



SOFFIANTI A CANALE LATERALE E ASPIRATORI



MADE IN ITALY



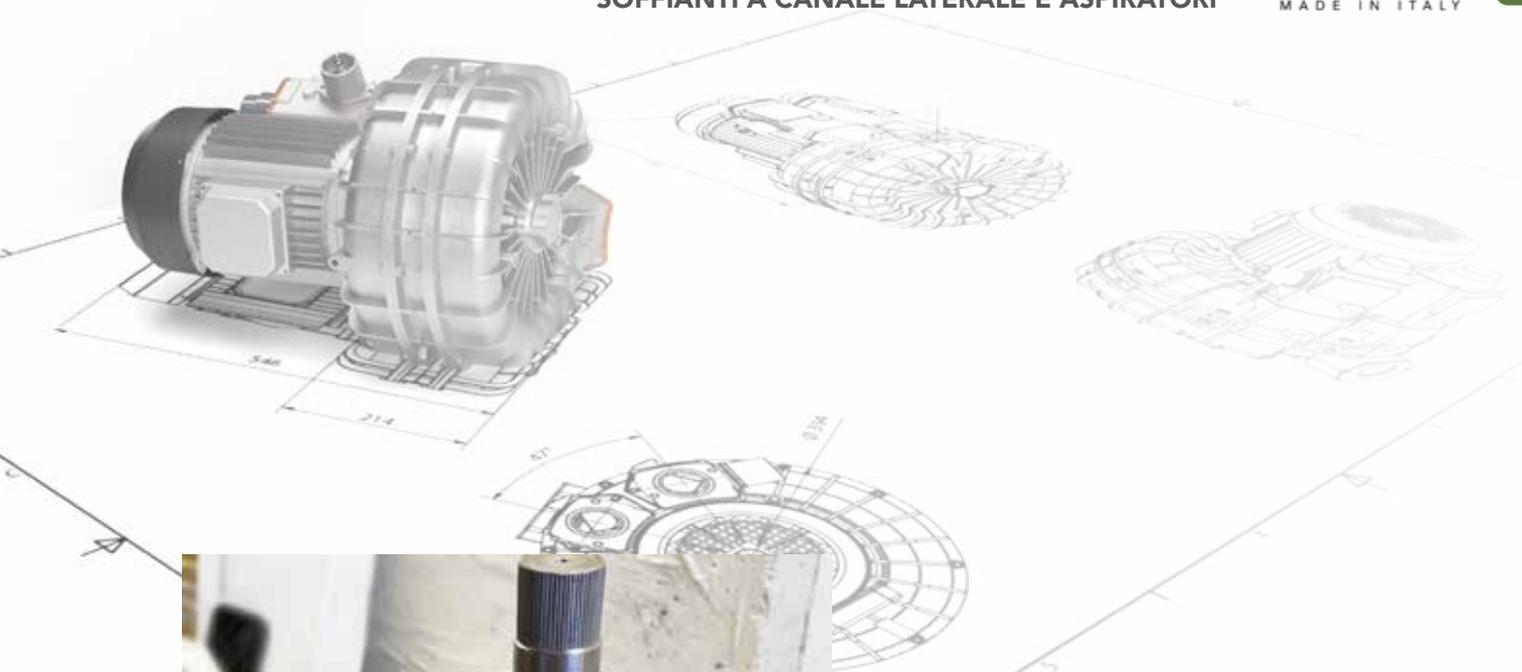
LE VOSTRE **esigenze** IL NOSTRO **impegno**

SOLARYS, dal **2001** produttrice di turbine a canale laterale mono e doppio stadio, lavorano in soffiaggio e scarico tramite compressione di gas o miscele non esplosive. Il funzionamento senza lubrificazione e con una manutenzione minima garantisce l'assenza di oli dai fluidi compressi. Le turbine sono accoppiate direttamente al motore elettrico trifase o monofase, asincrono **50/60 Hz**, con grado di protezione fino a **IP 65** dotate di protezione termica sull'avvolgimento.



I PRINCIPALI VANTAGGI DETERMINATI DALL'IMPIEGO DELLE TURBINE SOLARYS A CANALE LATERALE SONO:

- manutenzione minima;
- fluidi compressi rimangono incontaminati;
- silenziosità di lavoro;
- minimo ingombro e peso;
- facilità di installazione;
- stabilità e assenza di vibrazioni.



SOFFIANTI

Soffianti e aspiratori a canale laterale sono la prima scelta nei progetti di automazione per le applicazioni che richiedono grandi volumi d'aria pulita e asciutta, con basse pressioni e vuoto.

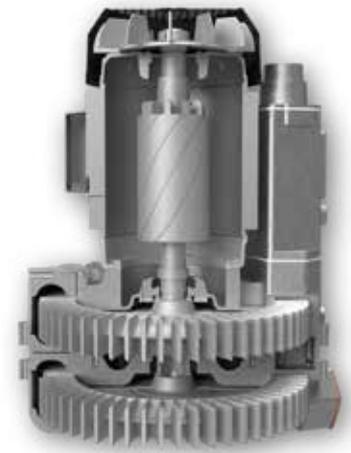
SOLARYS ha voluto presentare un prodotto che offre facilità di installazione come gli altri nostri prodotti, con bassi livelli di rumorosità, mantenendo sempre come obiettivo il risparmio energetico.



**DISPONIBILE PER:
ATEX ZONA 21
ATEX ZONA 2-22**

Soffianti e aspiratori a canale laterale funzionano in base al principio dei canali laterali, sia in aspirazione che in compressione, e sono progettate per lavorare in servizio continuo.





■ La girante è montata direttamente sull'albero motore per una compressione senza attrito e insieme all'alloggiamento appositamente sagomato, forma il canale laterale.

■ La modellatura per pressofusione di leghe dell'alluminio e la lavorazione di parti completate nel processo di taglio garantiscono la massima robustezza, maneggevolezza e un miglioramento in termini di precisione rispetto alle tradizionali tecnologie.



■ La manutenzione ordinaria non è necessaria in quanto non vi sono parti in contatto; il funzionamento in continuo è ottenibile solamente entro certi intervalli di pressione in quanto l'aria aspirata è utilizzata anche come fluido di raffreddamento. Per evitare questa restrizione viene consigliata l'installazione di valvole di limitazione del vuoto e della pressione che permette di non danneggiare il motore.





E' consentito il montaggio ad asse orizzontale e verticale su tutti i modelli.

Non superare in nessun caso il massimo amperaggio indicato nelle tabelle e in targa in funzione della potenza installata.

E' possibile applicare una valvola limitatrice.



DICHIARAZIONE DI CONFORMITÀ ALLA DIRETTIVA MACCHINE



1. L'unità è conforme alla: DIRETTIVA MACCHINE: 2006/42/CE | DIRETTIVA EMC: 2014/35/UE | DIRETTIVA SULLA BASSA TENSIONE: 2014/30/UE

Tuttavia, è vietato mettere in servizio l'unità prima che la macchina in cui sarà incorporata sia dichiarata conforme alle suddette direttive.

2. L'unità è stata testata e soddisfa le sue prestazioni operative.

Il design della girante migliora le prestazioni compressive della macchina, mentre la sua classe di protezione IP65 la rende adatta per le applicazioni in tutto il mondo.



per ogni **settore & applicazione**

Prestazioni elevate. Massima continuità operativa. Zero compromessi.

Le turbine a canale laterale **SOLARYS** sono progettate per garantire funzionamento continuo, efficienza energetica e versatilità applicativa. Disponibili in versione monostadio (per pressioni moderate) o doppio stadio (per pressioni elevate), offrono una soluzione affidabile per il convogliamento di aria e gas su una vasta gamma di macchinari e impianti.

Silenziose, sicure e praticamente esenti da manutenzione, sono la scelta ideale per ambienti industriali esigenti.



TECNOLOGIA DI FUNZIONAMENTO

Il principio alla base delle turbine a canale laterale è semplice e ingegnoso: la rotazione della girante genera una forza centrifuga che crea vortici d'aria, incanalati e progressivamente accelerati all'interno di un canale toroidale periferico. Il risultato è un flusso costante, silenzioso e privo di pulsazioni, perfetto per applicazioni che richiedono precisione e affidabilità.



INSTALLAZIONE FACILE. MANUTENZIONE MINIMA.

Grazie all'assenza di contatto tra parti mobili, le turbine non richiedono manutenzione ordinaria. Tuttavia, per garantire una lunga durata e prevenire surriscaldamenti, è essenziale rispettare i **limiti di pressione operativa**, installando valvole di sicurezza dove necessario. Tutti i modelli possono essere utilizzati anche in *modalità compressore*, per un **flusso d'aria asciutto e stabile**. Per l'aspirazione di gas particolari o a temperature superiori ai 40°C, il nostro supporto tecnico è sempre a disposizione.



MOTORIZZAZIONE E COLLEGAMENTO

Le turbine monostadio SOLARYS sono accoppiate direttamente a motori elettrici asincroni a 2 poli, disponibili in versione *monofase* o *trifase* (50/60Hz – 2800/3300 rpm), con grado di protezione fino a **IP65**, per un impiego sicuro anche in ambienti difficili.



SICUREZZA CERTIFICATA ATEX PER ATMOSFERE POTENZIALMENTE ESPLOSIVE

In alcuni ambienti industriali, la presenza di gas infiammabili, vapori, polveri combustibili o nebbie può creare un'atmosfera potenzialmente esplosiva. In questi contesti, è fondamentale utilizzare apparecchiature progettate secondo la direttiva ATEX (ATmosphères EXplosibles), che ne certifica la sicurezza.



Le turbine ATEX possono essere installate in:

ZONA 2 (GAS): ambiente dove la presenza di gas esplosivi è occasionale e di breve durata

ZONA 22 (POLVERI): presenza di polveri combustibili solo in caso di guasto o evento straordinario

Le turbine ATEX SOLARYS integrano una serie di soluzioni tecniche studiate nei minimi dettagli:

- **Motore antiscintilla**, completamente chiuso, per eliminare ogni possibilità di innesco.
- **Struttura rinforzata e messa a terra**, che neutralizza le cariche elettrostatiche.
- **Componenti selezionati, resistenti** a sostanze chimiche potenzialmente pericolose.
- **Assenza di lubrificanti interni**, per evitare emissioni o vapori infiammabili.
- **Temperatura sotto controllo**, con una superficie che non supera mai i 135°C (classe T3), anche in condizioni di utilizzo prolungato.

Scegliere una turbina **ATEX SOLARYS** significa **proteggere le persone, gli impianti e la produttività**, assicurando prestazioni affidabili anche dove le condizioni operative impongono le massime precauzioni. Per esigenze particolari o personalizzazioni, **il nostro team tecnico è a disposizione** per affiancarti nella scelta della soluzione più adatta alla tua zona classificata.



APPLICAZIONI

Le turbine **SOLARYS** trovano impiego in numerose applicazioni, tra cui:

- Trasporto pneumatico di polveri e granuli
- Impianti di depurazione delle acque
- Bagni galvanici
- Ossigenazione per acquari e allevamenti ittici
- Alimentazione d'aria in forni industriali e bruciatori
- Macchine da stampa e confezionamento
- Nebulizzazione e atomizzazione in agricoltura
- Agitazione di liquidi alimentari
- Sistemi di lavaggio e riempimento bottiglie
- Aspiratori industriali e apparecchiature dentali
- Industrie chimiche, farmaceutiche, fotografiche
- Lavorazione del vetro e materie plastiche



CODIFICA turbine

MM: MONOFASE MONOSTADIO

MMF: MONOFASE MONOSTADIO ASPIRAZIONE FRONTALE

M: MONOSTADIO TRIFASE

MF: MONOSTADIO TRIFASE ASPIRAZIONE FRONTALE

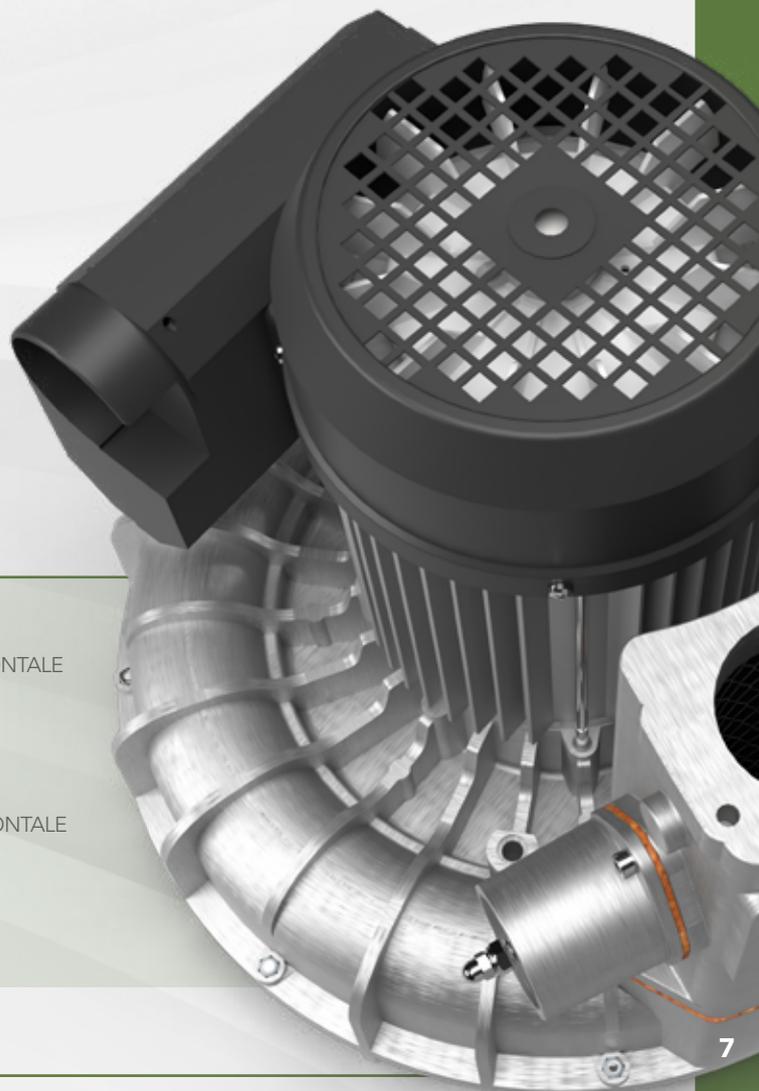
BP: BISTADIO TRIFASE PARALLELO

BPF: BISTADIO TRIFASE PARALLELO ASPIRAZIONE FRONTALE

BS: BISTADIO TRIFASE STADIO

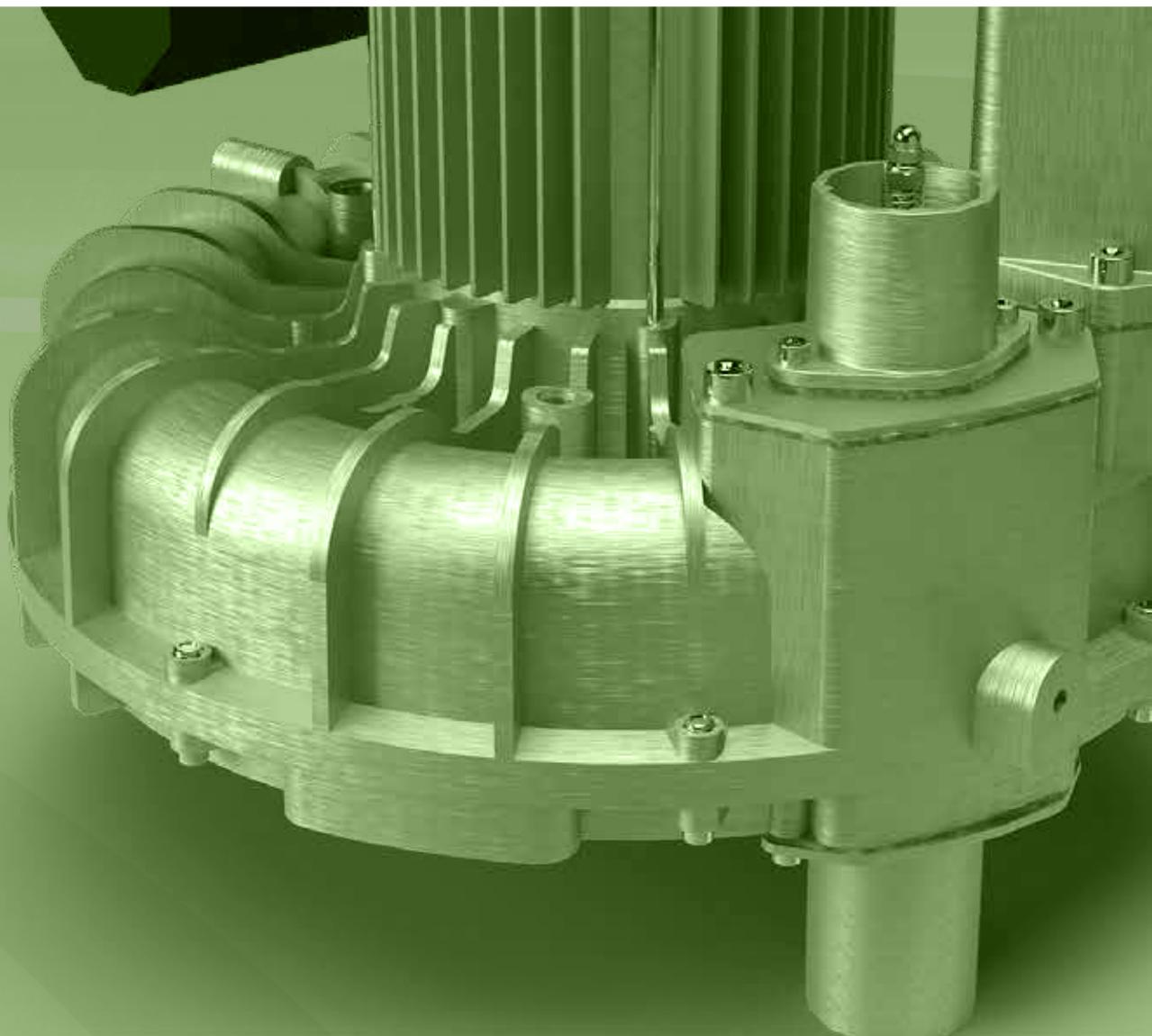
BSF: BISTADIO TRIFASE STADIO

EX: ZONA ATEX





MONOSTADIO MONOFASE



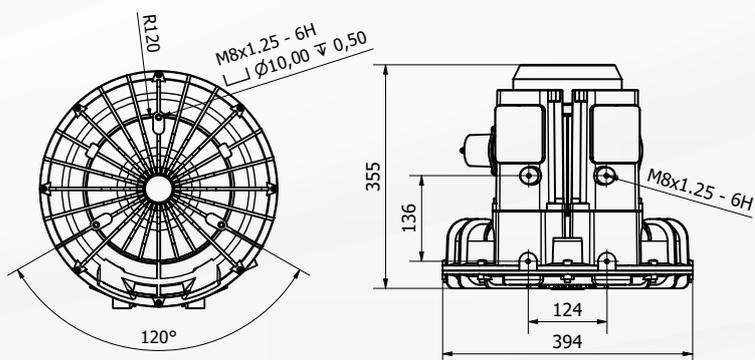


422 MM/MMF

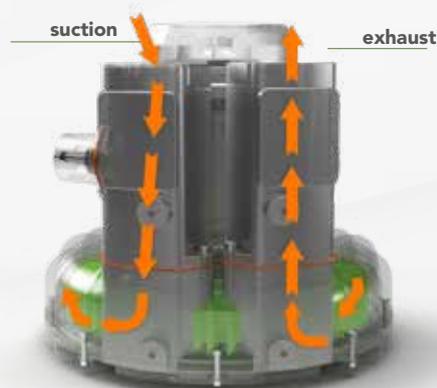
Le turbine **monostadio monofase** sono progettate per aspirare o comprimere gas e miscele non esplosive in modo affidabile e continuo. Costruite in lega di alluminio pressofuso, offrono robustezza, leggerezza e resistenza nel tempo, con un design compatto e privo di saldature. Grazie al motore direttamente accoppiato e al basso livello di rumorosità, rappresentano la soluzione ideale per applicazioni dove è richiesta efficienza, silenziosità e facilità d'installazione, anche in assenza di rete trifase.



DIMENSIONI 422 MM



FUNZIONAMENTO 422 MM



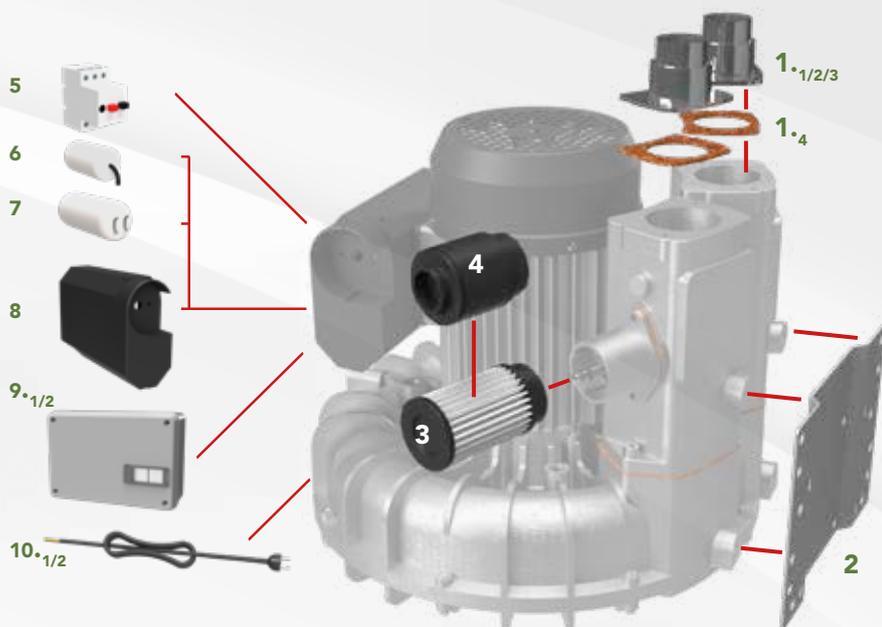
OPTION 422 MM/MMF

- **1.1** RACCORDO FLANGIATO Ø50-60 | **cod. 600383**
- **1.2** RACCORDO FLANGIATO TORNITO Ø60 | **cod. 200126**
- **1.3** RACCORDO FLANGIATO TORNITO Ø70 | **cod. 200634**
- **1.4** GUARNIZIONE RACCORDO FLANGIATO | **cod. 600033**
- **2** PIASTRA SUPPORTO TURBINA ZINCATA | **cod. 600412**
- **3** SILENZIATORE NERO VALVOLA | **cod. 200242**
- **4** FILTRO VALVOLA LIMITATRICE | **cod. 600192**
- **5** INTERRUTTORE SALVAMOTORE 10-16 A | **cod. 600534**
- **6** BREAKER ELMC B05 CSTART 50UF 50X94 M8 CB300 | **cod. 600395**
- **7** CONDENSATORE MONOFASE 60 µF CON DOPPIO FASTON | **cod. 600198**
- **8** SCATOLA PORTACONDENSATORE FKL | **cod. 600625**
- **9** SCATOLA INTERRUTTORI IGNIF. (CONF. 11ML) APERTA | **cod. 600334**
- **9.1** SCATOLA INTERRUTTORI IGNIF. (CONF. 11ML) CHIUSA | **cod. 601217**
- **9.2** SCATOLA INTERRUTTORI IGNIF. (CONF. 11ML) CHIUSA | **cod. 601217**
- **10.1** CAVO ALIMENTAZIONE H05 VVF 3GX2,5 | **cod. 600397**
- **10.2** CAVO ALIMENTAZIONE H07 RNF 3GX2,5 | **cod. 600492**
- **11** TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE | **cod. 300396**



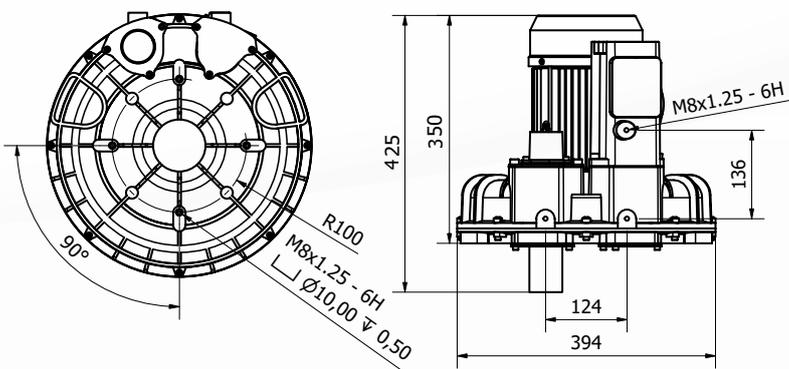
TRATTAMENTI

- **Anodizzazione:** Trattamento superficiale contro la corrosione dell'alluminio. | - **Termico:** disponibile su motori da 4 KW - 5,5 - 7,5.

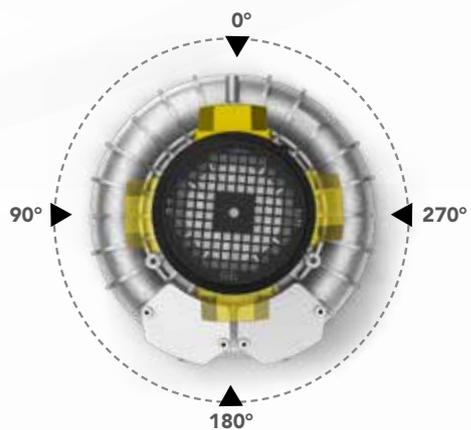




DIMENSIONI 422 MMF



ORIENTAMENTO MOTORE 422 MM/MMF



NB. Per l'orientamento a 180° non è possibile installare il silenziatore.

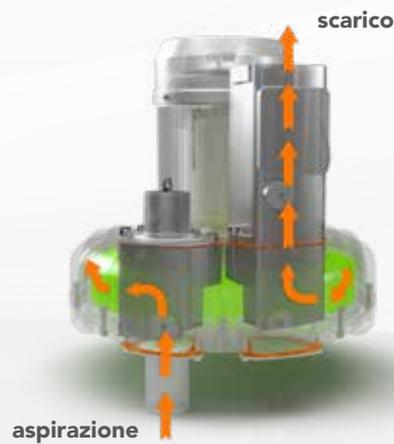


FUNZIONAMENTO

■ 422 MMF - VARIANTE 1

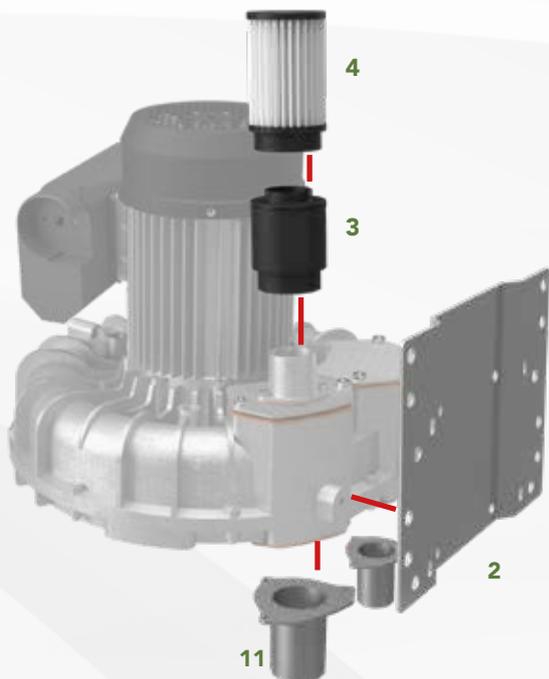


■ 422 MMF - VARIANTE 2

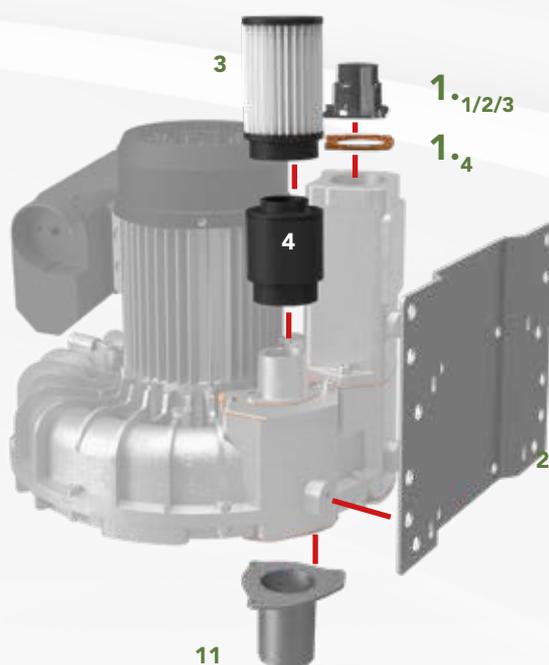


OPTION

■ 422 MMF - VARIANTE 1



■ 422 MMF - VARIANTE 2



MODEL	DESCRIPTION	VOLT	Hz	kW	A	RPM	IP
0.422MM	SINGLE PHASE TURBINE 2,2KW	230	50	2,2	15,0	2770	55
0.422MMF							



All products achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

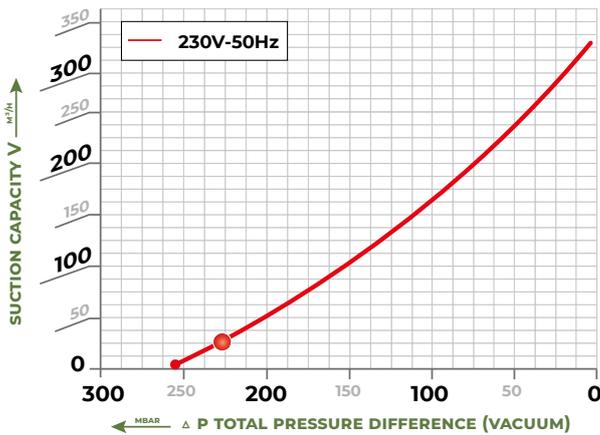
Measuring surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

The motors are designed according to the DIN EN 60034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %.

For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.



VACUUM SELECTION DIAGRAM



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperature of 25°C.



MONOSTADIO TRIFASE - BISTADIO TRIFASE



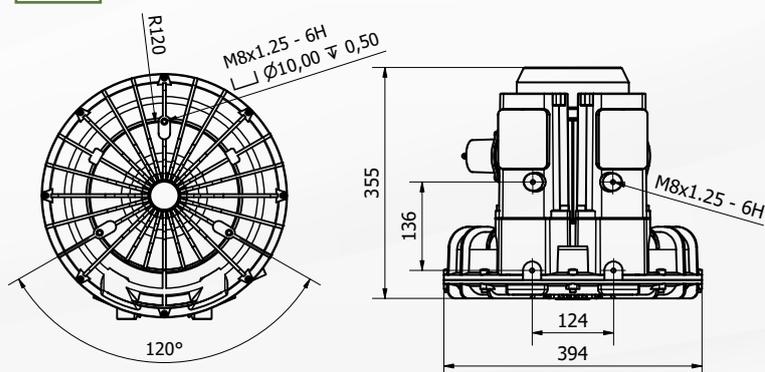


422 M/MF

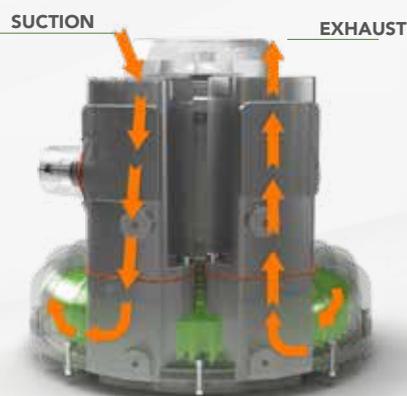
Progettate per aspirare o comprimere gas non esplosivi, le turbine **monostadio trifase** garantiscono prestazioni elevate e funzionamento continuo. Realizzate in lega di alluminio pressofuso, offrono robustezza, efficienza e silenziosità, con motore trifase direttamente accoppiato e assenza di manutenzione ordinaria. Ideali per impianti industriali ad alta affidabilità.



