

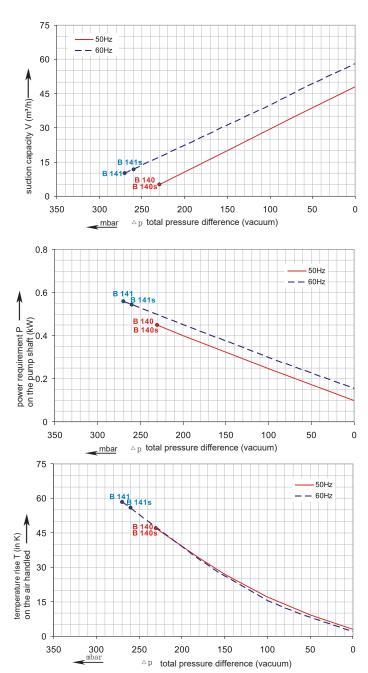
Data sheet 4HB 210

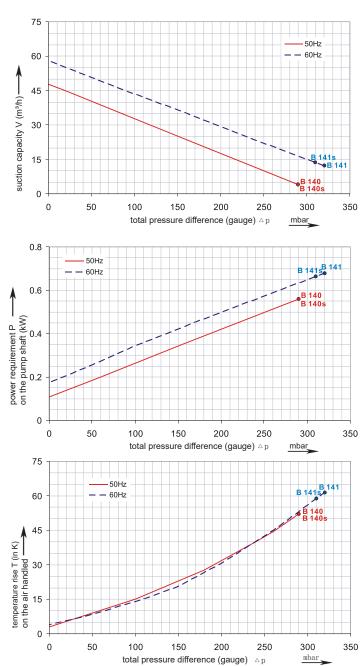
4HB

Performance curve for Vacuum pump



Performance curve for Compressor





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 temperatures up to 25 °C.

For other conditions please confer with us.

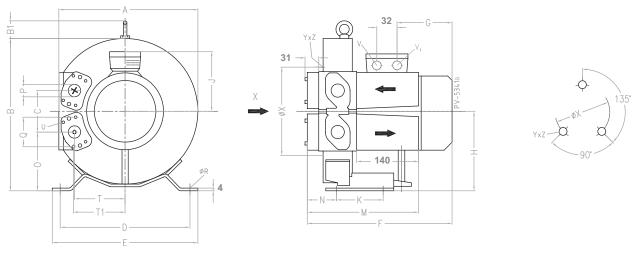
Each 4HB type can be applied both as vacuum pump and compressor in continuous operation over the total stated performance curve range. The motors are available as standard for the input voltage range of 50 and 60 Hz and for protection category IP 55 as well as approbated for UL and CSA.





Data sheet 4HB 210

Select	ion and ordering	data									
Type 4H	B 210										
Curve No.	Order No.	Fre- quency	Rated power	Input voltage V		Input current A		Permissible total differential pressure ²)		Sound pressure level ³)	Weight ca.
		Hz	kW					Vacuum mbar	Compressor mbar	dB(A)	kg
3~ 50/6	0 Hz IP55 isulation	materia	l class F 1)								-
B 140 B 141	4HB 210-055T 4HB 210-055T	50 60	0.55 0.63	200D 240D 220D 275D	345Y415Y 380Y480Y	2.8D 3.0D	1.6Y 1.7Y	-230 -270	290 320	57 62	16 16
1~ 50/60) Hz IP55 with attac	hed con	denser for cor	ntinuous operati	on						
B 140s B 141s	4HB 210-055S 4HB 210-055S	50 60	0.55 0.63	115 115	230 230	13.0 14.2	3.1 7.1	-230 -260	290 310	57 62	18 18



в B1 С D Е F G н J κ М Ν 0 Ρ Q ØR Т T1 U ۷ øх YxΖ Тур Α **4HB 210-055T** 294 319 39 87 260 298 293 129 167 111 105 252 65 124 1¹/₄" 64 14 105 107 M6*17 M25x1,5 153 M6*15

All 4HB 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.

1) For standard UL for ELECTRIC MOTOR UL 1004-1.

2) Relief-valve are available for limiting differential pressure.

3) 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 maxium allowed pressure will be used for the continuousoperating 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 %.