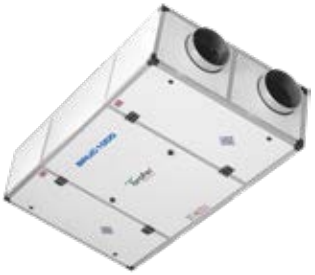
BRUC



PREZZI - PRICES

Modello - Model	€
BRUC1000	
BRUC1500	
BRUC2000	
BRUC2500	
BRUC3500	

BY-PASS AUTOMATICO INCLUSO

STRUTTURA:
La struttura portante è realizzata 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.

RECUPERATORE DI CALORE:
Il recuperatore è del tipo in controcorrente interamente realizzato in alluminio. In corrispondenza dello stesso e prevista una vasca per il drenaggio della condensa.

VENTILATORI:
I ventilatori sono del tipo centrifugo a doppia aspirazione con motore elettrico direttamente accoppiato. I motori sono a 3 velocità mentre le giranti sono bilanciate sia staticamente che dinamicamente per ridurre al minimo le vibrazioni ed il rumore.

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.

AUTOMATIC BY-PASS INCLUDED

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.

HEAT RECOVERY:
The recuperator is the counterfflow type all-aluminium. On the same is installed a condensate drain basin.

FANS:
The fans are centrifugal double suction with an electric motor directly couple. The motors are 3 speed while the wheels are both statically and dynamically balanced to minimize vibration and noise.

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.

TABELLA TECNICA DATI GENERALI - GENERAL TECHNICAL DATA TABLE

	BRUC 1000	BRUC 1500	BRUC 2000	BRUC 2500	BRUC 3500
Portata aria (mc/h) / Nominal air flow (mc/h)	1000	1500	2000	2500	3500
Pressione statica utile (pa) / Useful static pressure (pa)	170	200	180	240	150
VENTILATORE DIRETTAMENTE ACCOPPIATO (DATI PER SINGOLO VENTILATORE) - FANS (DATA FOR EACM FAN)					
Potenza nominale (w) - Installed power (W)	420	420	420	420	550
Poli (nr) - Poles (nr)	4	4	4	4	4
Giri (1/min) - Round (1/min)	1350	1350	1350	1350	1350
I nominale (A) - Current (A)	4,6	4,6	4,6	4,55	6,8
Tensione (V) - Rated voltage (V)	230	230	230	230	230
Frequenza (Hz) - Frequency (HZ)	50	50	50	50	50
Velocità (nr) - Speeds (nr)	3	3	3	3	3
FILTRI - FILTERS					
Acrilici olndulati efficienza - Corrugated acrylic efficiency	G4	G4	G4	G4	G4

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

Regolatore velocità R3V €/cad. 49,40
Speed control R3V €/pc. 49,40

Consigliati 2 regolatori di velocità per unità
Racommended 2 speed controls for unit

SMFBRUC
Kit staffe per installazione a soffitto
Kit brackets fot ceiling mounting
€/kit 150,80

MSPBRUC
Kit punti di appoggio per installazione verticale
Kit support points for vertical installation
€/kit 109,20

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	%	%	%
BRUC1000	81,6	1000	170	1430,3	1496,3	1,56	28,8	7,3	5,5
BRUC1500	81,3	1500	200	1253,7	1466,5	1,54	35,9	6,8	4,6
BRUC2000	81,3	2000	180	1286,4	1445,6	1,59	33,9	5,9	4,1
BRUC2500	81,5	2500	240	1244,2	1430,8	1,56	34,1	5,7	3,7
BRUC3500	80,6	3500	150	1200,5	1362,1	1,58	32,3	5,3	3,2

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

Dati misurati alla massima velocità - Data measured at maximum speed Frequenza - Frequency (Hz)								
	125	250	500	1000	2000	4000	8000	LwdB(A)
BRUC1000	59	61,2	55,4	52,3	42,6	37,3	39,8	57,6
BRUC1500	64,1	69,5	61,4	51,1	44,6	39,1	37,8	63,3
BRUC2000	63,8	72,2	64,5	56,1	48	41,3	40,8	66,2
BRUC2500	71,3	75	67,8	57,5	51,2	42,6	43,2	69,2
BRUC3500	72,2	77,1	69,1	60,2	54,4	44,2	45,1	70,9

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

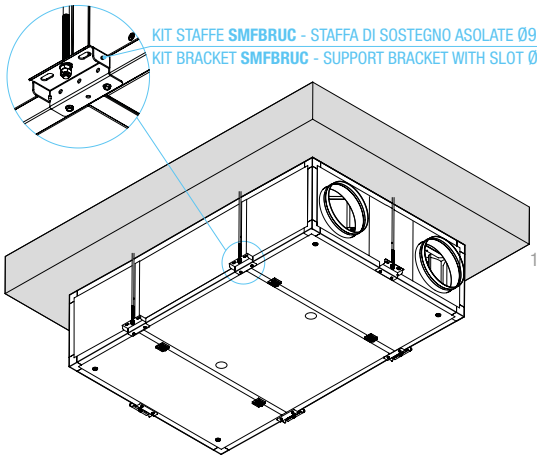
Dati misurati alla massima velocità - Data measured at maximum speed Frequenza - Frequency (Hz)								
	125	250	500	1000	2000	4000	8000	LwdB(A)
BRUC1000	60,2	69	62,7	56,6	57,9	52,4	61,3	66,6
BRUC1500	68,2	79,1	73,7	67,3	65,2	59,4	64,8	75,5
BRUC2000	71,3	81,6	76,5	76,1	71	65,8	73,9	80,9
BRUC2500	73,2	79	76,9	75,4	70,6	69	73,5	80,5
BRUC3500	74,7	80,6	79	77,3	72,4	70,8	75,1	81,9