DIMENSIONI 422 M



FUNZIONAMENTO 422 M



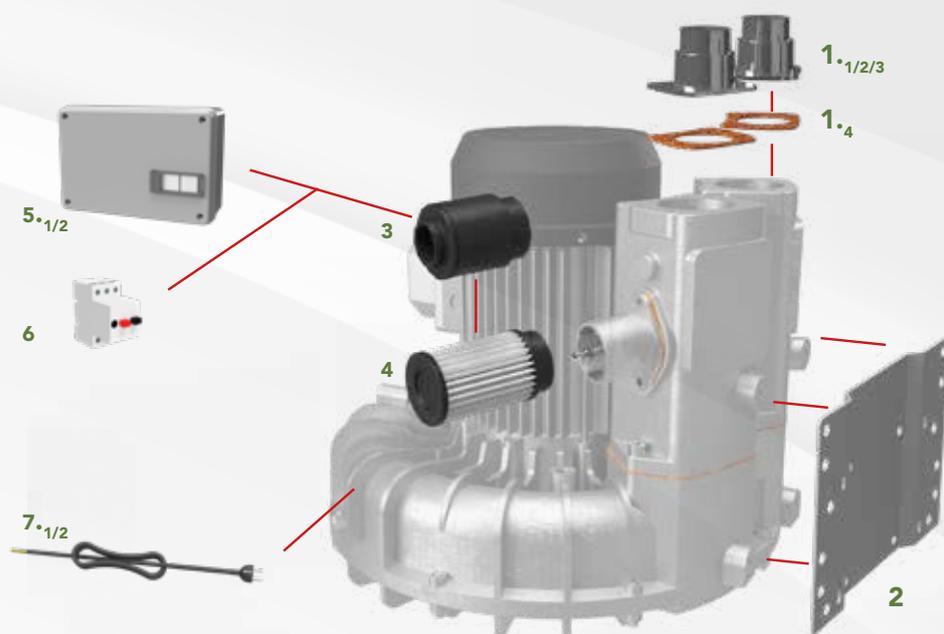
OPTION 422 M/MF

- 1.₁ RACCORDO FLANGIATO Ø50-60 | **cod. 600383**
- 1.₂ RACCORDO FLANGIATO TORNITO Ø60 | **cod. 200126**
- 1.₃ RACCORDO FLANGIATO TORNITO Ø70 | **cod. 200634**
- 1.₄ GUARNIZIONE RACCORDO FLANGIATO | **cod. 600033**
- 2 PIASTRA SUPPORTO TURBINA ZINCATA | **cod. 600412**
- 3 SILENZIATORE NERO VALVOLA | **cod. 200242**
- 4 FILTRO VALVOLA LIMITATRICE | **cod. 600192**
- 5.₁ SCATOLA INTERRUTTORI CHIUSA | **cod. 200132**
- 5.₂ SCATOLA INTERRUTTORI IGNIF. APERTA (CONF.11ML) | **cod. 600334**
- 6 INTERRUTTORE SALVAMOTORE 6,3-10 A | **cod. 600237**
- 7.₁ CAVO ALIMENTAZIONE H05 VVF 4GX1,5 | **cod. 600107**
- 7.₂ CAVO ALIMENTAZIONE H07 RNF 4GX1,5 | **cod. 600108**
- 8.₁ TUBO Ø50 H25 FLANGIATO A CAMPANA FRONTALE | **cod. 300705**
- 8.₂ TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE CON RETE | **cod. 300531**
- 8.₃ TUBO Ø50 H40 FLANGIATO A CAMPANA FRONTALE CON RETE | **cod. 300530**
- 8.₄ TUBO FLANGIATO Ø50 | **cod. 300524**
- 8.₅ TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE | **cod. 300396**



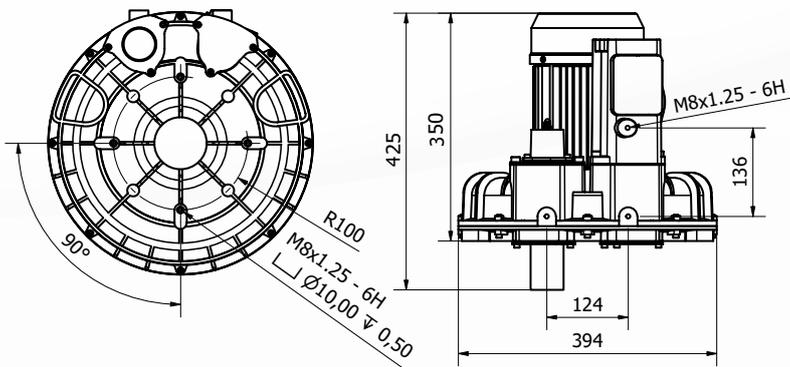
TRATTAMENTI

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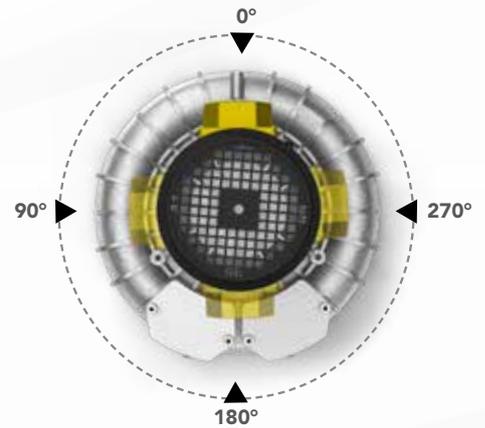




DIMENSIONI 422 MF



ORIENTAMENTO MOTORE 422 M/MF



NB. Per l'orientamento a 180° non è possibile installare il silenziatore.



FUNZIONAMENTO

■ 422 MF - VARIANTE 1

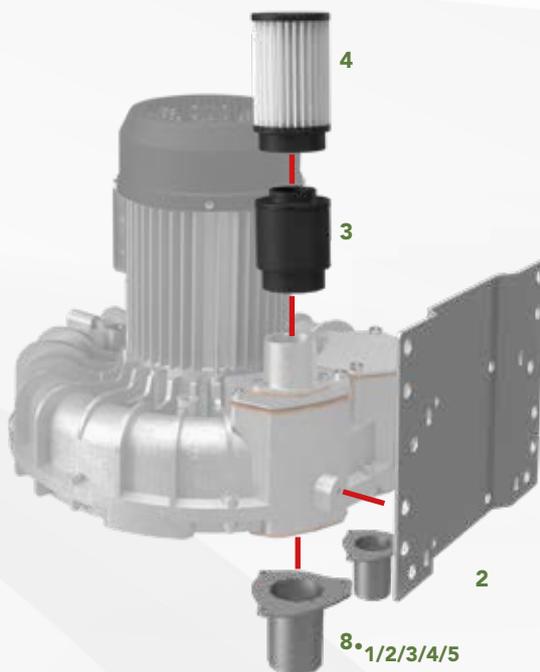


■ 422 MF - VARIANTE 2

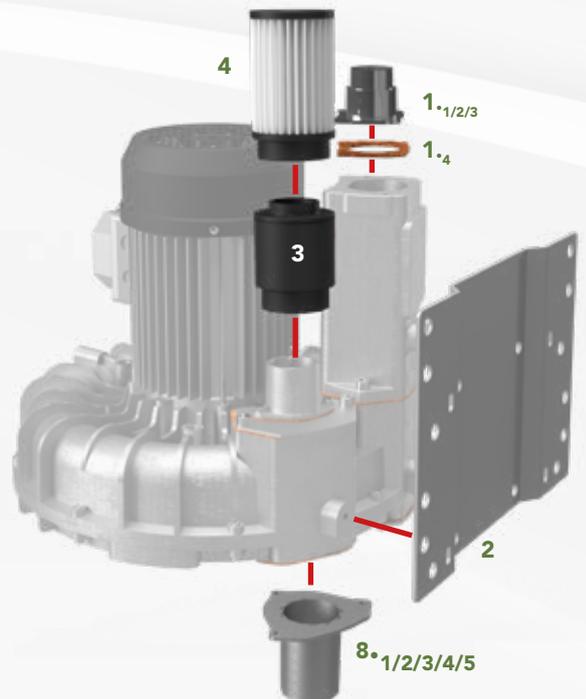


OPTION

■ 422 MF - VARIANTE 1



■ 422 MF - VARIANTE 2



MODEL	DESCRIPTION	VOLT (Δ/Y)	Hz	kW	A (Δ/Y)	RPM	IP
0.422M	TURBINA TRIFASE 2,2KW	Δ 230/ Y 400	50	2,2	Δ 8,8/ Y 5,1	2870	55
0.422MF		Δ 220/ Y 380	60	2.2	Δ 12,0/ Y 6,8	3420	55



All products achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN 60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

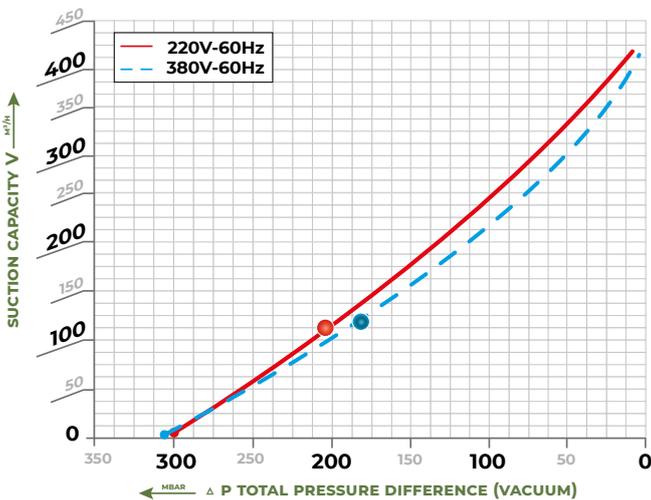
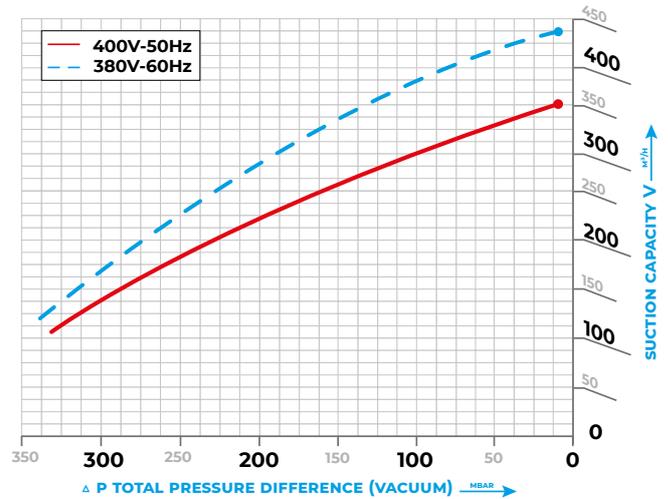
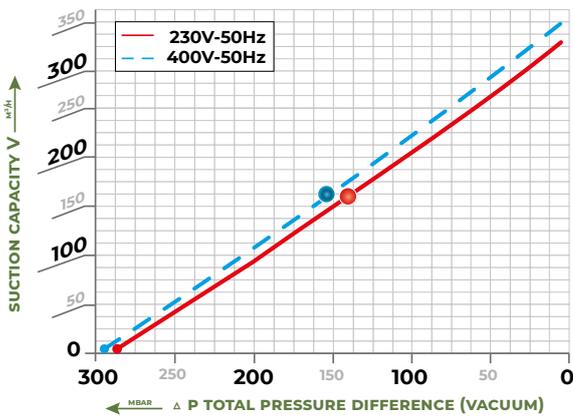
Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %.

For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.

VACUUM SELECTION DIAGRAM

COMPRESSOR SELECTION DIAGRAM



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperature of 25°C.



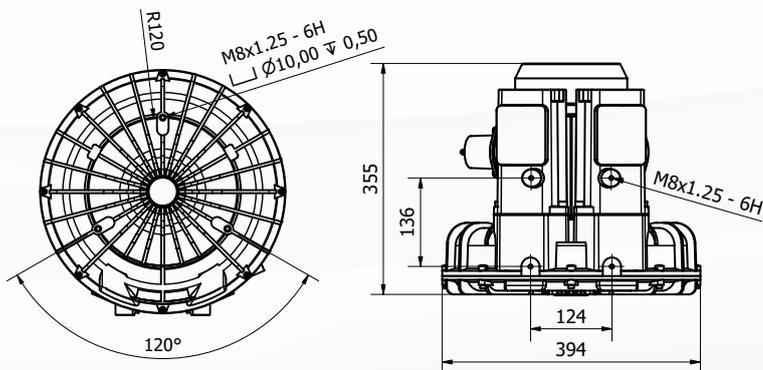
430 M/MF_200V

430 M/MF

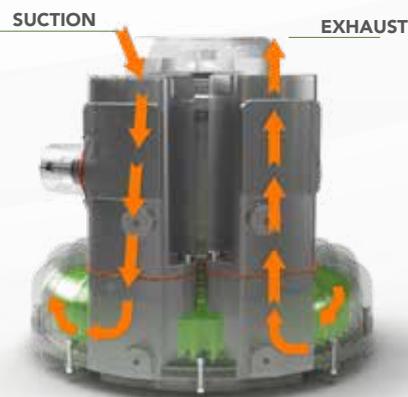
Progettate per aspirare o comprimere gas non esplosivi, le turbine **monostadio trifase** garantiscono prestazioni elevate e funzionamento continuo. Realizzate in lega di alluminio pressofuso, offrono robustezza, efficienza e silenziosità, con motore trifase direttamente accoppiato e assenza di manutenzione ordinaria. Ideali per impianti industriali ad alta affidabilità.



DIMENSIONI 430 M - 200V



FUNZIONAMENTO 430 M - 200V

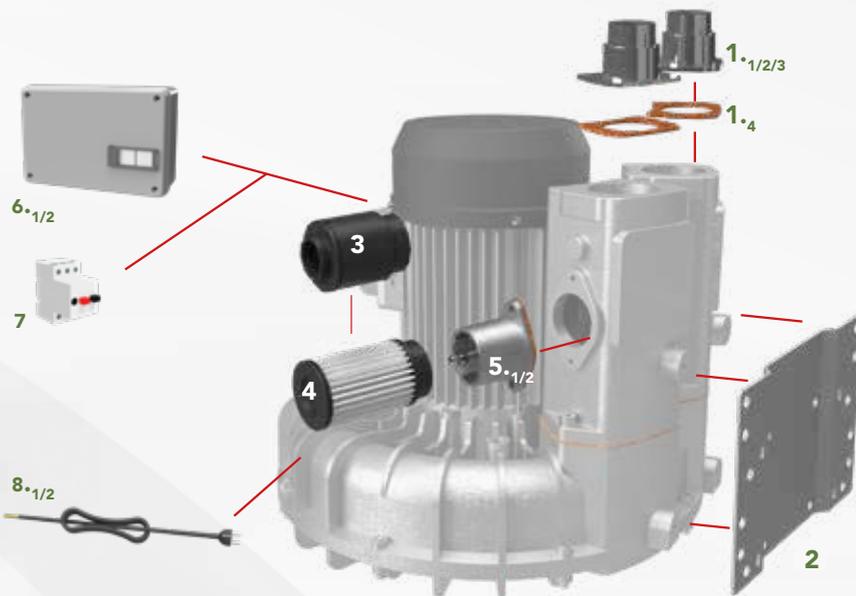


OPTION 430 M/MF - 200V

- 1.₁ RACCORDO FLANGIATO Ø50-60 | **cod. 600383**
- 1.₂ RACCORDO FLANGIATO TORNITO Ø60 | **cod. 200126**
- 1.₃ RACCORDO FLANGIATO TORNITO Ø70 | **cod. 200634**
- 1.₄ GUARNIZIONERACCORDO FLANGIATO | **cod. 600033**
- 2 PIASTRA SUPPORTO TURBINA ZINCATA | **cod. 600412**
- 3 SILENZIATORE NERO VALVOLA | **cod. 200242**
- 4 FILTRO VALVOLA LIMITATRICE | **cod. 600192**
- 5.₁ VALVOLA LIMITATRICE ASPIRAZIONE | **cod. 200164**
- 5.₂ VALVOLA LIMITATRICE SCARICO | **cod. 200165**
- 6.₁ SCATOLA INTERRUPTORI CHIUSA | **cod. 601217**
- 6.₂ SCATOLA INTERRUPTORI IGNIF. APERTA (CONF.11ML) | **cod. 600334**
- 7 INTERRUPTORE SALVAMOTORE 6,3-10 A | **cod. 600237**
- 8.₁ CAVO ALIMENTAZIONE H05 WF 4GX1,5 | **cod. 600107**
- 8.₂ CAVO ALIMENTAZIONE H07 RNF 4GX1,5 | **cod. 600108**
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- 9.₄ TUBO FLANGIATO Ø50 | **cod. 300524**
- 9.₅ TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE | **cod. 300396**

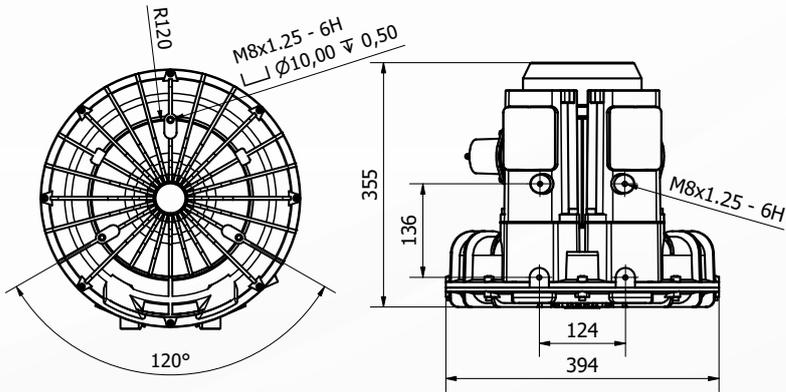


TRATTAMENTI - **Anodizzazione:** Trattamento superficiale contro la corrosione dell'alluminio. | - **Termico:** disponibile su motori da 4 KW - 5,5 - 7,5.

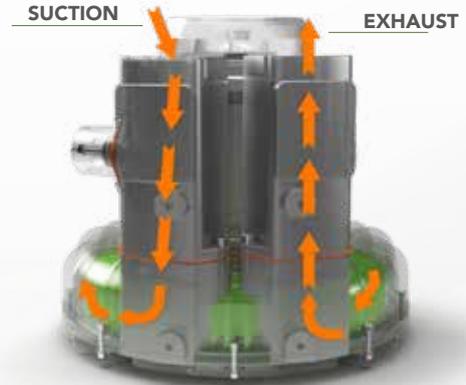




DIMENSIONI 430 M



FUNZIONAMENTO 430 M



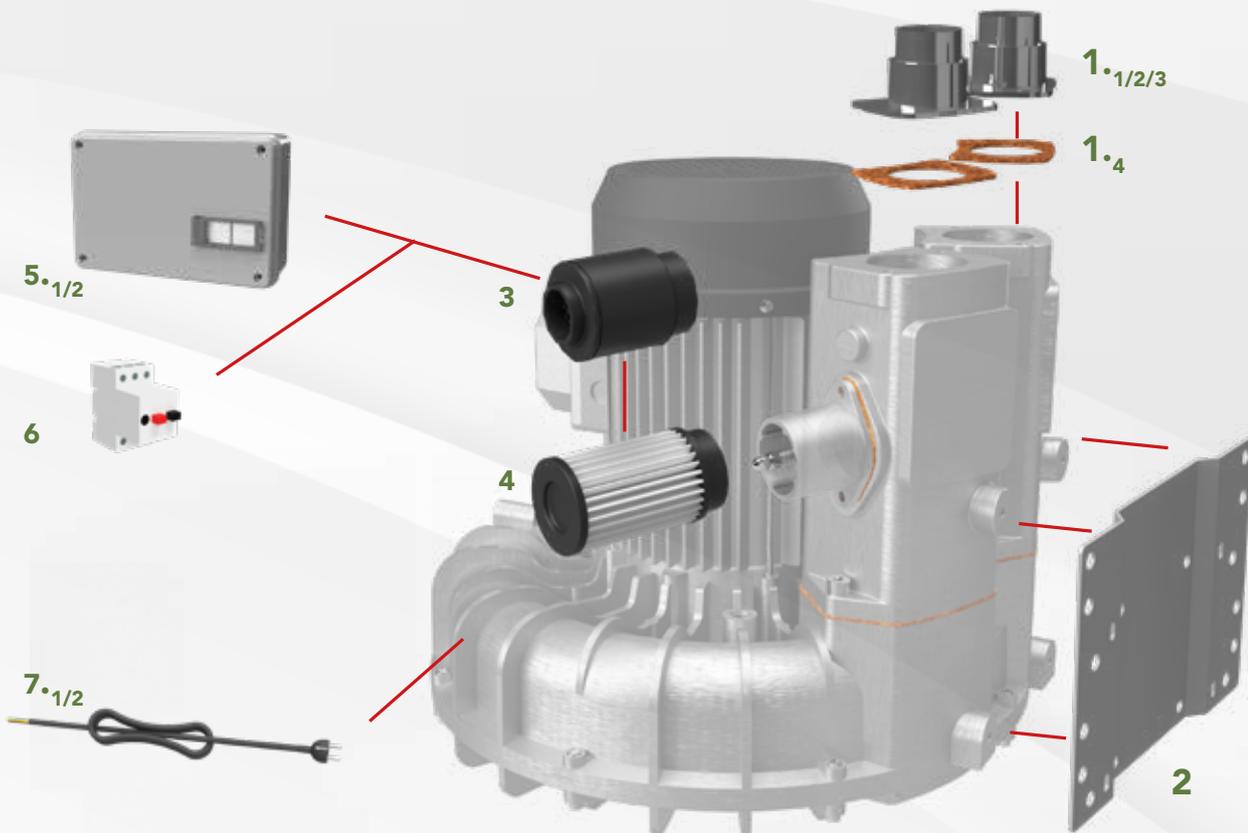
OPTION 430 M/MF

- | | | | |
|-----|--|-----|--|
| - 1 | RACCORDO FLANGIATO Ø50-60 cod. 600383 | - 6 | INTERRUTTORE SALVAMOTORE 6,3-10 A cod. 600237 |
| - 1 | RACCORDO FLANGIATO TORNITO Ø60 cod. 200126 | - 7 | CAVO ALIMENTAZIONE H05 WF 4GX1,5 cod. 600107 |
| - 1 | RACCORDO FLANGIATO TORNITO Ø70 cod. 200634 | - 7 | CAVO ALIMENTAZIONE H07 RNF 4GX1,5 cod. 600108 |
| - 1 | GUARNIZIONE RACCORDO FLANGIATO cod. 600033 | - 8 | TUBO Ø50 H25 FLANGIATO A CAMPANA FRONTALE cod. 300705 |
| - 2 | PIASTRA SUPPORTO TURBINA ZINCATA cod. 600412 | - 8 | TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE CON RETE cod. 300531 |
| - 3 | SILENZIATORE NERO VALVOLA cod. 200242 | - 8 | TUBO Ø50 H40 FLANGIATO A CAMPANA FRONTALE CON RETE cod. 300530 |
| - 4 | FILTRO VALVOLA LIMITATRICE cod. 600192 | - 8 | TUBO FLANGIATO Ø50 cod. 300524 |
| - 5 | SCATOLA INTERRUTTORI CHIUSA cod. 601217 | - 8 | TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE cod. 300396 |
| - 5 | SCATOLA INTERRUTTORI IGNIF. APERTA (CONF.11ML) cod. 600334 | | |



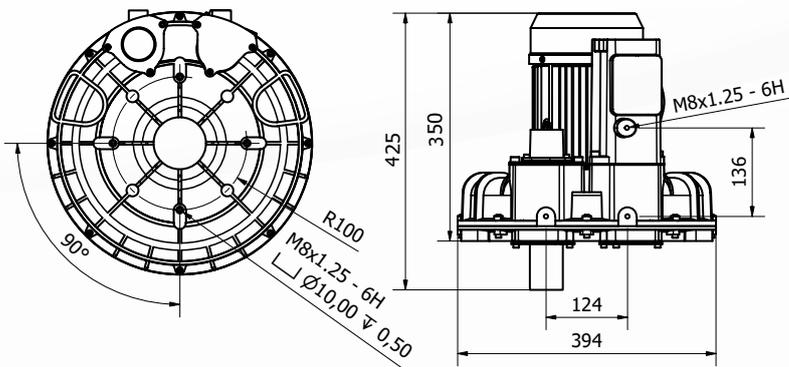
TRATTAMENTI

- **Anodizzazione:** Trattamento superficiale contro la corrosione dell'alluminio. | - **Termico:** disponibile su motori da 4 KW - 5,5 - 7,5.





DIMENSIONI 430 M/MF - 200V

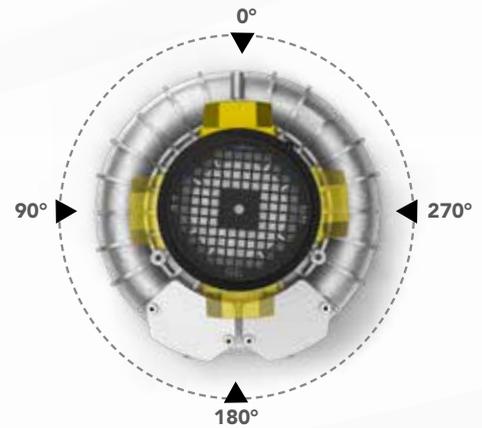


FUNZIONAMENTO

■ 430 MF - VARIANTE 1 - 200V

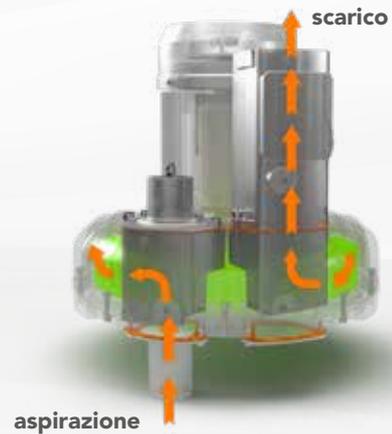


ORIENTAMENTO MOTORE 430 M/MF - 200V



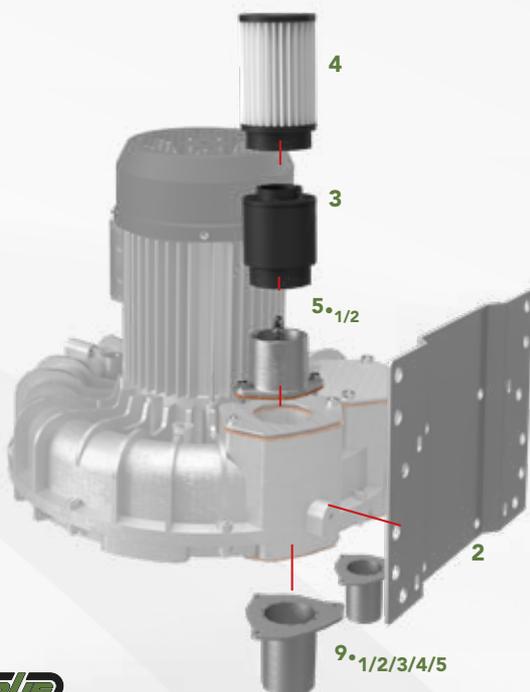
NB. Per l'orientamento a 180° non è possibile installare il silenziatore.

■ 430 MF - VARIANTE 2 - 200V

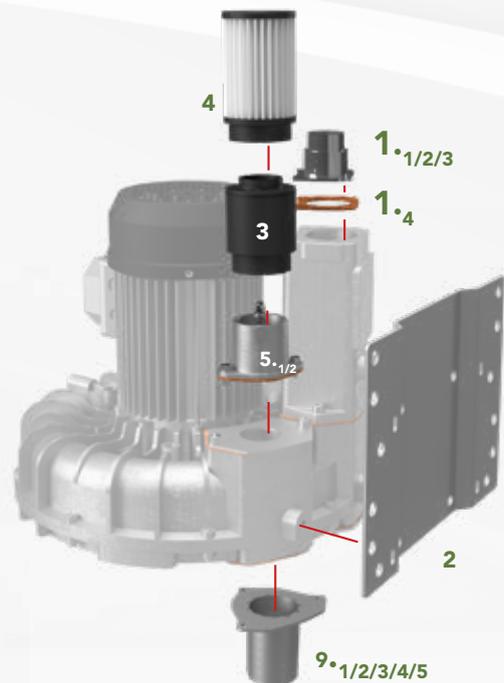


OPTION

■ 430 MF - VARIANTE 1 - 200V



■ 430 MF - VARIANTE 2 - 200V



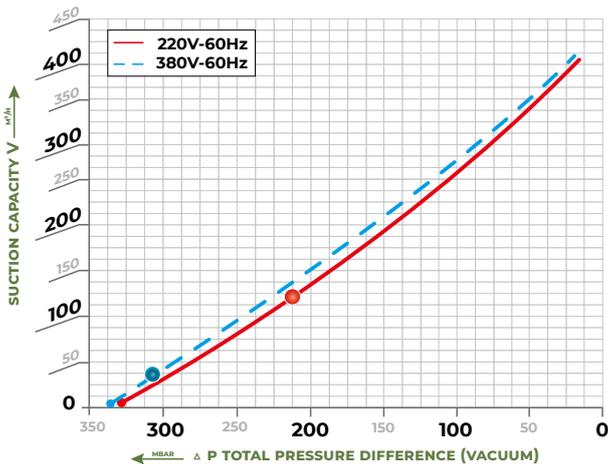
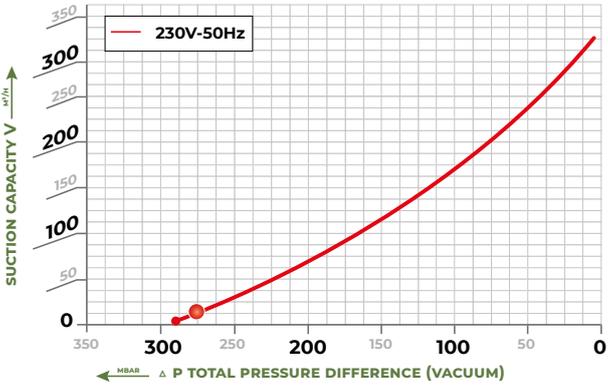
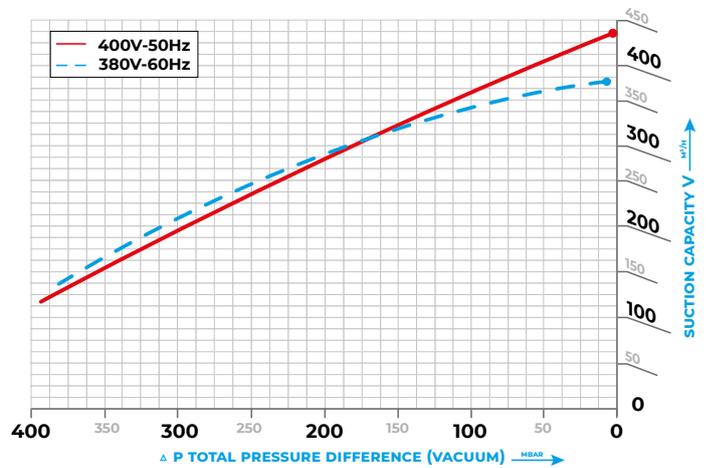
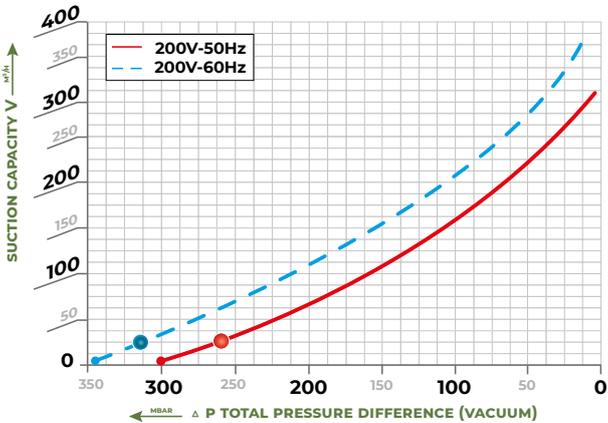
MODEL	DESCRIPTION	VOLT Δ	Hz	kW	A (Δ/Y)	RPM	IP
0.430M	THREE PHASE TURBINE 3KW	Δ 200	50	3	Δ 13,2	2800	55
0.430MF		Δ 200	60	3,6	Δ 15,1	3200	55
0.430M	THREE PHASE TURBINE 3KW	Δ 230/ Y 400	50	3	Δ 6,5/ Y 11,3	2870	55
0.430MF		Δ 220/ Y 380	60	3,6	Δ 7,4/ Y 12,8	3420	55



N.B. Never exceed the maximum Δp indicated in the graphs and in the table depending on the installed power; apply a safety valve if necessary for this purpose.

