

VMCS600



Scheda tecnica
Data sheet



UNITÀ DECENTRALIZZATA VMC AD ALTISSIMA EFFICIENZA

Recuperatore di calore: scambiatore del tipo in controcorrente in materiale plastico ad altissima efficienza. Completo di bypass automatico e vasca raccolta condensa.

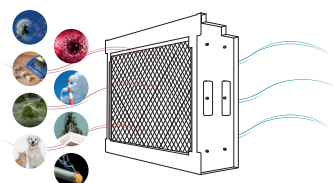
Struttura: a sandwich afonizzata autoportante. Provvista di pannelli asportabili per le operazioni di manutenzione ordinaria e straordinaria. Completa di staffe per il fissaggio a soffitto.

Ventilatori: centrifughi a doppia aspirazione con motore elettrico EC brushless direttamente accoppiato.

Filtri: efficienza G4 su ripresa ambiente. Efficienza M5 su presa aria esterna.

Optional:

- Controllo CO2 (CO2RF).
- Filtro efficienza F7 (VMCS600 F7).
- Modulo comunicazione modbus (MODBUSRF).



Filtro elettronico (optional)
efficienza UNI 11254 e PM 2,5 90/95%
Electronic filter (optional)
efficiency UNI 11254 and PM 2,5 90/95%

DECENTRALIZED VMC HEAT RECOVERY UNIT WITH VERY HIGH EFFICIENCY

Heat recovery: high efficiency plastic counter-current exchanger. Complete with automatic bypass and condensate collection basin.

Structure: self-supporting soundproof sandwich structure. Equipped with removable panels for ordinary and extraordinary maintenance operations. Complete with brackets for ceiling fixing.

Fans: double inlet centrifugal fans with directly coupled brushless EC electric motor.

Filters: G4 efficiency on return air. M5 efficiency on fresh air.

Optional:

- CO2 control (CO2RF).
- F7 efficiency filter (VMCS600 F7).
- Modbus communication device (MODBUSRF).

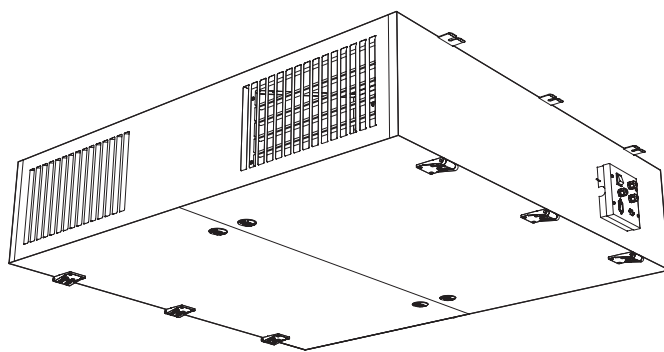


VMCS600 - VMCS600FE

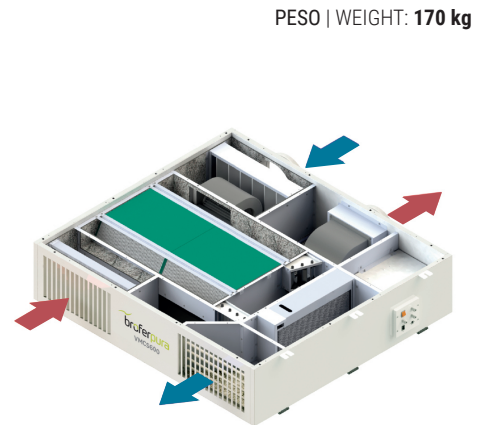
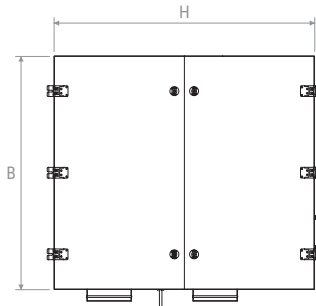
Portata aria rinnovo Replacement airflow	600 mc/h
Portata aria estrazione Extraction airflow	600 mc/h
Efficienza recupero termico* Thermal recovery efficiency*	90 %
Potenza nominale singolo ventilatore (w) Installed power single fan (w)	156
Pressione sonora dB(A) Sound pressure dB(A)	38
Filtrazione aria rinnovo Replacement air filtration	M5 ISO COARSE \geq 70 %
Filtrazione aria estrazione Extraction air filtration	G4 ISO COARSE \geq 65 %
Filtrazione aria rinnovo (opzionale) Replacement air filtration (optional)	F7 ISO e PM1 \geq 65 %
Filtrazione elettronica Electronic filtration	Opzionale Optional
Controllo CO ₂ CO ₂ control	Opzionale Optional