BRUC1000

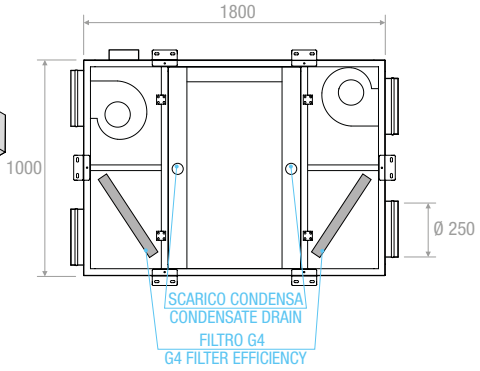
DISEGNI - DRAWINGS

INSTALLAZIONE ORIZZONTALE - HORIZONTAL INSTALLATION

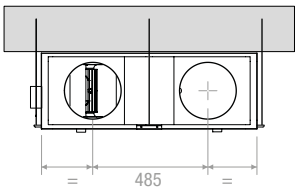
Vista prospettica - Perspective view



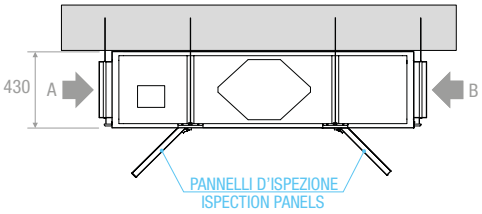
Vista dal basso - Bottom view



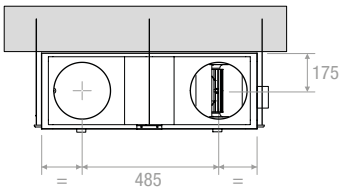
Vista frontale - Front view **B**



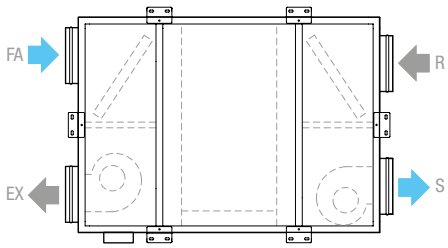
Vista laterale - Side view



Vista frontale - Front view **A**



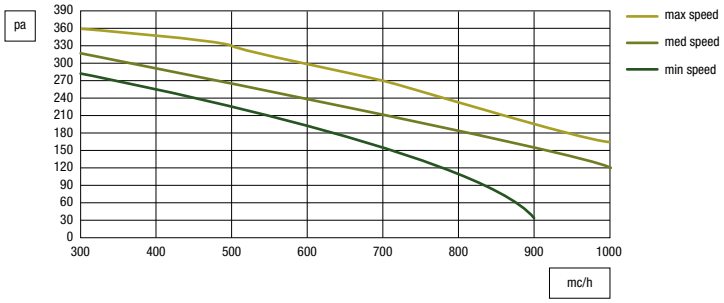
Vista dall'alto - Top view



PESO - WEIGHT: 160 kg

DIAGRAMMI PRESTAZIONALI - PERFORMANCE CHARTS

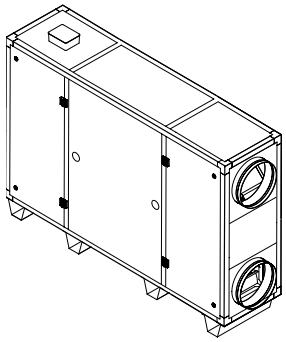
Pressione statica utile
Useful static pressure



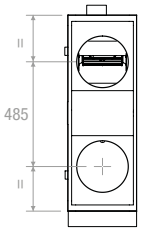
DISEGNI - DRAWINGS

INSTALLAZIONE VERTICALE - VERTICAL INSTALLATION

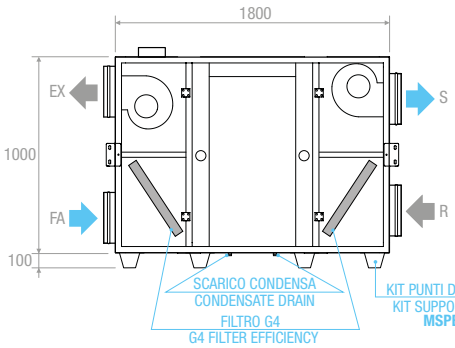
Vista prospettica - Perspective view



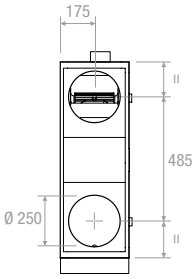
Vista - View **B**



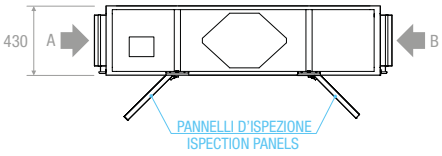
Lato ispezione - Inspection side



Vista - View **A**



Vista superiore - Upper view



PESO - WEIGHT: 160 kg

LEGGENDA - LEGEND
EX espulsione - exsaust air
R ripresa - return
FA aria esterna - fresh air
S mandata - supply

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.

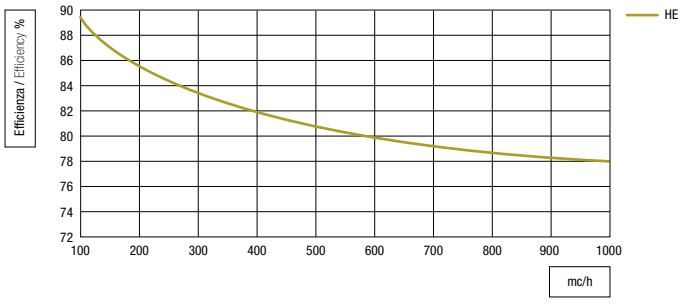
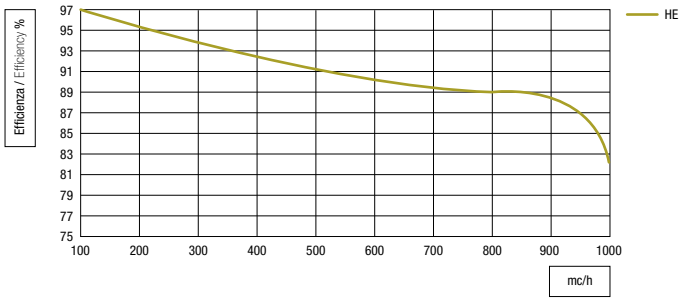


Diagramma efficienza invernale
Aria esterna: - 5 °C / 80 % U.R.
Aria ambiente: 20 °C / 50 % U.R.
Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.