VACUUM SELECTION DIAGRAM

COMPRESSOR SELECTION DIAGRAM



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperature of 25°C.

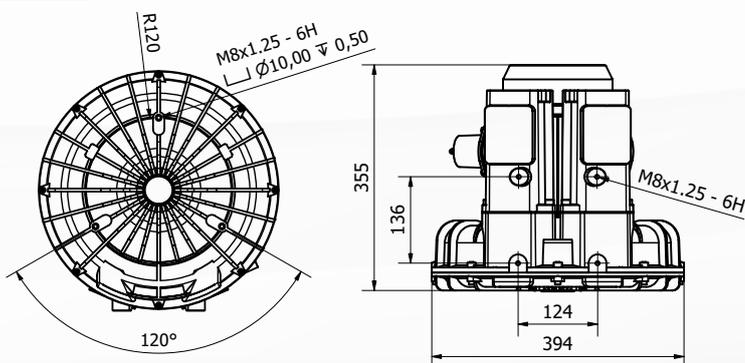


440 M/MF

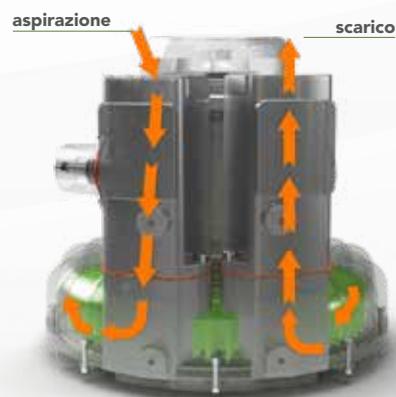
Progettate per aspirare o comprimere gas non esplosivi, le turbine **monostadio trifase** garantiscono prestazioni elevate e funzionamento continuo. Realizzate in lega di alluminio pressofuso, offrono robustezza, efficienza e silenziosità, con motore trifase direttamente accoppiato e assenza di manutenzione ordinaria. Ideali per impianti industriali ad alta affidabilità.



DIMENSIONI 440 M



FUNZIONAMENTO 440 M



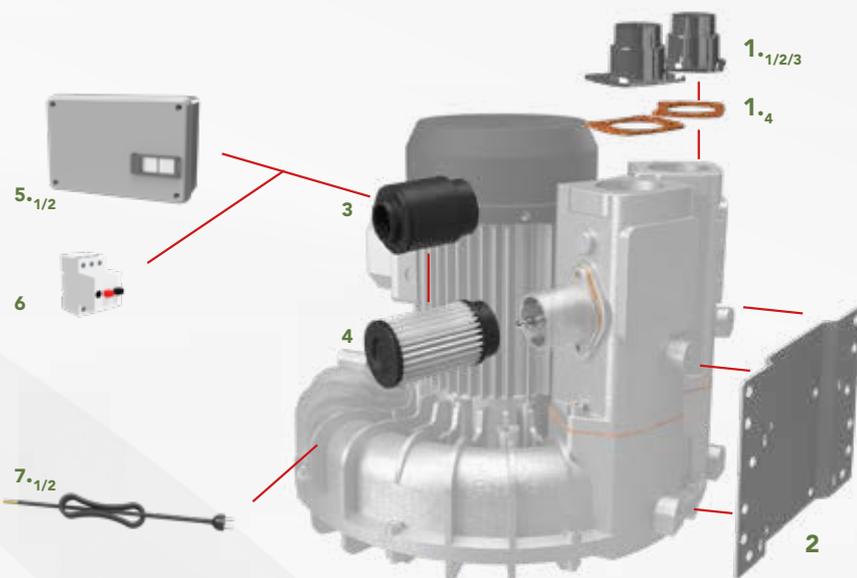
OPTION 440 M/MF

- **1.1** RACCORDO FLANGIATO Ø50-60 | **cod. 600383**
- **1.2** RACCORDO FLANGIATO TORNITO Ø60 | **cod. 200126**
- **1.3** RACCORDO FLANGIATO TORNITO Ø70 | **cod. 200634**
- **1.4** GUARNIZIONE RACCORDO FLANGIATO | **cod. 600033**
- **2** PIASTRA SUPPORTO TURBINA ZINCATA | **cod. 600412**
- **3** SILENZIATORE NERO VALVOLA | **cod. 200242**
- **4** FILTRO VALVOLA LIMITATRICE | **cod. 600192**
- **5.1** SCATOLA INTERRUTTORI CHIUSA | **cod. 601217**
- **5.2** SCATOLA INTERRUTTORI IGNIF. APERTA (CONF.11ML) | **cod. 600334**
- **6** INTERRUTTORE SALVAMOTORE 6,3-10 A | **cod. 600237**
- **7.1** CAVO ALIMENTAZIONE H05 VWF 4GX1,5 | **cod. 600107**
- **7.2** CAVO ALIMENTAZIONE H07 RNF 4GX1,5 | **cod. 600108**
- **8.1** TUBO Ø50 H25 FLANGIATO A CAMPANA FRONTALE | **cod. 300705**
- **8.2** TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE CON RETE | **cod. 300531**
- **8.3** TUBO Ø50 H40 FLANGIATO A CAMPANA FRONTALE CON RETE | **cod. 300530**
- **8.4** TUBO FLANGIATO Ø50 | **cod. 300524**
- **8.5** TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE | **cod. 300396**



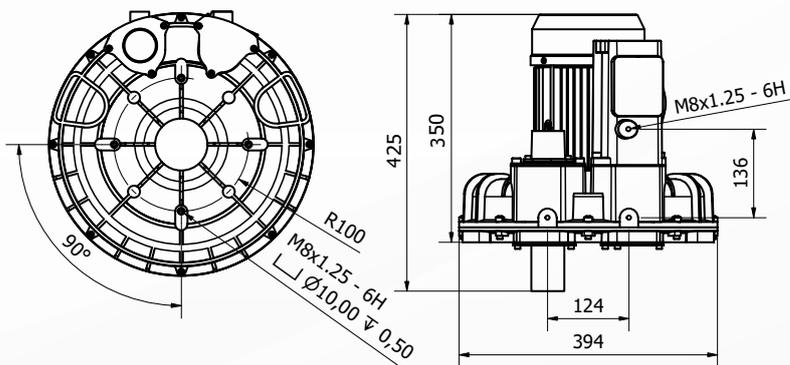
TRATTAMENTI

- **Anodizzazione:** Trattamento superficiale contro la corrosione dell'alluminio. | - **Termico:** disponibile su motori da 4 KW - 5,5 - 7,5.

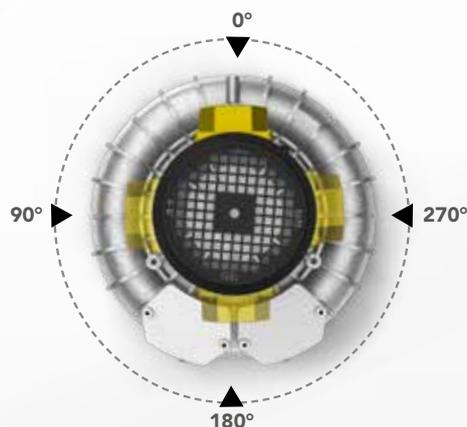




DIMENSIONI 440 MF



ORIENTAMENTO MOTORE 440 M/MF



NB. Per l'orientamento a 180° non è possibile installare il silenziatore.

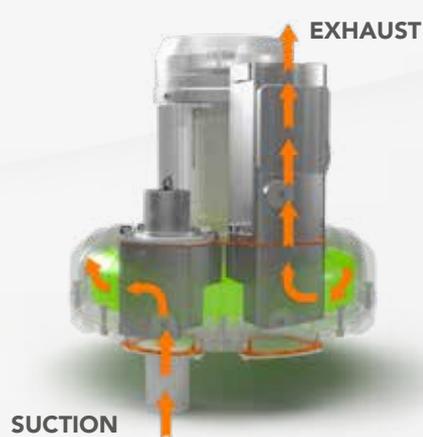


FUNZIONAMENTO

■ 440 MF - VARIANTE 1

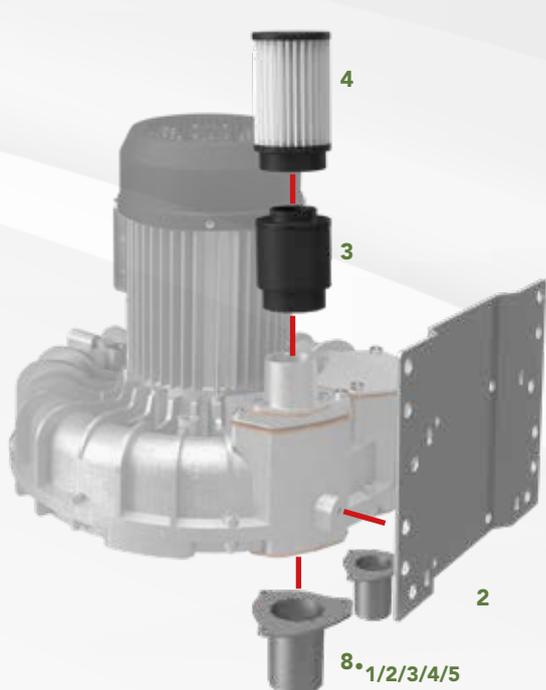


■ 440 MF - VARIANTE 2

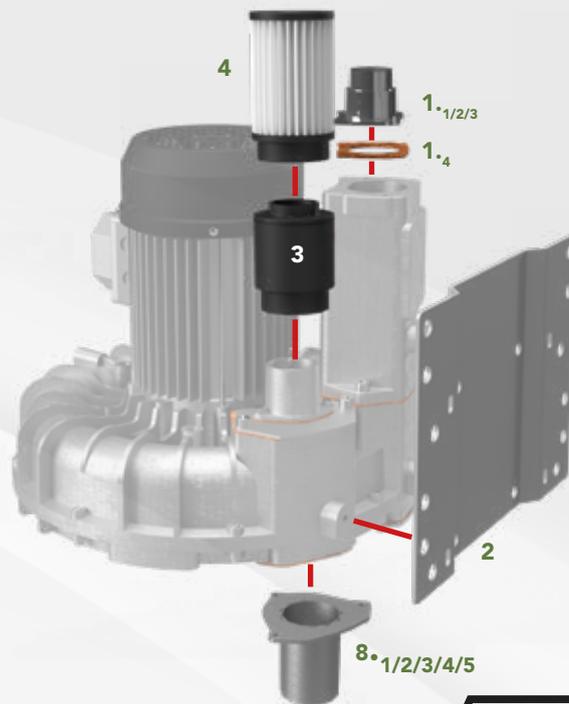


OPTION

■ 440 MF - VARIANTE 1



■ 440 MF - VARIANTE 2





MOD. 440 M/MF

SIDE CHANNEL BLOWERS AND SUCTION UNITS

MODEL	DESCRIPTION	VOLT (Δ/Y)	Hz	kW	A (Δ/Y)	RPM	IP
0.440M	TURBINA TRIFASE 4KW	Δ 230/ Y 400	50	4.0	Δ 15,4/ Y 8,9	2850	55
0.440MF		Δ 220/ Y 380	60	4.8	Δ 17,0/ Y 9,8	3370	
		Δ 276/ Y 480	60	4.8	Δ 15,4/ Y 8,9	3460	



All products achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN 60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

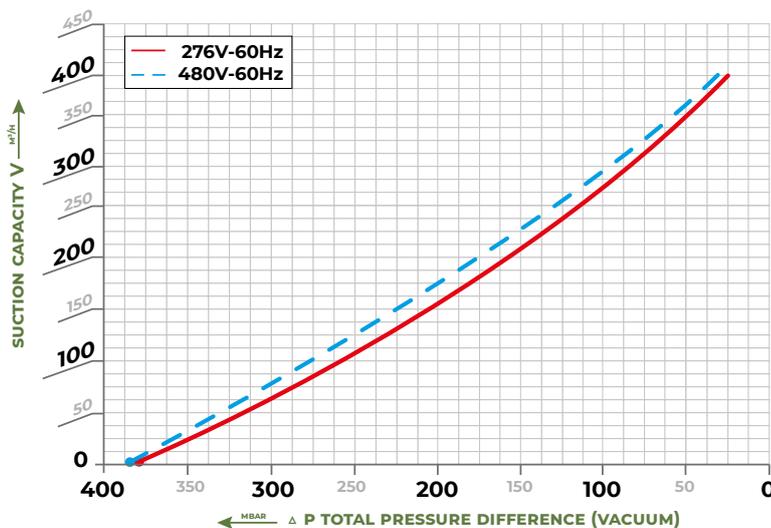
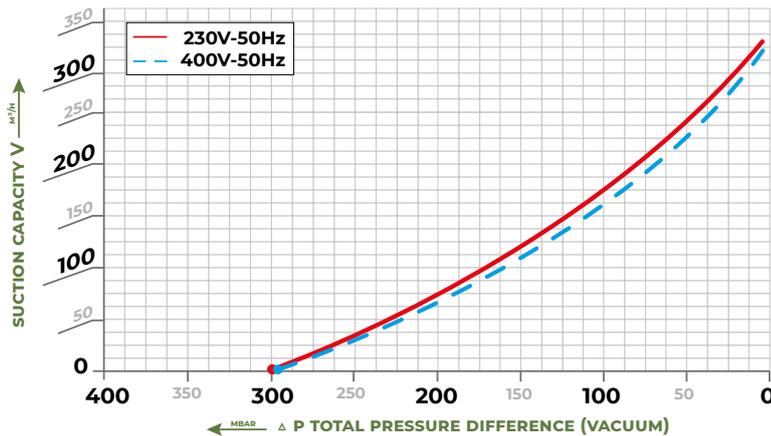
Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %.

For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.



VACUUM SELECTION DIAGRAM



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25°C.



ALTRI MODELLI MONOSTADIO TRIFASE



Curve NO.	Order No.	Frequency (Hz)	Rated power (kW)	Input voltage (V)		Input current (A)		Permissible total differential pressure (mBar)		Sound pressure (dB)	Weight ca. (Kg)
				200D - 240D	345Y - 415Y	6.6D	3.8Y	Vacuum	Compressor		
A 13	1X-4HF-M13	50	1.3	200D - 240D	345Y - 415Y	6.6D	3.8Y	-170	210	64	18
A 15	1X-4HF-M15	60	1.5	220D - 275D	380Y - 480Y	6.9D	4.0Y	-200	160	65	18



All products achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN 60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

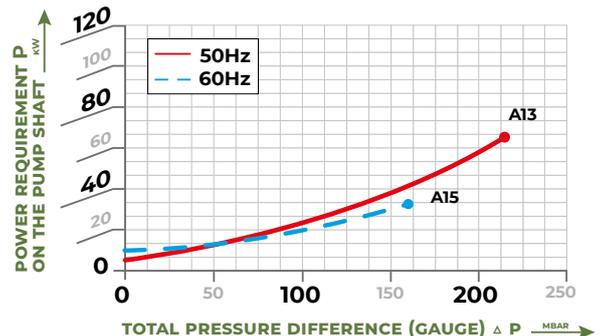
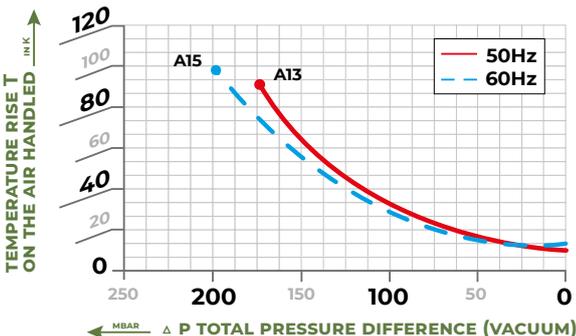
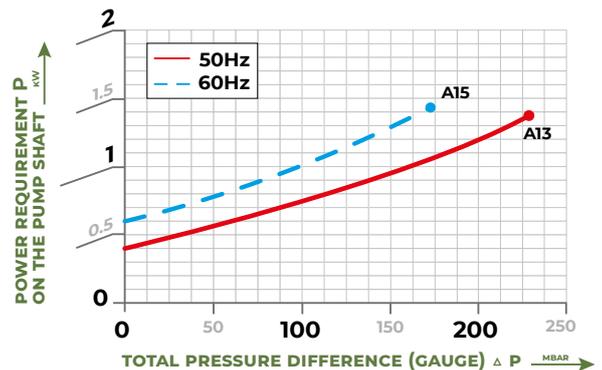
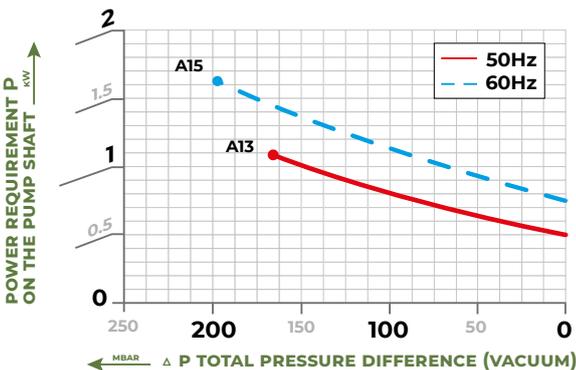
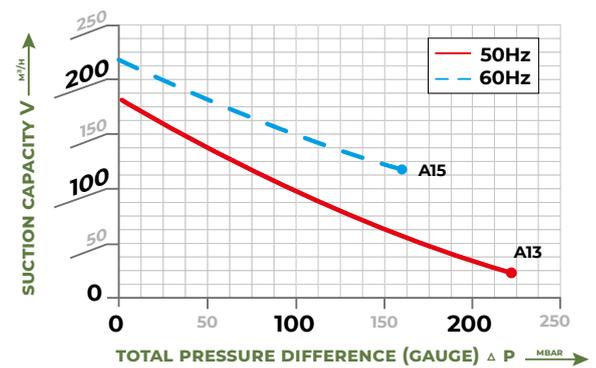
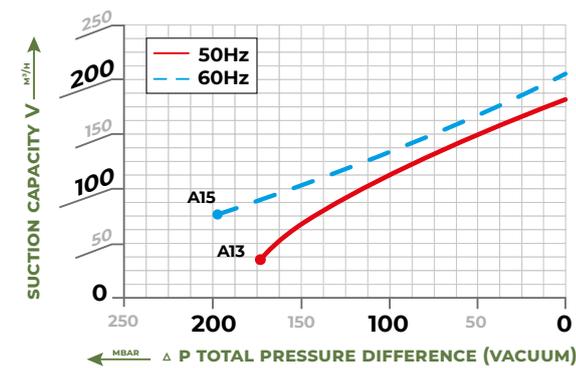
The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %.

For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.



PERFORMANCE CURVE FOR VACUUM PUMP

PERFORMANCE CURVE FOR COMPRESSOR



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of +/- 10%. The total pressure differences are valid for suction and ambient temperatures up to 25 °C. Each product can be applied both as vacuum pump and compressor in continuous operation over the total stated performance curve range. The motors are available as standard for the input voltage range of 50 and 60 Hz and for protection category IP 55 as well as approved for UL and CSA.

Curve NO.	Order No.	Frequency (Hz)	Rated power (kW)	Input voltage (V)		Input current (A)		Permissible total differential pressure (mBar)		Sound pressure (dB)	Weight ca. (Kg)
				200D - 240D	345Y - 415Y	9.7D	5.6Y	Vacuum	Compressor		
A 22	1X-5HF-M22	50	2.2	200D - 240D	345Y - 415Y	9.7D	5.6Y	-220	230	65	26
A 25	1X-5HF-M255	60	2.55	220D - 275D	380Y - 480Y	10.3D	6.0Y	-260	250	71	26



All products achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN 60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

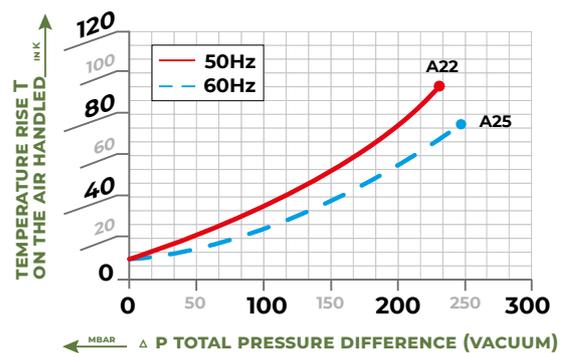
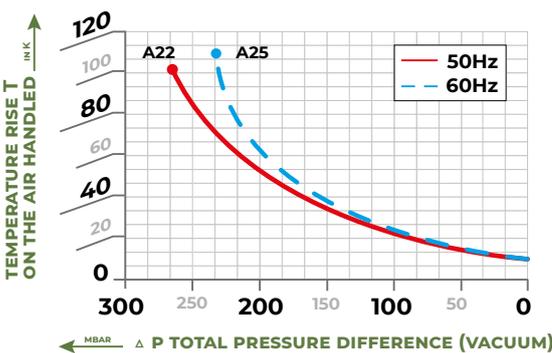
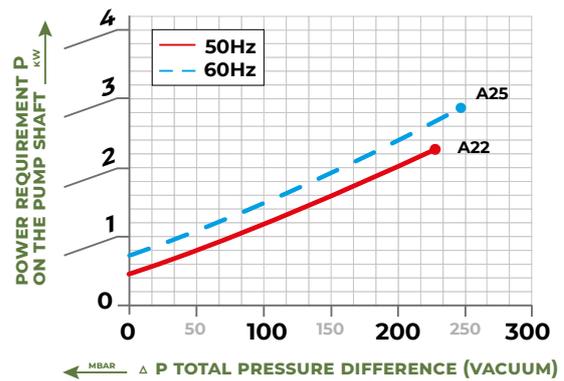
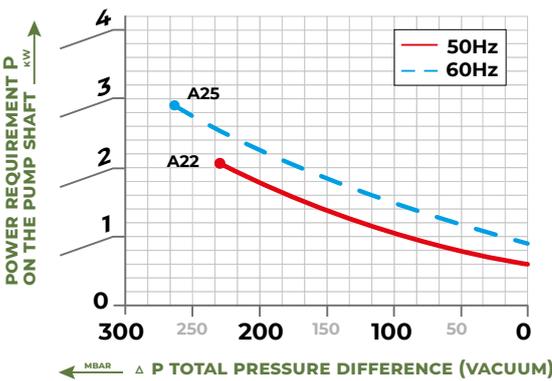
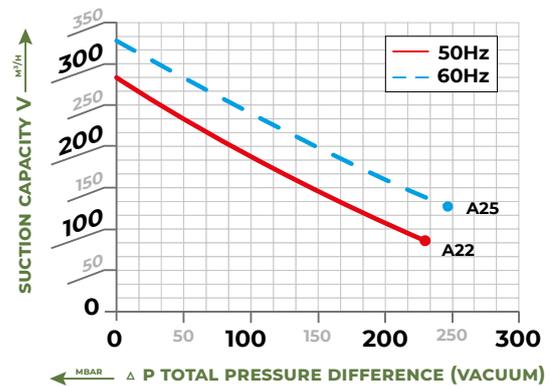
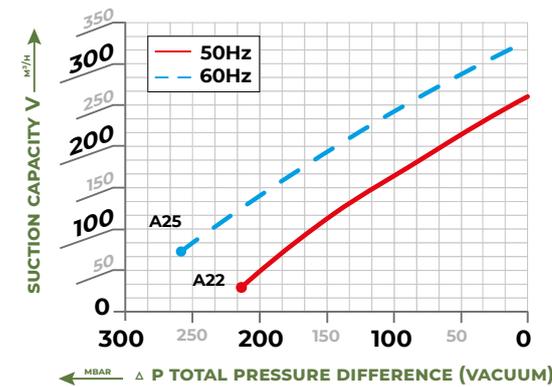
Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %.

For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.

PERFORMANCE CURVE FOR VACUUM PUMP

PERFORMANCE CURVE FOR COMPRESSOR



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of +/- 10 %. The total pressure differences are valid for suction and ambient temperatures up to 25 °C. Each product can be applied both as vacuum pump and compressor in continuous operation over the total stated performance curve range. The motors are available as standard for the input voltage range of 50 and 60 Hz and for protection category IP 55 as well as approved for UL and CSA.

Curve NO.	Order No.	Frequency (Hz)	Rated power (kW)	Input voltage (V)		Input current (A)		Permissible total differential pressure (mBar)		Sound pressure (dB)	Weight ca. (Kg)
				200D - 240D	345Y - 415Y	12.5D	7.2Y	Vacuum	Compressor		
A 30	1X-6HF-M30	50	3.0	200D - 240D	345Y - 415Y	12.5D	7.2Y	-240	220	70	12
A 34	1X-6HF-M345	60	3.45	220D - 275D	380Y - 480Y	12.6D	7.3Y	-210	220	73	12



All products achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN 60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

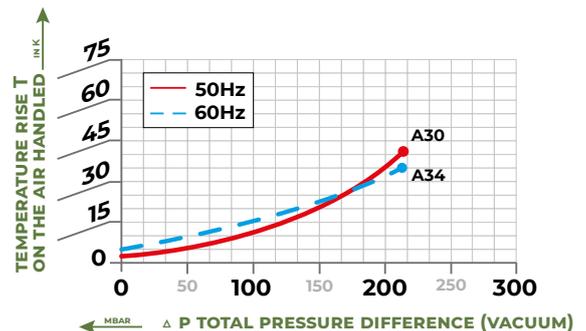
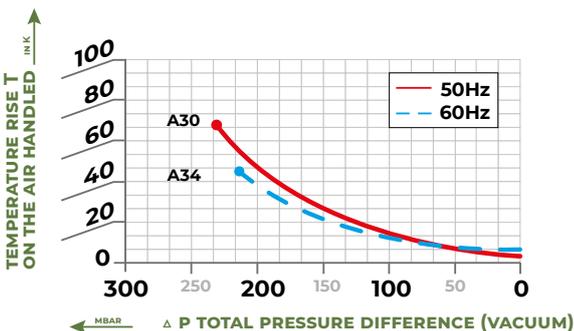
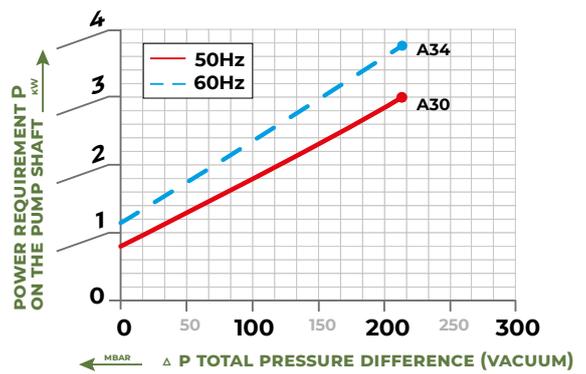
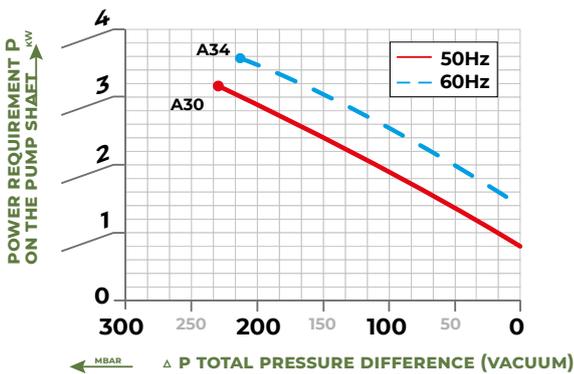
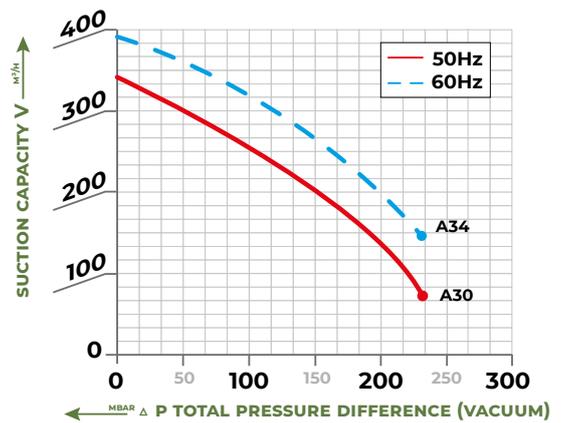
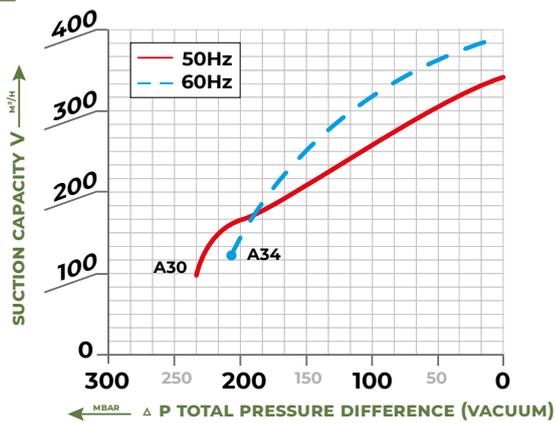
The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %.

For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.



PERFORMANCE CURVE FOR VACUUM PUMP

PERFORMANCE CURVE FOR COMPRESSOR



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of +/- 10 %. The total pressure differences are valid for suction and ambient temperatures up to 25 °C. Each product can be applied both as vacuum pump and compressor in continuous operation over the total stated performance curve range. The motors are available as standard for the input voltage range of 50 and 60 Hz and for protection category IP 55 as well as approved for UL and CSA.