* (UNI EN 308) aria rinnovo: 5°C 72% UR / aria espulsione: 25°C 28% UR | (UNI EN 308) fresh air: 5 ° C 72% RH / expulsion air: 25 ° C 28% RH

DISEGNI | DRAWINGS

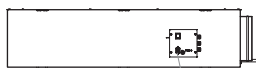


Vista dal basso | Bottom View

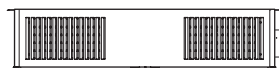


PESO | WEIGHT: 170 kg

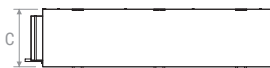
Vista laterale DX | Side view right



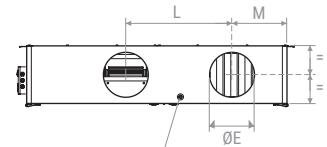
Vista frontale | Front view



Vista laterale SX | Side view left



Vista posteriore | Rear view

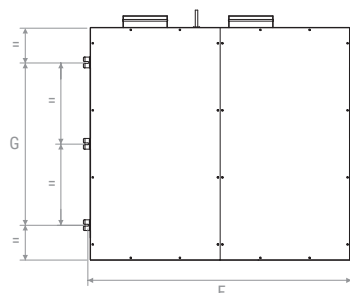


Ingresso alimentazione | Power supply input
Ingresso controller | Controller input
Pulsante accensione | Power button

Porte ispezione
Inspection doors

Scarico condensa | Condensate drain
Tubo vitreo Ø20 | Vitreous pipe Ø20

Vista dall'alto | Top view



	B	H	C	ØE	F	G	L	M
mm	1300	1450	325	250	1478	910	591	307



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.

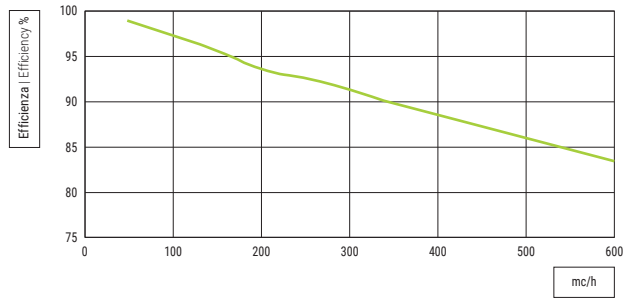
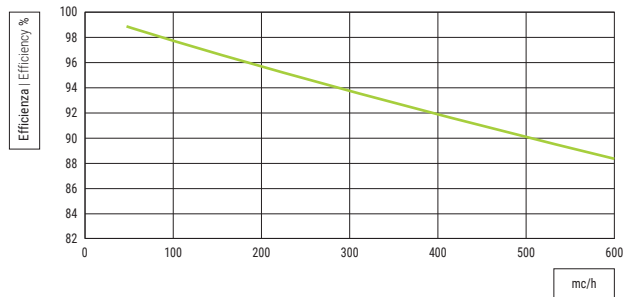


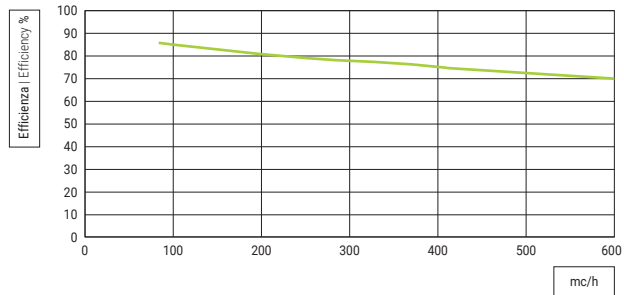
Diagramma efficienza invernale

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.



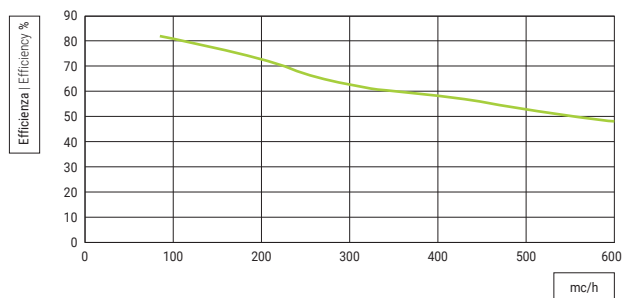
SCAMBIATORE ENTALPICO (efficienza su temperatura) | ENTHALPIC HEAT EXCHANGER (temperature efficiency)

Aria esterna: +5 °C / 70 % U.R.
 Aria ambiente: 25°C / 50 % U.R.
 Fresh air: +5 °C / 70 % R.H.
 Return air: 25°C / 50 % R.H.



