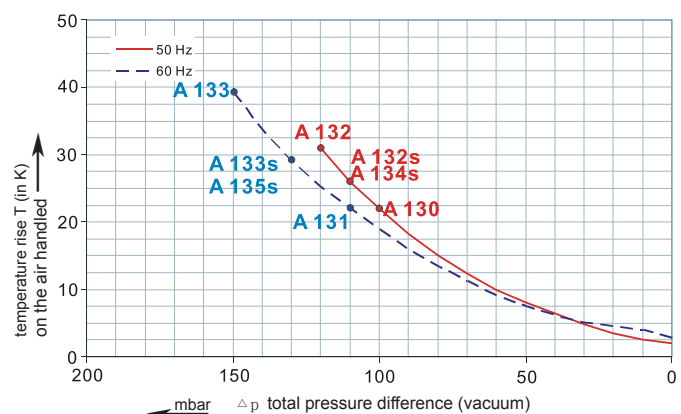
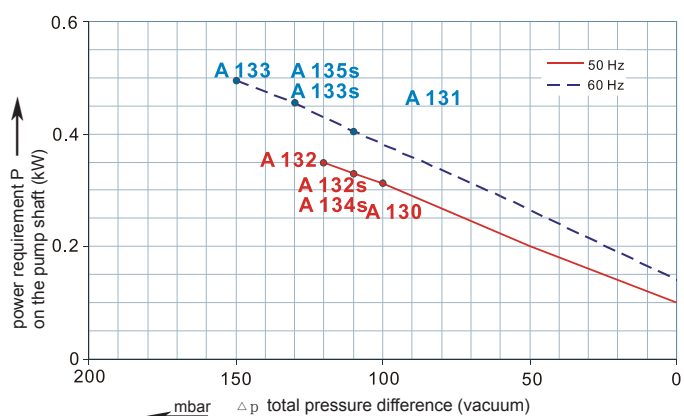
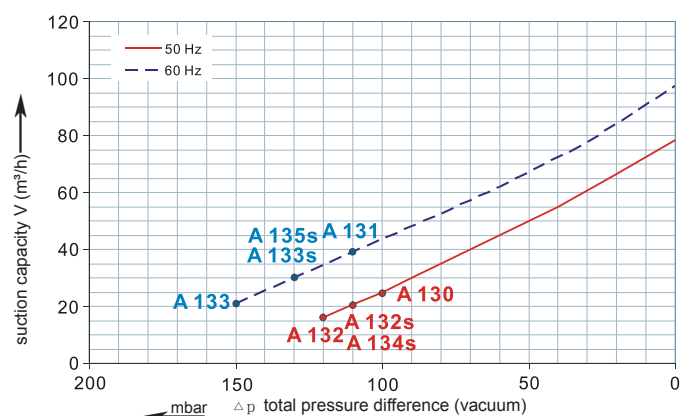