Curve No.	Order No.	Frequency (Hz)	Rated power (kW)	Input voltage (V)		Input current (A)		Permissible total differential pressure (mBar)		Sound pressure (dB)	Weight ca. (Kg)
				200D - 240D	345Y - 415Y	9.7D	5.6Y	Vacuum	Compressor		
A 22	1X-7HD-MF22	50	2.2	200D - 240D	345Y - 415Y	9.7D	5.6Y	-210	200	69	30
A 25	1X-7HD-MF255	60	2.55	220D - 275D	380Y - 480Y	10.3D	6.0Y	-210	200	72	30



All products achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN 60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

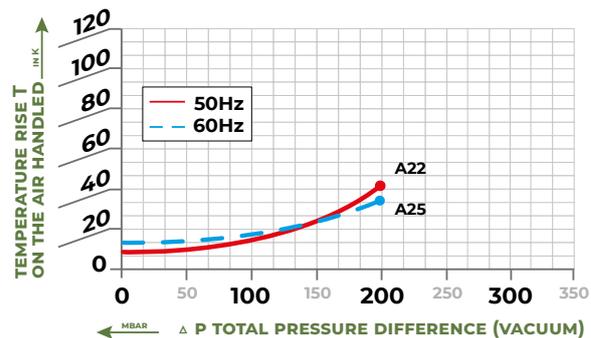
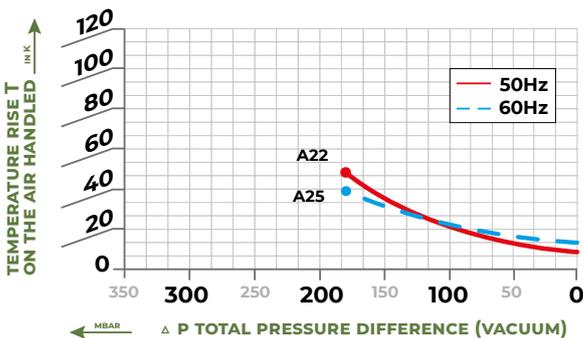
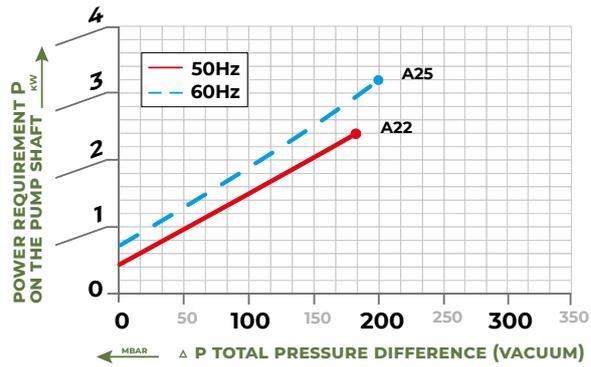
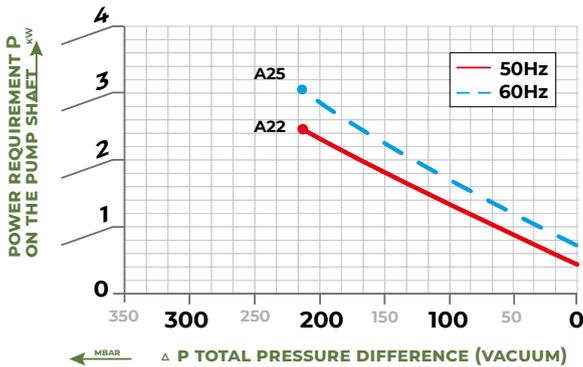
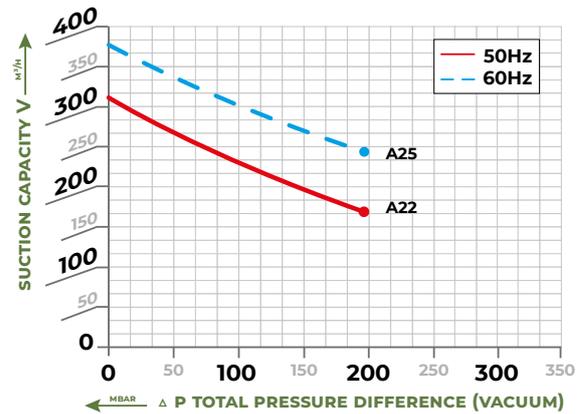
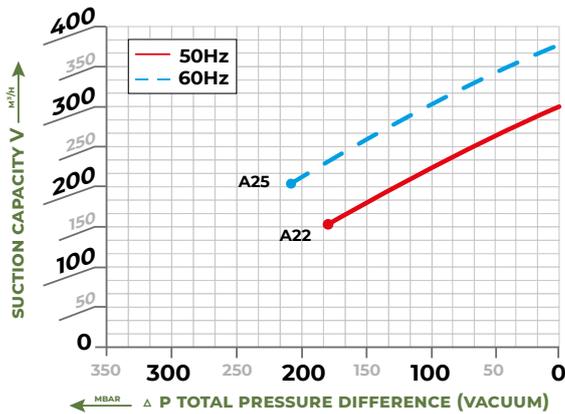
Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %.

For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.

PERFORMANCE CURVE FOR VACUUM PUMP

PERFORMANCE CURVE FOR COMPRESSOR



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of +/- 10 %. The total pressure differences are valid for suction and ambient temperatures up to 25 °C. Each product can be applied both as vacuum pump and compressor in continuous operation over the total stated performance curve range. The motors are available as standard for the input voltage range of 50 and 60 Hz and for protection category IP 55 as well as approved for UL and CSA.

Curve NO.	Order No.	Frequency (Hz)	Rated power (kW)	Input voltage (V)	Input current (A)	Permissible total differential pressure (mBar)		Sound pressure (dB)	Weight ca. (Kg)		
						Vacuum	Compressor				
A 40	1X-7HF-M40	50	4.0	345D - 415D	-	9.5D	5.5Y	-260	290	70	43
A 46	1X-7HF-M46	60	4.6	380D - 480D	-	9.5D	5.5Y	-260	280	73	43



All products achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN 60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

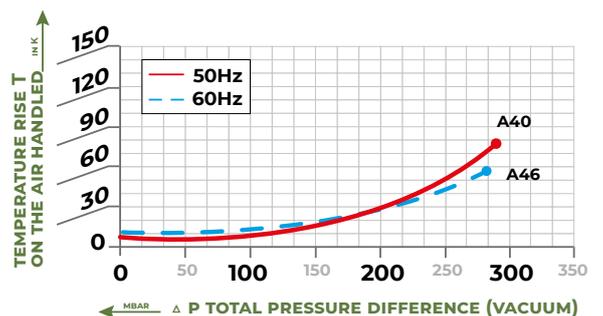
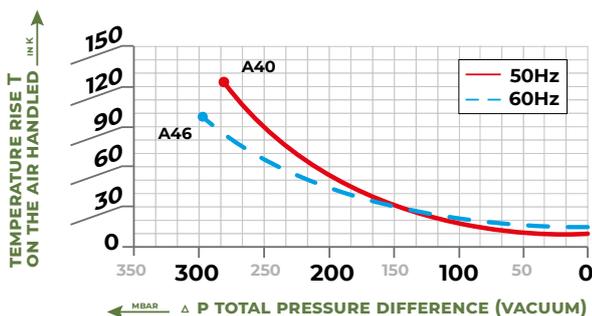
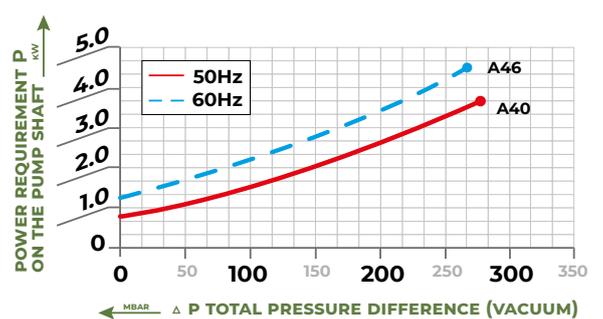
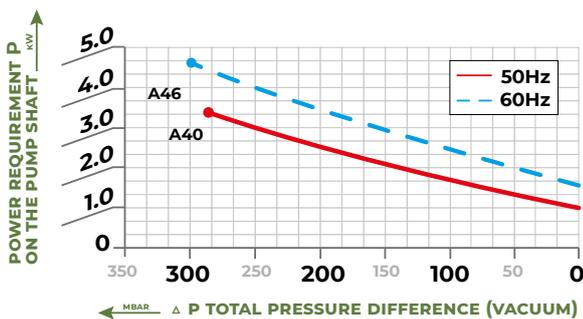
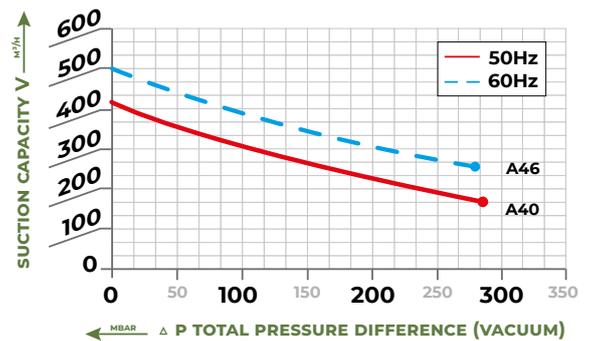
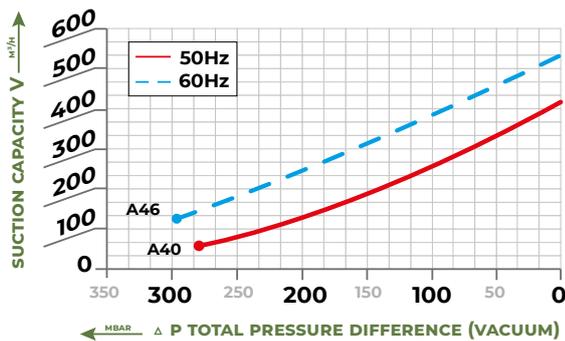
The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %.

For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.



PERFORMANCE CURVE FOR VACUUM PUMP

PERFORMANCE CURVE FOR COMPRESSOR



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of +/- 10 %. The total pressure differences are valid for suction and ambient temperatures up to 25 °C. Each product can be applied both as vacuum pump and compressor in continuous operation over the total stated performance curve range. The motors are available as standard for the input voltage range of 50 and 60 Hz and for protection category IP 55 as well as approved for UL and CSA.

Curve NO.	Order No.	Frequency (Hz)	Rated power (kW)	Input voltage (V)		Input current (A)		Permissible total differential pressure (mBar)		Sound pressure (dB)	Weight ca. (Kg)
								Vacuum	Compressor		
A 75	1X-8HF-M75	50	7.5	345D - 415D	600Y - 720Y	16.7D	9.6Y	-270	260	70	69
A 86	1X-8HF-M86	60	8.6	380D - 480D	660Y - 720Y	17.3D	10.0Y	-270	260	74	69



All products achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN 60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

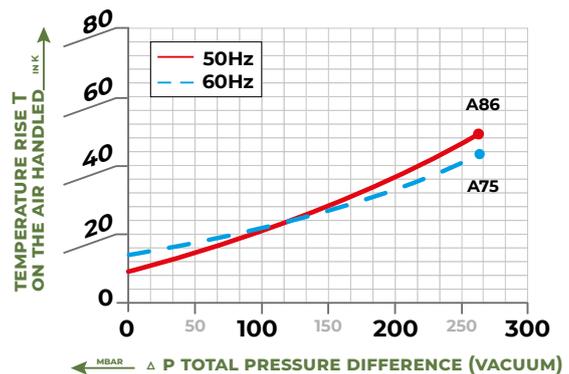
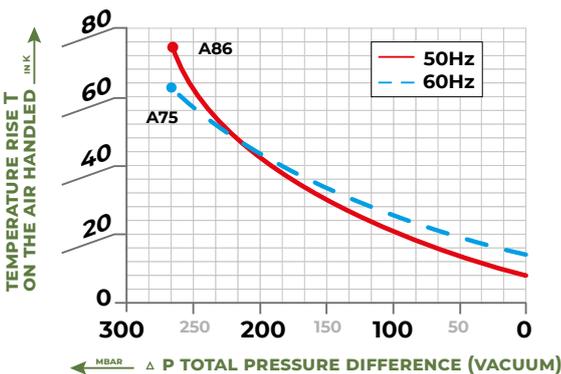
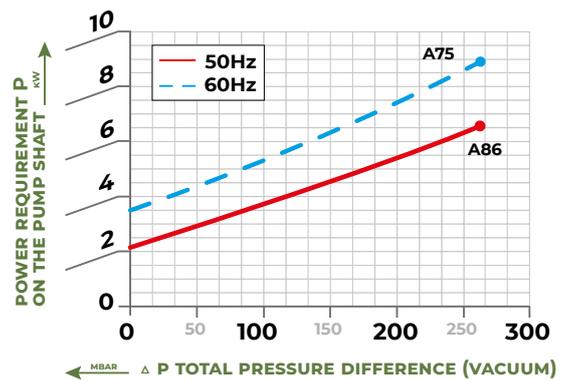
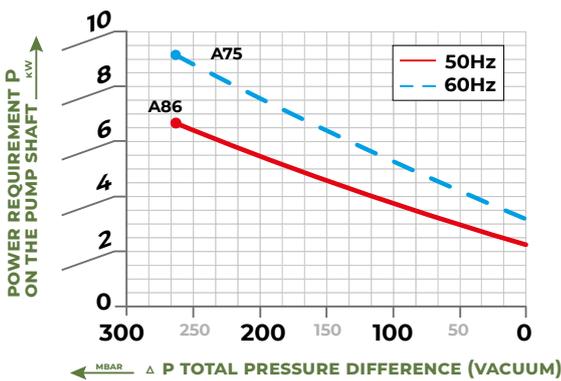
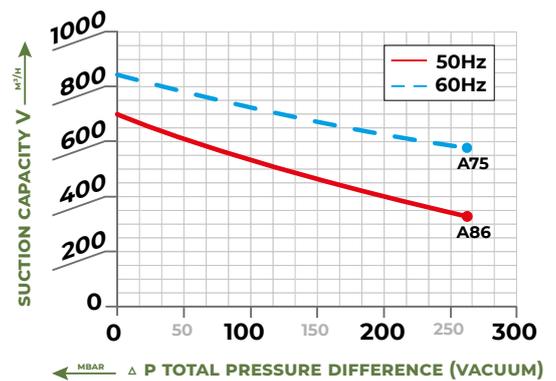
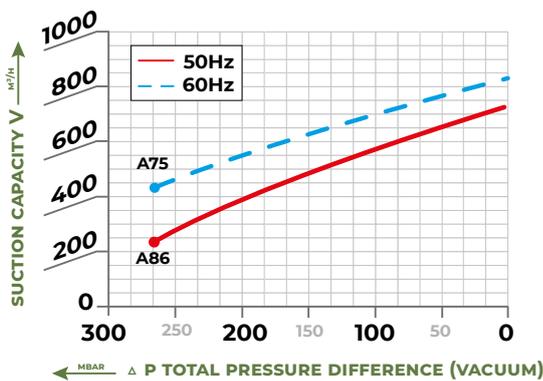
The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %.

For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.



PERFORMANCE CURVE FOR VACUUM PUMP

PERFORMANCE CURVE FOR COMPRESSOR



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of +/- 10 %. The total pressure differences are valid for suction and ambient temperatures up to 25 °C. Each product can be applied both as vacuum pump and compressor in continuous operation over the total stated performance curve range. The motors are available as standard for the input voltage range of 50 and 60 Hz and for protection category IP 55 as well as approved for UL and CSA.

Curve No.	Order No.	Frequency (Hz)	Rated power (kW)	Input voltage (V)		Input current (A)		Permissible total differential pressure (mBar)		Sound pressure (dB)	Weight ca. (Kg)
								Vacuum	Compressor		
A 12	1X-9HD-M125	50	12.5	345D - 415D	600Y - 720Y	28.0D	16.2Y	-280	270	74	116
A 14	1X-9HD-M145	60	14.5	380D - 480D	660Y - 720Y	29.0D	16.7Y	-270	260	79	116



All products achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN 60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

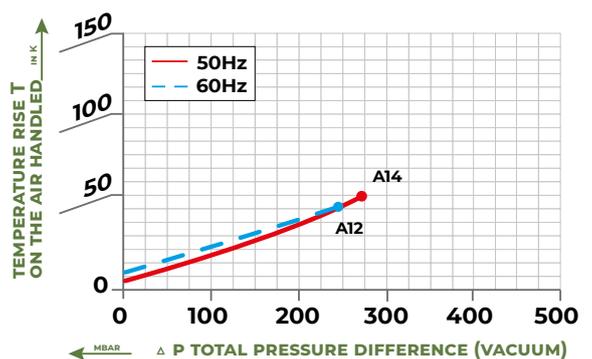
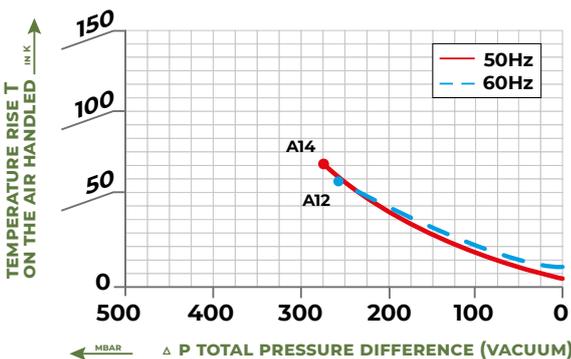
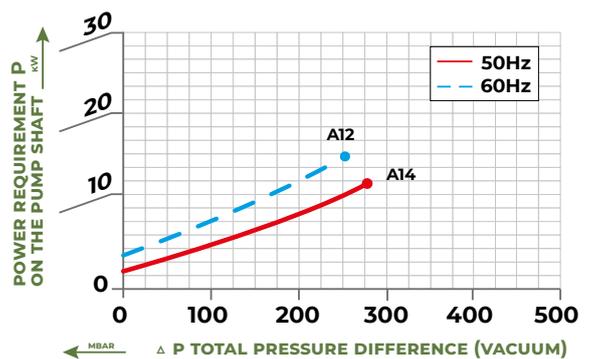
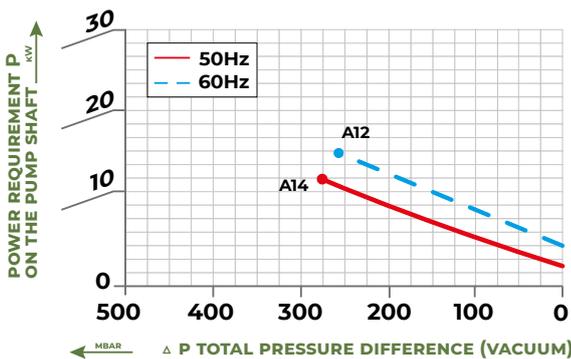
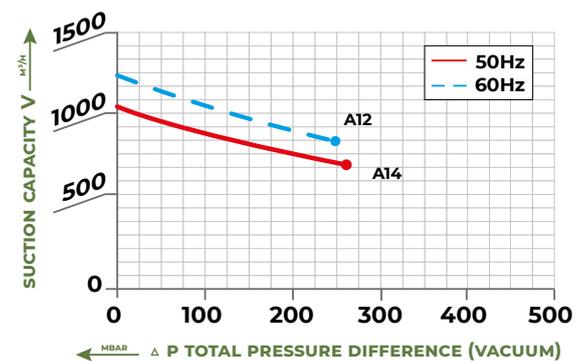
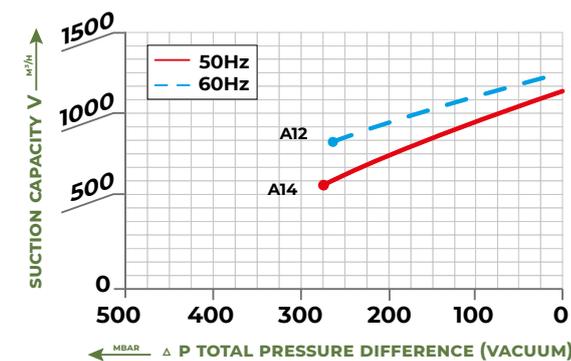
The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %.

For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.



PERFORMANCE CURVE FOR VACUUM PUMP

PERFORMANCE CURVE FOR COMPRESSOR



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of +/- 10 %. The total pressure differences are valid for suction and ambient temperatures up to 25 °C. Each product can be applied both as vacuum pump and compressor in continuous operation over the total stated performance curve range. The motors are available as standard for the input voltage range of 50 and 60 Hz and for protection category IP 55 as well as approved for UL and CSA.

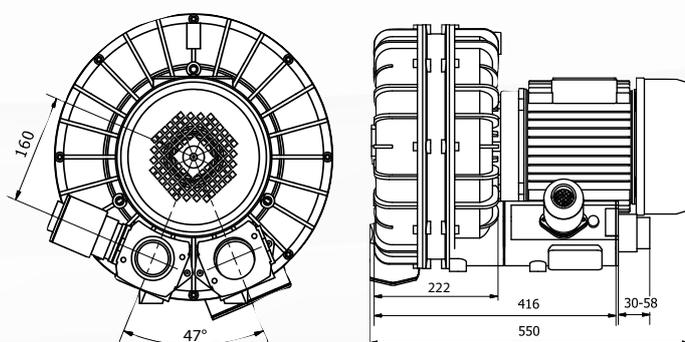


440 BP/BPF

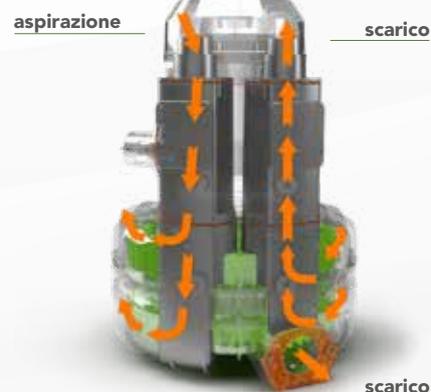
Le turbine **bistadio trifase** in configurazione parallelo sono progettate per gestire portate d'aria elevate con pressioni moderate, mantenendo continuità operativa e affidabilità industriale. Costruite in lega di alluminio pressofuso, uniscono robustezza, silenziosità e lunga durata, con motore trifase direttamente accoppiato e funzionamento senza manutenzione ordinaria.



DIMENSIONI 440 BP



FUNZIONAMENTO 440 BP



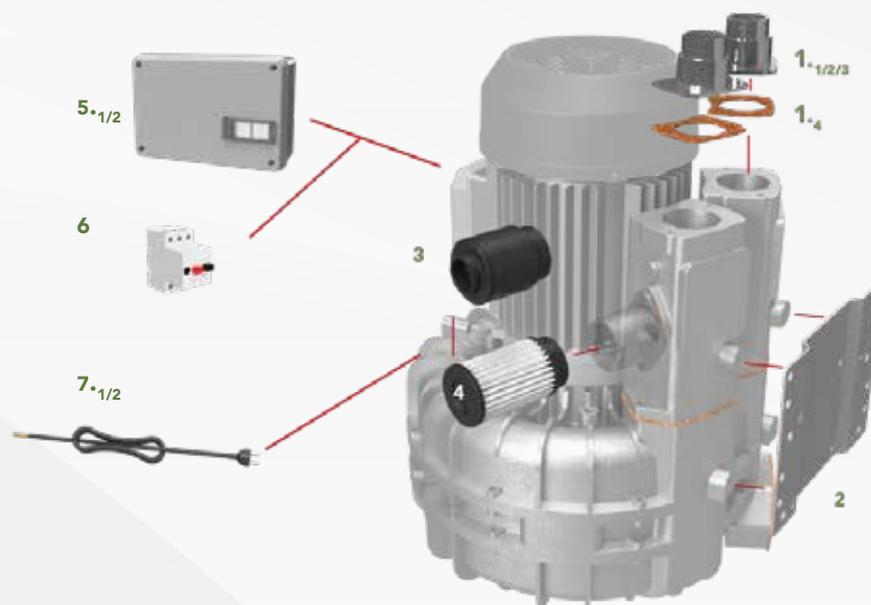
OPTION 440 BP/BPF

- 1_{.1} RACCORDO FLANGIATO Ø50-60 | **cod. 600383**
- 1_{.2} RACCORDO FLANGIATO TORNITO Ø60 | **cod. 200126**
- 1_{.3} RACCORDO FLANGIATO TORNITO Ø70 | **cod. 200634**
- 1_{.4} GUARNIZIONE RACCORDO FLANGIATO | **cod. 600033**
- 2 PIASTRA SUPPORTO TURBINA ZINCATA | **cod. 600412**
- 3 SILENZIATORE NERO VALVOLA | **cod. 200242**
- 4 FILTRO VALVOLA LIMITATRICE | **cod. 600192**
- 5_{.1} SCATOLA INTERRUTTORI CHIUSA | **cod. 601217**
- 5_{.2} SCATOLA INTERRUTTORI IGNIF. APERTA (CONF.11ML) | **cod. 600334**
- 6 INTERRUTTORE SALVAMOTORE 10-16 A | **cod. 600534**
- 7_{.1} CAVO ALIMENTAZIONE H05 WF 4GX2,5 | **cod. 600339**
- 7_{.2} CAVO ALIMENTAZIONE H07 RNF 4GX2,5 | **cod. 600578**
- 8_{.1} TUBO Ø50 H25 FLANGIATO A CAMPANA FRONTALE | **cod. 300705**
- 8_{.2} TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE CON RETE | **cod. 300531**
- 8_{.3} TUBO Ø50 H40 FLANGIATO A CAMPANA FRONTALE CON RETE | **cod. 300530**
- 8_{.4} TUBO FLANGIATO Ø50 | **cod. 300524**
- 8_{.5} TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE | **cod. 300396**



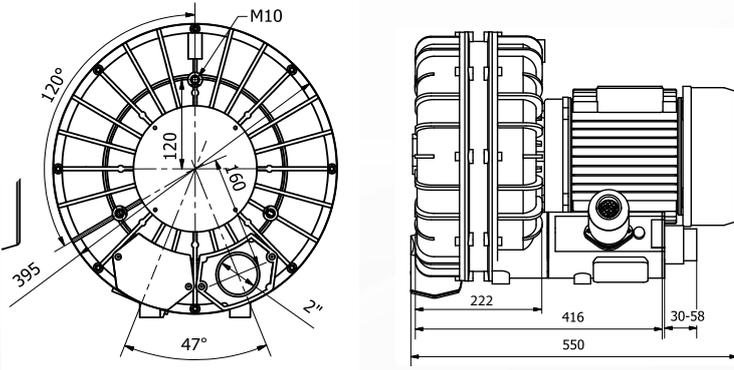
TRATTAMENTI

- **Anodizzazione:** Trattamento superficiale contro la corrosione dell'alluminio. | - **Termico:** disponibile su motori da **4 KW - 5,5 - 7,5**.

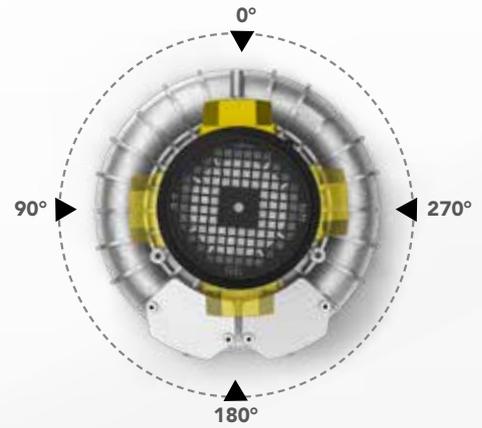




DIMENSIONI 440 BPF



ORIENTAMENTO MOTORE



NB. Per l'orientamento a 180° non è possibile installare il silenziatore.



FUNZIONAMENTO

■ 440 BPF - VARIANTE 1

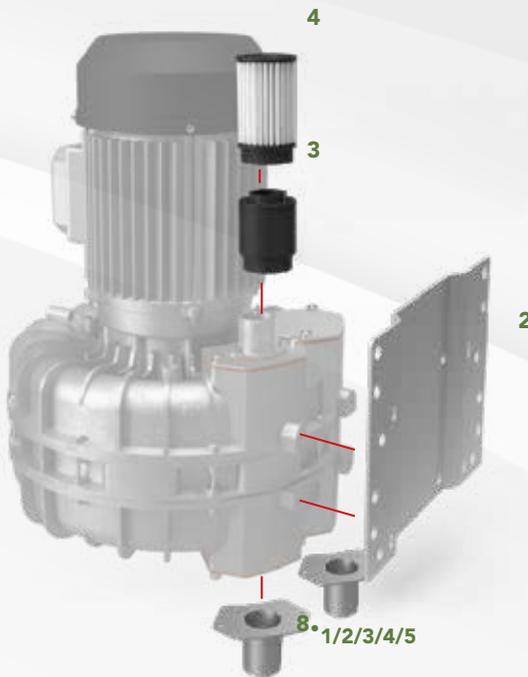


■ 440 BPF - VARIANTE 2

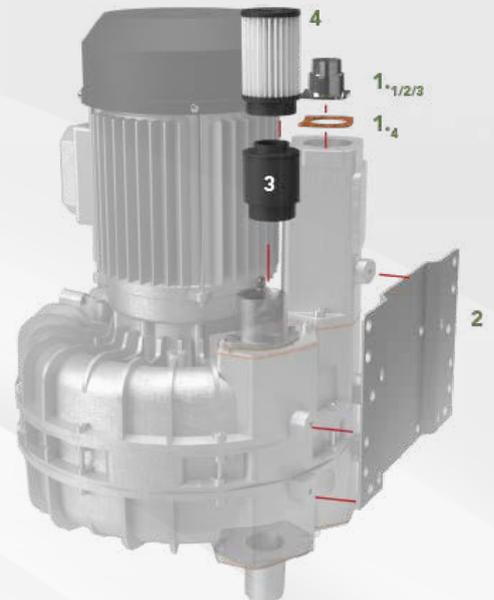


OPTION

■ 440 BPF - VARIANTE 1



■ 440 BPF - VARIANTE 2





MOD. 440 BP/BPF

SIDE CHANNEL BLOWERS AND SUCTION UNITS

MODEL	DESCRIPTION	VOLT (Δ/Y)	Hz	kW	A (Δ/Y)	RPM	IP
0.440BP	THREE PHASE TURBINE 4KW	Δ 230/ Y 400	50	4.0	Δ 13,9/ Y 8,0	2880	55
0.440BPF							
0.440BP	THREE PHASE TURBINE 4KW	Δ 400	50	4.0			



All products achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN 60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

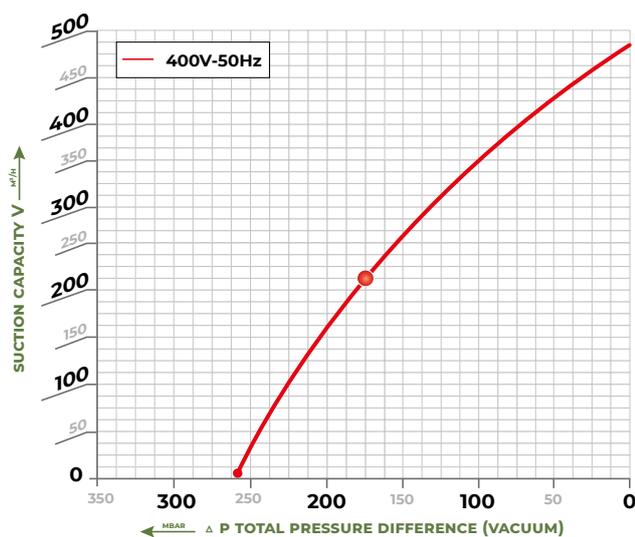
Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %.

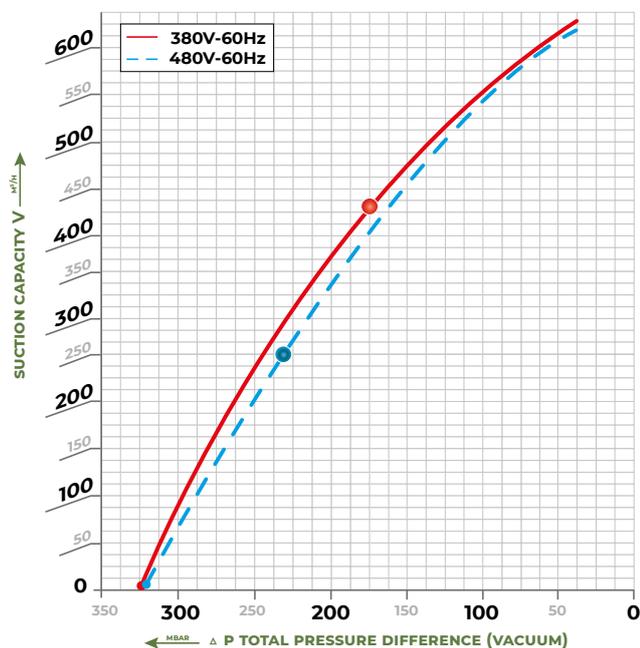
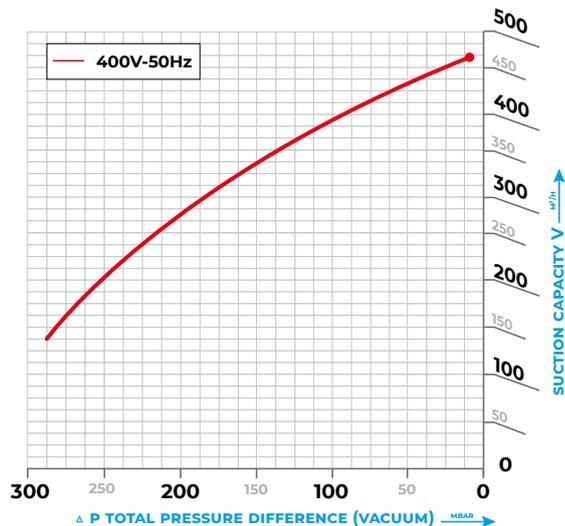
For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.



VACUUM SELECTION DIAGRAM



COMPRESSOR SELECTION DIAGRAM



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperature of 25°C.