SCAMBIATORE ENTALPICO (efficienza su umidità) | ENTHALPIC HEAT EXCHANGER (humidity efficiency)

Aria esterna: +5 °C / 70 % U.R.
 Aria ambiente: 25°C / 50 % U.R.
 Fresh air: +5 °C / 70 % R.H.
 Return air: 25°C / 50 % R.H.



DATI ACUSTICI RELATIVI A POTENZA SONORA IRRAGGIATA DALLA STRUTTURA ACOUSTIC DATA RELATIVE TO THE SOUND POWER RADIATED BY THE CASING








	Portata aria Air flow rate		Frequenza Frequency								
	mc/h		Hz								
			63	125	250	500	1000	2000	4000	8000	
Velocità alta High speed	600		40	51,5	52,5	52,5	54	53,5	44	31	dB
Velocità media Medium speed	470		36	46,5	46,5	44	49	46	36,5	27	dB
Velocità bassa Low speed	260		24	35,5	35	33	38,5	29,5	22	18	dB



PREZZI | PRICES

Modello Model	€
VMCS600 Versione standard Standard version	
VMCE600 Versione con scambiatore entalpico Version with enthalpic heat exchanger	
VMCS600FE Versione con filtro elettronico Version with electronic filter	
VMCE600FE Versione con scambiatore entalpico e filtro elettronico Version with enthalpic heat exchanger and electronic filter	
VMCS600G4 Filtro efficienza G4 (ricambio) Filter G4 efficiency (spare part)	
VMCS600M5 Filtro efficienza M5 (ricambio) Filter M5 efficiency (spare part)	
VMCS600F7 Filtro efficienza F7 per aria rinnovo F7 efficiency filter for replacement air	

COMPOSIZIONE SISTEMI DI REGOLAZIONE | CONTROL SYSTEM COMPOSITION

	4BRF	RHRF	CO2RF	MODBUSRF	APPRF	DSPRF	TSMART
Modello Model							
Controllo velocità Speed control	•	•	•		•	•	•
By-pass						•	•
Intasamento filtri Clogged filters	•	•	•		•	•	•
Controllo umidità Humidity control		•					•
Controllo CO ₂ CO ₂ control			•				•
Funzione booster Booster function	•	•	•		•	•	•
Trasmittitore MODBUS MODBUS gate way				•			
Impostazione velocità Speeds setting		•	•			•	•
ON/OFF		•	•			•	•
Allarmi puntuali Punctual alarms	•	•	•			•	•
€	incluso nel prezzo included in the price						

SCHOOL


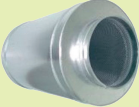
DATI ECODESIGN | ECODESIGN DATA SHET

Modello Model	Efficienza Efficiency	Portata aria nominale Nominal air flow rate	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/m ³ /s	w/m ³ /s	m/s	%	%	%
VMCS600	86,2	470	150	1512	1656	0,92	47,5	6,4	4,9