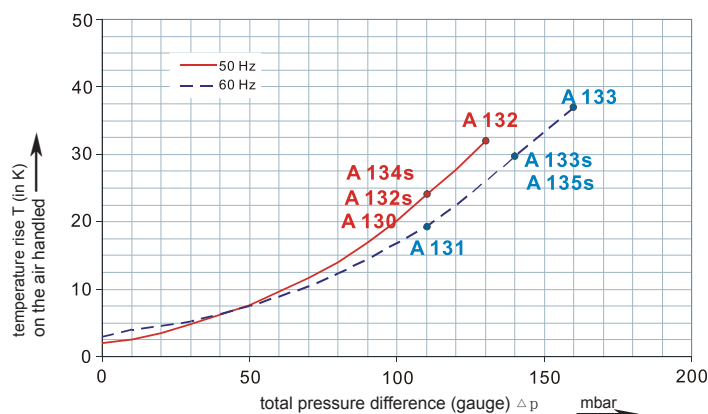
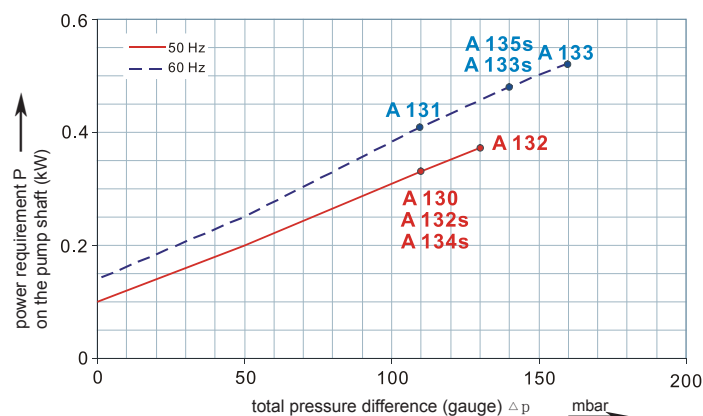
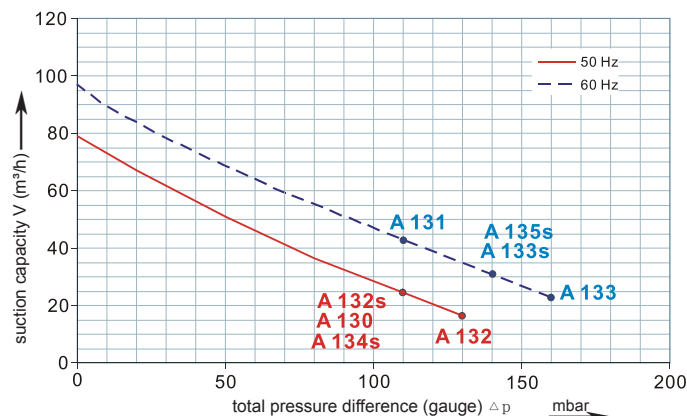
Data sheet 2RB 210

G-2RB

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 G-2RB 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.

Selection and ordering data

Type 2RB210

Curve No.	Order No.	Fre- quency	Rated power	Input voltage	Input current	Permissible total differential pressure ²⁾		Sound pressure level ³⁾	Weight ca.
		Hz	kW	V	A	Vacuum mbar	Compressor mbar	dB(A)	kg

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

A 130	2RB 210-7AH06	50	0.25	200D ... 240D	345Y...415Y	2.1D	1.2Y	-100	110	53	9
A 131	2RB 210-7AH06	50	0.29	220D ... 275D	380Y...480Y	2.0D	1.15Y	-110	120	56	9
A 132	2RB 210-7AH16	50	0.4	200D ... 240D	345Y...415Y	2.6D	1.5Y	-120	130	53	10
A 133	2RB 210-7AH16	60	0.5	220D ... 275D	380Y...480Y	2.6D	1.5Y	-150	160	56	10

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

A 132s	2RB 210-7AA11	50	0.37	230		2.7		-110	110	53	11
A 133s	2RB 210-7AA11	60	0.45	230		3.0		-130	140	56	11
A 134s	2RB 210-7AV15	50	0.37	115	230	5.4	2.7	-110	110	53	11
A 135s	2RB 210-7AV15	60	0.45	115	230	6.0	3.0	-130	140	56	11



Other voltage ranges

2RB210-7A □ □		
50Hz	60Hz	↑ ↑
3~		
185...225 V D/320...390 V Y	200...240 V D/345...415 V Y	H 1
200...240 V D/345...415 V Y	220...275 V D/380...480 V Y	H 6
345...415 V D	380...480 V D	H 1
500 V D	575VD	C 5
Machines according to the ATEX norm 94/4 EG are available for the whole performance range.		
Following types available: Category 3 G, 3/2 G, 3 D and 3/2 D.		
1~		
100 / 200 V	100 / 200 V	V 4
115 / 230 V	115 / 230 V	V 5
230V	230V	A 1

Further voltage range on request; please quote in plain text.

All G-2RB 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.
- 4)Klixon recommended for motor overload protection. Ordering example: 2RB 210- □□□□-Z

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 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 %.