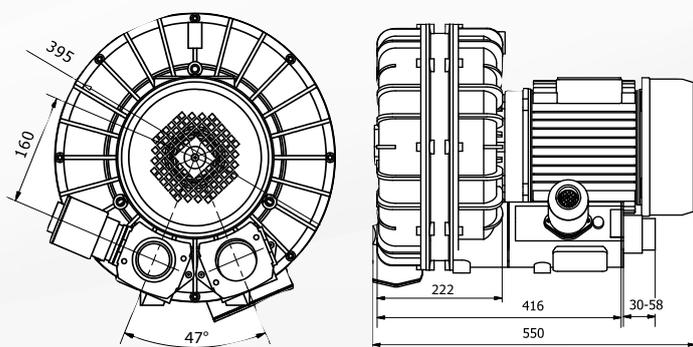


455 BP/BPF

Progettate per aspirare o comprimere gas non esplosivi, le turbine **monostadio trifase** garantiscono prestazioni elevate e funzionamento continuo. Realizzate in lega di alluminio pressofuso, offrono robustezza, efficienza e silenziosità, con motore trifase direttamente accoppiato e assenza di manutenzione ordinaria. Ideali per impianti industriali ad alta affidabilità.



DIMENSIONI 455 BP



FUNZIONAMENTO 455 BP



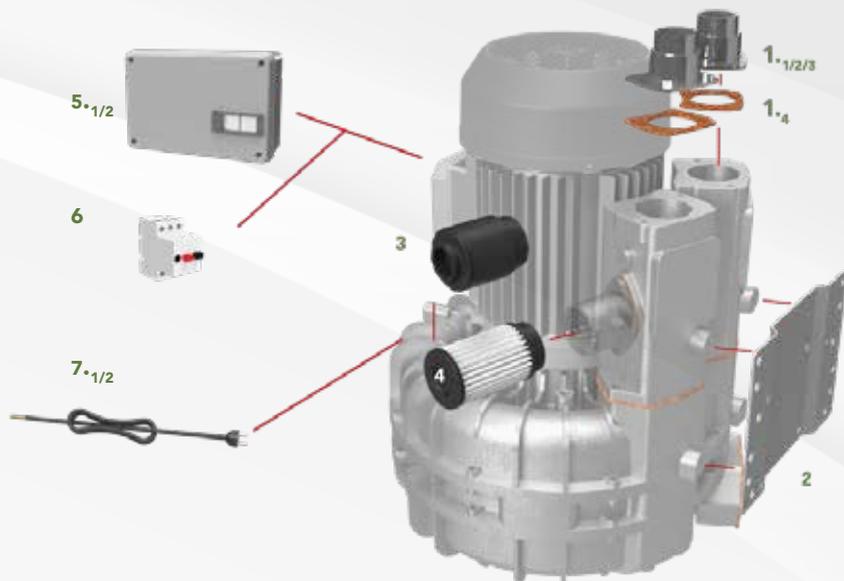
OPTION 455 BP/BPF

- 1.₁ RACCORDO FLANGIATO Ø50-60 | cod. 600383
- 1.₂ RACCORDO FLANGIATO TORNITO Ø60 | cod. 200126
- 1.₃ RACCORDO FLANGIATO TORNITO Ø70 | cod. 200634
- 1.₄ GUARNIZIONE RACCORDO FLANGIATO | cod. 600033
- 2 PIASTRA SUPPORTO TURBINA ZINCATA | cod. 600412
- 3 SILENZIATORE NERO VALVOLA | cod. 200242
- 4 FILTRO VALVOLA LIMITATRICE | cod. 600192
- 5.₁ SCATOLA INTERRUTTORI CHIUSA | cod. 601217
- 5.₂ SCATOLA INTERRUTTORI IGNIF. APERTA (CONF.11ML) | cod. 600334
- 6 INTERRUTTORE SALVAMOTORE 10-16 A | cod. 600534
- 7.₁ CAVO ALIMENTAZIONE H05 VWF 4GX2,5 | cod. 600339
- 7.₂ CAVO ALIMENTAZIONE H07 RNF 4GX2,5 | cod. 600578
- 8.₁ TUBO Ø50 H25 FLANGIATO A CAMPANA FRONTALE | cod. 300705
- 8.₂ TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE CON RETE | cod. 300531
- 8.₃ TUBO Ø50 H40 FLANGIATO A CAMPANA FRONTALE CON RETE | cod. 300530
- 8.₄ TUBO FLANGIATO Ø50 | cod. 300524
- 8.₅ TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE | cod. 300396



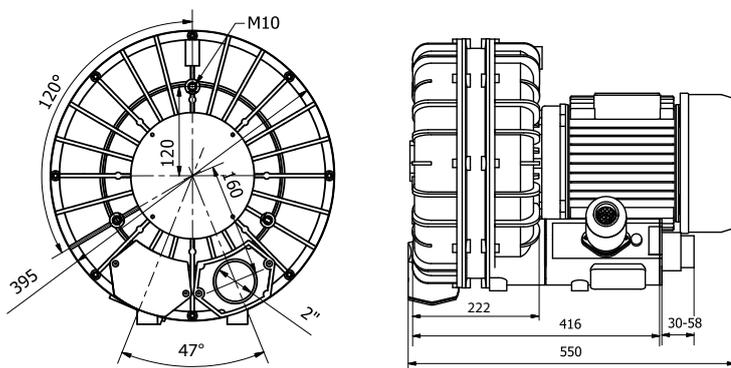
TRATTAMENTI

- **Anodizzazione:** Trattamento superficiale contro la corrosione dell'alluminio. | - **Termico:** disponibile su motori da 4 KW - 5,5 - 7,5.

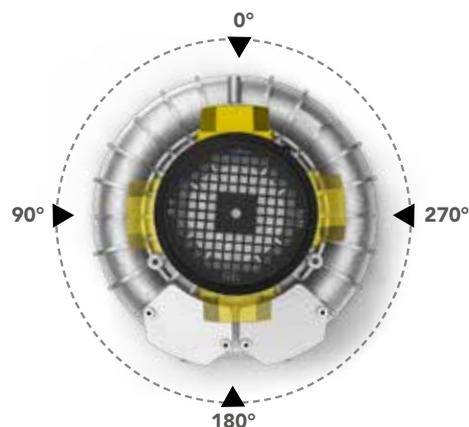




DIMENSIONI 455 BPF



ORIENTAMENTO MOTORE 455 BP/BPF



NB. Per l'orientamento a 180° non è possibile installare il silenziatore.



FUNZIONAMENTO

■ 455 BPF - VARIANTE 1

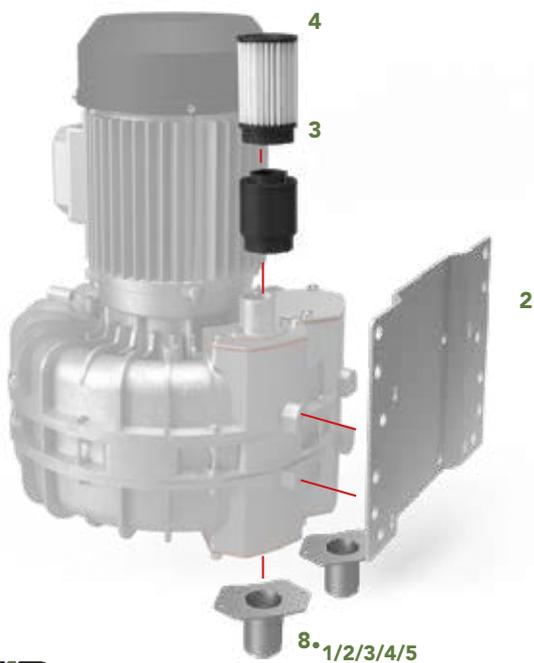


■ 455 BPF - VARIANTE 2

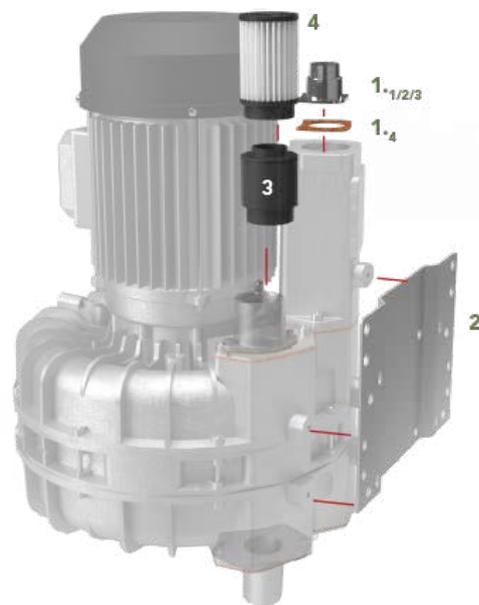


OPTION

■ 455 BPF - VARIANTE 1



■ 455 BPF - VARIANTE 2



MODEL	DESCRIPTION	VOLT (Δ/Y)	Hz	kW	A (Δ/Y)	RPM	IP
0.455BP	THREE PHASE TURBINE 5,5KW	Δ 230/ Y 400	50	5,5	Δ 19,0/ Y 11,0	2850	55
0.455BPF		Δ 220/ Y 380	60	6.6	Δ 21,0/ Y 12,1	3460	
		Δ 276/ Y 480	60	6.6	Δ 19,0/ Y 11,0	3480	



All products achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN 60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

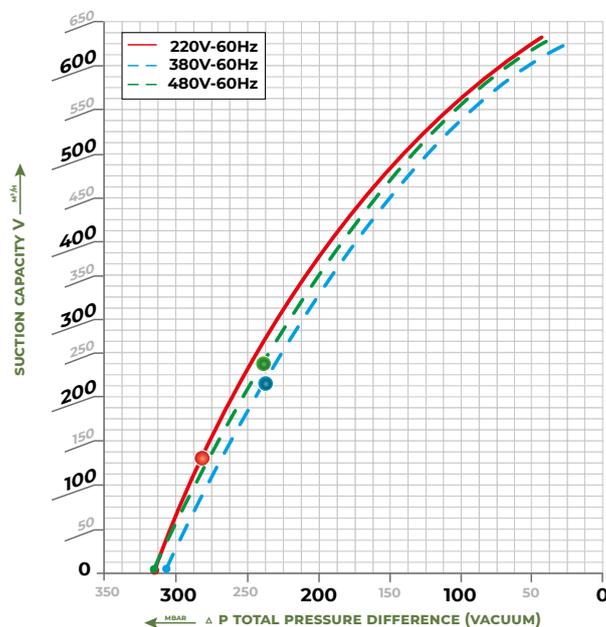
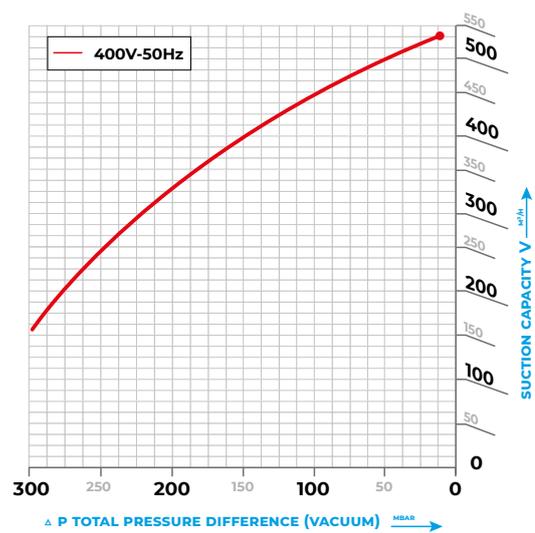
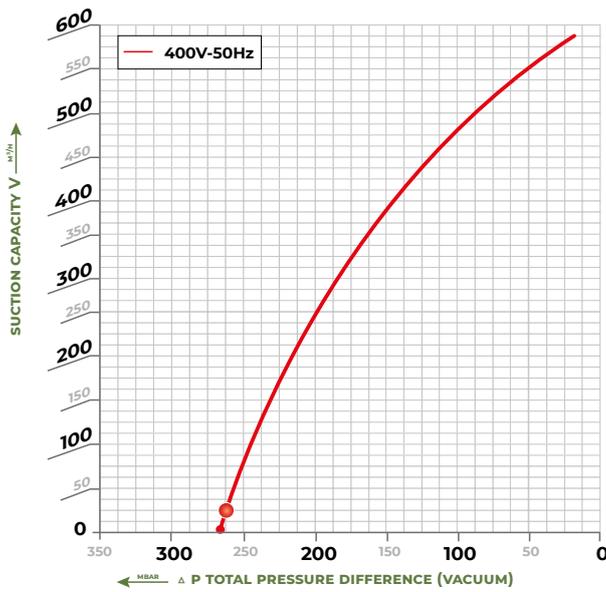
Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maxium allowed pressure will be used for the continuousoperating then the allowed voltage range add to +/- 10 %.

For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.

VACUUM SELECTION DIAGRAM

COMPRESSOR SELECTION DIAGRAM



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperature of 25°C.

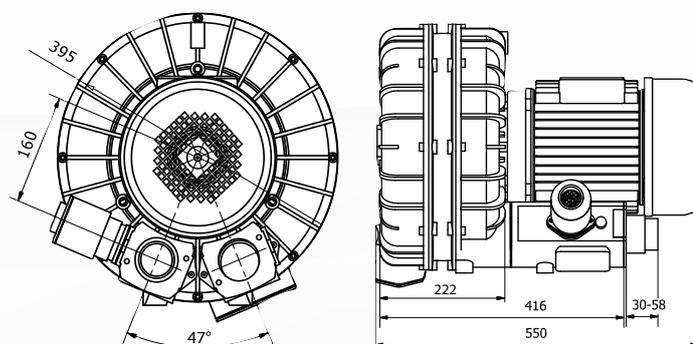


475 BP/BPF

Progettate per aspirare o comprimere gas non esplosivi, le turbine **monostadio trifase** garantiscono prestazioni elevate e funzionamento continuo. Realizzate in lega di alluminio pressofuso, offrono robustezza, efficienza e silenziosità, con motore trifase direttamente accoppiato e assenza di manutenzione ordinaria. Ideali per impianti industriali ad alta affidabilità.



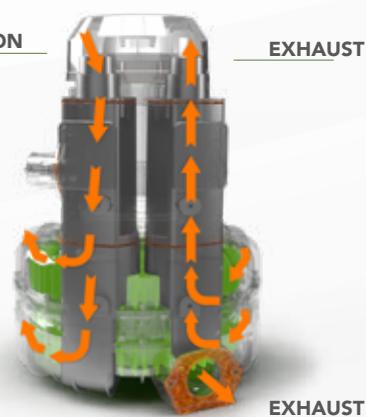
DIMENSIONI 475 BP



FUNZIONAMENTO 475 BP

SUCTION

EXHAUST



EXHAUST



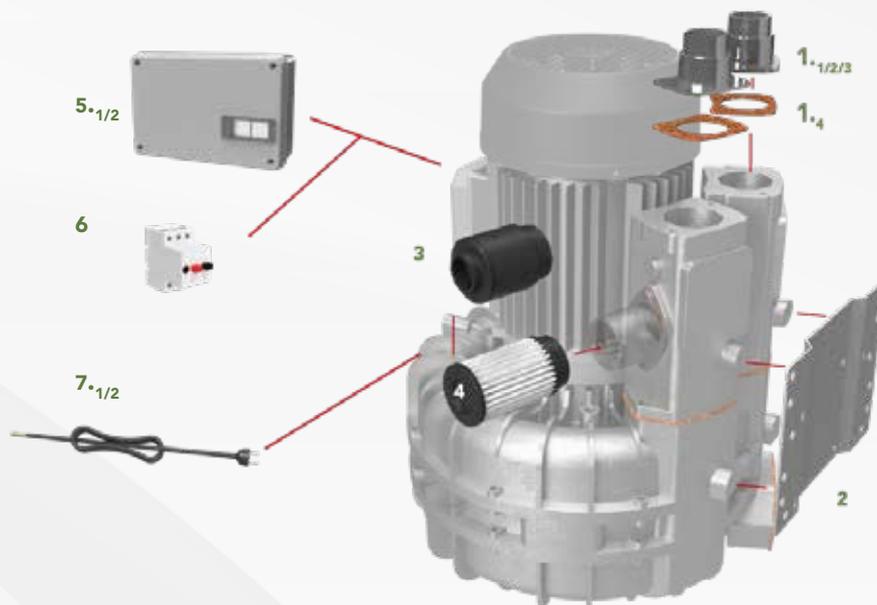
OPTION 475 BP/BPF

- 1.₁ RACCORDO FLANGIATO Ø50-60 | **cod. 600383**
- 1.₂ RACCORDO FLANGIATO TORNITO Ø60 | **cod. 200126**
- 1.₃ RACCORDO FLANGIATO TORNITO Ø70 | **cod. 200634**
- 1.₄ GUARNIZIONE RACCORDO FLANGIATO | **cod. 600033**
- 2 PIASTRA SUPPORTO TURBINA ZINCATA | **cod. 600412**
- 3 SILENZIATORE NERO VALVOLA | **cod. 200242**
- 4 FILTRO VALVOLA LIMITATRICE | **cod. 600192**
- 5.₁ SCATOLA INTERRUTTORI CHIUSA | **cod. 601217**
- 5.₂ SCATOLA INTERRUTTORI IGNIF. APERTA (CONF.11ML) | **cod. 600334**
- 6 INTERRUTTORE SALVAMOTORE 10-16 A | **cod. 600534**
- 7.₁ CAVO ALIMENTAZIONE H05 VWF 4GX2,5 | **cod. 600339**
- 7.₂ CAVO ALIMENTAZIONE H07 RNF 4GX2,5 | **cod. 600578**
- 8.₁ TUBO Ø50 H25 FLANGIATO A CAMPANA FRONTALE | **cod. 300705**
- 8.₂ TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE CON RETE | **cod. 300531**
- 8.₃ TUBO Ø50 H40 FLANGIATO A CAMPANA FRONTALE CON RETE | **cod. 300530**
- 8.₄ TUBO FLANGIATO Ø50 | **cod. 300524**
- 8.₅ TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE | **cod. 300396**



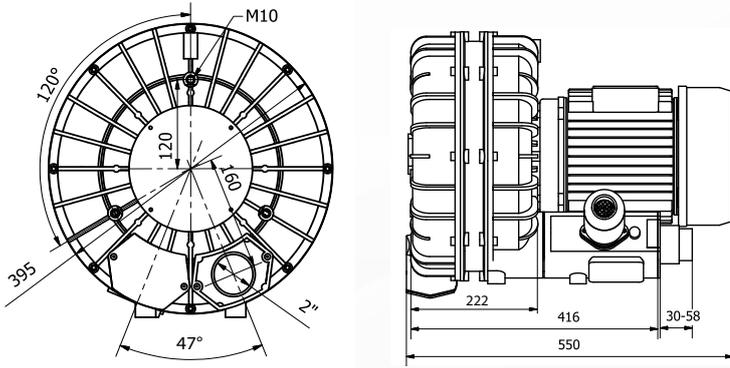
TRATTAMENTI

- **Anodizzazione:** Trattamento superficiale contro la corrosione dell'alluminio. | - **Termico:** disponibile su motori da 4 KW - 5,5 - 7,5.

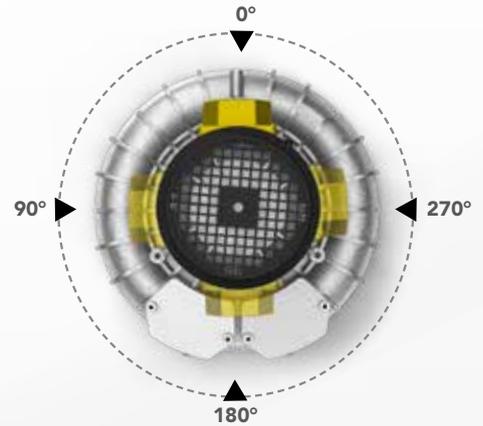




DIMENSIONI 475 BPF



ORIENTAMENTO MOTORE 455 BP/BPF



NB. Per l'orientamento a 180° non è possibile installare il silenziatore.



FUNZIONAMENTO

■ 475 BPF - VARIANTE 1

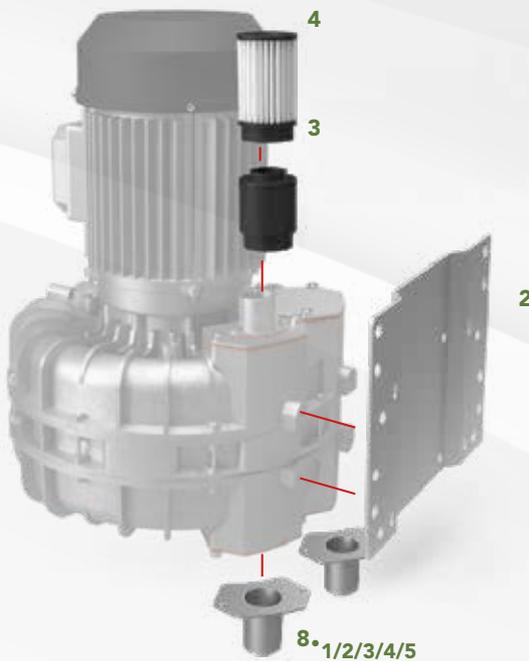


■ 475 BPF - VARIANTE 2

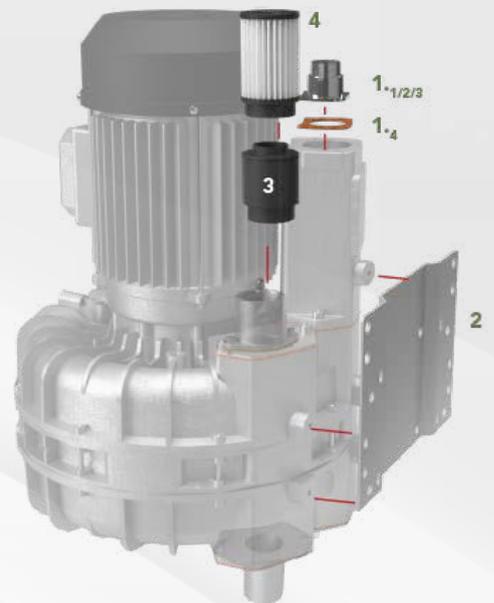


OPTION

■ 475 BPF - VARIANTE 1



■ 475 BPF - VARIANTE 2





MOD. 475 BP/BPF

SIDE CHANNEL BLOWERS AND SUCTION UNITS

MODEL	DESCRIPTION	VOLT (Δ/Y)	Hz	kW	A (Δ/Y)	RPM	IP
0.475BP	THREE PHASE TURBINE 7,5KW	Δ 230/ Y 400	50	7,5	Δ 26,7/ Y 15,4	2870	55
0.475BPF		Δ 220/ Y 380	60	7,5	Δ 26,2/ Y 15,1	3400	
		Δ 277/ Y 480	60	9	Δ 26,7/ Y 15,4	3460	
		Δ 575	60	7,5	Δ 17,7/ Y 10,2	3480	
0.475BP	THREE PHASE TURBINE 7,5KW INVERTER	Y 400	45	7,5	Δ 14,6	xxx	55
		Y 400	50	7,5	Δ 14,6		
		Y 400	60	7,5	Δ 14,6		
0.475BPF		Y 400	65	7,5	Δ 14,6		



All products achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN 60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

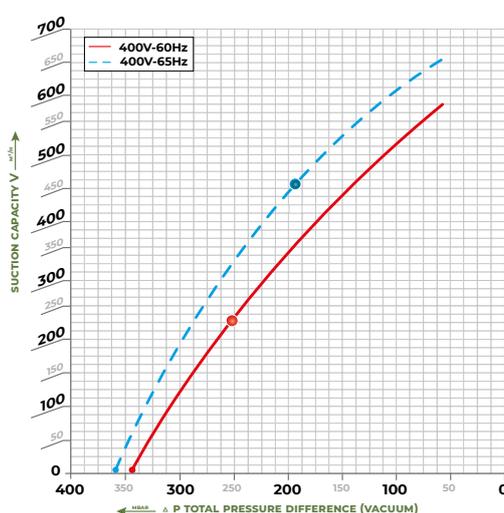
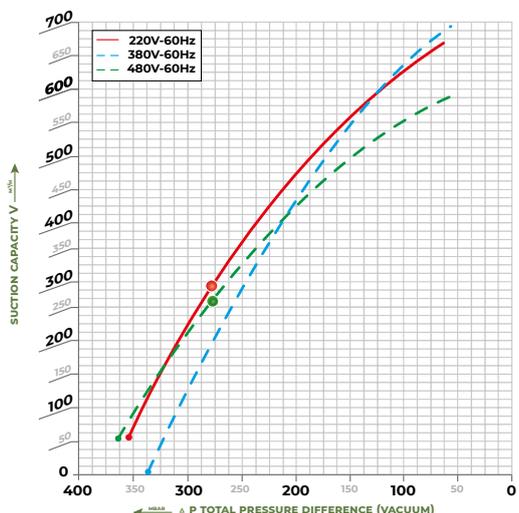
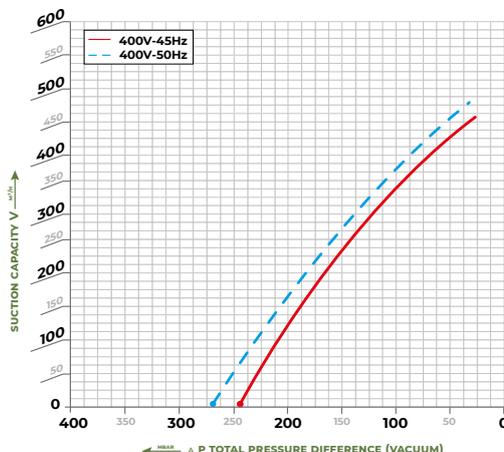
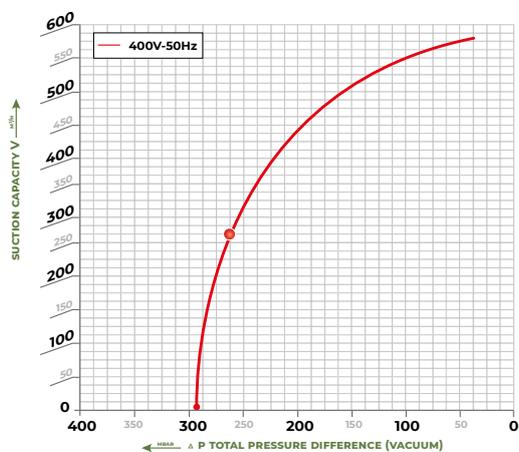
Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %.

For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.



VACUUM SELECTION DIAGRAM



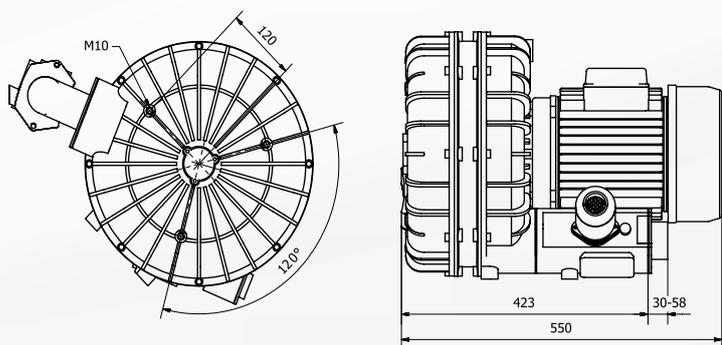
The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperature of 25°C.

455 BS/BSF

Le turbine **bistadio trifase** in configurazione parallelo sono progettate per gestire portate d'aria elevate con pressioni moderate, mantenendo continuità operativa e affidabilità industriale. Costruite in lega di alluminio pressofuso, uniscono robustezza, silenziosità e lunga durata, con motore trifase direttamente accoppiato e funzionamento senza manutenzione ordinaria.



DIMENSIONI 455 BS



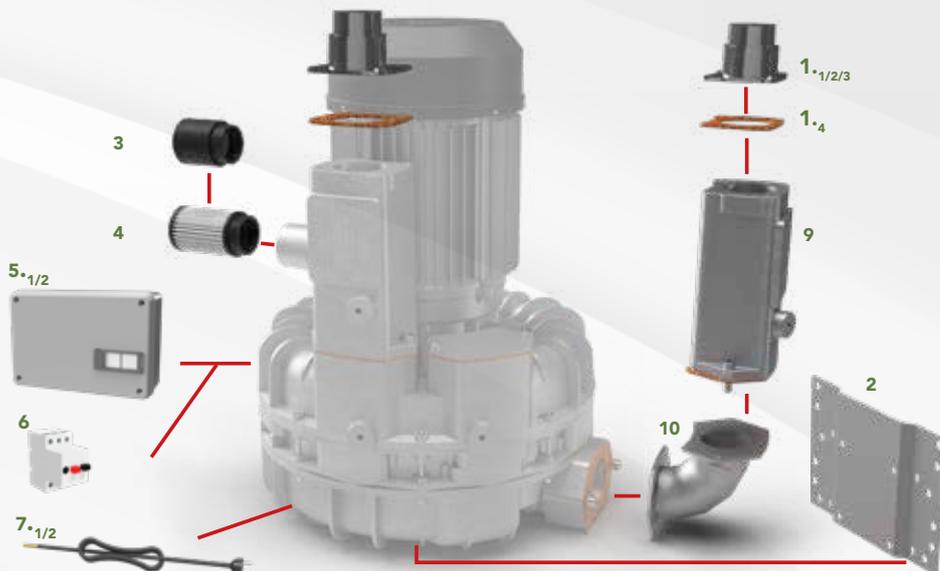
OPTION 455 BS/BSF

- **1₁** RACCORDO FLANGIATO Ø50-60 | **cod. 600383**
- **1₂** RACCORDO FLANGIATO TORNITO Ø60 | **cod. 200126**
- **1₃** RACCORDO FLANGIATO TORNITO Ø70 | **cod. 200634**
- **1₄** GUARNIZIONE RACCORDO FLANGIATO | **cod. 600033**
- **2** PIASTRA SUPPORTO TURBINA ZINCATA | **cod. 600412**
- **3** SILENZIATORE NERO VALVOLA | **cod. 200242**
- **4** FILTRO VALVOLA LIMITATRICE | **cod. 600192**
- **5₁** SCATOLA INTERRUTTORI CHIUSA | **cod. 601217**
- **5₂** SCATOLA INTERRUTTORI IGNIF. APERTA (CONF.11ML) | **cod. 600334**
- **6** INTERRUTTORE SALVAMOTORE 10-16 A | **cod. 600534**
- **7₁** CAVO ALIMENTAZIONE H05 VWF 4GX2,5 | **cod. 600339**
- **7₂** CAVO ALIMENTAZIONE H07 RNF 4GX2,5 | **cod. 600578**
- **8₁** TUBO Ø50 H25 FLANGIATO A CAMPANA FRONTALE | **cod. 300705**
- **8₂** TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE CON RETE | **cod. 300531**
- **8₃** TUBO Ø50 H40 FLANGIATO A CAMPANA FRONTALE CON RETE | **cod. 300530**
- **8₄** TUBO FLANGIATO Ø50 | **cod. 300524**
- **8₅** TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE | **cod. 300396**
- **9** SILENZIATORE SCARICO SENZA FORO COMPLETO | **cod. 200639**
- **10** CURVA 22" FLANGIATO SCARICO TURBINA IN SERIE | **cod. 300181**



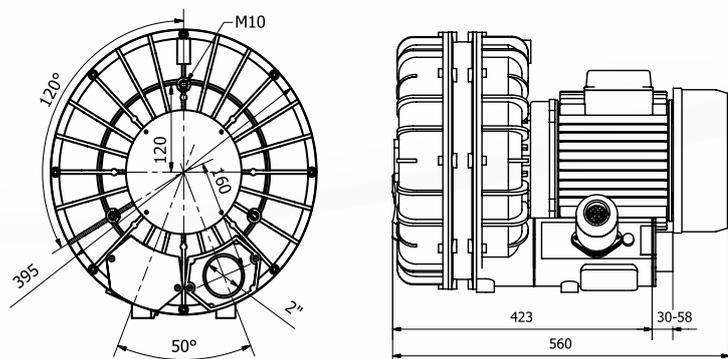
TREATMENTS

- **Anodising:** Surface treatment to protect aluminium from corrosion. | - Thermal: **available** on 4 kW - 5.5 - 7.5 motors.

