

ESPECIFICACIONES TÉCNICAS PW-4176 IE3



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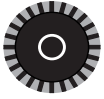
EL PODER DE LA EXCELENCIA



Data sheet 4176 IE3

Side channel blower with IE3-motors

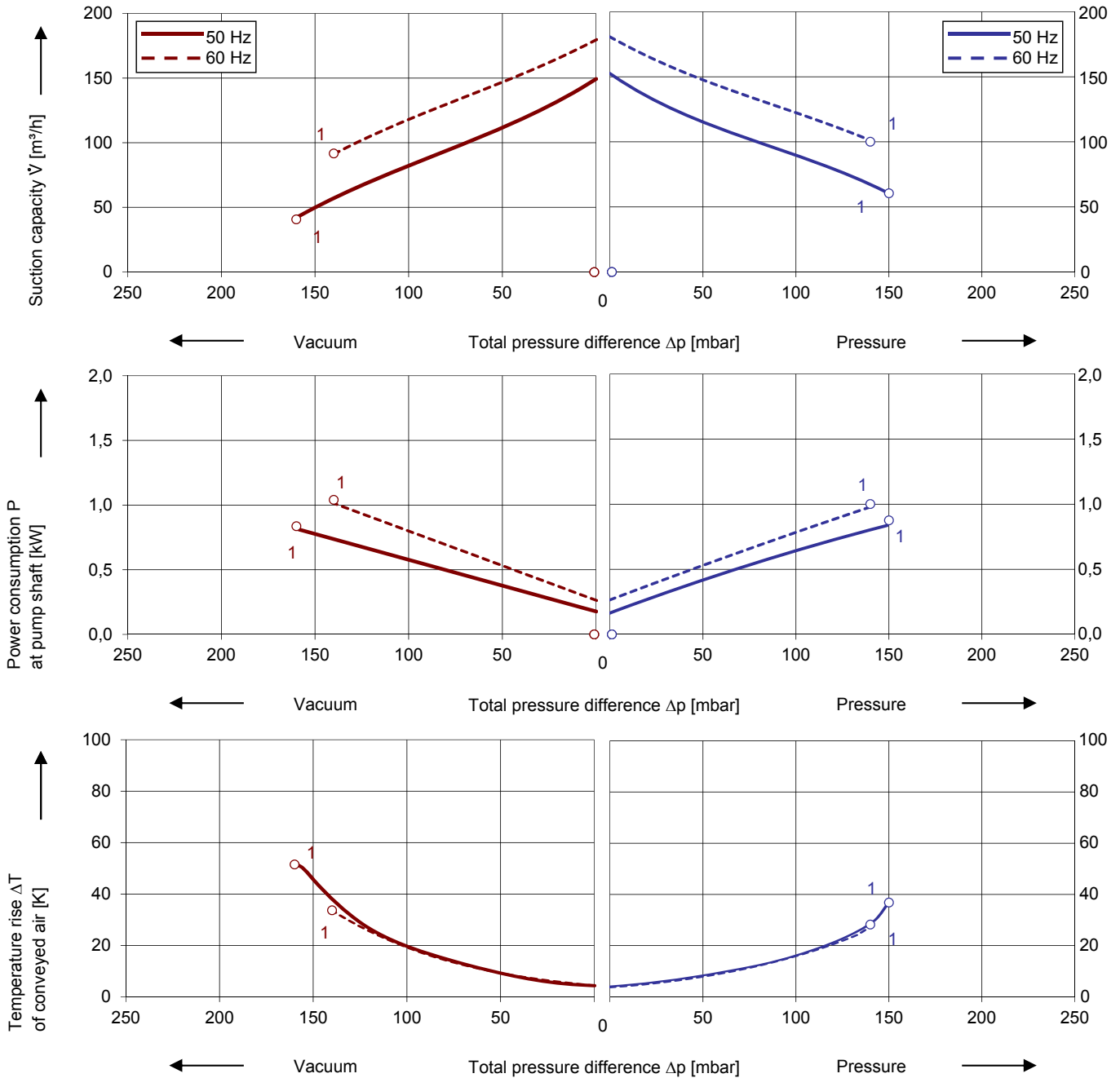
IE3



Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of $\pm 10\%$. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

All PW pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F.