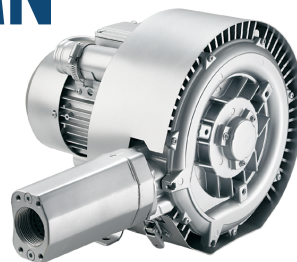
The frequency tolerance is maximum +/- 2 %.

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.

Data sheet 2RB 220

Side channel blower with IE2-motors

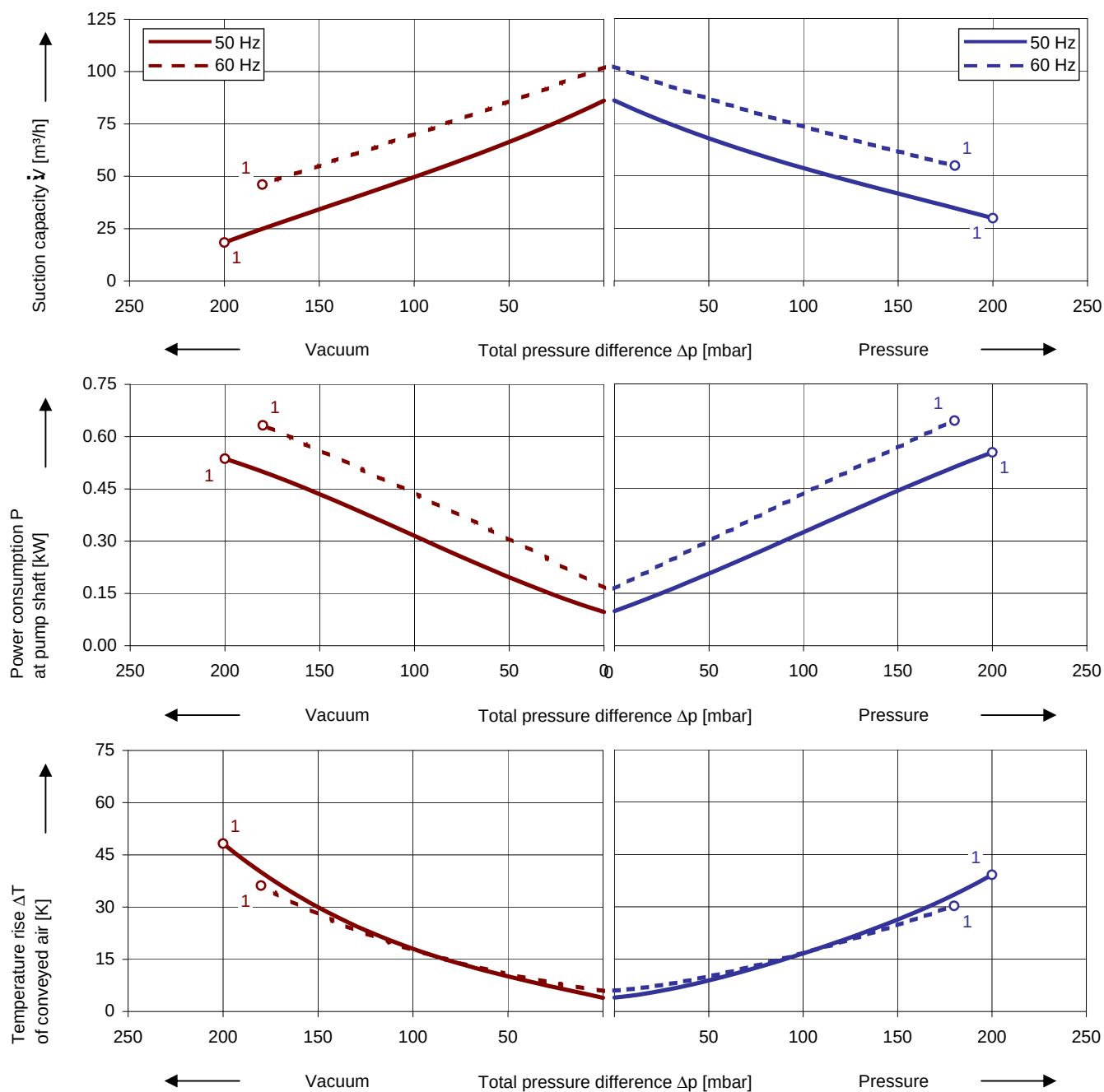
IE2
C  US



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 temperatures up to 25 °C.
For other conditions please confer with us.

