



2HB 510

Selection and ordering data

Type 2HB 510

Curve No.	Type	Frequency Hz	Rated power kW	Input voltage V		Input current A		Permissible total differential pressure ²⁾		Sound pressure level ³⁾ dB(A)	Weight ca. kg
				200D ... 240D	345Y...415Y	4.0D	2.3Y	-110	100		
A 230	2HB 510-085T	50	0.85	200D ... 240D	345Y...415Y	4.0D	2.3Y	-110	100	64	20
A 231	2HB 510-085T	60	0.95	220D ... 275D	380Y...480Y	4.2D	2.4Y	-80	70	70	20
A 232	2HB 510-130T	50	1.3	200D ... 240D	345Y...415Y	6.6D	3.8Y	-170	170	64	22
A 233	2HB 510-130T	60	1.5	220D ... 275D	380Y...480Y	6.9D	4.0Y	-150	140	70	22
A 234	2HB 510-160T	50	1.6	200D ... 240D	345Y...415Y	7.5D	4.3Y	-200	190	64	23
A 235	2HB 510-160T	60	2.05	220D ... 275D	380Y...480Y	7.6D	4.4Y	-220	210	70	23
A 236	2HB 510-220T	50	2.2	200D ... 240D	345Y...415Y	9.7D	5.6Y	-220	270	64	25
A 237	2HB 510-220T	60	2.55	220D ... 275D	380Y...480Y	10.3D	6.0Y	-260	290	70	25

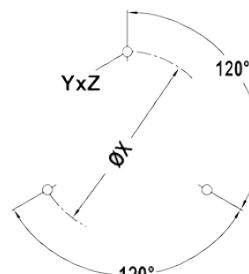
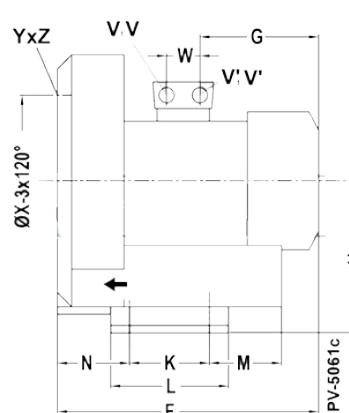
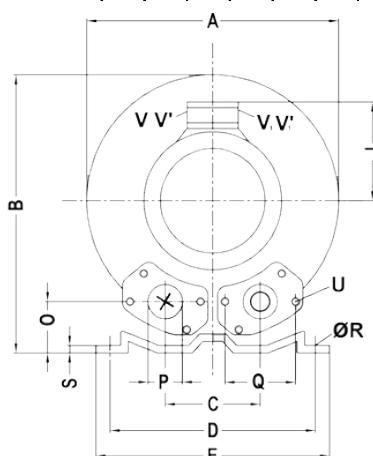
3~ 50/60 Hz IP55 insulation material class F 1)

A 230	2HB 510-085T	50	0.85	200D ... 240D	345Y...415Y	4.0D	2.3Y	-110	100	64	20
A 231	2HB 510-085T	60	0.95	220D ... 275D	380Y...480Y	4.2D	2.4Y	-80	70	70	20
A 232	2HB 510-130T	50	1.3	200D ... 240D	345Y...415Y	6.6D	3.8Y	-170	170	64	22
A 233	2HB 510-130T	60	1.5	220D ... 275D	380Y...480Y	6.9D	4.0Y	-150	140	70	22
A 234	2HB 510-160T	50	1.6	200D ... 240D	345Y...415Y	7.5D	4.3Y	-200	190	64	23
A 235	2HB 510-160T	60	2.05	220D ... 275D	380Y...480Y	7.6D	4.4Y	-220	210	70	23
A 236	2HB 510-220T	50	2.2	200D ... 240D	345Y...415Y	9.7D	5.6Y	-220	270	64	25
A 237	2HB 510-220T	60	2.55	220D ... 275D	380Y...480Y	10.3D	6.0Y	-260	290	70	25