Selection and ordering data

Type PW-4176 IE3

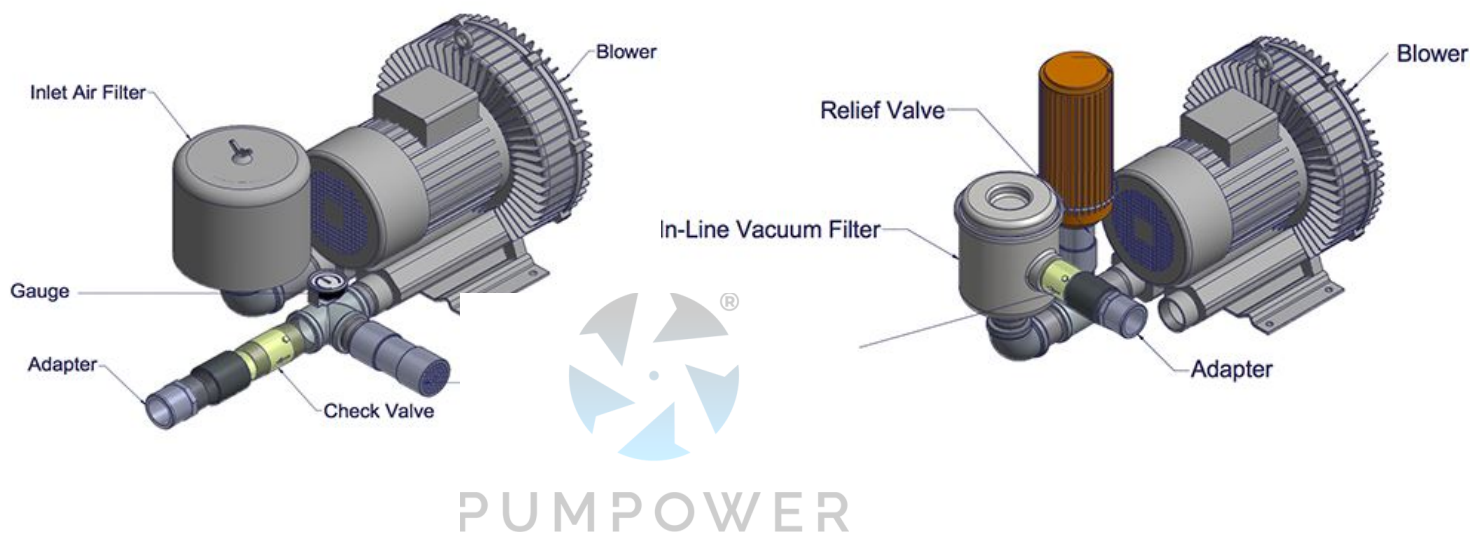
No.	Fre- quency	Rated			Max. differential pressure		Sound pres. Level dB(A)	Efficiency class	Weight approx. kg	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
		Hz	V	A	kW	mbar				
IE3 3~ 50/60 Hz, IP55, Insulation material class F										
1	50	220△/ 440Y	3.3△/1.9Y	0,86	-160	150	63	IE3	19	PW-4176 IE3
	60	220△/ 440Y	3.2△/1.85Y	0,99	-140	140	64	IE3		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).
- 4) PTC recommended for motor overload protection. Ordering example: PW-4176

All PW series match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Voltage tolerances for three phase motors are +/-10%.

The frequency tolerance is +/- 2 % maximum.



All PW 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.

For standard UL for ELECTRIC MOTOR UL 1004-1.

Relief-valve are available for limiting differential pressure.

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 %.

Changes in particular of the quoted performance curve, data and weights may occur without prior notice. The data given do not constitute an obligation from our side to deliver as shown.



PUMPOWER®

BLOWER INDUSTRIAL

- Fabricados con tecnología alemana.
- Equipos de caudal - alto flujo de aire [2.500 m³/h].
- Equipos de alta presión [1.000 mBar].
- Libre de mantenimiento.
- Niveles de ruido bajo.
- Rodamientos originales de alta calidad.
- Funcionamiento libre de aceites, aire limpio.
- Fácil instalación.
- Precio competitivo.
- Diferentes diseños incluyendo una etapa, dos etapas y tres etapas.
- Garantía Amplia.
- Diferentes tipos de conexión: monofásica 110V - 220V, trifásica 220V - 440V.
- Algunas aplicaciones:
 - Oxigenación en estanques diseñados para la piscicultura, acuicultura y/o afines, en tierra y/o geomembrana.
 - Aireación y extracción de gases en la minería.
 - Secado de pintura automotriz.
 - Aspiradoras industriales para lavaderos de carros.
 - Oxigenación en plantas de tratamiento de aguas residuales.
 - Secado de papel.
 - Entre otros.

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|---|--|
| 1 Tapa posterior del Blower. | 6 Flecha de dirección del transporte del fluido. |
| 2 Tapa delantera del Blower. | 7 Flecha que indica el sentido de rotación. |
| 3 Conexión - ducto de succión/vacío. | 8 Motor asíncrono. |
| 4 Conexión - ducto de descarga/presión. | 9 Tapa del ventilador. |
| 5 Base para instalación. | 10 Caja de bornes/terminales. |