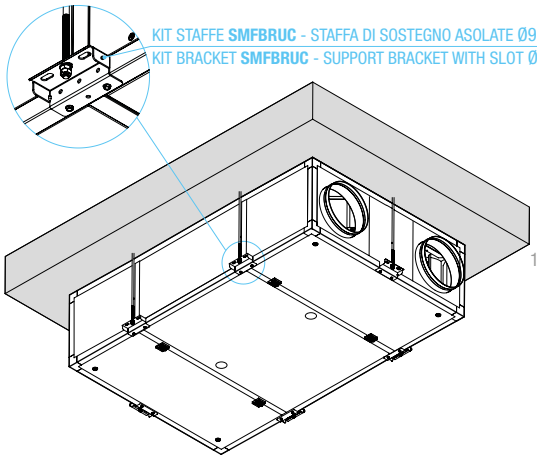


BRUC1500

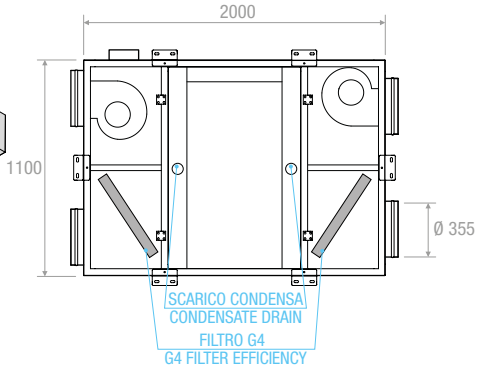
DISEGNI - DRAWINGS

INSTALLAZIONE ORIZZONTALE - HORIZONTAL INSTALLATION

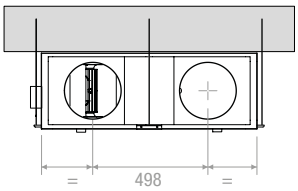
Vista prospettica - Perspective view



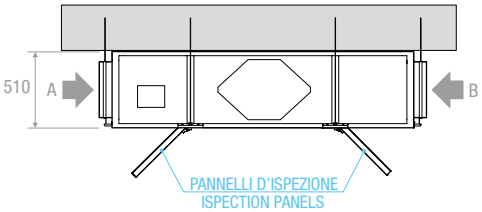
Vista dal basso - Bottom view



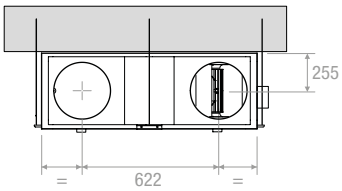
Vista frontale - Front view **B**



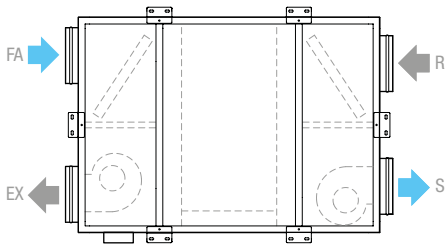
Vista laterale - Side view



Vista frontale - Front view **A**



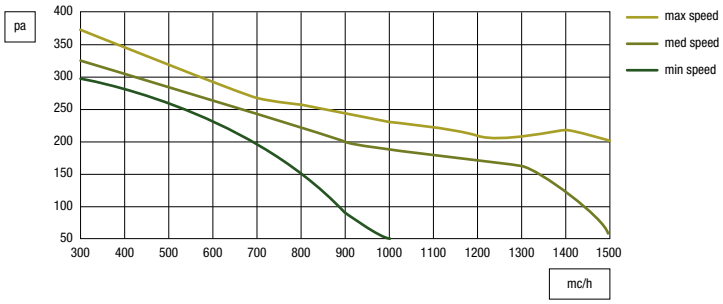
Vista dall'alto - Top view



PESO - WEIGHT: 185 kg

DIAGRAMMI PRESTAZIONALI - PERFORMANCE CHARTS

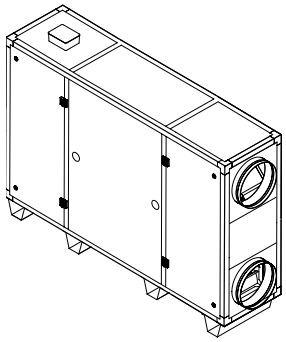
Pressione statica utile
Useful static pressure



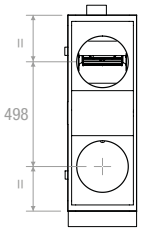
DISEGNI - DRAWINGS

INSTALLAZIONE VERTICALE - VERTICAL INSTALLATION

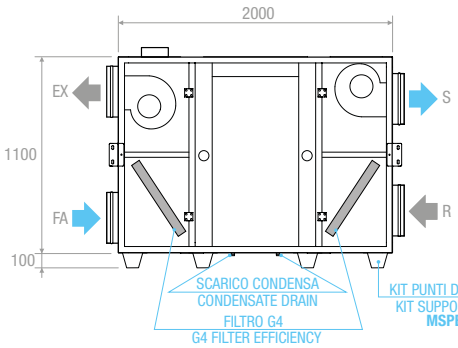
Vista prospettica - Perspective view



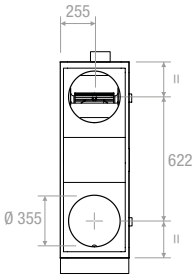
Vista - View **B**



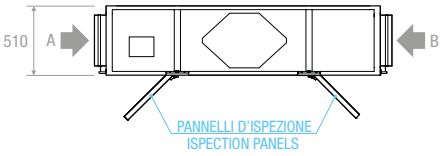
Lato ispezione - Inspection side



Vista - View **A**



Vista superiore - Upper view



PESO - WEIGHT: 185 kg

LEGGENDA - LEGEND
EX espulsione - exsaust air
R ripresa - return
FA aria esterna - fresh air
S mandata - supply

DIAGRAMMI PRESTAZIONALI - PERFORMANCE CHARTS

SCAMBIATORE CERTIFICATO EN 308 - HEAT EXCHANGER EN 308 CERTIFIED

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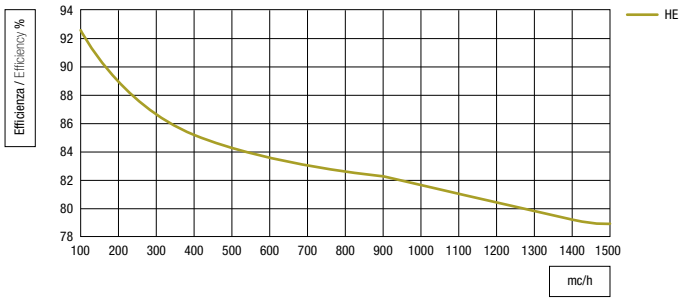

Diagramma efficienza invernale
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Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
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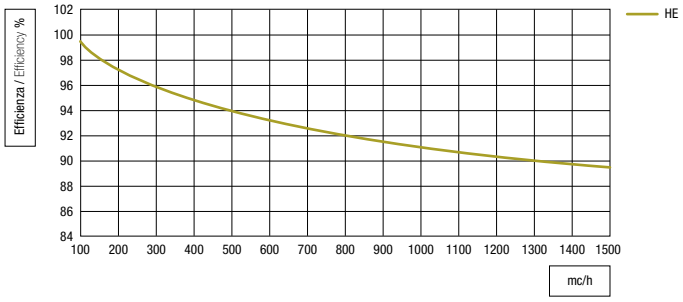
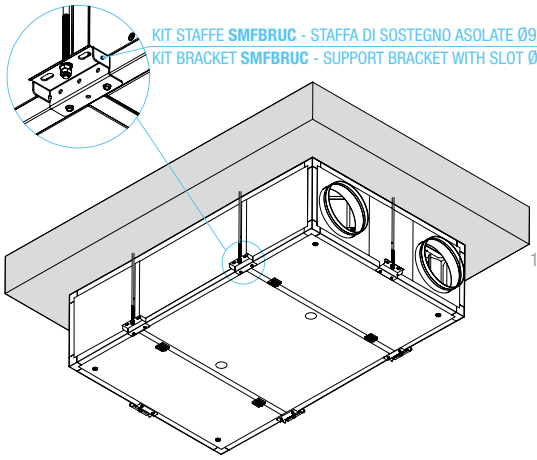