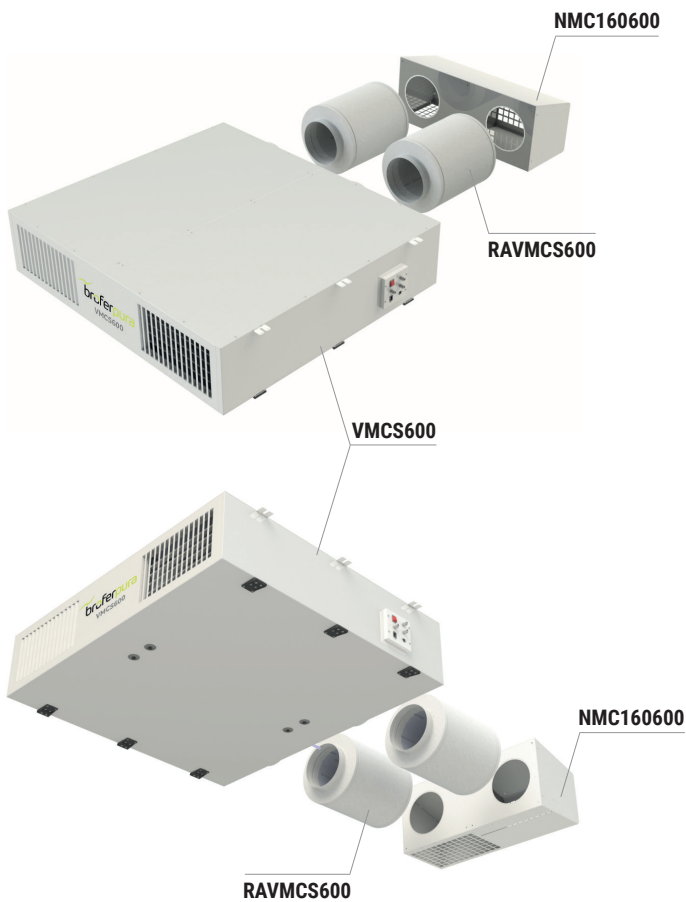


VMCS600

ACCESSORI | ACCESSORIES

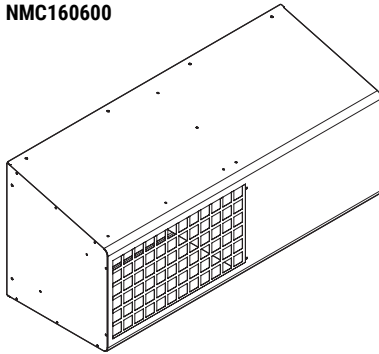
Modello Model		€
NMC160600	 <p>Modulo compatto di espulsione presa aria di rinnovo in lamiera zincata verniciata RAL 9016 Compact module exhaust fresh air galvanized steel RAL 9016 painted</p>	
RAVMCS600	 <p>Silenziatore circolare senza ogiva in lamiera zincata Circular sound attenuator with out ogive in galvanized steel</p>	RAVMCS600250 (250 mm)
		RAVMCS600500 (500 mm)
		RAVMCS600750 (750 mm)
		RAVMCS6001000 (1000 mm)

APPLICAZIONI | APPLICATIONS

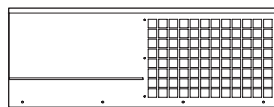


DISEGNI | DRAWINGS

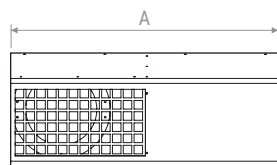
NMC160600



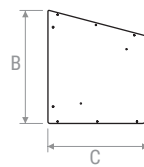
Vista dal basso | Bottom View



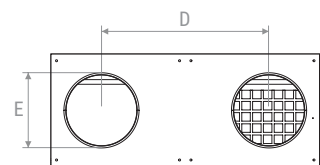
Vista frontale | Front View



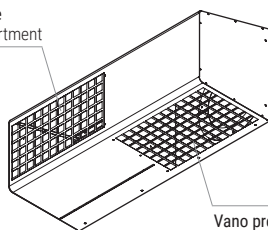
Vista laterale | Side View



Vista posteriore | Rear View



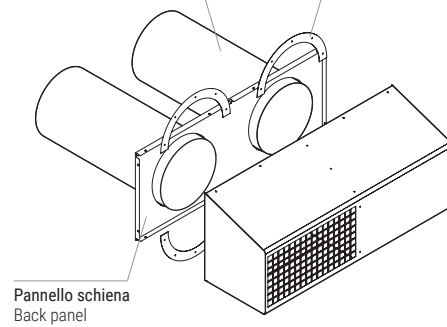
Vano di espulsione
Exhaust air compartment



Vano presa aria esterna
Fresh air compartment

Canali di uscita del muro
Ducts coming out of the wall

Ghigliottine per adattamento
circonferenza dei canali
Ghillottines for circumference
adaption of the ducts

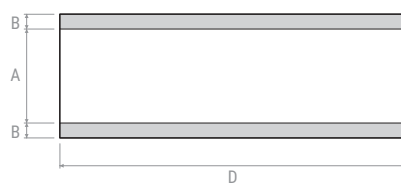


Pannello schiena
Back panel

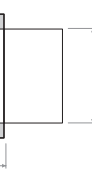
	A	B	C	D	E
mm	950	370	320	591	Ø 265

RAVMCS

Interno | Internal



Esterno | External



	A	B	C	D
mm	250	50	248	250 / 500 / 750 / 1000

