●	●	●	●	●	●	●
Uscita anomalia generica unità Generic unit failure output		●	●	●	●			●	●
Uscita stato ON/OFF unità Unit ON / OFF status output		●	●	●	●			●	●
Uscita estate / inverno Summer / winter status output			●	●	●			●	●
Regolazione batteria ad acqua (compresa valvola motorizzata) Water coil control (motorized valve included)		●				●	●		
Regolazione batteria elettrica Electric battery control			●					●	●
Controllo velocità ventilatori da sonda CO_2 (compresa) installata a bordo macchina Fan speed control from CO_2 probe (included) installed on the unit				●		●		●	
Controllo velocità ventilatori da sonda umidità (compresa) Fan speed control from humidity probe (included)					●		●		●

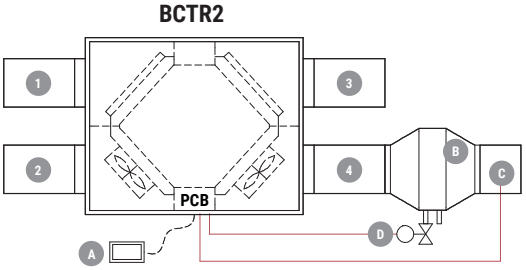
PROFESSIONAL

SISTEMA DI REGOLAZIONE | CONTROL SYSTEM

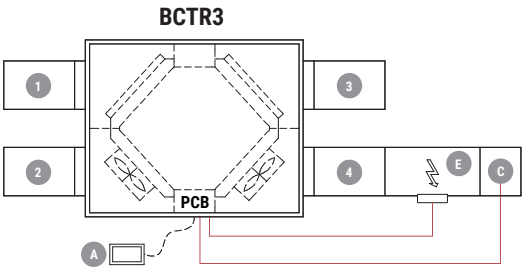
BCTR1



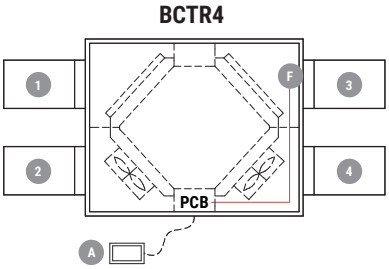
BCTR2



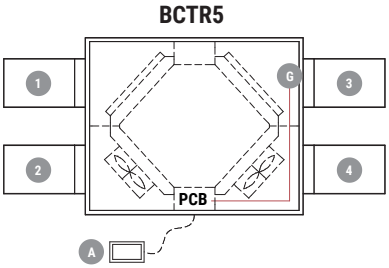
BCTR3



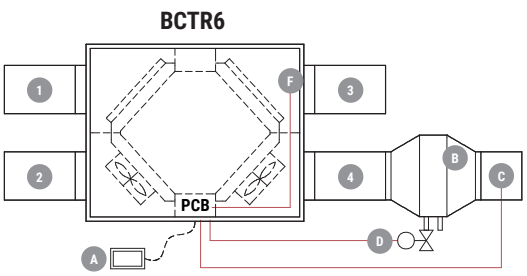
BCTR4



BCTR5



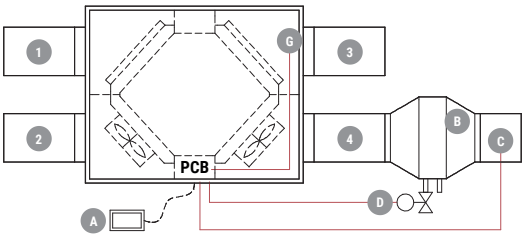
BCTR6



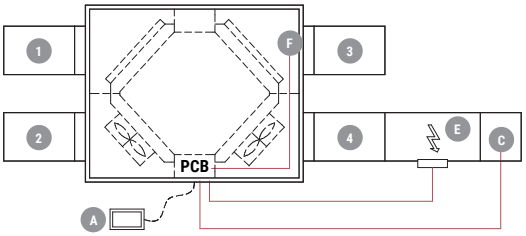
1 **Aria esterna** | Fresh air
2 **Espulsione** | Exhaust
3 **Ripresa** | Return
4 **Mandata** | Supply

A **Comando utente** | User command
B **Batteria idronica** | Water coil
C **Sonda temperatura** | Temperature probe
D **Valvola motorizzata** | motorized valve
E **Batteria elettrica** | Electric battery
F **Sonda CO_2** | CO_2 probe
G **Sonda umidità relativa** | Relative humidity probe

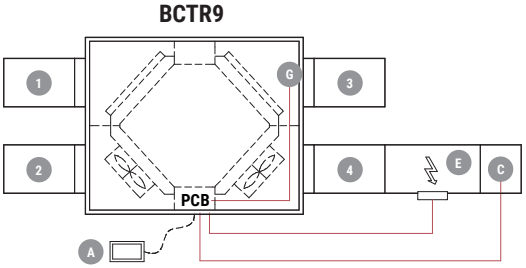
BCTR7



BCTR8



BCTR9



1 **Aria esterna** | Fresh air
2 **Espulsione** | Exhaust
3 **Ripresa** | Return
4 **Mandata** | Supply

A **Comando utente** | User command
B **Batteria idronica** | Water coil
C **Sonda temperatura** | Temperature probe
D **Valvola motorizzata** | motorized valve
E **Batteria elettrica** | Electric battery
F **Sonda CO_2** | CO_2 probe
G **Sonda umidità relativa** | Relative humidity probe

VERSIONI DISPONIBILI | VERSIONS AVAILABLE

Modello | Model
BCTR1STD
BCTR2STD
BCTR3STD
BCTR4STD
BCTR5STD
BCTR6STD
BCTR7STD
BCTR8STD
BCTR9STD

Prezzi con comando | Prices with command **BCTRCOMSTD**

Modello | Model
BCTR1TC
BCTR2TC
BCTR3TC
BCTR4TC
BCTR5TC
BCTR6TC
BCTR7TC
BCTR8TC
BCTR9TC

Prezzi con comando | Prices with command **BCTRCOMTC**