BRUC2000

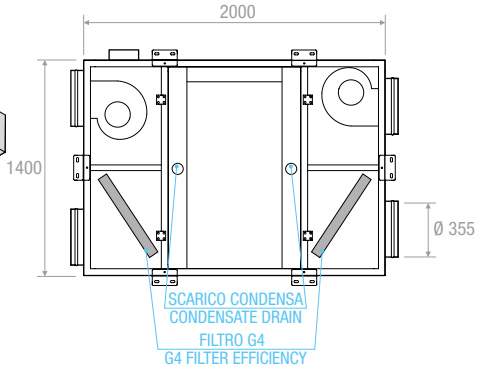
DISEGNI - DRAWINGS

INSTALLAZIONE ORIZZONTALE - HORIZONTAL INSTALLATION

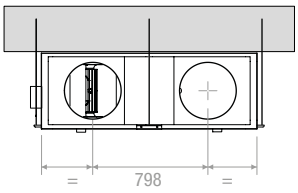
Vista prospettica - Perspective view



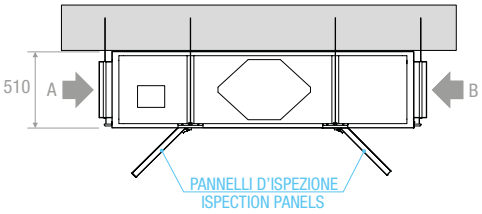
Vista dal basso - Bottom view



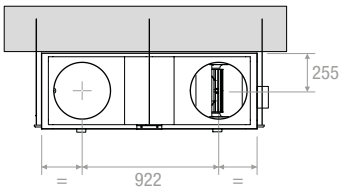
Vista frontale - Front view **B**



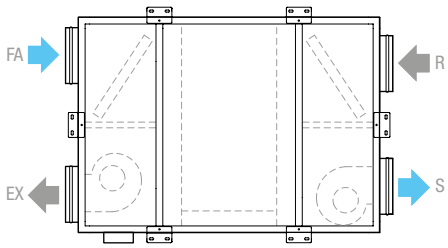
Vista laterale - Side view



Vista frontale - Front view **A**



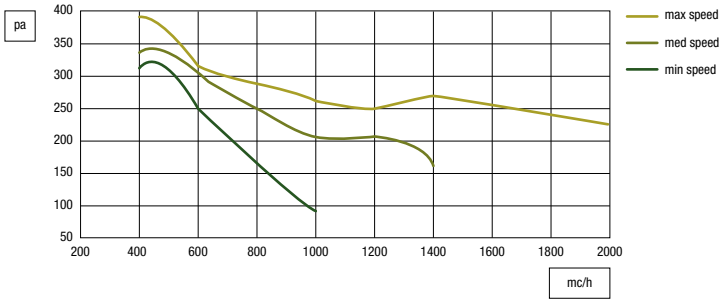
Vista dall'alto - Top view



PESO - WEIGHT: 230 kg

DIAGRAMMI PRESTAZIONALI - PERFORMANCE CHARTS

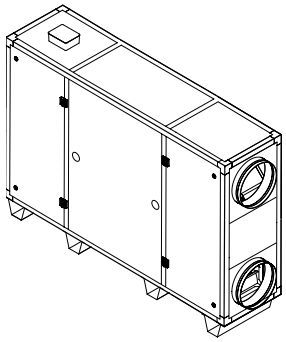
Pressione statica utile
Useful static pressure



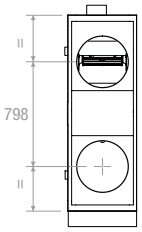
DISEGNI - DRAWINGS

INSTALLAZIONE VERTICALE - VERTICAL INSTALLATION

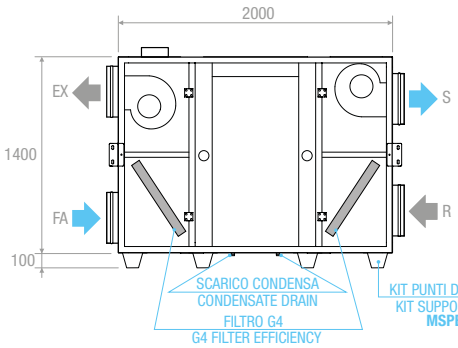
Vista prospettica - Perspective view



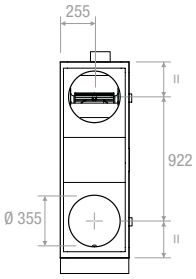
Vista - View **B**



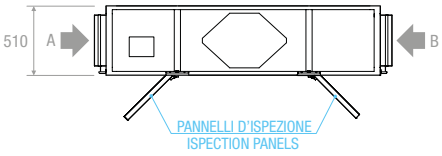
Lato ispezione - Inspection side



Vista - View **A**



Vista superiore - Upper view



PESO - WEIGHT: 230 kg

LEGGENDA - LEGEND
EX espulsione - exsaust air
R ripresa - return
FA aria esterna - fresh air
S mandata - supply

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.

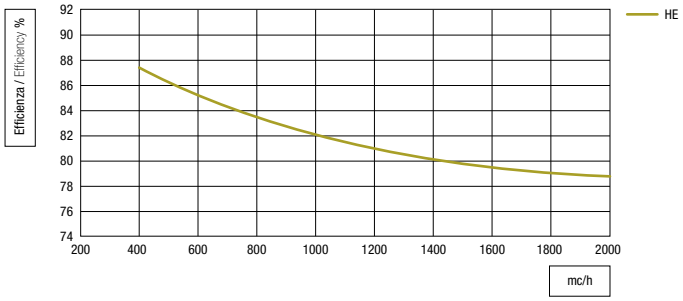
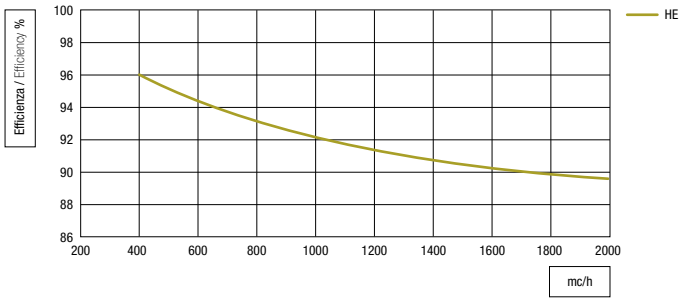


Diagramma efficienza invernale
Aria esterna: - 5 °C / 80 % U.R.
Aria ambiente: 20 °C / 50 % U.R.
Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.