Each G-BH 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.

Selection and ordering data									
Type 2RB 220									
No.	Fre- quency	Rated			Max. differential pressure ²⁾		Sound pressure level ³⁾	Weight Approx.	Order No.
		Voltage ¹⁾	Current	Power	Vacuum	Pressure			
	Hz	V	A	kW	mbar		dB(A)	kg	
IE2 3~ 50/60 Hz, IP55, Insulation material class F									
1	50	200 - 260 Δ / 350 - 450 Y	2.45 Δ / 1.42 Y	0.55	-200	200	55	14	2RB 220-7HT26
	60	230 - 290 Δ / 400 - 500 Y	2.53 Δ / 1.46 Y	0.63	-180	180	61		

1) Relief valves available for limiting differential pressure.

2) 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).

All 2RB fulfil the 2006/42/EC(machinery)and 2006/95/EC(low voltage) directives and the EN 60034-1 norm "Rotating electrical machines".

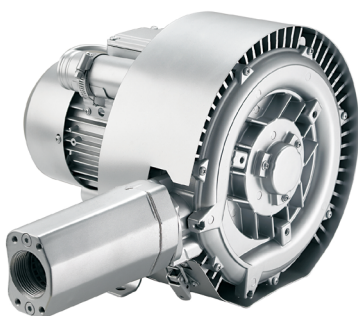
The motors comply with EN 60 034-1 / -2 /-30(IEC 60034) and thermal class F.

The voltage tolerance is +/- 5%.

The frequency tolerance is +/- 2% maximum.

Other voltage ranges						
50 Hz	50 Hz Voltage range	60 Hz Voltage range	86 Hz (5000 rpm)	100 Hz (6000 rpm)	2RB...-7.	☐ ☐
3~IE2/ (EFF I)						
200 V D/345 V Y	180-240 V D /310-415 V Y	200...275 V D/345...480 V Y	-----	400 V D		T 1
500 V Y	450-550 V Y	520...600 V Y	-----	-----		T 3
230 V D/400 V Y	200-260 V D /350-450 V Y	230...290 V D/400...500 V Y	400 V D	-----		T 6
400 V D/690 V Y	350-450 V D /610-725 V Y	400...500 V D/690...725 V Y	-----	-----		T 7

4) Performance can different if standard motors are used.Please refer to corresponding data sheets.



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.

