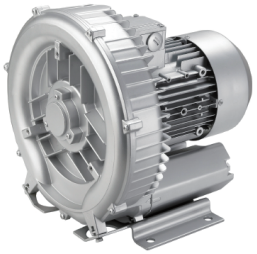
DEREIKE

Data sheet DHB 510

Side channel blower with IE3-motors

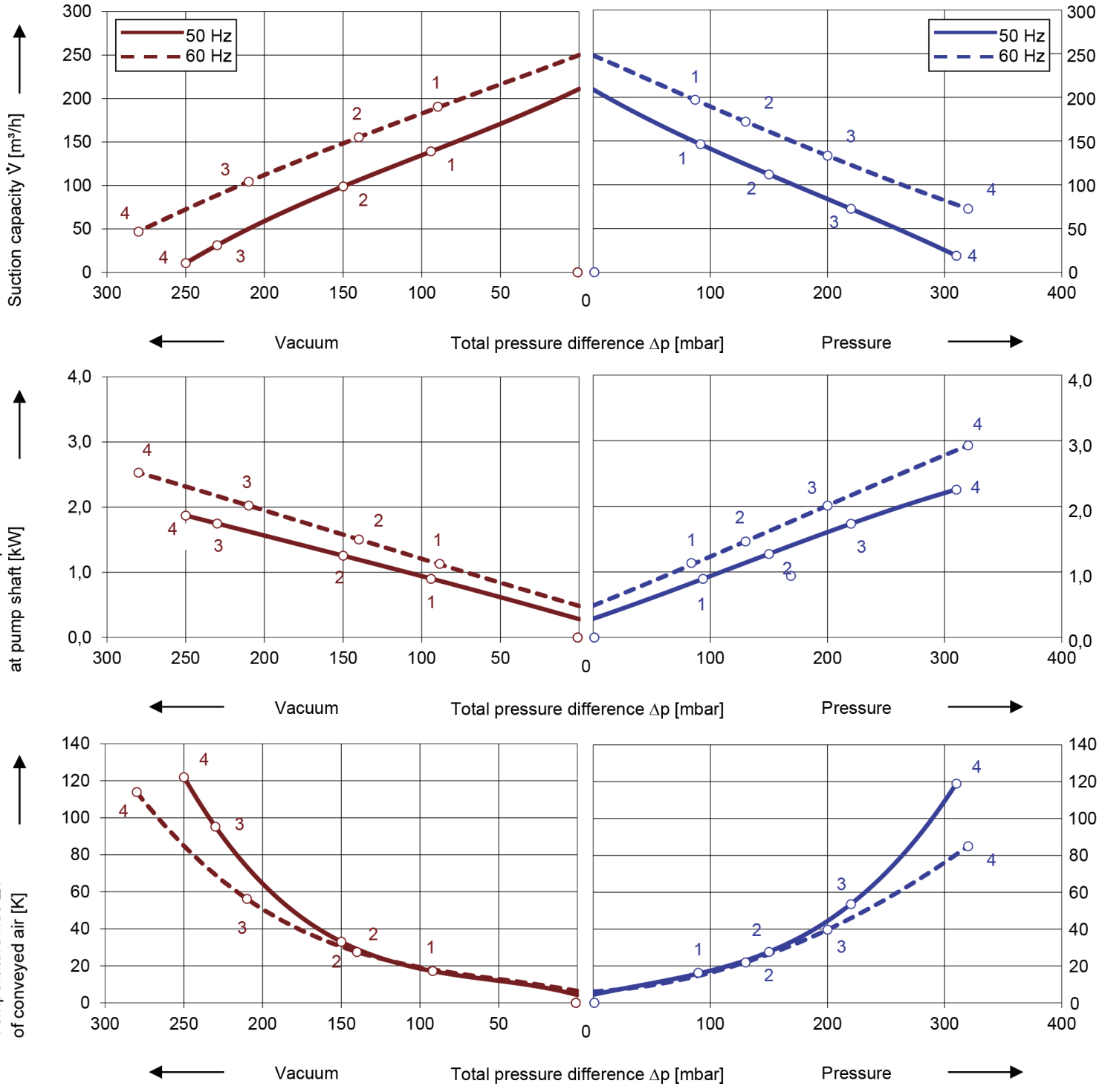
IE3



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 ± 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 our 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 DHB 510

No.	Frequency	Rated			Max. differential pressure		Sound pres. Level	Efficiency class	Weight approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure				
	Hz	V	A	kW	mbar		dB(A)		kg	
IE3	**3~ 50/60 Hz, IP55, Insulation material class F**									
1	50	220-240△/380-420Y	3.3△/1.9Y	0,86	-90	90	64	IE3	26	**DHB 510B D85**
	60	265-290△/460-520Y	3.2△/1.85Y	0,99	-80	80	70	IE3		
2	50	220-240△/380-420Y	4.7△/2.7Y	1,25	-150	150	64	IE3	29	**DHB 510B 1D3**
	60	265-290△/460-520Y	4.6△/2.65Y	1,50	-140	130	70	IE3		
3	50	220-240△/380-420Y	6.0△/3.45Y	1,75	-230	220	64	IE3	32	**DHB 510B 1D6**
	60	265-290△/460-520Y	5.9△/3.4Y	2,00	-210	200	70	IE3		
4	50	220-240△/380-420Y	8.6△/5.0Y	3,0	-250	310	64	IE3	40	**DHB 510B 2D2**
	60	265-290△/460-520Y	8.5△/4.9Y	3,5	-280	320	70	IE3		

1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.

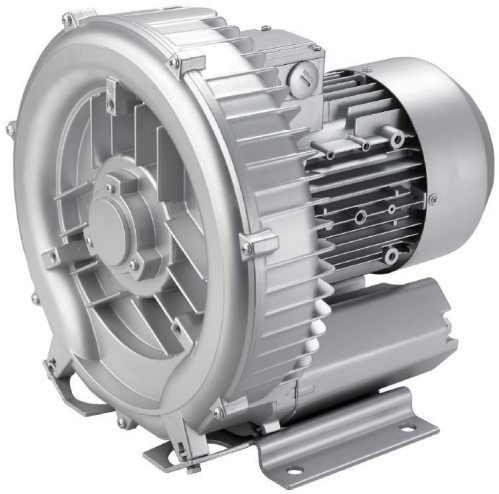
2) Relief valves available for limiting differential pressure.

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: DHB 410 XXX

All our 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.



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.

DEREIKE
Air pumps and systems

Dongguan Dereike Intelligent M&E Equipment Co.,Ltd.

Tel: +86(769) 2688 0032
Mail: info@dereike.com
www.dereikeblower.com
www.dereike.com