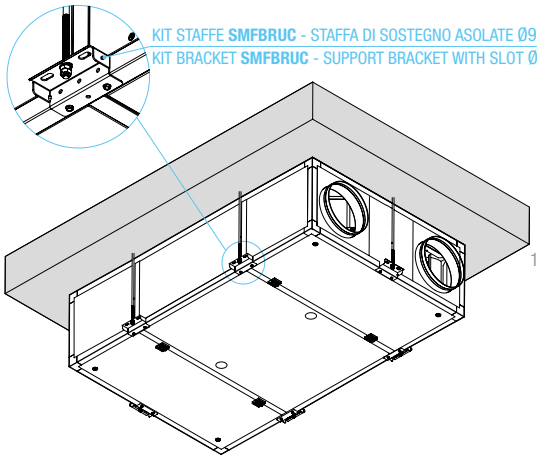


BRUC2500

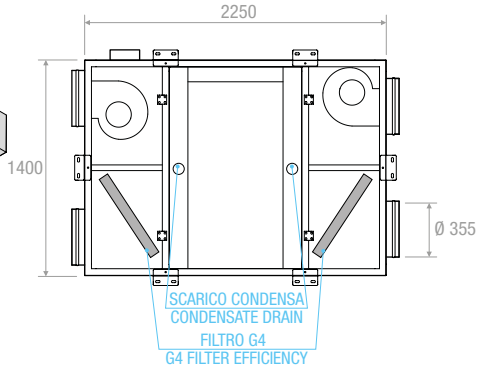
DISEGNI - DRAWINGS

INSTALLAZIONE ORIZZONTALE - HORIZONTAL INSTALLATION

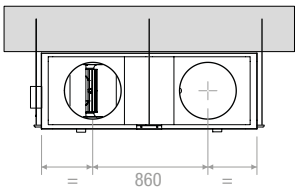
Vista prospettica - Perspective view



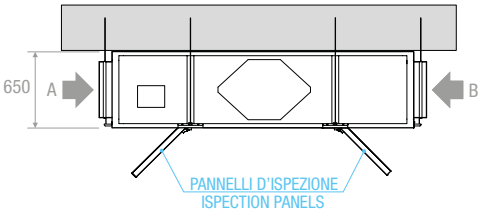
Vista dal basso - Bottom view



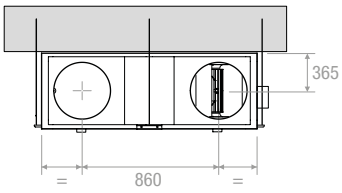
Vista frontale - Front view **B**



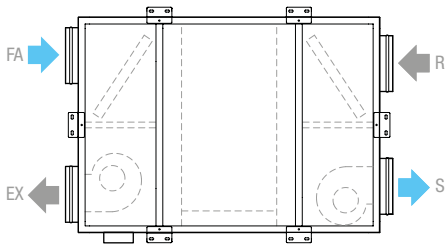
Vista laterale - Side view



Vista frontale - Front view **A**



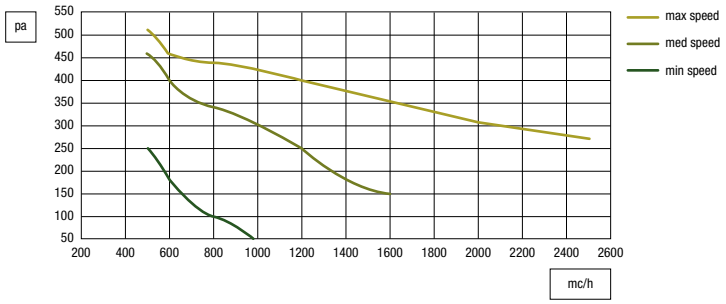
Vista dall'alto - Top view



PESO - WEIGHT: 310 kg

DIAGRAMMI PRESTAZIONALI - PERFORMANCE CHARTS

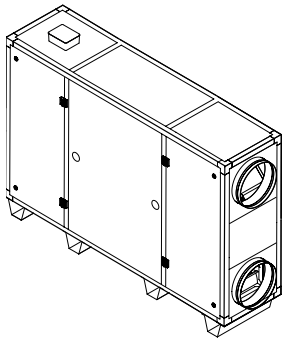
Pressione statica utile
Useful static pressure



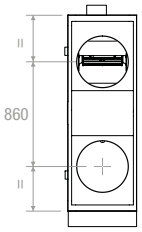
DISEGNI - DRAWINGS

INSTALLAZIONE VERTICALE - VERTICAL INSTALLATION

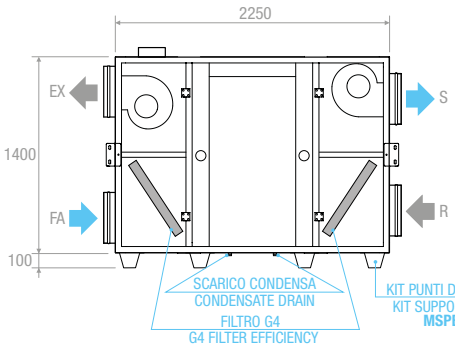
Vista prospettica - Perspective view



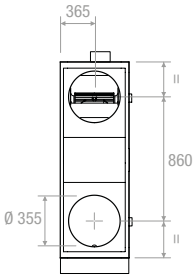
Vista - View **B**



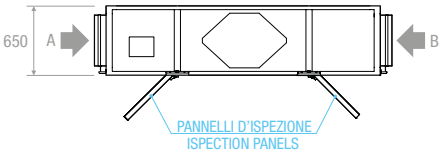
Lato ispezione - Inspection side



Vista - View **A**



Vista superiore - Upper view



PESO - WEIGHT: 310 kg

LEGGENDA - LEGEND
EX espulsione - exsaust air
R ripresa - return
FA aria esterna - fresh air
S mandata - supply

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.

