DEREIKE

Data sheet DHB 710

Side channel blower with IE3-motors

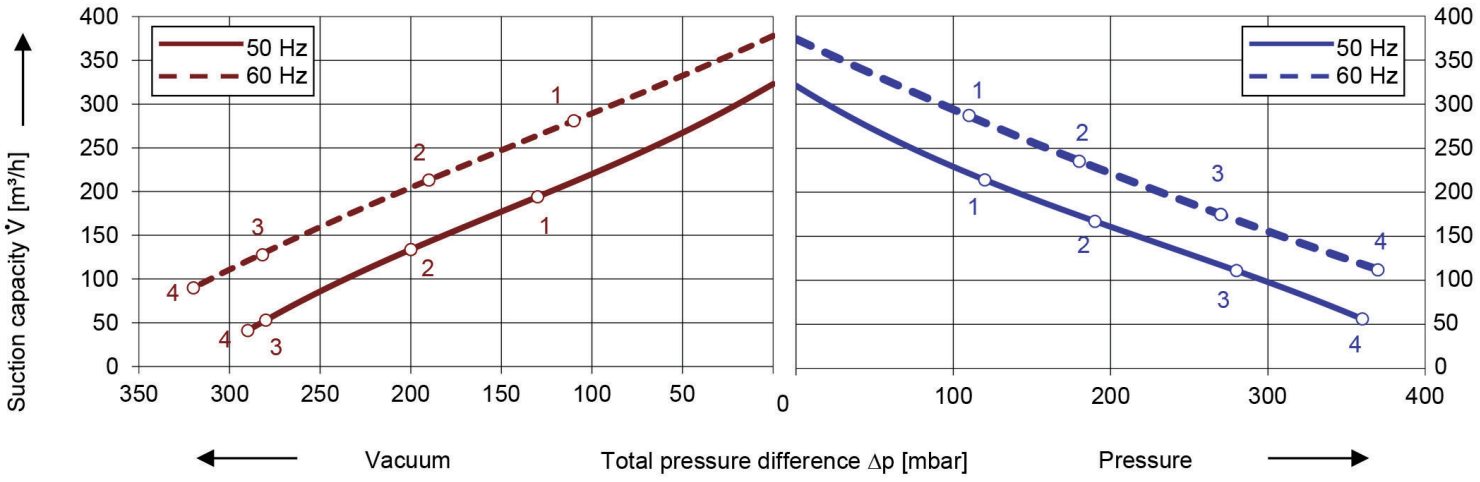
IE3

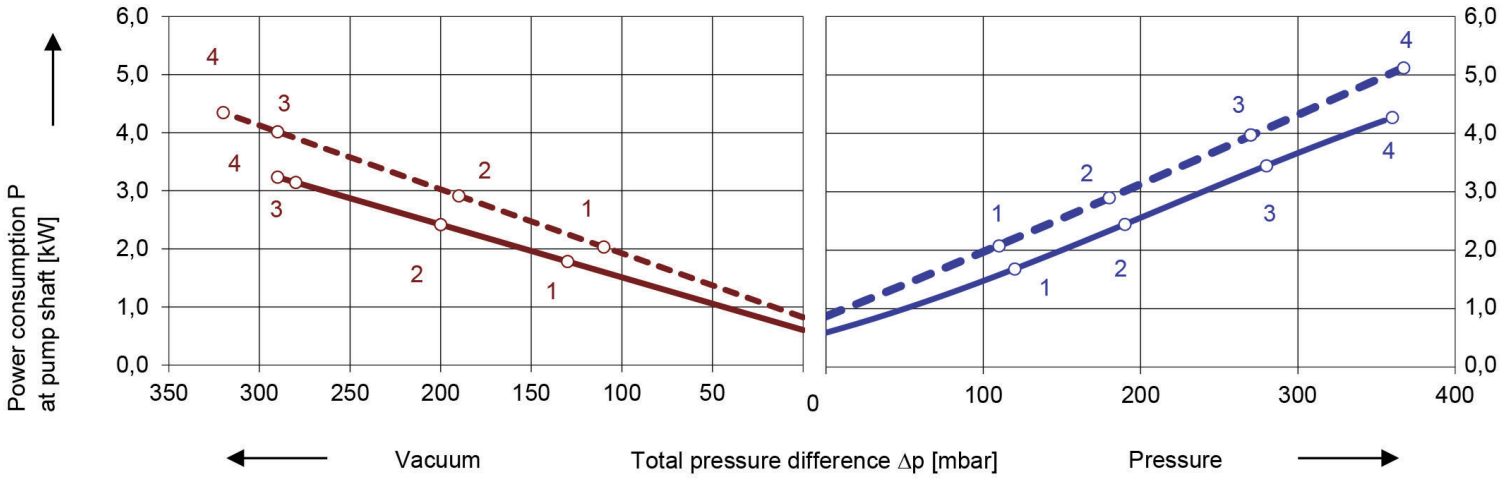


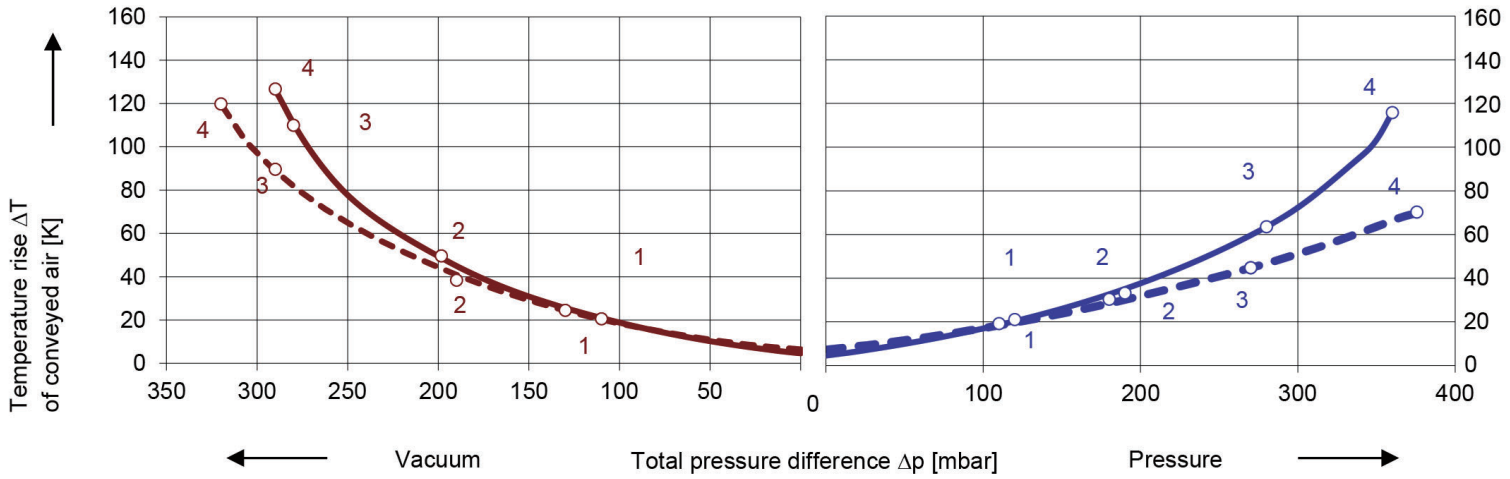
Performance curves

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 710

No.	Fre-quency	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	6.0△/3.45Y	1,75	-130	120	69	IE3	44	**DHB 710B 1D6**
	60	265-290△/460-520Y	5.9△/3.4Y	2,0	-110	110	72	IE3		
2	50	220-240△/380-420Y	8.6△/5.0Y	2,5	-200	190	69	IE3	49	**DHB 710B 2D2**
	60	265-290△/460-520Y	8.5△/4.9Y	3,0	-190	180	72	IE3		
3	50	220-240△/380-420Y	11.6△/6.7Y	3,45	-280	280	69	IE3	54	**DHB 710B 003**
	60	265-290△/460-520Y	11.2△/6.5Y	4,0	-280	270	72	IE3		
4	50	220-240△/380-420Y	14.9△/8.6Y	4,6	-290	350	69	IE3	63	**DHB 710B 004**
	60	265-290△/460-520Y	14.5△/8.4Y	5,3	-330	360	72	IE3		
4	50	380-420△/660-725Y	8.6△/5.0Y	4,6	-290	350	69	IE3	63	**DHB 710C 004**
	60	460-520△/790-870Y	8.4△/4.8Y	5,3	-330	360	72	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

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