

> PV-L

Ventilatori centrifughi pale rovesce per aria polverosa

Backward curved blade centrifugal fans for dusty air



Versioni / Versions:



Conformi alla Direttiva ErP 2009/125/CE ed al Regolamento UE 327/2011 (FAN)

Compliant with ErP Directive 2009/125/CE and EU Regulation 327/2011 (FAN)

DESCRIZIONE GENERALE

I ventilatori della serie PV-L trovano la loro principale applicazione negli impianti civili e industriali di condizionamento, ventilazione, riscaldamento e filtrazione. Possono convogliare aria pulita e fumi leggermente polverosi con temperatura da -20°C a +80°C nella configurazione standard e fino a 150°C con costruzioni speciali. La serie prevede esecuzioni direttamente accoppiate (esecuzione 4) a trasmissione (esecuzione 1, 9 e 12). Adatto per portate limitate e prevalenze molto alte.

COSTRUZIONE

- Cassa a spirale realizzata in lamiera d'acciaio e protetta contro gli agenti atmosferici con vernici a polveri epossipoliesteriche.
- Boccaglio d'aspirazione con ampio raggio realizzato in lamiera d'acciaio e protetto contro gli agenti atmosferici con vernici a polveri epossipoliesteriche.
- Girante a semplice aspirazione con pale rovesce curve ad alto rendimento aerodinamico, realizzata in lamiera e verniciata con vernici a polveri epossipoliesteriche. Sono previste versioni per alte velocità di rotazione in classe 3.
- Motore asincrono trifase a norme internazionali IEC 60034, IEC 60072, EMC 2004/108/CE, LVD 2006/95/CE e marcato CE IP55, classe F, idonei ad un servizio S1 (funzionamento continuo a carico costante).

ACCESSORI (disponibili su richiesta)

- Tappo scarico condensa (TS)
- Portella d'ispezione (PI)
- Controflangia per bocca aspirante (CFA)
- Controflangia per bocca premente (CFP)
- Rete di protezione per bocca aspirante (RA)
- Rete di protezione per bocca premente (RP)
- Giunto antivibrante per bocca aspirante (GA)
- Giunto antivibrante per bocca premente (GP)
- Regolatore di portata in aspirazione
- Serranda ad alette contrapposte in premente
- Supporti antivibranti

A RICHIESTA

- Versione idonea al trasporto di gas caldi, max 150°C (PV-L/AT EX4).
- Versione resistente all'azione corrosiva del gas trasportato, realizzata con cassa, boccaglio e girante in acciaio inossidabile AISI304 (PV-L/INOX).
- Versione ATEX: motore asincrono trifase I12G, I12D, I12GD a norme internazionali IEC 60034, IEC 60072, IEC 60079 e/o IEC 61241, EMC 2004/108/CE, LVD 2006/95/CE, con certificati ATEX e marcatura CE, IP 55/IP 65, classe F, idonei ad un servizio S1 (funzionamento continuo a carico costante).

GENERAL DESCRIPTION

The fans of the PV-L series find their principal application in the industrial plants of pneumatic transport, suction and filtering in foundries, cement factories, mines, marble, ceramics and glass factories, furnaces, etc. They can convey clean or slightly dusty air and smoke, with temperature from -20°C to +80°C in the standard configuration and up to 150°C with specials constructions. The series foresees direct drive version (execution 4) and belt drive version (execution 1, 9 and 12). Suitable for medium and low capacities, high pressures.

CONSTRUCTION

- Volute casing in steel sheet, protected against atmospheric agents by epoxy paint.
- Aerodynamically shaped inlet cone in steel sheet, protected against atmospheric agents by epoxy paint.
- Single inlet backward curved wheel with high efficiency, manufactured in steel sheet and epoxy painted. For high rotational speed, versions in class 3 are foreseen.
- Asynchronous three-phase motors according to international standards IEC 60034, IEC 60072, EMC 2004/108/CE, LVD 2006/95/CE, CE marked, IP 55, class F, suitable to S1 service (continuous working at constant load).