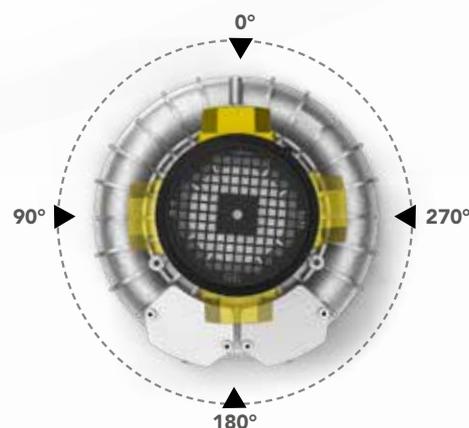




DIMENSIONI 455 BSF



ORIENTAMENTO MOTORE 455 BS/BSF



NB. Per l'orientamento a 180° non è possibile installare il silenziatore.

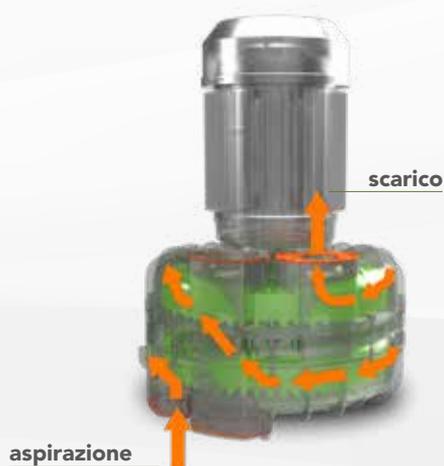


FUNZIONAMENTO

■ 455 BSF - VARIANTE 1

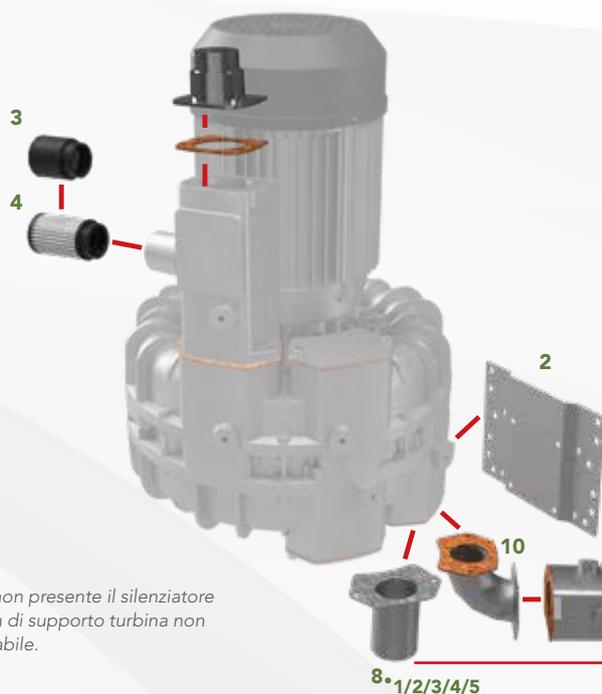


■ 455 BSF - VARIANTE 2

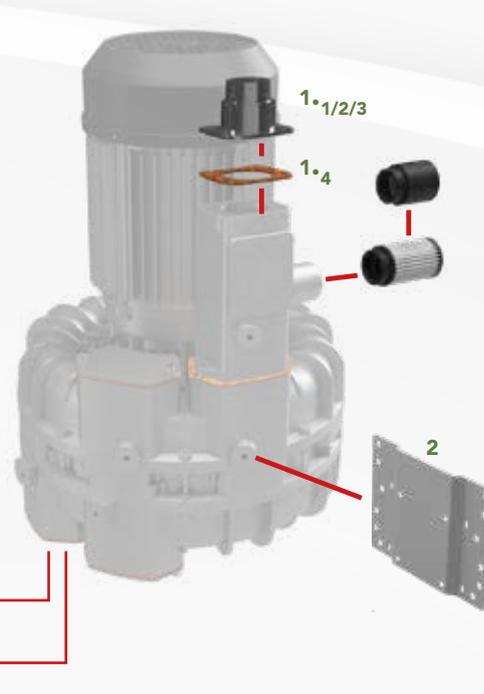


OPTION

■ 455 BSF - VARIANTE 1



■ 455 BSF - VARIANTE 2



NB. Se non presente il silenziatore la piastra di supporto turbina non è applicabile.

8•1/2/3/4/5

MODEL	DESCRIPTION	VOLT (Δ/Y)	Hz	kW	A (Δ/Y)	RPM	IP
0.455BS	THREE PHASE TURBINE 5,5KW	Δ 230/ Y 400	50	5,5	Δ 19,0/ Y 11,0	2850	55
0.455BSF		Δ 220/ Y 380	60	6.6	Δ 21,0/ Y 12,1	3460	
		Δ 276/ Y 480	60	6.6	Δ 19,0/ Y 11,0	3480	



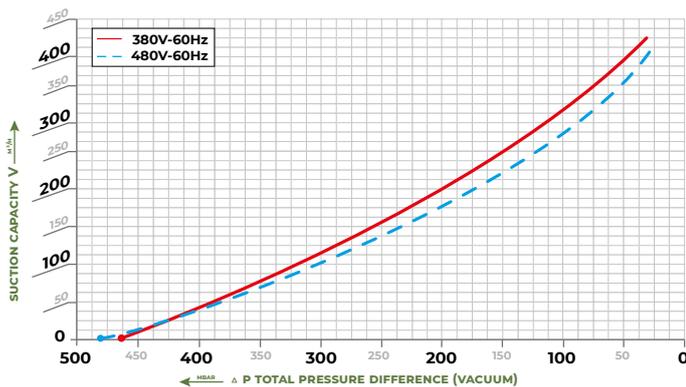
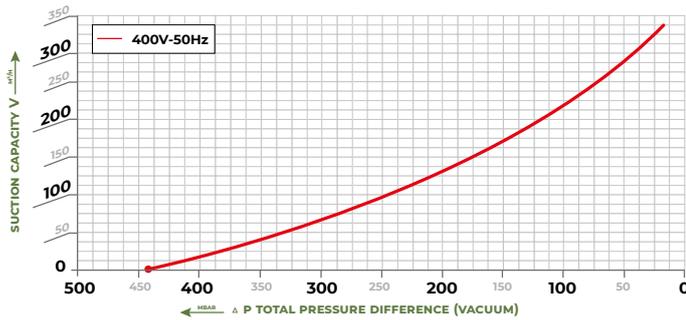
All products achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maxium allowed pressure will be used for the continuousoperating then the allowed voltage range add to +/- 10 %.

For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.

VACUUM SELECTION DIAGRAM



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperature of 25°C.



ZONE A RISCHIO ESPLOSIONE ATEX 21 - ATEX 2-22



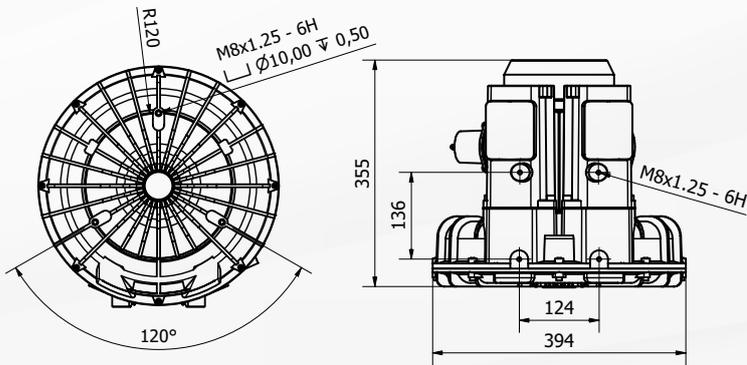


422 MM/MMF ATEX 2-22

Le turbine **monostadio monofase** SOLARYS in versione **ATEX** sono adatte a **zone 2** (gas) e **22** (polveri). Compatte, sicure e silenziose, sono ideali per ambienti a rischio esplosione senza rete trifase. Struttura in alluminio pressofuso, motore antiscintilla e funzionamento continuo senza manutenzione. Una soluzione affidabile per garantire sicurezza e performance anche in spazi ridotti e impianti decentralizzati.



DIMENSIONI 422 MM EX2-22



FUNZIONAMENTO 422 MM EX2-22



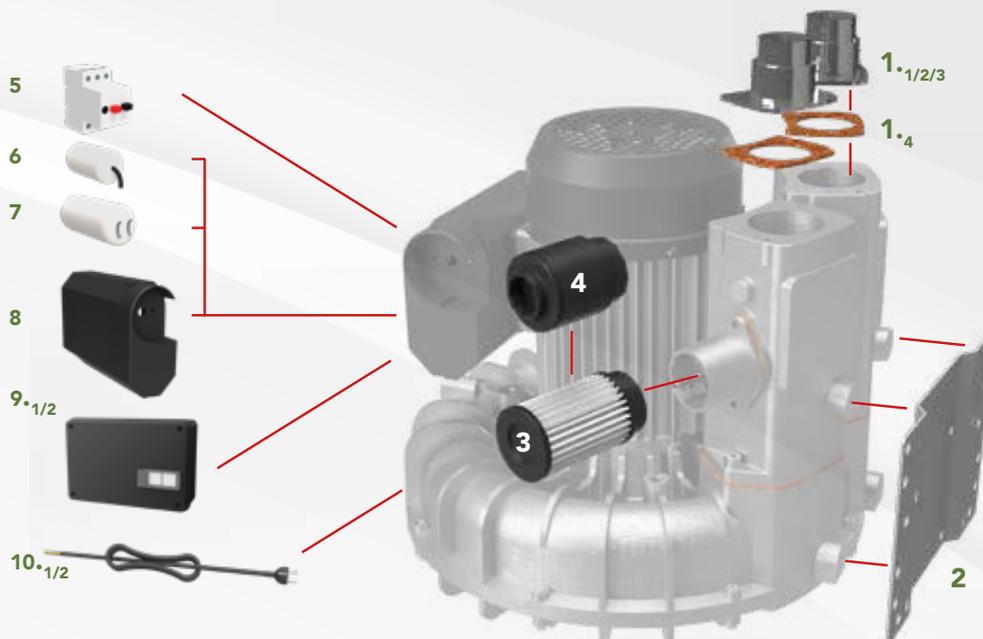
OPTION 422 MM/MMF EX2-22

- **1₁** RACCORDO FLANGIATO Ø50-60 | **cod. 600383**
- **1₂** RACCORDO FLANGIATO TORNITO Ø60 | **cod. 200126**
- **1₃** RACCORDO FLANGIATO TORNITO Ø70 | **cod. 200634**
- **1₄** GUARNIZIONE RACCORDO FLANGIATO | **cod. 600033**
- **2** PIASTRA SUPPORTO TURBINA ZINCATA | **cod. 600412**
- **3** SILENZIATORE NERO VALVOLA | **cod. 200242**
- **4** FILTRO VALVOLA LIMITATRICE | **cod. 600192**
- **5** INTERRUTTORE SALVAMOTORE 10-16 A | **cod. 600534**
- **6** BREAKER ELMC B05 CSTART 50UF 50X94 M8 CB300 | **cod. 600395**
- **7** CONDENSATORE MONOFASE 60 µF CON DOPPIO FASTON | **cod. 600198**
- **8** SCATOLA PORTACONDENSATORE FKL | **cod. 600625**
- **9₁** SCATOLA INTERRUTTORI ATEX (Conf. 11ml) CHIUSA | **cod. 601218**
- **9₂** SCATOLA INTERRUTTORI IGNIF. (CONF. 11ML) CHIUSA | **cod. 601217**
- **10₁** CAVO ALIMENTAZIONE H05 VVF 3GX2,5 | **cod. 600397**
- **10₂** CAVO ALIMENTAZIONE H07 RNF 3GX2,5 | **cod. 600492**
- **11** TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE | **cod. 300396**



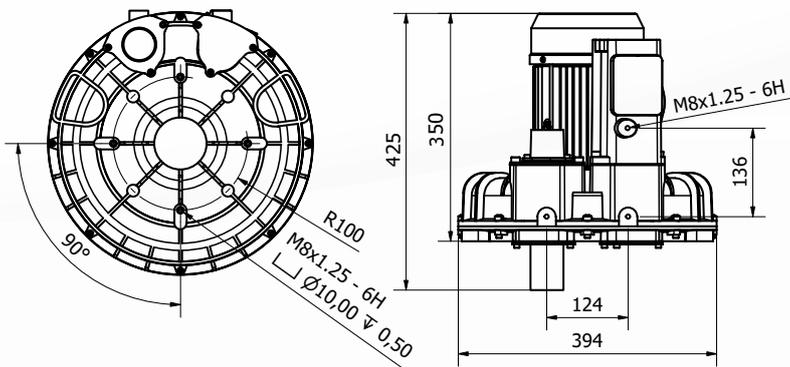
TRATTAMENTI

- **Anodizzazione:** Trattamento superficiale contro la corrosione dell'alluminio. | - **Termico:** disponibile su motori da **4 KW - 5,5 - 7,5**.

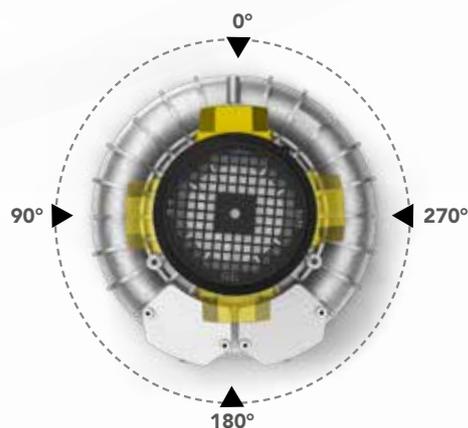




DIMENSIONI 422 MMF EX2-22



ORIENTAMENTO MOTORE 422 MM/MMF EX2-22



NB. Per l'orientamento a 180° non è possibile installare il silenziatore.

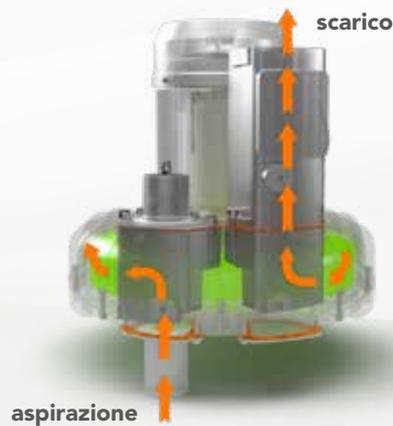


FUNZIONAMENTO

■ 422 MMF EX2-22 - VARIANTE 1

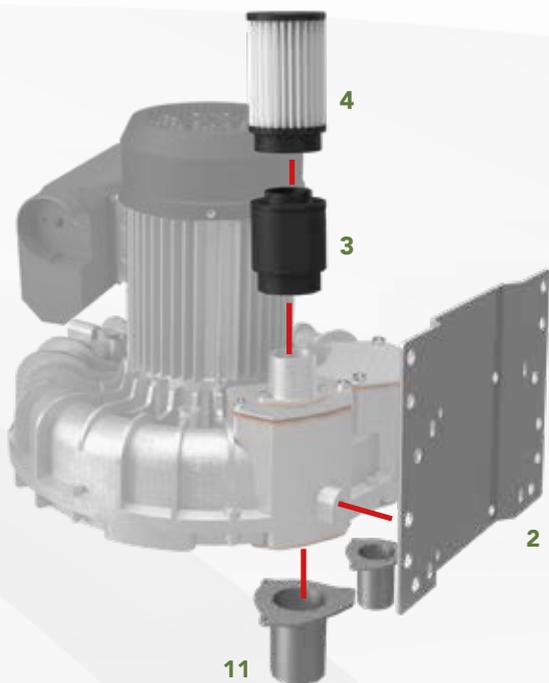


■ 422 MMF EX2-22 - VARIANTE 2

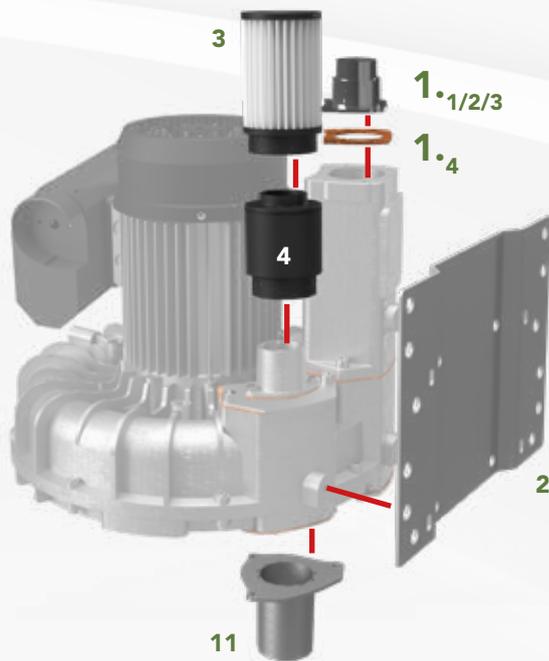


OPTION

■ 422 MMF EX2-22 - VARIANTE 1



■ 422 MMF EX2-22 - VARIANTE 2



MODEL	DESCRIPTION	VOLT	Hz	kW	A	RPM	IP
0.422MM EX2-22	SINGLE PHASE TURBINE 2,2KW	230	50	2	13,0	2770	55
0.422MMF EX2-22							



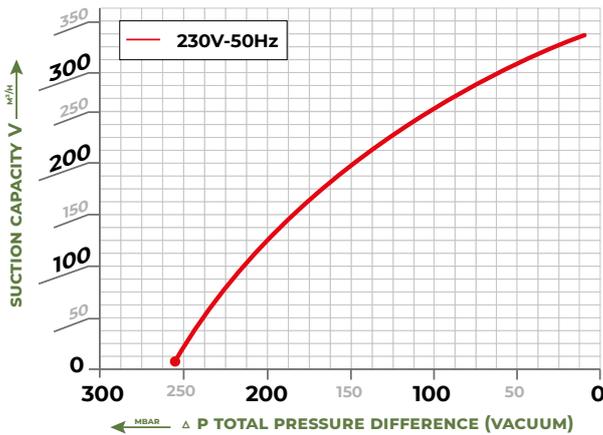
All products achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maxium allowed pressure will be used for the continuousoperating then the allowed voltage range add to +/- 10 %.

For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.

VACUUM SELECTION DIAGRAM



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperatruue of 25°C.

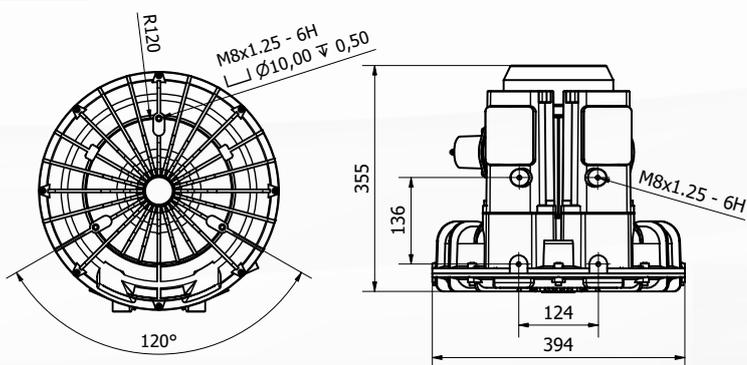


430 M/MF ATEX 2-22

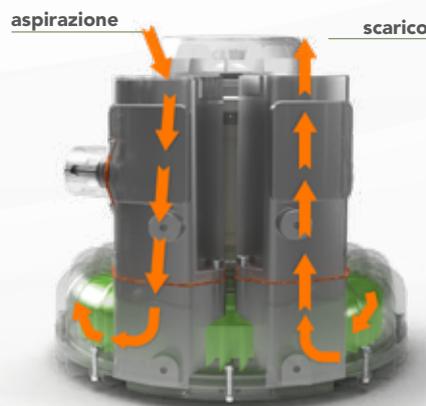
Le turbine **monostadio trifase** SOLARYS in versione **ATEX** sono adatte a **zone 2** (gas) e **22** (polveri). Compatte, sicure e silenziose, sono ideali per ambienti a rischio esplosione senza rete trifase. Struttura in alluminio pressofuso, motore antiscintilla e funzionamento continuo senza manutenzione. Una soluzione affidabile per garantire sicurezza e performance anche in spazi ridotti e impianti decentralizzati.



DIMENSIONI 430 M EX2-22



FUNZIONAMENTO 430 M EX2-22



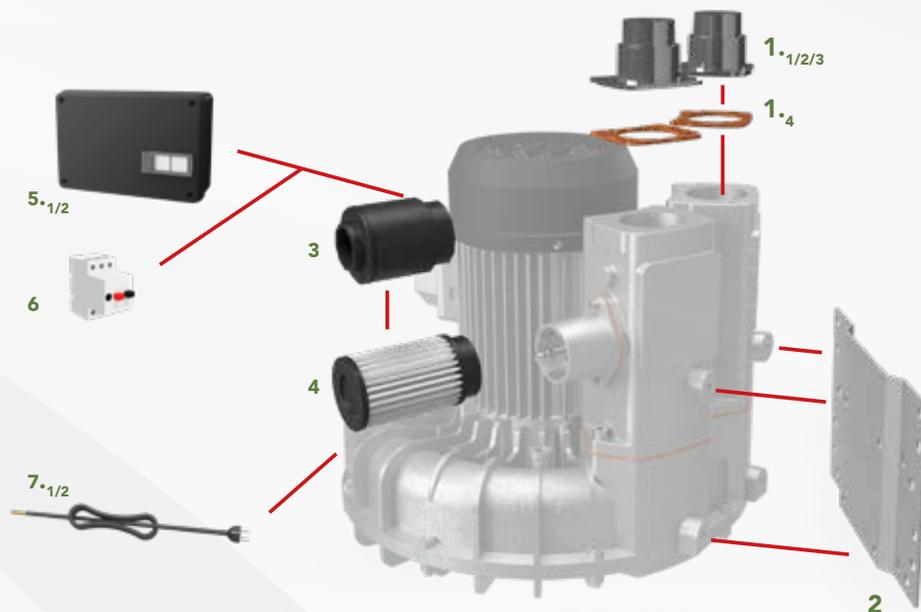
OPTION 430 M EX2-22

- 1.₁ RACCORDO FLANGIATO Ø50-60 | **cod. 600383**
- 1.₂ RACCORDO FLANGIATO TORNITO Ø60 | **cod. 200126**
- 1.₃ RACCORDO FLANGIATO TORNITO Ø70 | **cod. 200634**
- 1.₄ GUARNIZIONERACCORDO FLANGIATO | **cod. 600033**
- 2 PIASTRA SUPPORTO TURBINA ZINCATA | **cod. 600412**
- 3 SILENZIATORE NERO VALVOLA | **cod. 200242**
- 4 FILTRO VALVOLA LIMITATRICE | **cod. 600192**
- 5.₁ SCATOLA INTERRUTTORI ATEX (Conf. 11ml) CHIUSA | **cod. 601218**
- 5.₂ SCATOLA INTERRUTTORI ATEX (Conf. 11ml) APERTA | **cod. 600335**
- 6 INTERRUTTORE SALVAMOTORE 6,3-10 A | **cod. 600237**
- 7.₁ CAVO ALIMENTAZIONE H05 VVF 4GX1,5 | **cod. 600107**
- 7.₂ CAVO ALIMENTAZIONE H07 RNF 4GX1,5 | **cod. 600108**
- 8. TUBO Ø50 H25 FLANGIATO A CAMPANA FRONTALE | **cod. 300705**
- 8.₁ TUBO Ø50 H25 FLANGIATO A CAMPANA FRONTALE CON RETE | **cod. 300705**
- 8.₂ TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE CON RETE | **cod. 300531**
- 8.₃ TUBO Ø50 H40 FLANGIATO A CAMPANA FRONTALE CON RETE | **cod. 300530**
- 8.₄ TUBO FLANGIATO Ø50 | **cod. 300524**
- 8.₅ TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE | **cod. 300396**



TRATTAMENTI

- **Anodizzazione:** Trattamento superficiale contro la corrosione dell'alluminio. | - **Termico:** disponibile su motori da 4 KW - 5,5 - 7,5.





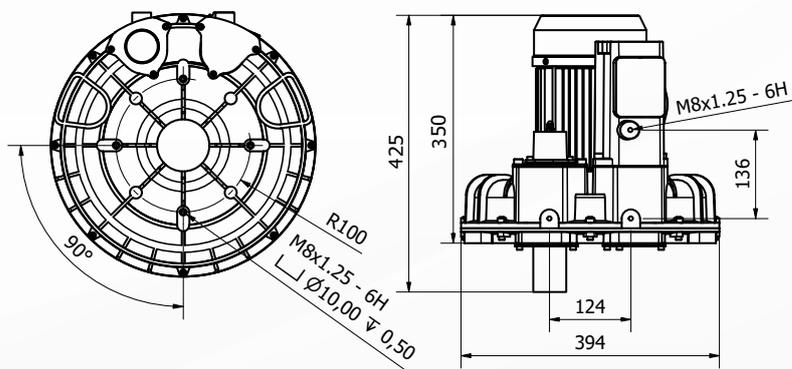
430

MADE IN ITALY

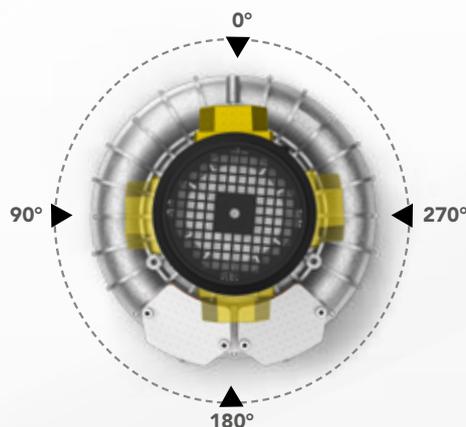
M/MF



DIMENSIONI 430 MF EX2-22



ORIENTAMENTO MOTORE 430 M/MF EX2-22

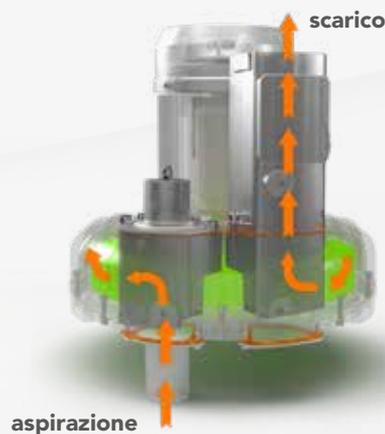


FUNZIONAMENTO

430 MF EX2-22 - VARIANTE 1

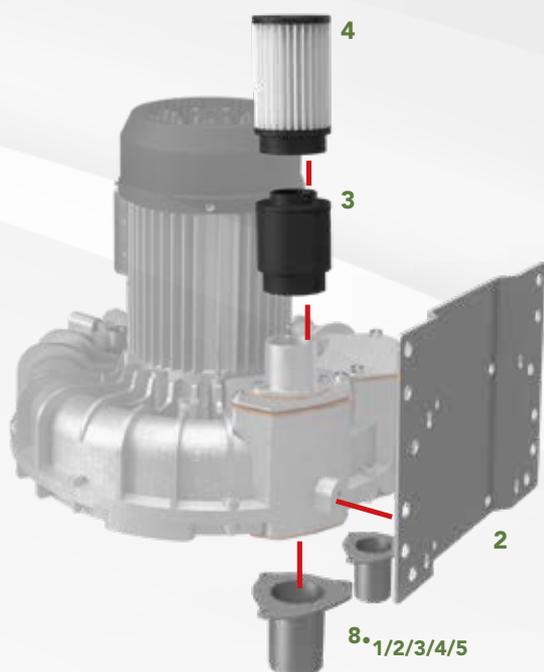


430 MF EX2-22 - VARIANTE 2

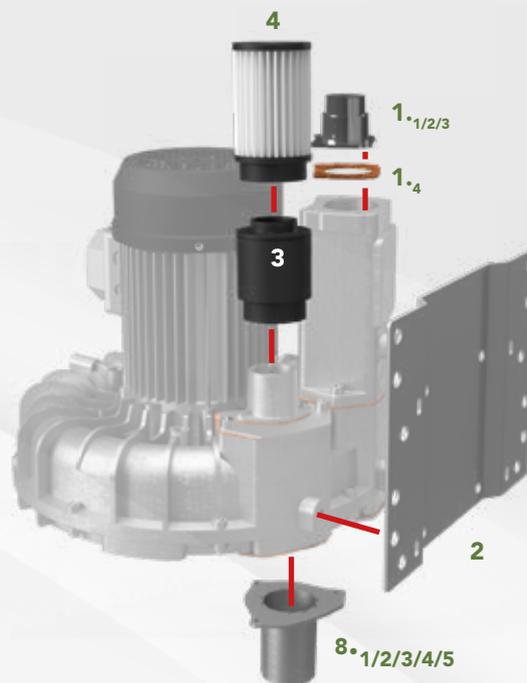


OPTION

430 MF EX2-22 - VARIANTE 1



430 MF EX2-22 - VARIANTE 2



MONOSTADIO TRIFASE ATEX 2-22

MODEL	DESCRIPTION	VOLT Δ	Hz	kW	A (Δ/Y)	RPM	IP
0.430M EX2-22	THREE PHASE TURBINE 3KW	Δ 230/ Y 400	50	2,6	Δ 13,2	2870	65
0.430MF EX2-22		Δ 220/ Y 380	60	3,1	Δ 15,1	3420	



All products achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN 60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

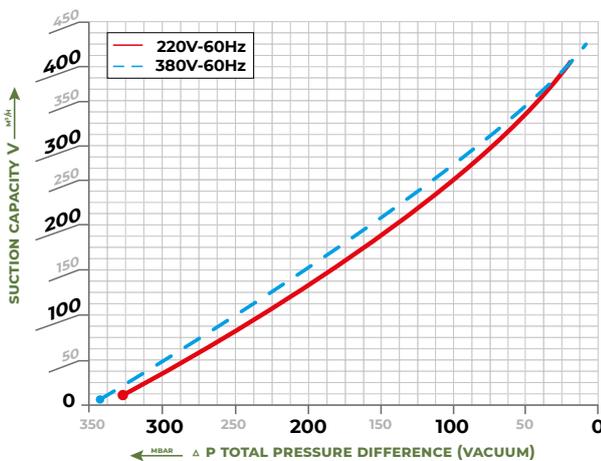
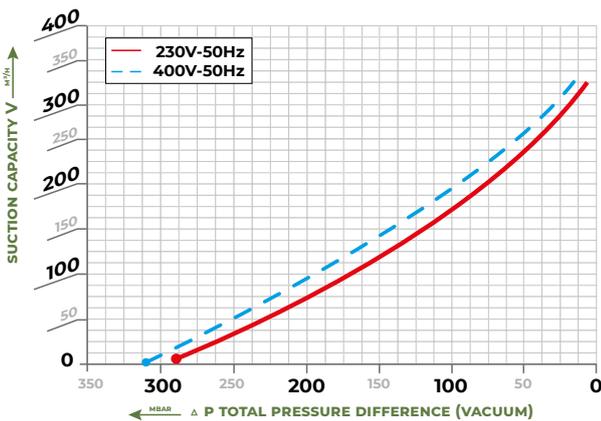
Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %.

For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.



VACUUM SELECTION DIAGRAM



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperature of 25°C.