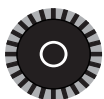


Data sheet 2RB 410

Side channel blower with IE2-motors

IE2

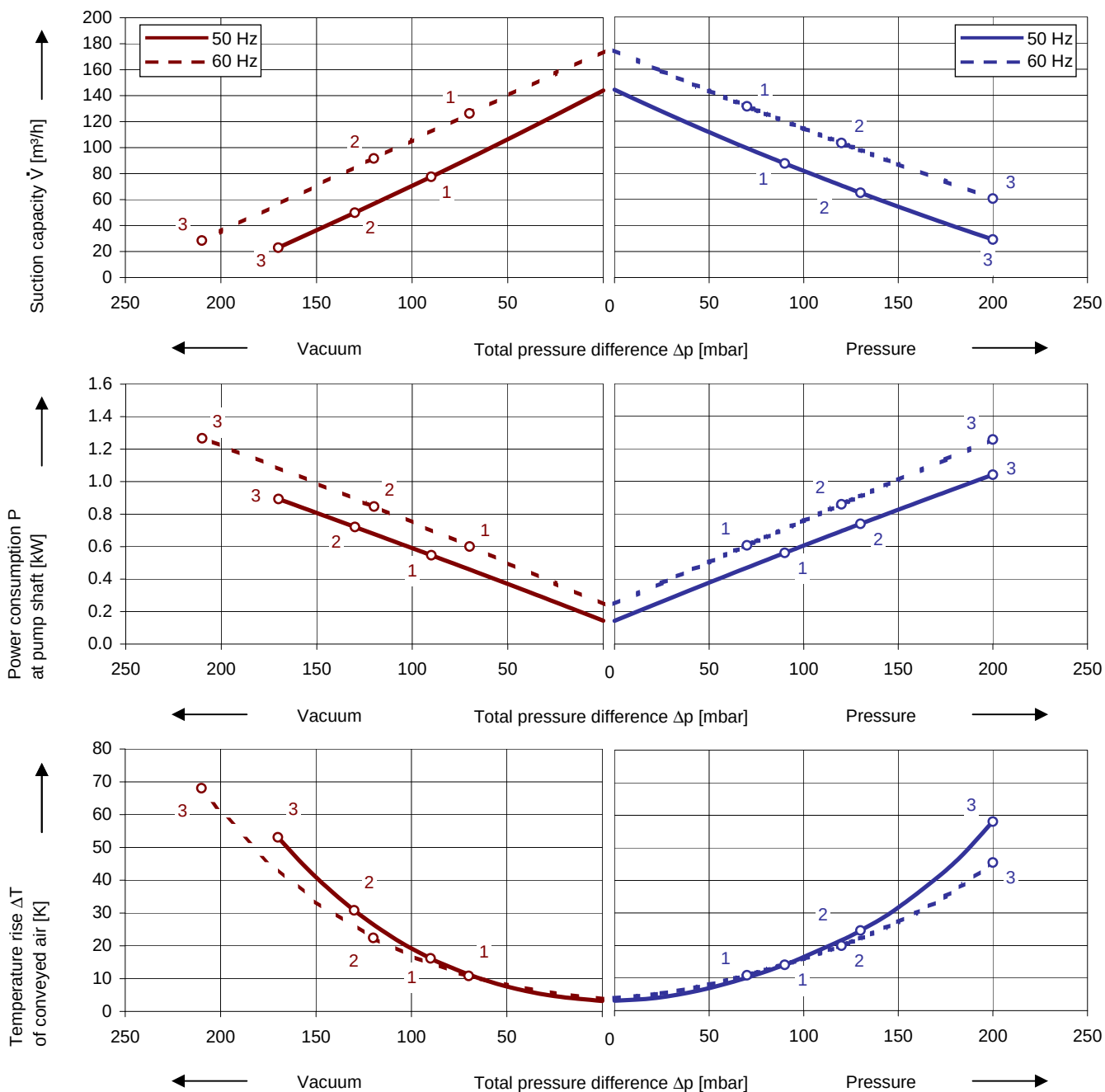
CE
US



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.

Every 2RB 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. The vacuum pumps / compressors are UL and CSA approved.

Selection and ordering data

Type 2RB 410

No.	Fre- quency	Rated			Max. differential pressure ¹⁾		Sound pressure level ²⁾	Weight Approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure			
	Hz	V	A	kW	mbar		dB(A)	kg	
3~ 50/60 Hz, IP55, Insulation material class F, IE2									
1	50	200 - 260 Δ / 350 - 450 Y	2.45 Δ / 1.42 Y	0.55	-90	90	63	13	2RB 410-7AT06
	60	230 - 290 Δ / 400 - 500 Y	2.53 Δ / 1.46 Y	0.63	-70	70	64		
2	50	200 - 260 Δ / 350 - 450 Y	2.95 Δ / 1.7 Y	0.75	-130	130	63	15	2RB 410-7AT16
	60	230 - 290 Δ / 400 - 500 Y	3.0 Δ / 1.75 Y	0.86	-120	120	64		
3	50	200 - 260 Δ / 350 - 450 Y	3.9 Δ / 2.25 Y	1.10	-170	200	63	16	2RB 410-7AT26
	60	230 - 290 Δ / 400 - 500 Y	3.8 Δ / 2.2 Y	1.30	-210	200	64		

1) Relief valves available for limiting differential pressure.