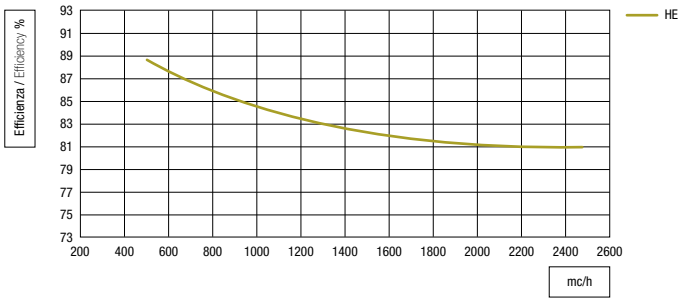
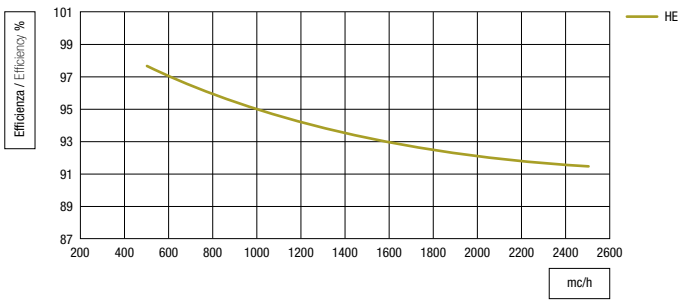


Diagramma efficienza invernale
Aria esterna: - 5 °C / 80 % U.R.
Aria ambiente: 20 °C / 50 % U.R.
Winter efficiency chart
Fresh air: -5 °C / 80 % R.H.
Return air: 20 °C / 50 % R.H.

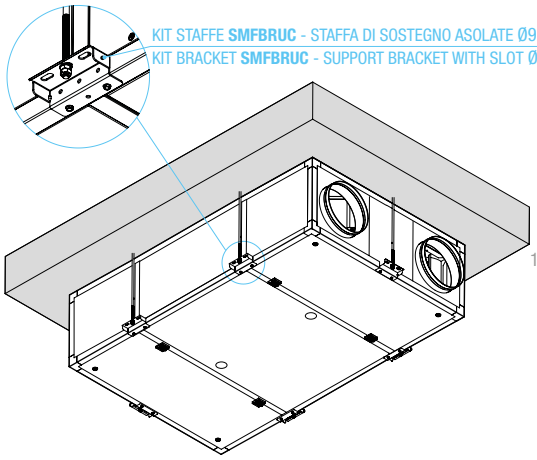


BRUC3500

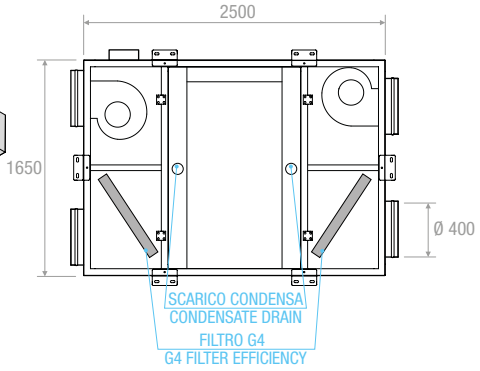
DISEGNI - DRAWINGS

INSTALLAZIONE ORIZZONTALE - HORIZONTAL INSTALLATION

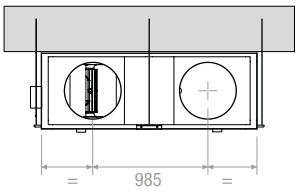
Vista prospettica - Perspective view



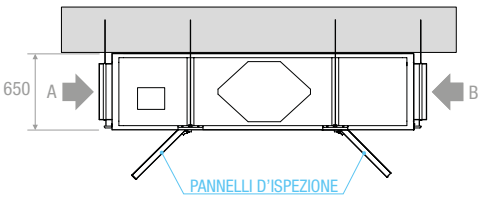
Vista dal basso - Bottom view



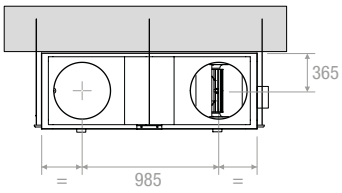
Vista frontale - Front view **B**



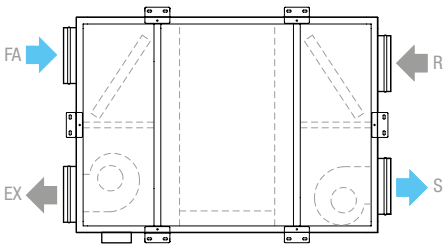
Vista laterale - Side view



Vista frontale - Front view **A**



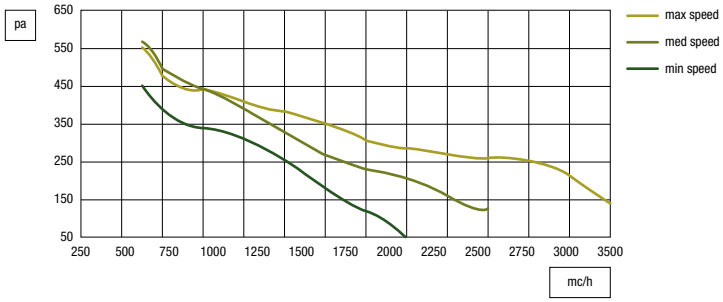
Vista dall'alto - Top view



PESO - WEIGHT: 350 kg

DIAGRAMMI PRESTAZIONALI - PERFORMANCE CHARTS

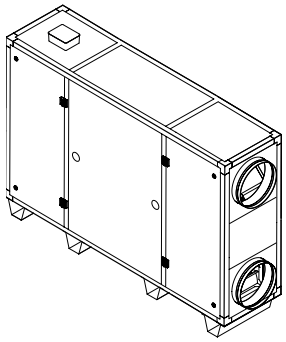
Pressione statica utile
Useful static pressure



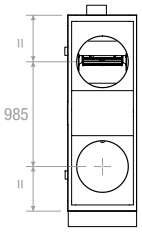
DISEGNI - DRAWINGS

INSTALLAZIONE VERTICALE - VERTICAL INSTALLATION

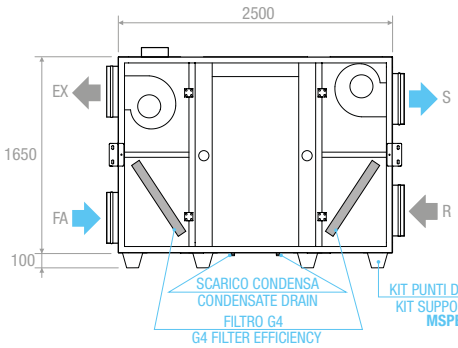
Vista prospettica - Perspective view



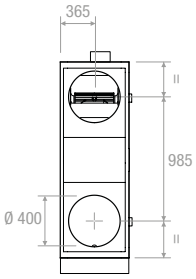
Vista - View **B**



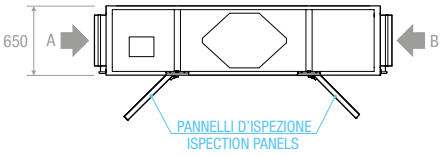
Lato ispezione - Inspection side



Vista - View **A**



Vista superiore - Upper view



PESO - WEIGHT: 350 kg

LEGGENDA - LEGEND
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R ripresa - return
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DIAGRAMMI PRESTAZIONALI - PERFORMANCE CHARTS

