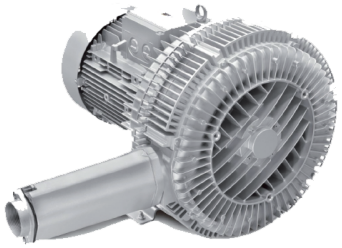
DEREIKE

Data sheet DHB 820

Side channel blower with IE3-motors

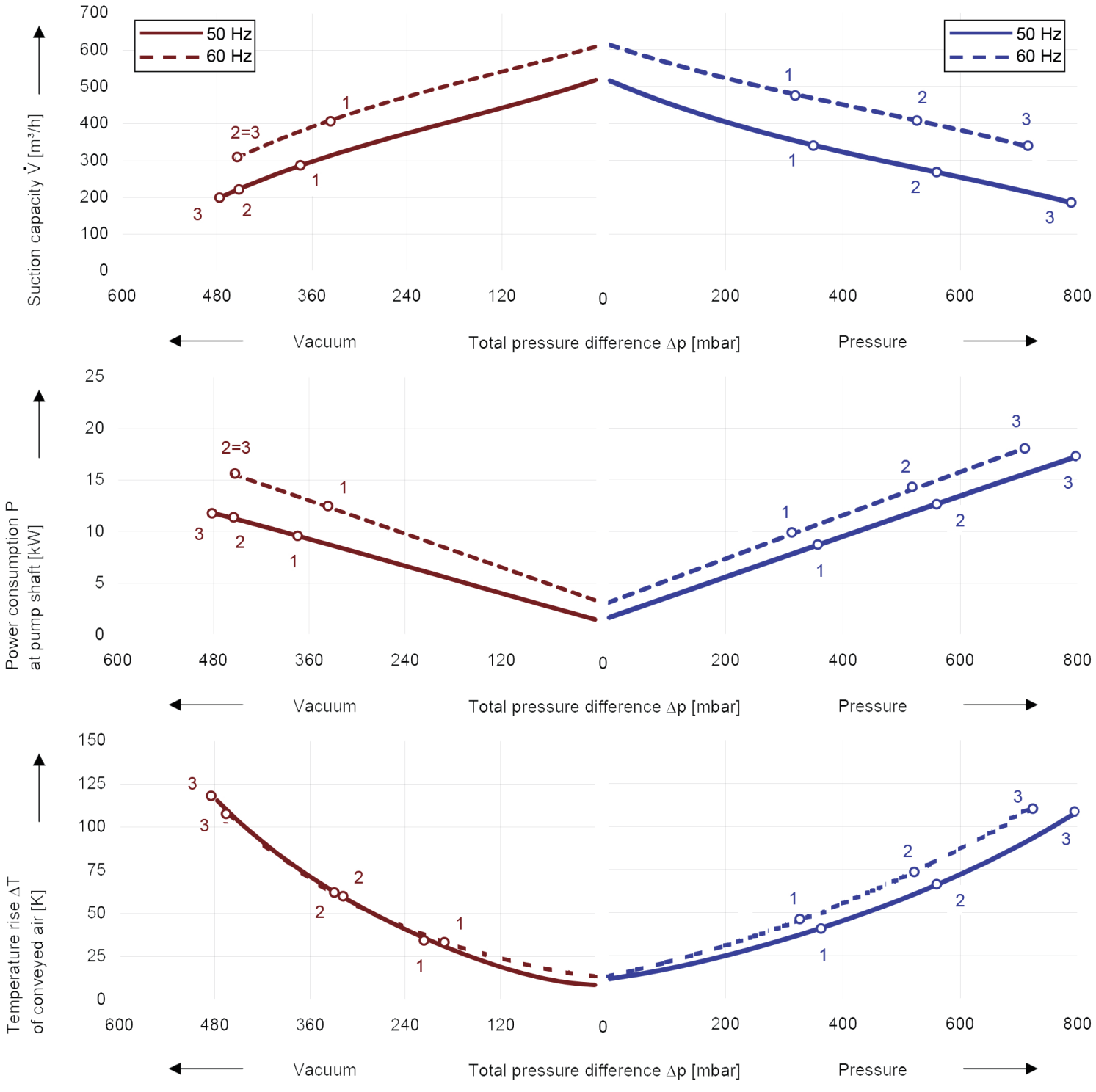
IE3



Performance curves

Vacuum operation

Compressor operation



The performance curves are based on air at a temperature of 15 ℃ 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 ℃. For other conditions please get in touch wit h 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 820

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	380-420△/660-725Y	15.5△/8.9Y	8,6	-380	360	74	IE3	103	**DHB 820C 7D5**
	60	460-520△/790-870Y	15.3△/8.8Y	9,9	-330	320	78	IE3		
2	50	380-420△/660-725Y	23.3△/13.4Y	12,6	-460	570	74	IE3	135	**DHB 820C 011**
	60	460-520△/790-870Y	23.0△/13.2Y	14,5	-460	540	78	IE3		
3	50	380-420△/660-725Y	31.7△/18.3Y	17,3	-480	800	74	IE3	146	**DHB 820C 015**
	60	460-520△/790-870Y	31.4△/18.1Y	19,9	-460	720	78	IE3		
IE3	**3~ 50/60 Hz, IP55, Insulation material class F**									
1	50	220-240△/380-420Y	26.8△/15.5Y	8,6	-380	360	74	IE3	103	**DHB 820B 7D5**
	60	265-290△/460-520Y	26.5△/15.3Y	9,9	-330	320	78	IE3		
2	50	220-240△/380-420Y	40.4△/23.3Y	12,6	-460	570	74	IE3	135	**DHB 820B 011**
	60	265-290△/460-520Y	39.8△/23.0Y	14,5	-460	540	78	IE3		
3	50	220-240△/380-420Y	54.9△/31.7Y	17,3	-480	800	74	IE3	146	**DHB 820B 015**
	60	265-290△/460-520Y	54.4△/31.4Y	19,9	-460	720	78	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.

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Air pumps and systems

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