2) 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).

All 2RB fulfil the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034-1 norm "Rotating electrical machines".

The motors comply with EN 60 034-1 / -2 / -30 (IEC 60034) and thermal class F.

The voltage tolerance is +/- 5%.

The frequency tolerance is +/- 2 % maximum.

Other voltages

50 Hz	50 Hz voltage range	60 Hz voltage range	86 Hz (5000 rpm)	100 Hz (6000 rpm)	2RB...-7. □ . □		
3~ IE2							
200 V Δ / 345 V Y	180 - 240 V Δ / 310 - 415 V Y	200 - 275 V Δ / 345 - 480 V Y	----	400 V Δ		T	1
500 V Δ	450 - 550 V Δ	520 - 600 V Δ	----	----		T	5
230 V Δ / 400 V Y	200 - 260 V Δ / 350 - 450 V Y	230 - 290 V Δ / 400 - 500 V Y	400 V Δ	----		T	6
400 V Δ / 690 V Y	350 - 450 V Δ / 610 - 725 V Y	400 - 500 V Δ / 690 - 725 V Y	----	----		T	7
3~IE1							
----	185 - 225 V Δ / 320 - 390 V Y	200 - 240 V Δ / 345 - 415 V Y	----	400 V Δ		H	1
----	200 - 240 V Δ / 345 - 415 V Y	220 - 275 V Δ / 380 - 480 V Y	380 V Δ	----		H	6
----	345 - 415 V Δ	380 - 480 V Δ	----	----		H	7
----	500 V Δ	575 V Δ	----	----		C	5

3) Performance can differ if standard motors are used. Please refer to corresponding data sheets.



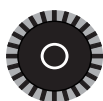
Changes in particular of the quoted performance curve, data and weights may occur without prior notice. The data given do not constitute an obligation from our side to deliver as shown.