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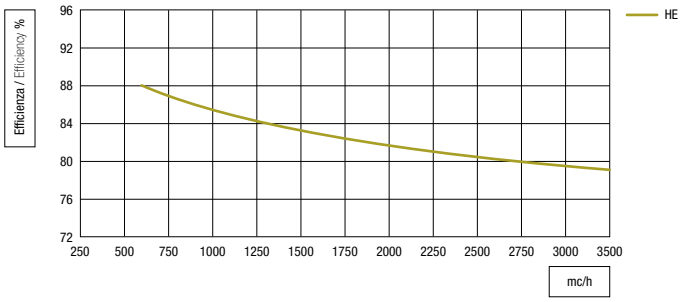

Diagramma efficienza invernale
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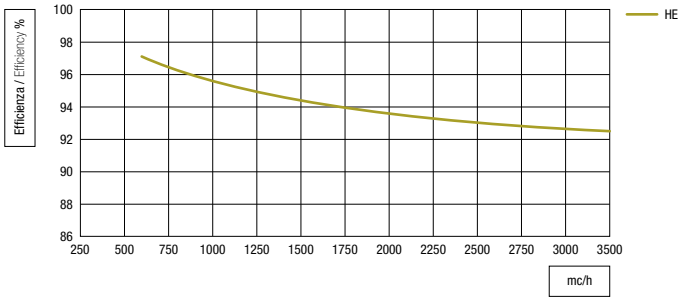

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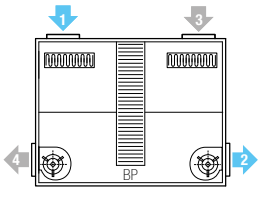
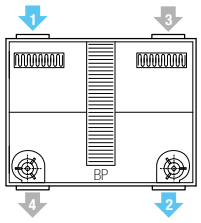
ORIENTAMENTO VERSIONE ORIZZONTALE
CONFIGURATIONS HORIZONTAL VERSION

VISTA SUPERIORE - TOP VIEW

ORZ 1



ORZ 2



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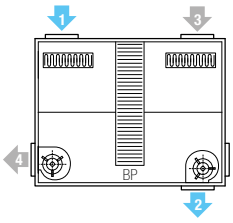

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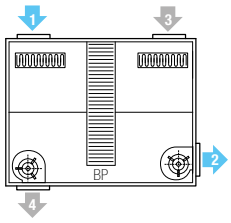
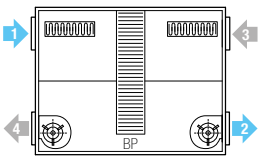


ORZ 5



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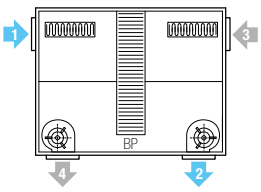
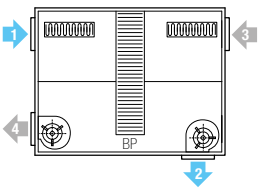


ORZ 7



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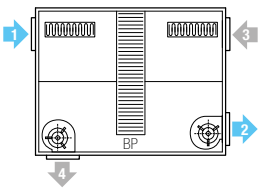
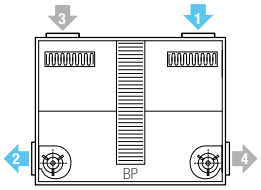
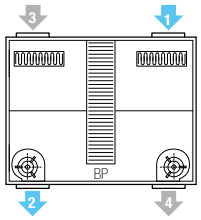


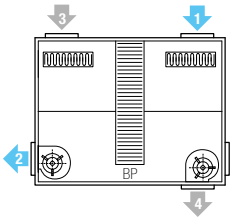
ORZ 9



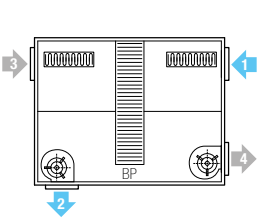
ORZ 10



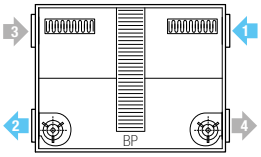
ORZ 11



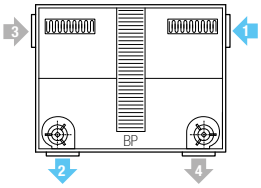
ORZ 12



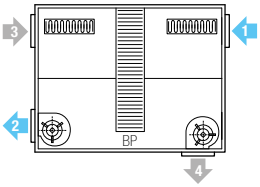
ORZ 13



ORZ 14



ORZ 15



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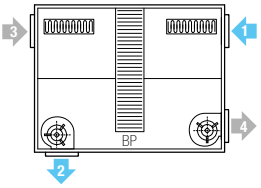
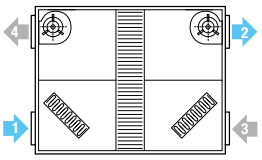


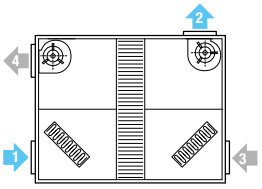
ORIENTAMENTO VERSIONE VERTICALE
CONFIGURATIONS VERTICAL VERSION

VISTA FRONTALE LATO ISPEZIONE - FRONT VIEW INSPECTION SIDE

VRT 1



VRT 2



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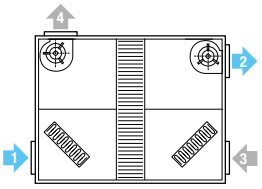
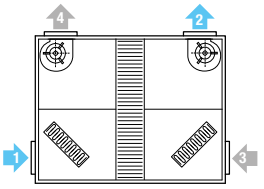
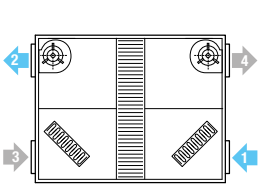


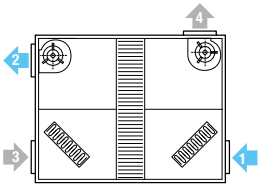
VRT 4



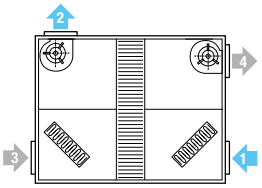
VRT 5



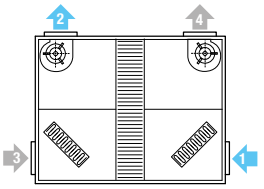
VRT 6



VRT 7

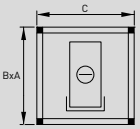


VRT 8

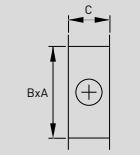


Leggenda - Legend
1 = aria esterna - fresh air
2 = mandata - supply
3 = ripresa - return
4 = espulsione - exhaust air