1~ 50/60 Hz IP55 with attached condenser for continuous operation

A 232s	2HB 510-110S	50	1.1	230		7.3		-160	160	64	21	
A 233s	2HB 510-110S	60	1.3	230		8.3		-150	160	70	21	
A 234s	2HB 510-150S	50	1.5	230		9		-190	200	64	24	
A 235s	2HB 510-150S	60	1.75	230		10		-180	180	70	24	
A 236s	2HB 510-150S1	50	1.5	115		22.0	11.0	-190	200	64	26	
A 237s	2HB 510-150S1	60	1.75	115		230	24.0	12.0	-180	180	70	26

Type	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	ØR	U	V	V'	ØX	YxZ	W
2HB 510-085T	334	337	120	260	295	314	160	175	120	115	155	96	87	48	55	83	14	M8x17	M25x1.5	M16x1.5	200	M8x20	29
2HB 510-130T	334	337	120	260	295	314	160	175	120	115	155	96	87	48	55	83	14	M8x17	M25x1.5	M16x1.5	200	M8x20	29
2HB 510-160T	334	337	120	260	295	346	191	175	128	115	155	96	87	48	55	83	14	M8x17	M25x1.5	M16x1.5	200	M8x20	29
2HB 510-220T	334	337	120	260	295	346	191	175	128	115	155	96	87	48	55	83	14	M8x17	M25x1.5	M16x1.5	200	M8x20	29
2HB 510-110S	334	337	120	260	295	314	160	175	120	115	155	96	87	48	55	83	14	M8x17	M25x1.5	M16x1.5	200	M8x20	29
2HB 510-150S	334	337	120	260	295	345	191	175	128	115	155	96	87	48	55	83	14	M8x17	M25x1.5	M16x1.5	200	M8x20	29
2HB 510-150S1	334	337	120	260	295	345	191	175	128	115	155	96	87	48	55	83	14	M8x17	M25x1.5	M16x1.5	200	M8x20	29



All blowers 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.

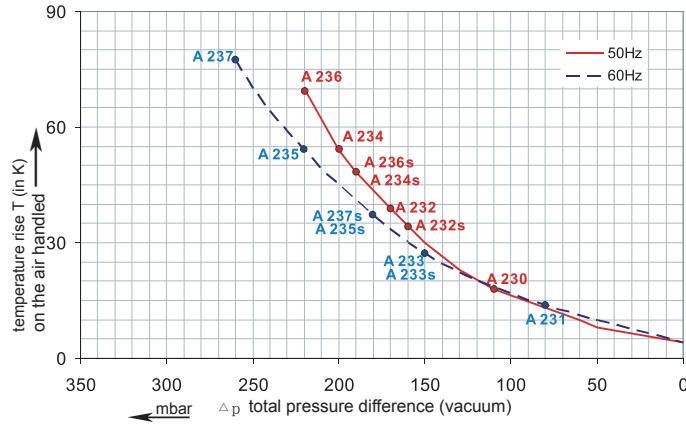
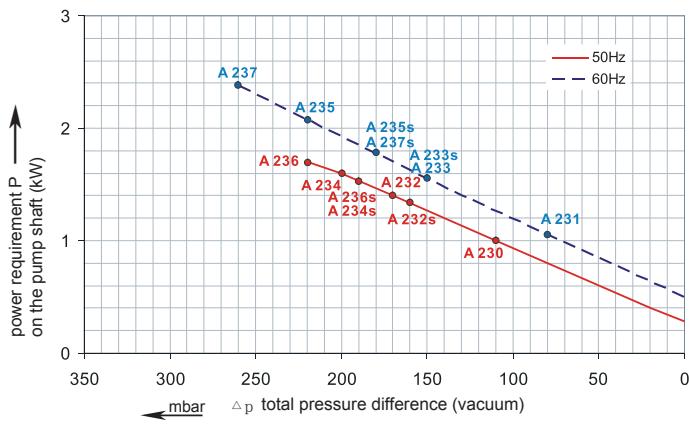
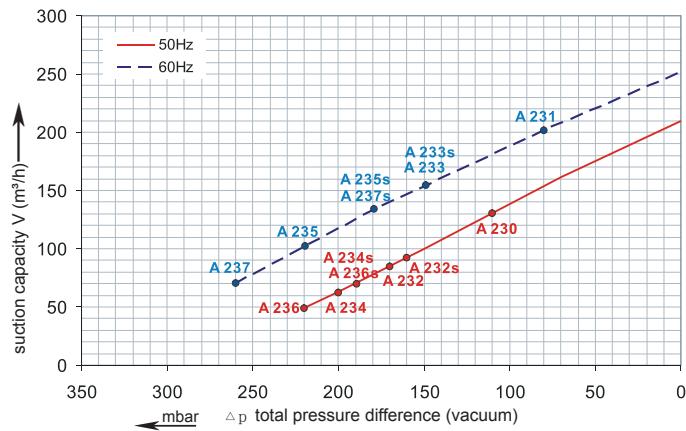
The single phase machines are designed with a +/- 5 % tolerances. If only 90 % of the maximum allowed pressure will be used for the continuous operating then the allowed voltage range add to +/- 10 %.