ACCESSORIES (available upon request)

- Condensation drain hole (TS)
- Inspection door (PI)
- Inlet counter-flange (CFA)
- Outlet counter-flange (CFP)
- Inlet protection guard (RA)
- Outlet protection guard (RP)
- Inlet flexible connector (GA)
- Outlet flexible connector (GP)
- Inlet vane control
- Outlet setting shutter
- Anti-vibration mounts

UPON REQUEST

- High temperature version suitable for conveying hot gases, Max 150°C (PV-L/AT EX4).
- Corrosion resistant version, manufactured with casing, inlet side and impeller in stainless steel AISI304 (PV-L/INOX).
- ATEX version, with asynchronous three-phase motors I12G, I12D, I12GD according to international standards IEC 60034, IEC 60072, IEC 60079 and/or IEC61241, EMC 2004/108/CE, LVD 2006/95/CE, with ATEX certification, CE marked, IP55/IP 65, class F, suitable to S1 service (continuous working at constant load).

Selection - PV-L 552

Product Code	7PV5524
Requested Air Volume	3.000 m³/h
Requested Pressure	500 mmwg
Air Volume	2.947 m³/h
Static Pressure	483 mmwg
Total Pressure	511 mmwg
Velocity Pressure	28,4 mmwg
Outlet Velocity	21,35 m/s
SFP	6,37 W/l/s
Fan Total Efficiency	78,7 %
Fan Speed	2940 rpm
Air Properties	1,22kg/m³/ 15°C/ 0m/ 50% RH
Fan Absorbed Power	5,21 kW
Temperature Range	-

Construction Settings

Arrangement	4
Discharge	RD-270
Motor Position	D

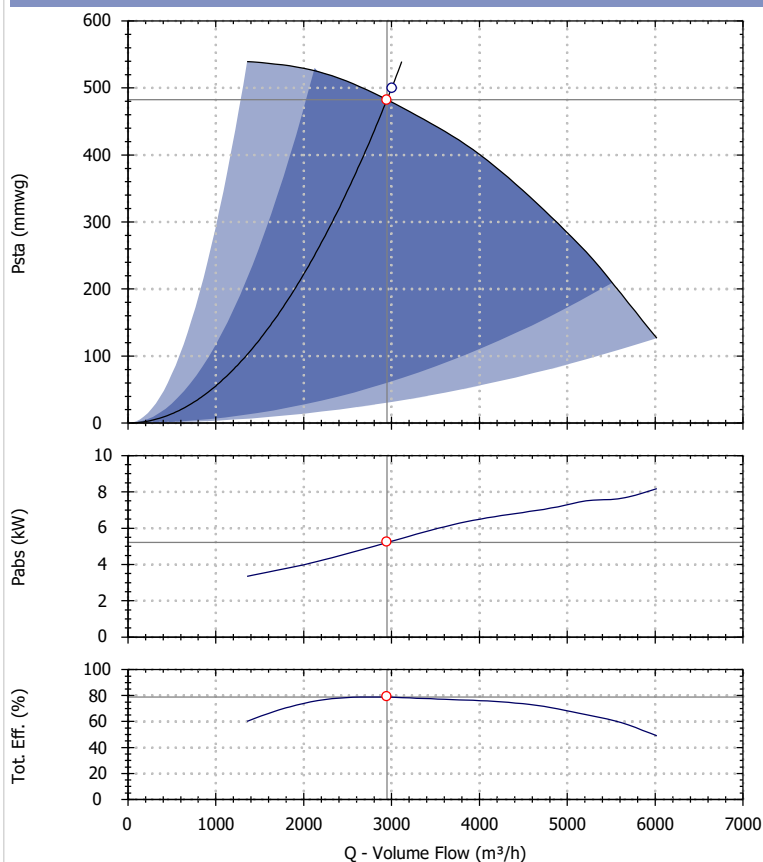
Motor selection

Electrical Supply	400/3/50
Motor Rating	7.50 kW
Enclosure/Class	55 / F
Frame Size	132
Poles number	2
Motor Speed	2940 rpm
Full Load Current	14.10 A