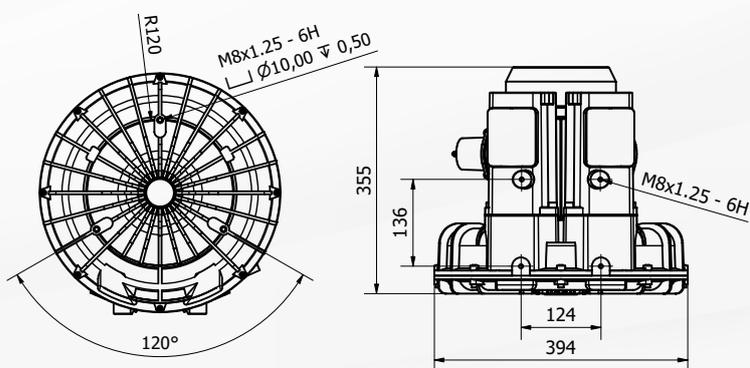


440 M/MF ATEX 21

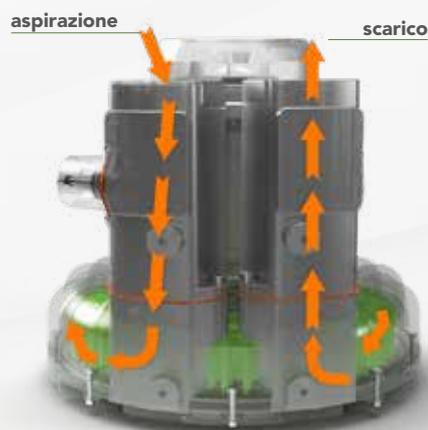
Le turbine **monostadio trifase** SOLARYS in versione ATEX sono progettate per operare in **zona 21**, dove è presente atmosfera esplosiva dovuta a polveri combustibili in modo frequente o prolungato. Realizzate in lega di alluminio pressofuso, sono dotate di motore antideflagrante, messa a terra antistatica e componenti certificati secondo la Direttiva **2014/34/UE**. Affidabilità industriale in piena conformità ATEX.



DIMENSIONI 440 M EX21



FUNZIONAMENTO 440 M EX21



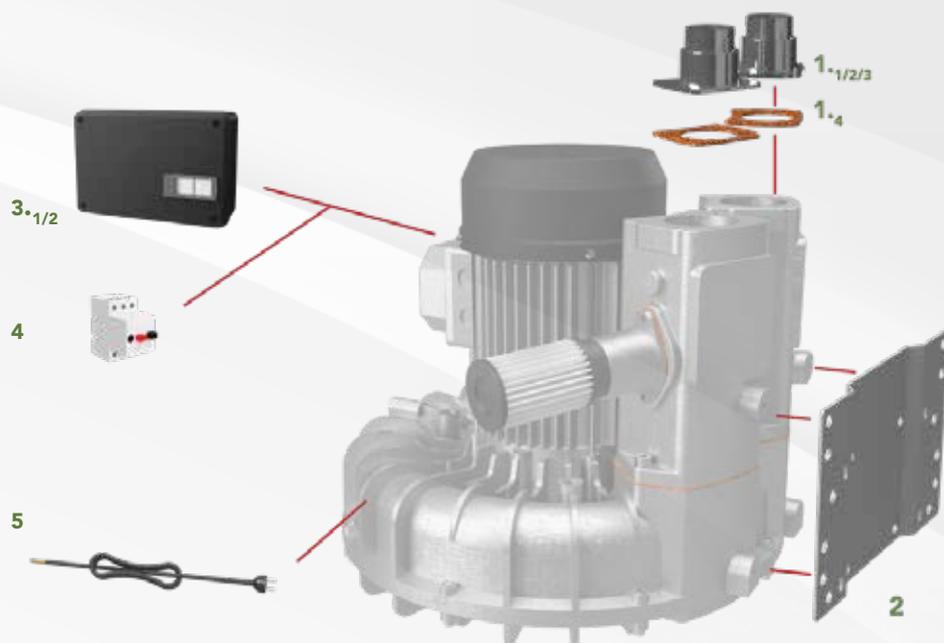
OPTION 440 M/MF EX21

- **1_{.1}** RACCORDO FLANGIATO Ø50-60 | **cod. 600383**
- **1_{.2}** RACCORDO FLANGIATO TORNITO Ø60 | **cod. 200126**
- **1_{.3}** RACCORDO FLANGIATO TORNITO Ø70 | **cod. 200634**
- **1_{.4}** GUARNIZIONE RACCORDO FLANGIATO | **cod. 600033**
- **2** PIASTRA SUPPORTO TURBINA ZINCATA | **cod. 600412**
- **3_{.1}** SCATOLA INTERRUTTORI ATEX CHIUSA (CONF.11ML) | **cod. 601218**
- **3_{.2}** SCATOLA INTERRUTTORI ATEX APERTA (CONF.11ML) | **cod. 600335**
- **4** INTERRUTTORE SALVAMOTORE 6,3-10 A | **cod. 600237**
- **5** CAVO ALIMENTAZIONE H05 VWF 4GX1,5 | **cod. 600107**
- **6_{.1}** TUBO Ø50 H25 FLANGIATO A CAMPANA FRONTALE | **cod. 300705**
- **6_{.2}** TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE CON RETE | **cod. 300531**
- **6_{.3}** TUBO Ø50 H40 FLANGIATO A CAMPANA FRONTALE CON RETE | **cod. 300530**
- **6_{.4}** TUBO FLANGIATO Ø50 | **cod. 300524**
- **6_{.5}** TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE | **cod. 300396**



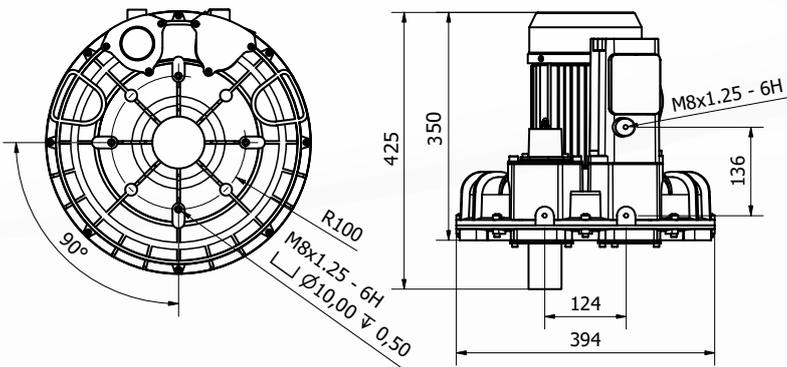
TRATTAMENTI

- **Anodizzazione:** Trattamento superficiale contro la corrosione dell'alluminio. | - **Termico:** disponibile su motori da **4 KW - 5,5 - 7,5**.

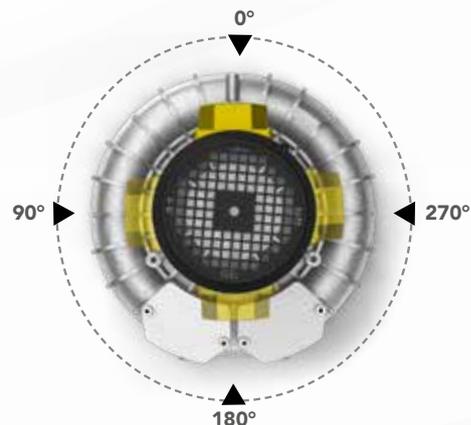




DIMENSIONI 440 MF EX21



ORIENTAMENTO MOTORE 440 M/MF EX21



NB. Per l'orientamento a 180° non è possibile installare il silenziatore.

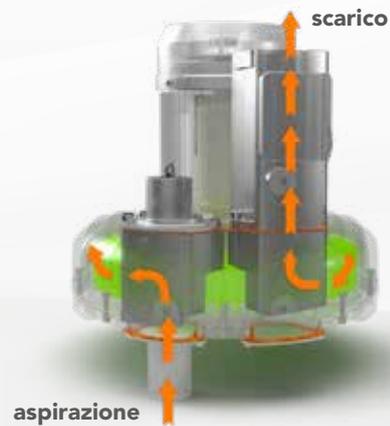


FUNZIONAMENTO

■ 440 MF EX21 - VARIANTE 1

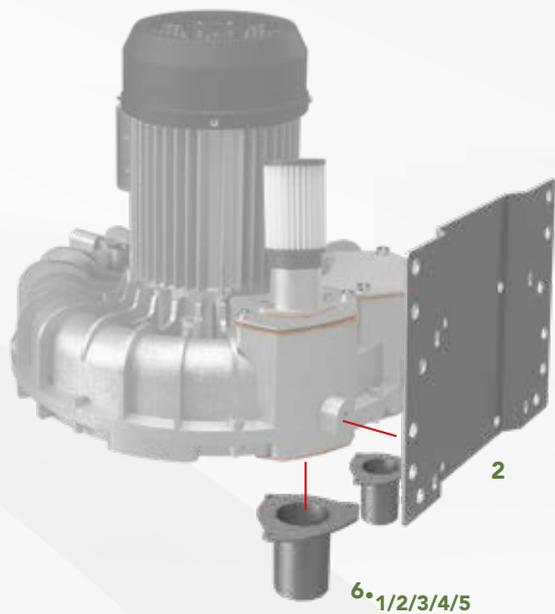


■ 440 MF EX21 - VARIANTE 2

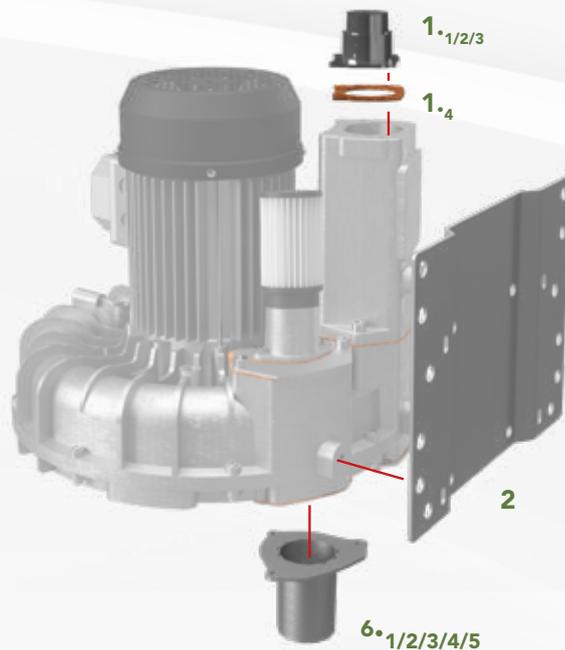


OPTION

■ 440 MF EX21 - VARIANTE 1



■ 440 MF EX21 - VARIANTE 2



MODEL	DESCRIPTION	VOLT (Δ/Y)	Hz	kW	A (Δ/Y)	RPM	IP
0.440M EX21	TURBINA TRIFASE 4KW	Δ 230/ Y 400	50	3.4	Δ 13,9/ Y 8,0	2800	64
0.440MF EX21		Δ 220/ Y 380	60	4.0	Δ 14,0/ Y 8,1	3400	
		Δ 276/ Y 480	60	4.0	Δ 15,4/ Y 8,9	3400	



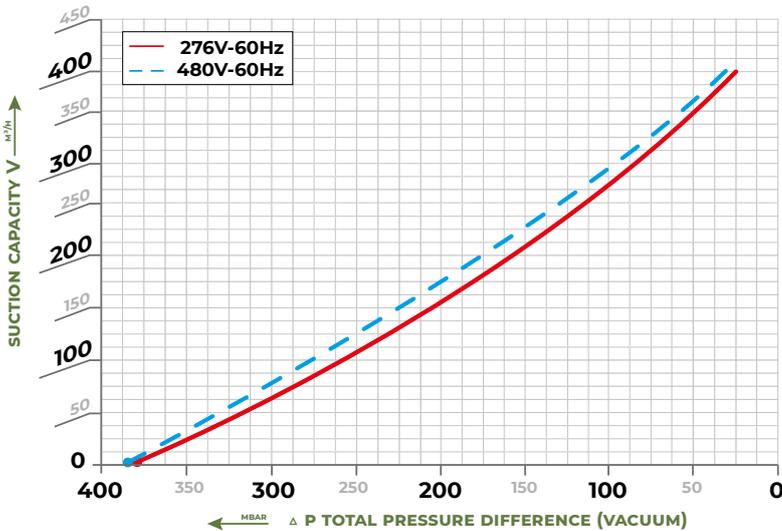
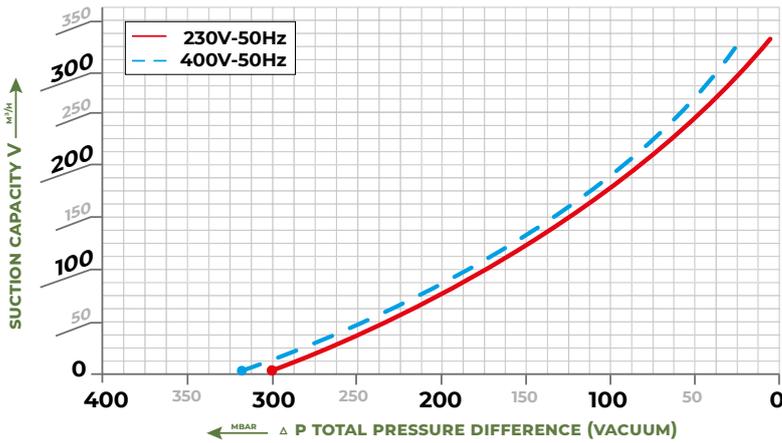
All products achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %.

For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.

VACUUM SELECTION DIAGRAM



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperature of 25°C.

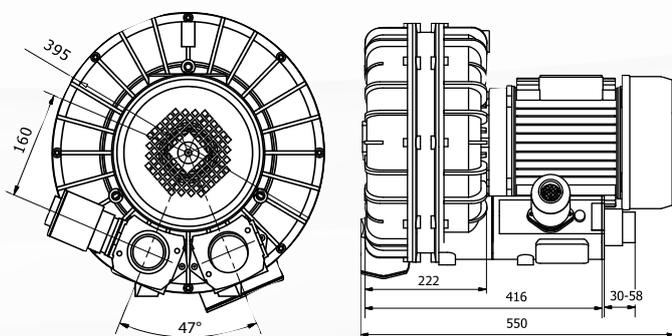


455 BP/BPF ATEX 21 ATEX 2-22

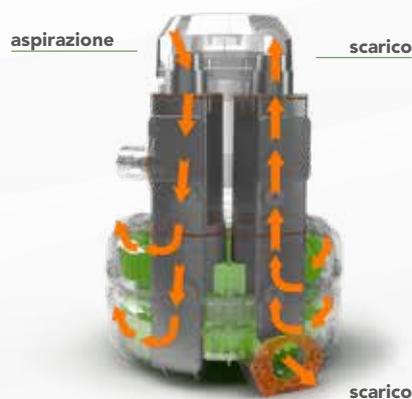
Le turbine **bistadio trifase** SOLARYS ATEX sono ideali per ambienti con rischio di esplosione da gas o polveri (**zone 2, 21, 22**). Offrono pressioni elevate, funzionamento continuo e zero manutenzione, grazie alla costruzione in alluminio pressofuso e al motore antiscintilla certificato **ATEX**. Potenza e sicurezza per impianti esigenti.



DIMENSIONI 455 BP/BPF EX21 - EX 2-22



FUNZIONAMENTO 455 BP/BPF EX21 - EX 2-22



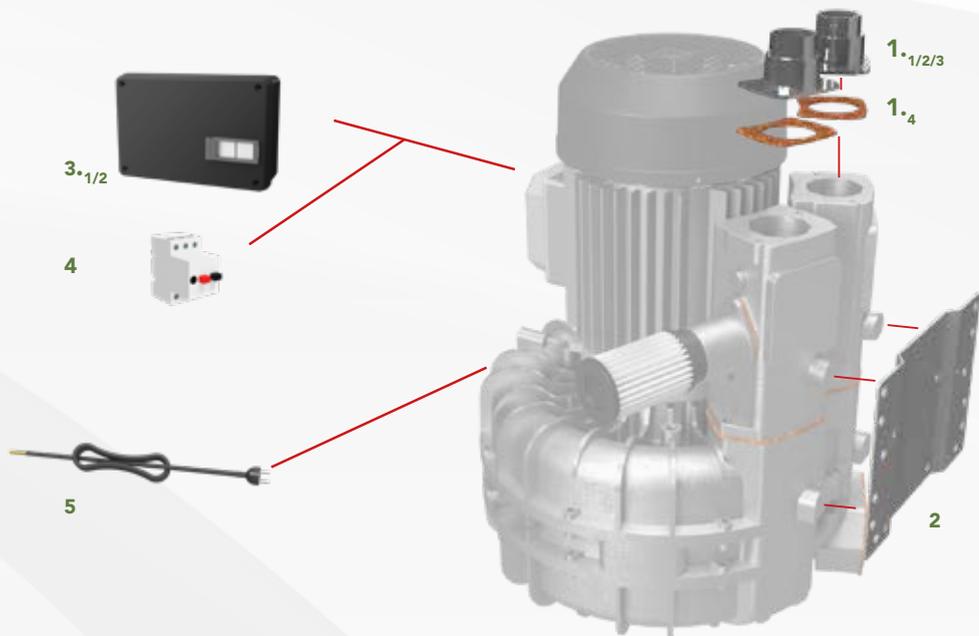
OPTION 455 BP/BPF EX21 - EX 2-22

- **1.1** RACCORDO FLANGIATO Ø50-60 | **cod. 600383**
- **1.2** RACCORDO FLANGIATO TORNITO Ø60 | **cod. 200126**
- **1.3** RACCORDO FLANGIATO TORNITO Ø70 | **cod. 200634**
- **1.4** GUARNIZIONE RACCORDO FLANGIATO | **cod. 600033**
- **2** PIASTRA SUPPORTO TURBINA ZINCATA | **cod. 600412**
- **3.1** SCATOLA INTERRUTTORI ATEX CHIUSA (CONF.11ML) | **cod. 601218**
- **3.2** SCATOLA INTERRUTTORI ATEX APERTA (CONF.11ML) | **cod. 600335**
- **4** INTERRUTTORE SALVAMOTORE 10-16 A | **cod. 600534**
- **5** CAVO ALIMENTAZIONE H05 VVF 4GX2,5 | **cod. 600578**
- **6.1** TUBO Ø50 H25 FLANGIATO A CAMPANA FRONTALE | **cod. 300705**
- **6.2** TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE CON RETE | **cod. 300531**
- **6.3** TUBO Ø50 H40 FLANGIATO A CAMPANA FRONTALE CON RETE | **cod. 300530**
- **6.4** TUBO FLANGIATO Ø50 | **cod. 300524**
- **6.5** TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE | **cod. 300396**



TREATMENTS

- **Anodising:** Surface treatment to protect aluminium from corrosion. | - Thermal: **available on 4 kW - 5.5 - 7.5 motors.**



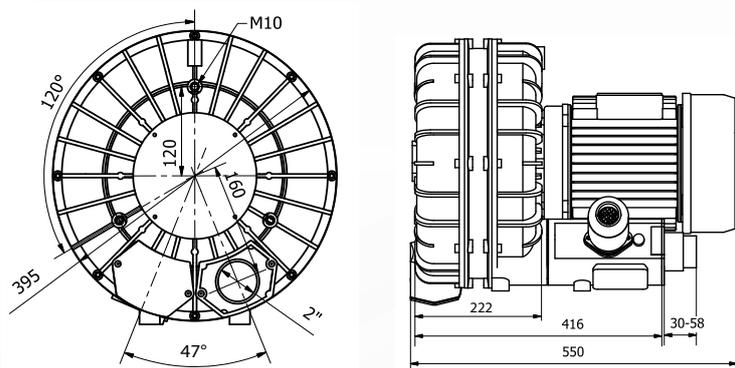


455

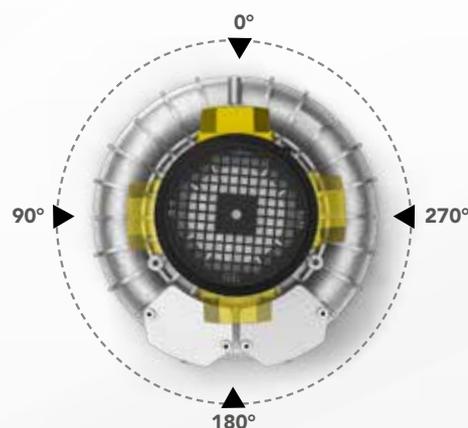
MADE IN ITALY



DIMENSIONI 455 BP/BPF EX21 - EX 2-22



ORIENTAMENTO MOTORE 455 BP/BPF EX21 - EX 2-22



NB. Per l'orientamento a 180° non è possibile installare il silenziatore.



FUNZIONAMENTO

■ 455 BP/BPF EX21 - EX 2-22 - VARIANTE 1

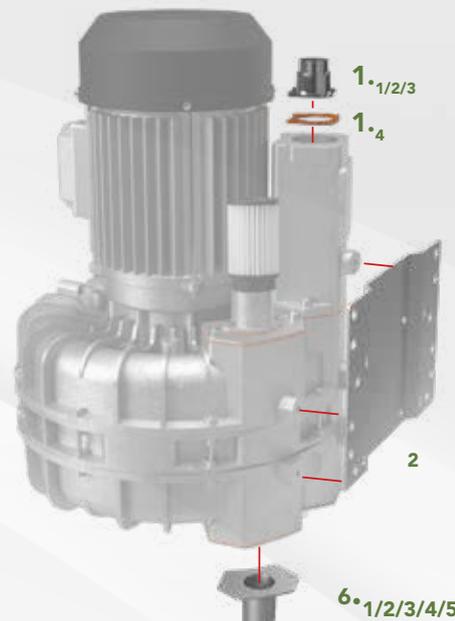
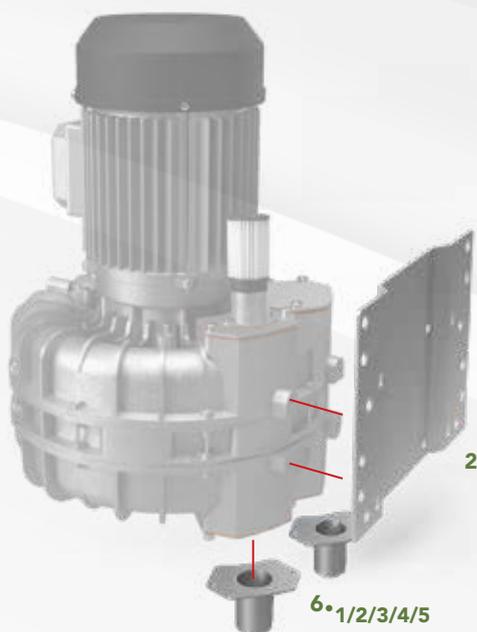
■ 455 BP/BPF EX21 - EX 2-22 - VARIANTE 2



OPTION

■ 455 BP/BPF EX21 - EX 2-22 - VARIANTE 1

■ 455 BP/BPF EX21 - EX 2-22 - VARIANTE 2





MOD. 455 BP/BPF EX21 MOD. 455 BP/BPF EX2-22



SIDE CHANNEL BLOWERS AND SUCTION UNITS

MODEL	DESCRIPTION	VOLT (Δ/Y)	Hz	kW	A (Δ/Y)	RPM	IP
0.455BP EX2-22	THREE PHASE TURBINE 5,5KW	Δ 230/ Y 400	50	5,2	Δ 17,3/ Y 10,0	2850	65
0.455BPF EX2-22		Δ 220/ Y 380	60	6.3	Δ 19,0/ Y 11,0	3420	
		Δ 276/ Y 480	60	6.3	Δ 17,3/ Y 10,0	3460	
0.455BP EX21		Δ 230/ Y 400	50	5,5	Δ 18,4/ Y 10,6	2880	65



All products achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN 60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

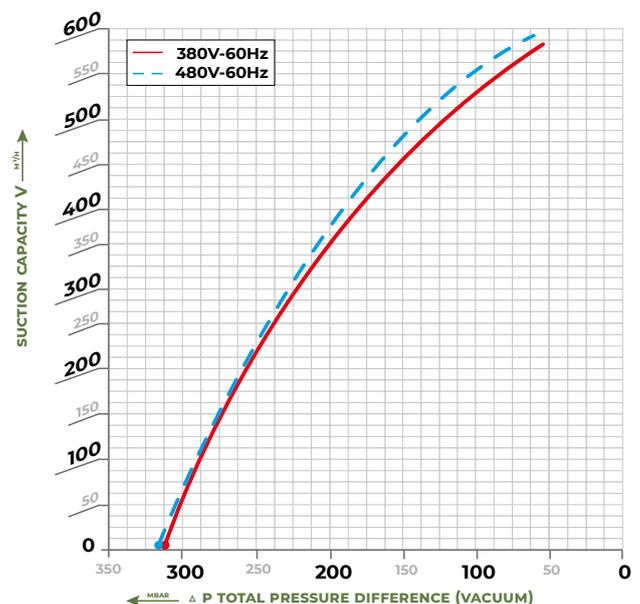
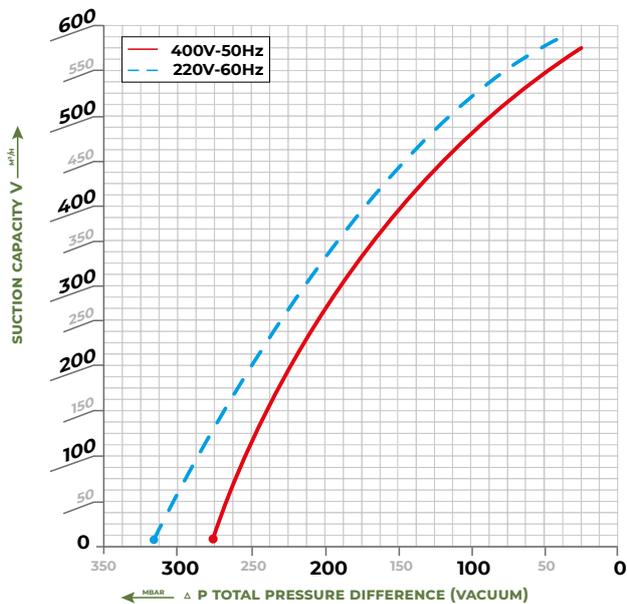
Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %.

For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.



VACUUM SELECTION DIAGRAM



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25°C.

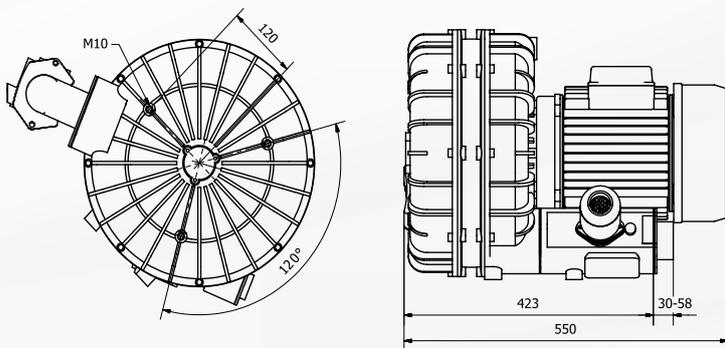


455 BS/BSF ATEX 21 ATEX 2-22

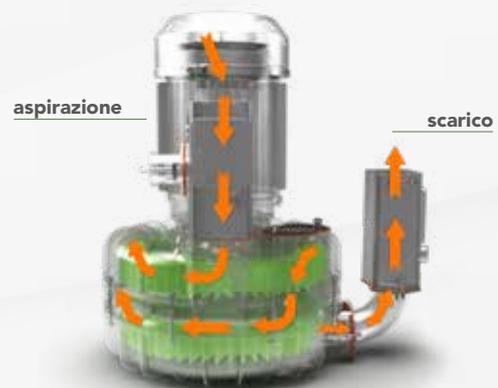
Le turbine **bistadio trifase** SOLARYS ATEX sono ideali per ambienti con rischio di esplosione da gas o polveri (**zone 2, 21, 22**). Offrono pressioni elevate, funzionamento continuo e zero manutenzione, grazie alla costruzione in alluminio pressofuso e al motore antiscintilla certificato **ATEX**. Potenza e sicurezza per impianti esigenti.



DIMENSIONI 455 BS EX21



FUNZIONAMENTO 455 BS EX21

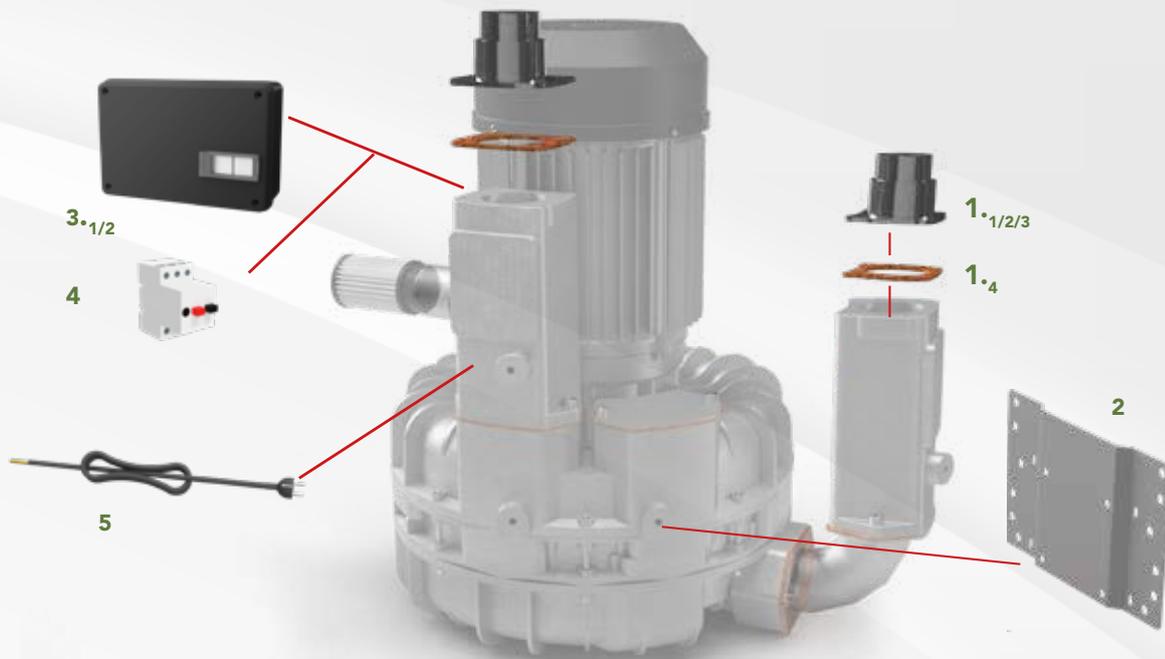


OPTION 455 BS EX21

- 1.₁ RACCORDO FLANGIATO Ø50-60 | **cod. 600383**
- 1.₂ RACCORDO FLANGIATO TORNITO Ø60 | **cod. 200126**
- 1.₃ RACCORDO FLANGIATO TORNITO Ø70 | **cod. 200634**
- 1.₄ GUARNIZIONE RACCORDO FLANGIATO | **cod. 600033**
- 2 PIASTRA SUPPORTO TURBINA ZINCATA | **cod. 600412**
- 3.₁ SCATOLA INTERRUTTORI ATEX (CONF.11ML) CHIUSA | **cod. 601218**
- 3.₂ SCATOLA INTERRUTTORI IGNIF. APERTA (CONF.11ML) | **cod. 600334**
- 4 INTERRUTTORE SALVAMOTORE 10-16 A | **cod. 600534**
- 5 CAVO ALIMENTAZIONE H05 VWF 4GX2,5 | **cod. 600578**

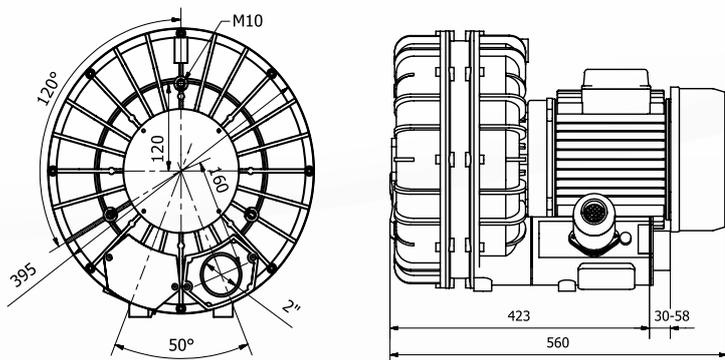


TRATTAMENTI - **Anodizzazione:** Trattamento superficiale contro la corrosione dell'alluminio. | - **Termico:** disponibile su motori da **4 KW - 5,5 - 7,5**.