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 %.

2HB

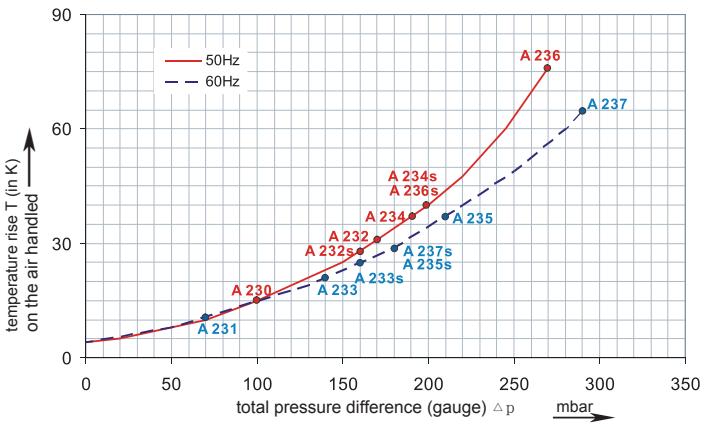
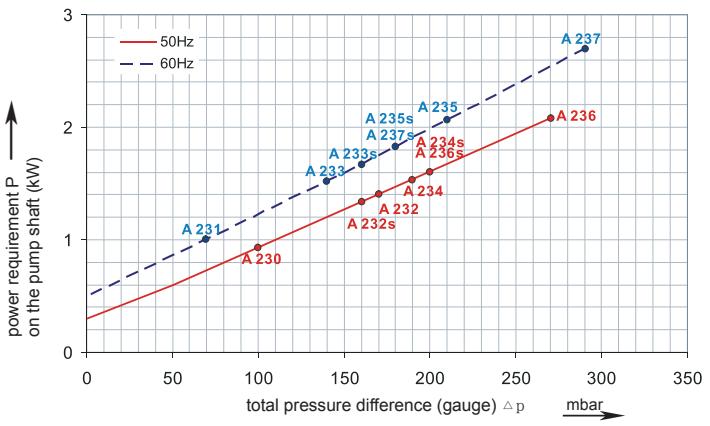
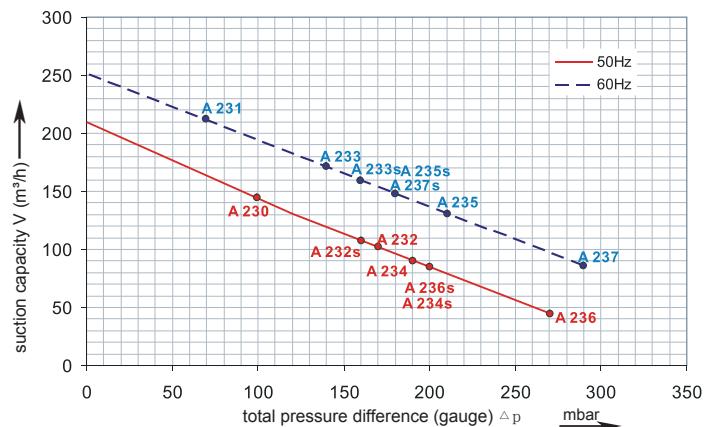
Performance curve for Vacuum pump



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.

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Performance curve for Compressor



Each 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 approved for UL and CSA.