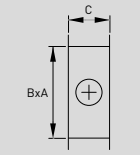
GRUPPO POST TRATTAMENTO ESTIVO - SUMMER COOLING GROUP

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 **A**	Altezza gruppo Height group **B**	Spessore gruppo Thickness group **C**	
	°C	%	Kw	mc/h	pa	kpa	pollici - inches	mm	mm	mm	€
BAFREC1000	16	96	9,21	1,6	73	12,3	3/4	750	370	300	
BAFREC1500	16	96	14	2,4	66	10,6	3/4	900	430	300	
BAFREC2000	16	93	18,9	3,2	68	20,6	3/4	1100	430	300	
BAFREC2500	16	93	23,6	4,1	67	24,7	1	1150	490	300	
BAFREC3500	16	93	33,1	5,7	62	18,9	1	1400	610	300	

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

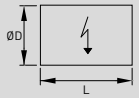
Aria ingresso: 8°C / Acqua ingresso: 70°C / Acqua uscita: 60°C Air inlet: 8°C / Water in: 70°C / Water out: 60°C							Dimensioni - Dimensions			
Modello Model	Temperatura aria uscita Exit air temperature	Potenzialità Capacity	Portata acqua Water flow	Perdita carico lato aria Air pressure drop	Perdita carico lato acqua Pressure drop water side	Diametro attacchi Diameter water connection	Base passaggio aria Base air passage **A**	Altezza passaggio aria Height air passage **B**	Spessore Thickness air passage **C**	
	°C	Kw	mc/h	pa	kpa	pollici - inches	mm	mm	mm	€
BRATREC1000	25	5,92	0,5	24	4,3	1/2	400	240	90	
BRATREC1500	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	
BRATREC2500	25	14,8	1,3	22	6	3/4	700	360	100	
BRATREC3500	25	20,7	1,8	20	16,7	3/4	800	480	100	

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

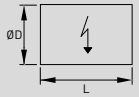
Aria ingresso: 8°C / Acqua ingresso: 45°C / Acqua uscita: 40°C Air inlet: 8°C / Water in: 45°C / Water out: 40°C							Dimensioni - Dimensions			
Modello Model	Temperatura aria uscita Exit air temperature	Potenzialità Capacity	Portata acqua Water flow	Perdita carico lato aria Air pressure drop	Perdita carico lato acqua Pressure drop water side	Diametro attacchi Diameter water connection	Base passaggio aria Base air passage **A**	Altezza passaggio aria Height air passage **B**	Spessore Thickness air passage **C**	
	°C	Kw	mc/h	pa	kpa	pollici - inches	mm	mm	mm	€
BRBTREC1000	30	7,67	1,3	34	7,9	3/4	500	240	150	
BRBTREC1500	30	11,5	2	30	6,4	3/4	650	300	150	
BRBTREC2000	30	15,3	2,7	31	12,6	3/4	850	300	150	
BRBTREC2500	30	19,2	3,3	30	11,5	1	900	360	160	
BRBTREC3500	30	26,8	4,7	28	15,1	1	1000	480	160	

BRUC

BATTERIA POST-RISCALDAMENTO ELETTRICA TRIFASE - POST-HEATING 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	
BETREC2000	20	8,4	3	355	373	
BETREC2500	20	10,5	3	355	373	
BETREC3500	20	15	3	400	630	

BATTERIA POST-RISCALDAMENTO ELETTRICA MONOFASE - POST-HEATING 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	
BEMREC2000	20	8,4	3	355	373	
BEMREC2500	20	10,6	3	355	373	
BEMREC3500	20	15	3	400	630	

ALTA EFFICIENZA FILTRI - HIGH EFFICIENCY FILTERS

Modello - Model	Efficienza - Efficiency	€
GFTBRUC1000	F7	
GFTBRUC1500	F7	
GFTBRUC2000	F7	
GFTBRUC2500	F7	
GFTBRUC3500	F7	

Installabili nell'unità al posto dei filtri G4 di serie. Prezzo al pezzo
Installable in side the unit instead of G4 series filters. Price for pieces

SET FILTRI G4 - G4 SET FILTER

Modello - Model	Efficienza - Efficiency	€
FABRUC1000	G4	
FABRUC1500	G4	
FABRUC2000	G4	
FABRUC2500	G4	
FABRUC3500	G4	

Prezzo per set di 2 filtri - Price for set of 2 filters

SISTEMA REGOLAZIONE - CONTROL SYSTEM

FUNZIONI DI REGOLAZIONE - CONTROL FUNCTIONS

	CTR1BRUC	CTR2BRUC	CTR3BRUC	CTR4BRUC	CTR5BRUC	CTR6BRUC	CTR7BRUC	CTR8BRUC	CTR9BRUC
Gestione automatica by-pass scambiatore Automatic heat excahnger by-pass management	•	•	•	•	•	•	•	•	•
Monitoraggio filtri sporchi con pressostati differenziali Dirty filter monitoring with differential pressure switches	•	•	•	•	•	•	•	•	•
Controllo velocità ventilatori 3 gradini 3-step 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 (escluso quadro di potenza) Prezzo quadro elettrico potenza tabella sotto PBEB Electric battery control (excluding power electric box) Price power electric box table below PBEB			•					•	•
Controllo velocità ventilatori da sonda CO_2 (compresa) Fan speed control from CO_2 probe (included)				•		•		•	
Controllo velocità ventilatori da sonda umidità (compresa) Fan speed control from humidity probe (included)					•		•		•

DESCRIZIONE:
Sistema di regolazione cablato a bordo macchina e testato in fabbrica completo di:
- Quadro elettrico di potenza ed automazione.
- Organi di controllo ed automazione a bordo macchina.
- Terminale operatore remotabile sino a 20 metri.

DECRIPTION:
Control system wired on board the machine and tested in the factory complete with:
- Electric power and automation box.
- Control and automation devices on the machine.
- Operator terminal remotable up to 20 meters long.

PREZZI - PRICES

	€
CTR1BRUC	
CTR2BRUC	
CTR3BRUC	
CTR4BRUC	
CTR5BRUC	
CTR6BRUC	
CTR7BRUC	
CTR8BRUC	
CTR9BRUC	

QUADRO ELETTRICO POTENZA BATTERIE ELETTRICA
POWER ELECTRIC BOX ELECTRIC BATTERY

Modello - Model	Kw	€
BRUCQE45	4,5	
BRUCQE66	6,6	
BRUCQE84	8,4	
BRUCQE105	10,5	
BRUCQE150	15	

Altri sistemi di controllo eseguibili su richiesta
Other control systems available on request