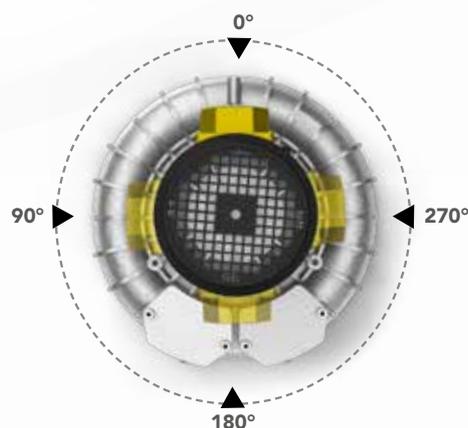




DIMENSIONI 455 BSF EX21



ORIENTAMENTO MOTORE 455 BS/BSF EX21



NB. Per l'orientamento a 180° non è possibile installare il silenziatore.



FUNZIONAMENTO

■ 455 BSF EX21 - VARIANTE 1

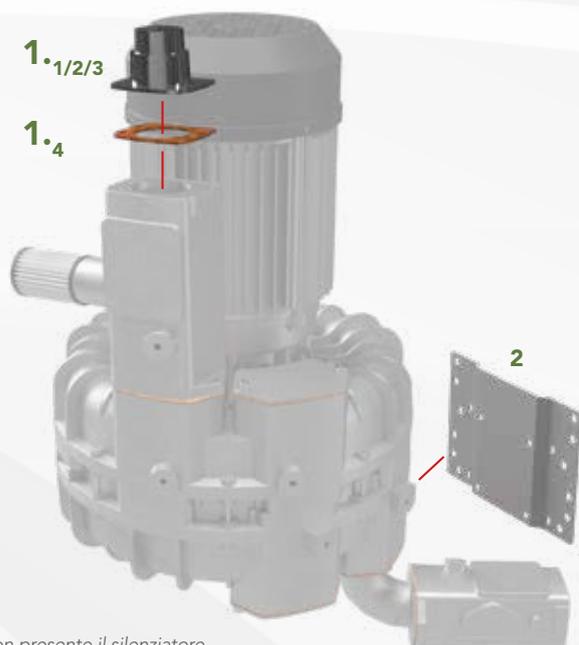


■ 455 BSF EX21 - VARIANTE 2

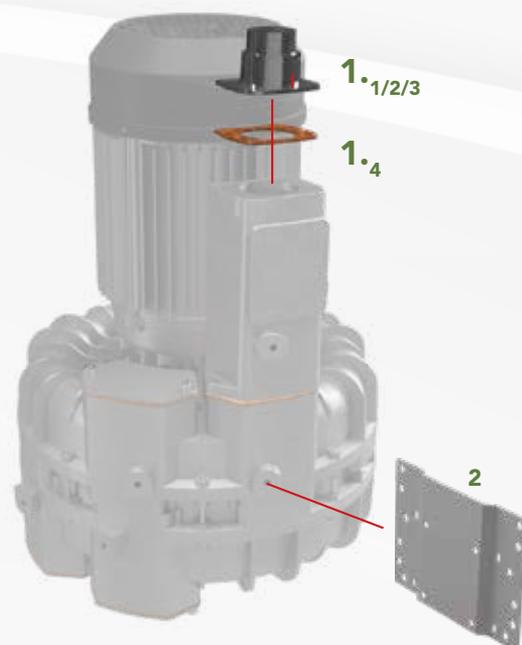


OPTION

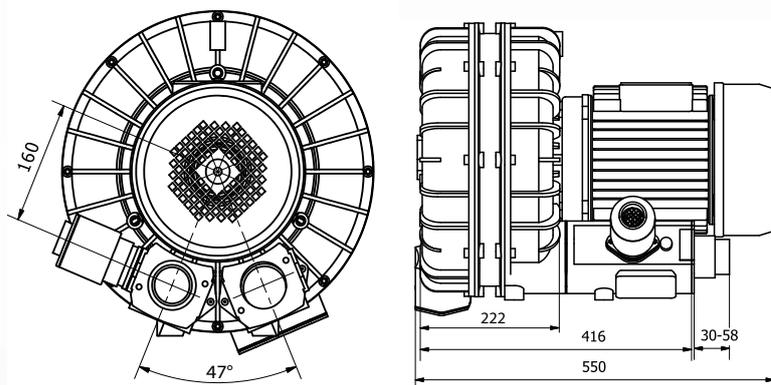
■ 455 BSF EX21 - VARIANTE 1



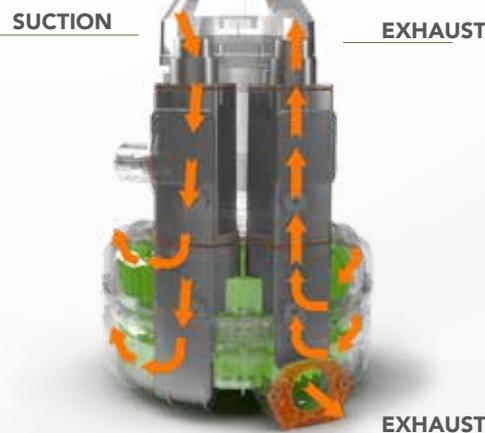
■ 455 BSF EX21 - VARIANTE 2



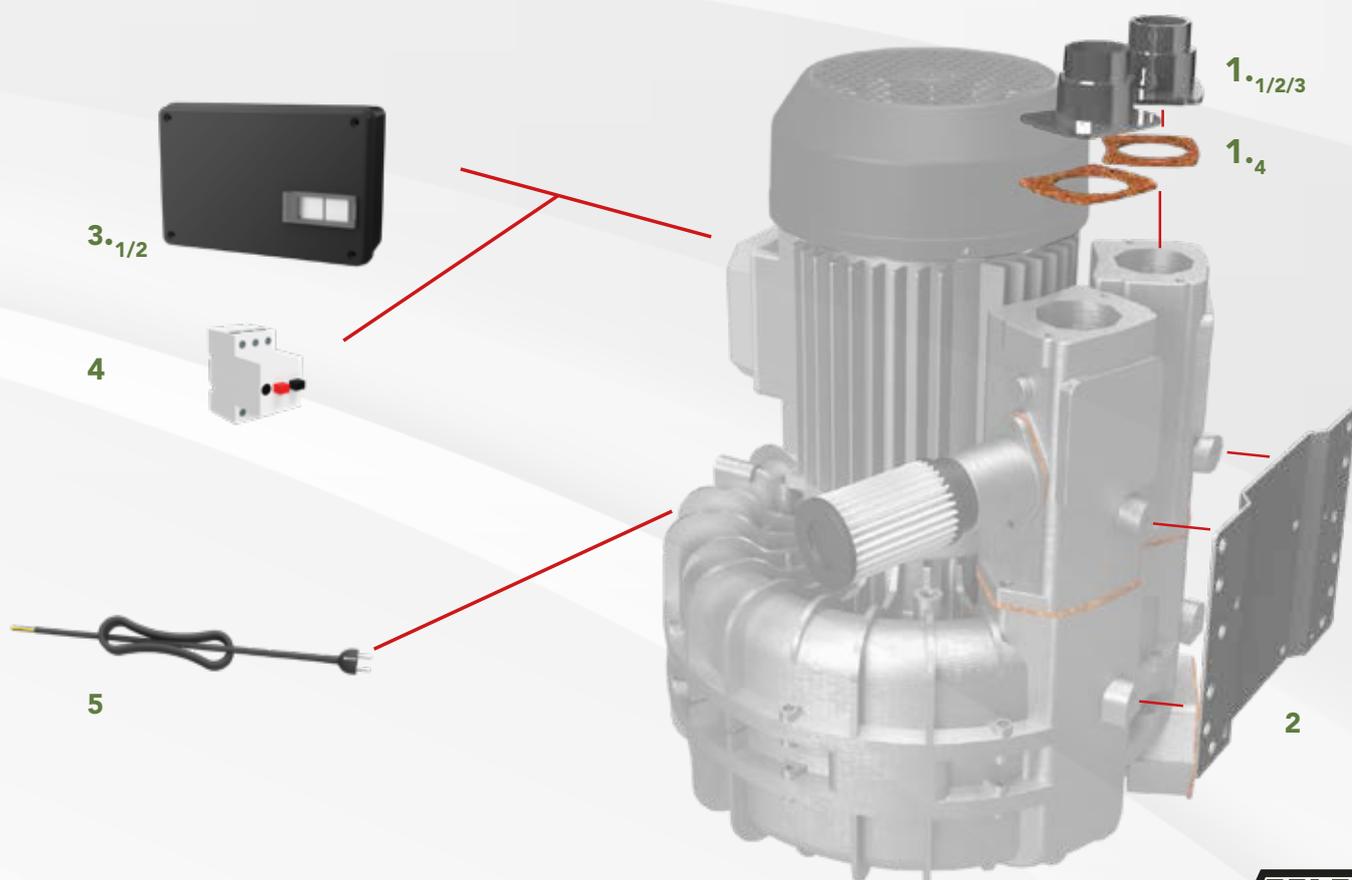
NB. Se non presente il silenziatore la piastra di supporto turbina non è applicabile.


DIMENSIONI 455 BS EX2-22

OPTION 455 BS/BSF EX2-22

- | | |
|---|---|
| - 1. ₁ RACCORDO FLANGIATO Ø50-60 cod. 600383 | - 4 INTERRUTTORE SALVAMOTORE 10-16 A cod. 600534 |
| - 1. ₂ RACCORDO FLANGIATO TORNITO Ø60 cod. 200126 | - 5 CAVO ALIMENTAZIONE H05 VVF 4GX2,5 cod. 600578 |
| - 1. ₃ RACCORDO FLANGIATO TORNITO Ø70 cod. 200634 | - 6. ₁ TUBO Ø50 H25 FLANGIATO A CAMPANA FRONTALE cod. 300705 |
| - 1. ₄ GUARNIZIONE RACCORDO FLANGIATO cod. 600033 | - 6. ₂ TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE CON RETE cod. 300531 |
| - 2 PIASTRA SUPPORTO TURBINA ZINCATA cod. 600412 | - 6. ₃ TUBO Ø50 H40 FLANGIATO A CAMPANA FRONTALE CON RETE cod. 300530 |
| - 3. ₁ SCATOLA INTERRUTTORI ATEX CHIUSA (CONF.11ML) cod. 601218 | - 6. ₄ TUBO FLANGIATO Ø50 cod. 300524 |
| - 3. ₂ SCATOLA INTERRUTTORI ATEX APERTA (CONF.11ML) cod. 600335 | - 6. ₅ TUBO Ø50 H75 FLANGIATO A CAMPANA FRONTALE cod. 300396 |

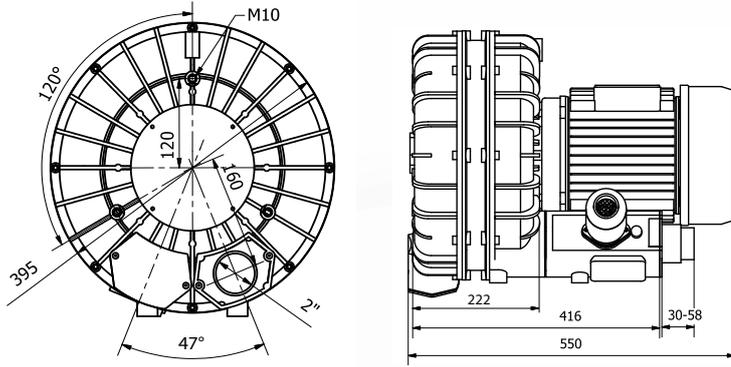

FUNZIONAMENTO 455 BS EX2-22

TRATTAMENTI

- **Anodizzazione:** Trattamento superficiale contro la corrosione dell'alluminio. | - **Termico:** disponibile su motori da 4 KW - 5,5 - 7,5.

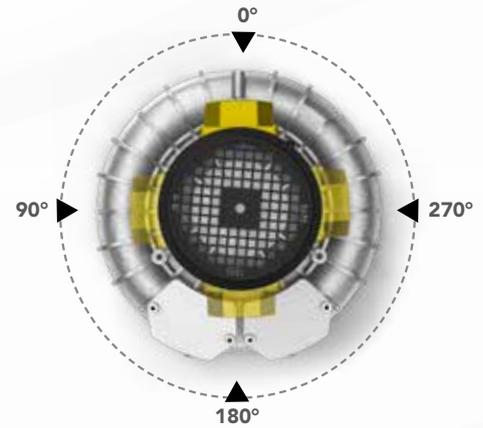




DIMENSIONI 455 BSF EX2-22



ORIENTAMENTO MOTORE 455 BS/BSF EX2-22



NB. Per l'orientamento a 180° non è possibile installare il silenziatore.



FUNZIONAMENTO

455 BSF EX2-22 - VARIANTE 1

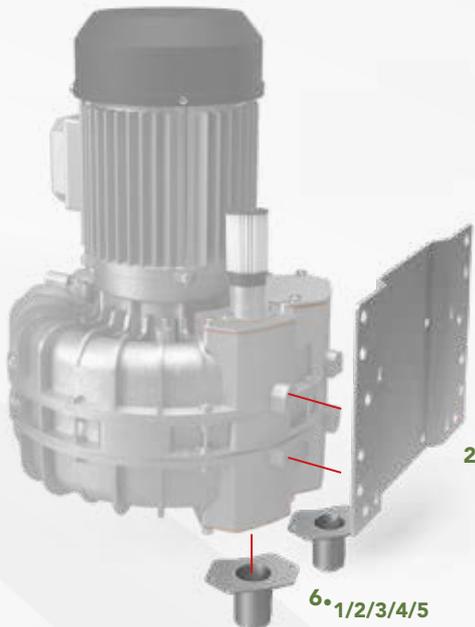


455 BSF EX2-22 - VARIANTE 2

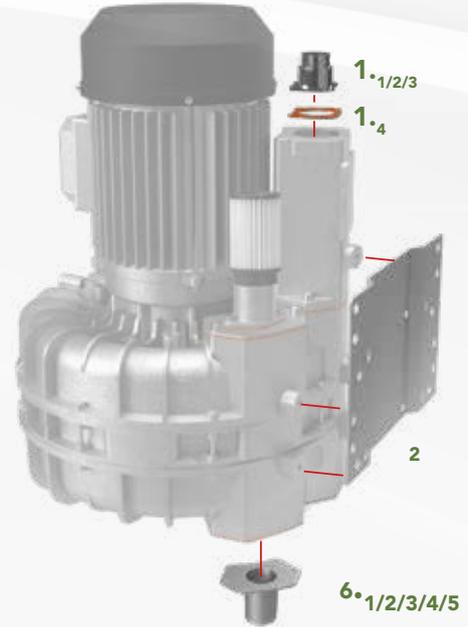


OPTION

455 BPF EX2-22 - VARIANTE 1



455 BSF EX2-22 - VARIANTE 2



MODEL	DESCRIPTION	VOLT (Δ/Y)	Hz	kW	A (Δ/Y)	RPM	IP
0.455BS EX22	THREE PHASE TURBINE 5,5KW	Δ 230/ Y 400	50	5,5	Δ 19,0/ Y 11,0	2850	55
0.455BSF EX22		Δ 220/ Y 380	60	6.6	Δ 21,0/ Y 12,1	3460	
		Δ 276/ Y 480	60	6.6	Δ 19,0/ Y 11,0	3480	
0.455BS EX21		Δ 230/ Y 400	50	5,5	Δ 18,4/ Y 10,6	2880	65

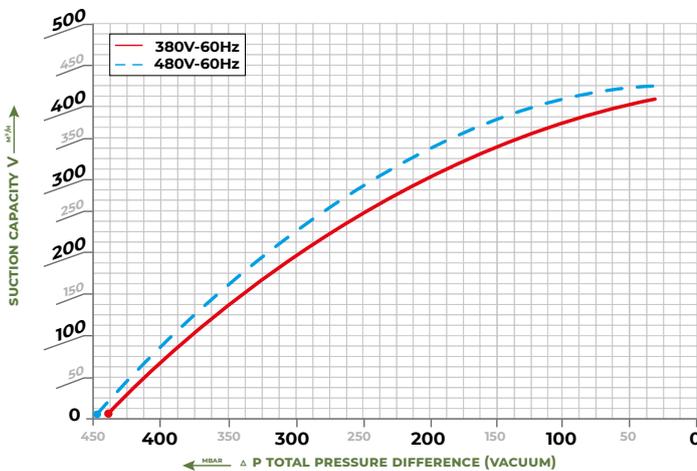
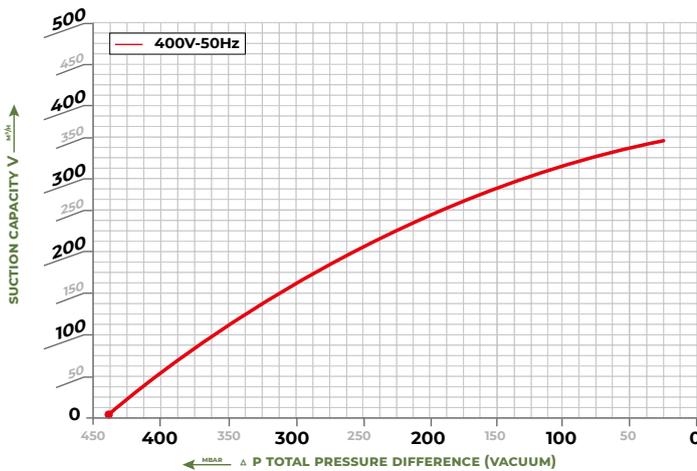
! All products achieve the standards and norms of the low voltage directive (LVD)2006/95/EC, rotating electrotechnical motor EN 60034-1-2004, electromagnetic compatibility(EMC)EN55014-1/2,EN61000-2/-3/-4/-6.

Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (compressor) / suction side (vacuum pump), but is not fitted with relief valves.

The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F. For the three phase machines the tolerances are +/- 10 % for fixed voltage and +/- 5 % for voltage range. The single phase machines are designed with a +/- 5% tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %.

For all single and three phase machines which designed according to the UL and CSA norm (UL 1004-1) the maximum allowed voltage tolerances are - 10 % resp. + 6 %. The frequency tolerance is maximum +/- 2 %.

VACUUM SELECTION DIAGRAM



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of ±10%. The total pressure differences are valid up to an intake and ambient temperature of 25°C.



MODELLI NON MOTORIZZATI



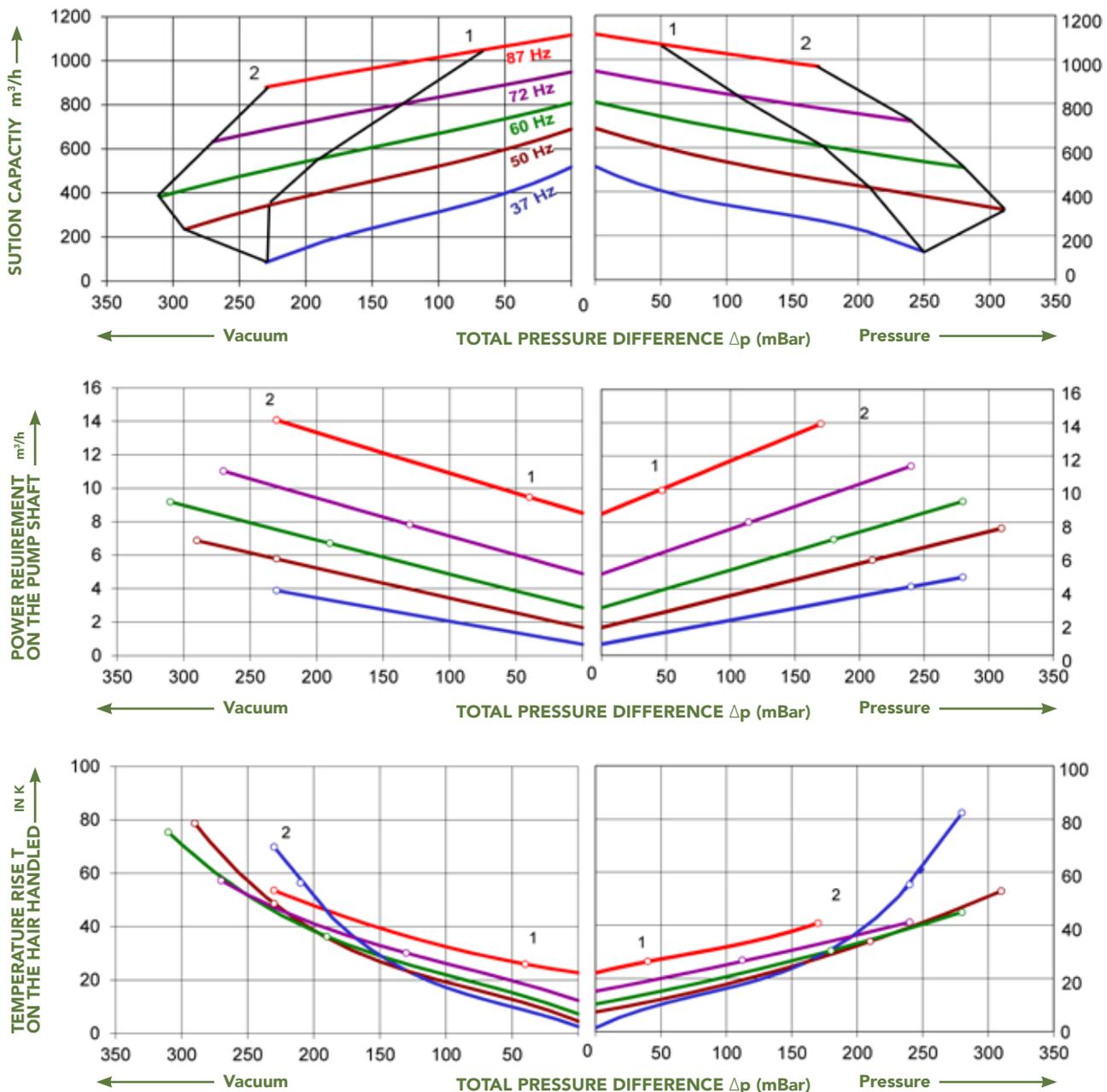
NO	Frequency	Rated speed			Maximum different pressure (1)		Sound pressure level (2)	Weight approx
NO	Hz	VOLTAGE (V)	CURRENT (A)	POWER (kW)	VACUUM (mBar)	PRESSURE (mBar)	dB (A)	Kg
1	37	-	-	-	-230	250	66	78
	50	-	-	-	-230	210	78	
	60	-	-	-	-190	180	80	
	87	400 Δ	19.8 Δ	10.2	-70	50	85	
2	37	-	-	-	-230	250	66	82
	50	-	-	-	-290	310	79	
	60	-	-	-	-310	280	81	
	87	400 Δ	19.8 Δ	10.2	-210	170	85	



N.B. Never exceed the maximum Δp indicated in the graphs and in the table depending on the installed power; apply a safety valve if necessary for this purpose.

VACUUM SELECTION DIAGRAM

COMPRESSOR SELECTION DIAGRAM



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25°C.

NO	Rated speed (RPM)	Rated power (KW)	Maximum air flow (m³/h)	Maximum vacuum (mbar)	Maximum pressure (mbar)	Sound-level dB(A)	Weight approx (Kg)	Vacuum rellet (2BX)
1	3000	5.5	700	-200	190	73	42	1x...4740/ ...4840
	3600	6.3	840	-180	180	75		
	4200	7.5	980	-110	90	78		
	5000	8.8	1140	-10	10	84		
2	3000	7.5	700	-270	260	73		
	3600	8.6	840	-270	260	75		
	4200	10.0	980	-250	220	78		
	5000	12.0	1140	-240	180	84		

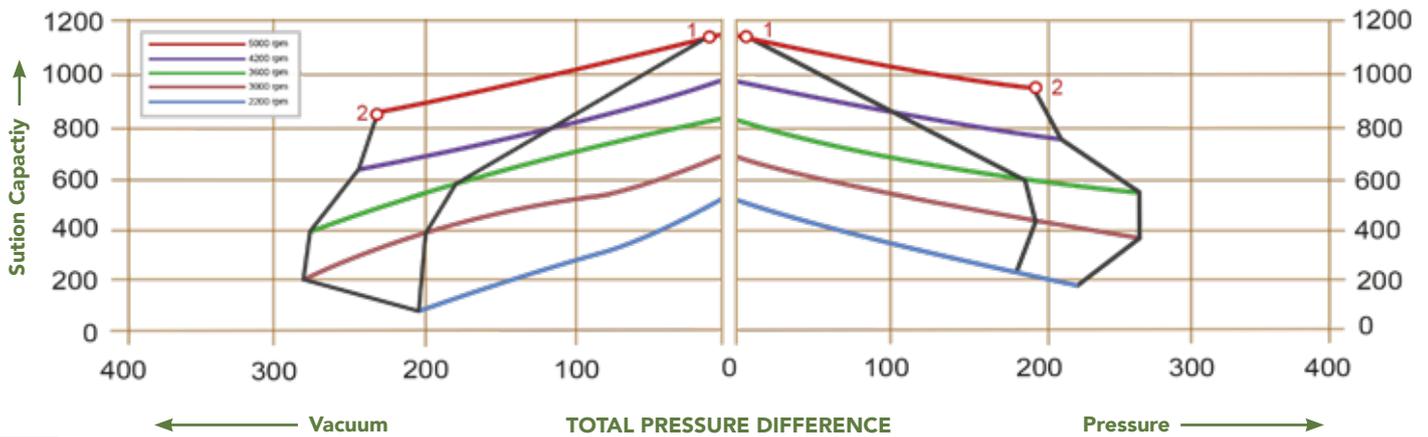


N.B. Never exceed the maximum Δp indicated in the graphs and in the table depending on the installed power; apply a safety valve if necessary for this purpose.

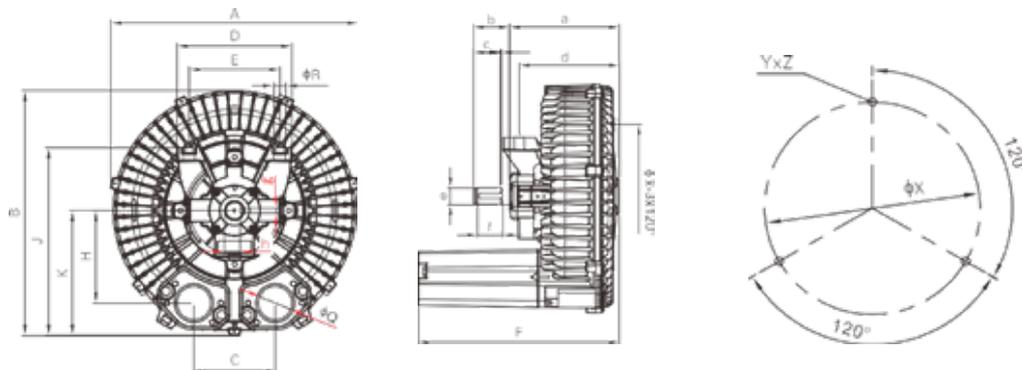


VACUUM SELECTION DIAGRAM

COMPRESSOR SELECTION DIAGRAM



DIMENSION FOR BELT DRIVE SIDE CHANNEL BLOWER



TYPE	A	B	C	D	E	F	H	J	K	ØQ	ØR
1X-8HF-M	451	461	152	245	195	450	175	265	230	68	24
TYPE	A	B	C	D	F	G	H	N	N	Y*Z	ØX
1X-8HF-M	244	85	78	2	42	60	12	37	227	M12X20	286



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25°C.

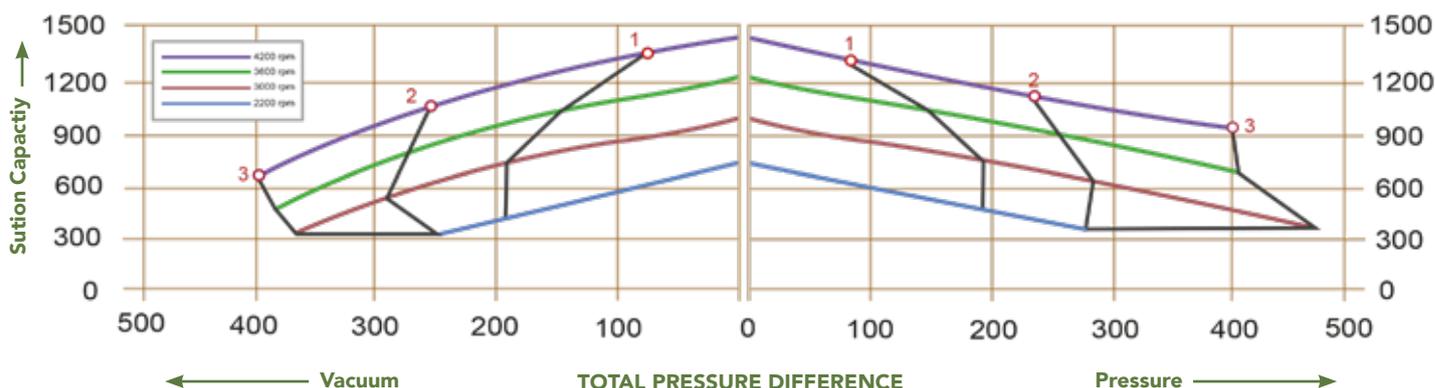
NO	Rated speed (RPM)	Rated power (KW)	Maximum air flow (m³/h)	Maximum vacuum (mbar)	Maximum pressure (mbar)	Sound-level dB(A)	Weight approx (Kg)	Vacuum rellet (2BX)
1	3000	8.5	1050	-190	190	74	72	1x...750/ ...860
	3600	9.8	1250	-150	140	79		
	4200	12.0	1400	-60	80	82		
2	3000	12.5	1050	-290	280	74		
	3600	14.5	1250	-270	260	79		
	4200	17.5	1400	-250	240	82		
3	3000	18.5	1050	-360	460	74		
	3600	21.3	1250	-380	420	79		
	4200	26.0	1400	-400	400	82		



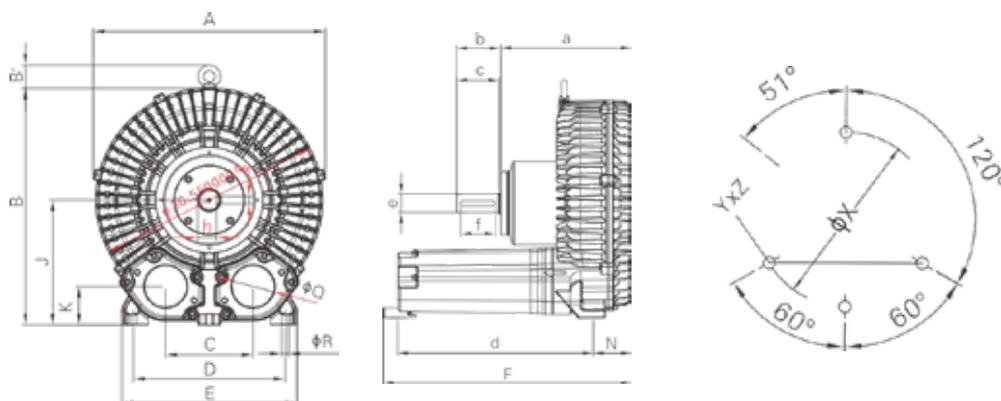
N.B. Never exceed the maximum Δp indicated in the graphs and in the table depending on the installed power; apply a safety valve if necessary for this purpose.

VACUUM SELECTION DIAGRAM

COMPRESSOR SELECTION DIAGRAM



DIMENSION FOR BELT DRIVE SIDE CHANNEL BLOWER



TYPE	A	B	B'	C	D	E	F	J	K	N	ØQ	ØR
1X-9HF-M	550	569	55	207	360	415	644	300	92	127	100	15
TYPE	a	b	c	d	e	f	h	g	Y+Z	ØX		
1X-9HF-M	340	114	110	533	48	90	42	14	M12X30	490		



The performance curves are valid for pumping air at 15°C at the inlet flanges with an air pressure of 1.013mbar and a tolerance of $\pm 10\%$. The total pressure differences are valid up to an intake and ambient temperature of 25°C.



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