ERP Information

Optimal Efficiency	78,85%
Installation Type	B
Efficiency Category	Total
N	67
Manufacturer	Maico
Reference	PV-L 552
Optimal Power	5,01 kW
Optimal Airflow	2.802 m³/h
Optimal Pressure	517 mmwg
Optimal Speed	2940rpm
ERP Compliance	2015

Fan Performance



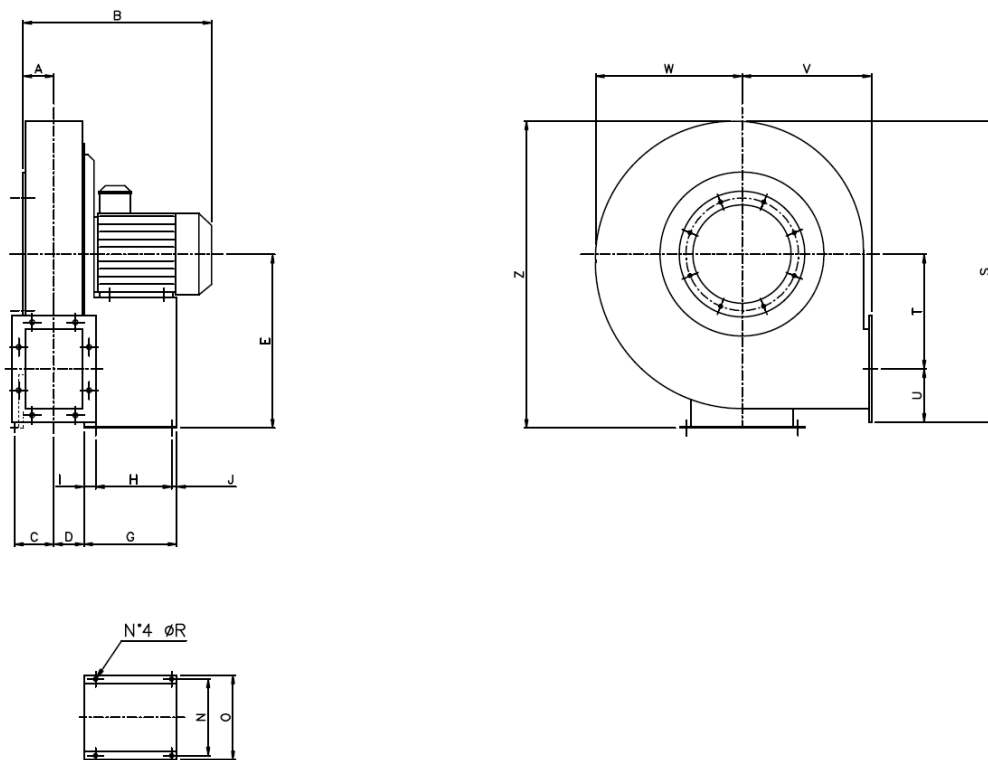
Performances refers to Maico Italia measures and may vary according to the installation type.

Sound Performance

Hz	63	125	250	500	1k	2k	4k	8k	Overall	
Lw	79	87	92	90	96	96	88	83	101	dB
Lw(A)	53	71	84	87	96	97	89	82	100	dB(A)
LpA @ 3m	32	50	63	66	76	76	68	62	80	dB(A)

Sounds spectra refers to Maico Italia measures performed in our laboratories according to 123. The values provided are just indicative of the situation and Maico Italia declines every responsibility in case different levels measured by our customers as the installation types and the environmental variables may increase/decrease these values.

Drawing and Dimensions - PV-L 552



Key	A	B	C	D	E	G	H	I	J	Kg	N	O	R	S	T
Value [mm]	95	579	106	88	500	336	237	40	59	122	337	372	12	880	337

U	V	W	Z
151	375	460	893

Drawings are indicative of the size of the selected fan. These dimensions may vary, even without any explicit advice. To have more accurate information contact your local agency.

Electric Wire Connections