Data sheet 2RB 510

Side channel blower with IE2-motors

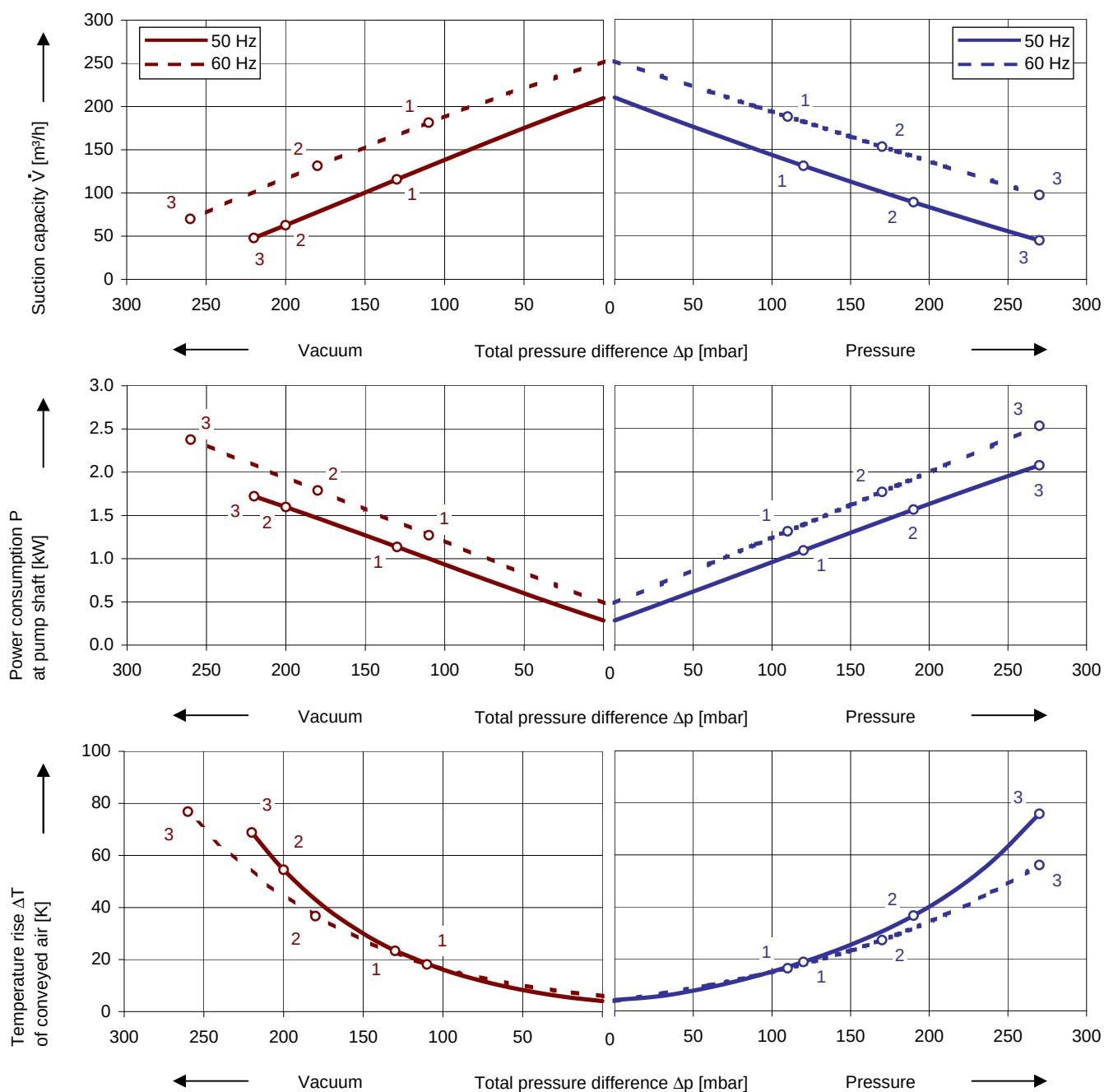
IE2
C_{RU}® US



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.

Every 2RB 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. The vacuum pumps / compressors are UL and CSA approved.

Selection and ordering data

Type 2RB 510

No.	Fre- quency	Rated			Max. differential pressure ¹⁾		Sound pressure level ²⁾	Weight Approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure			
		Hz	V	A	kW	mbar		dB(A)	
3~ 50/60 Hz, IP55, Insulation material class F, E2									
1	50	200 - 260 Δ / 350 - 450 Y	3.9 Δ / 2.25 Y	1.1	-130	120	64	20	2RB 510-7AT16
	60	230 - 290 Δ / 400 - 500 Y	3.8 Δ / 2.2 Y	1.3	-110	110	70		
2	50	200 - 260 Δ / 350 - 450 Y	5.3 Δ / 3.05 Y	1.5	-200	190	64	21	2RB 510-7AT26
	60	230 - 290 Δ / 400 - 500 Y	5.1 Δ / 2.95 Y	1.75	-180	170	70		
3	50	200 - 260 Δ / 350 - 450 Y	7.6 Δ / 4.4 Y	2.2	-220	270	64	25	2RB 510-7AT36
	60	230 - 290 Δ / 400 - 500 Y	7.5 Δ / 4.3 Y	2.55	-260	270	70		

1) Relief valves available for limiting differential pressure.

2) 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).

All 2RB fulfil the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034-1 norm "Rotating electrical machines".

The motors comply with EN 60 034-1 / -2 / -30 (IEC 60034) and thermal class F.

The voltage tolerance is $\pm 5\%$.

The frequency tolerance is $\pm 2\%$ maximum.

Other voltages

50 Hz	50 Hz voltage range	60 Hz voltage range	86 Hz (5000 rpm)	100 Hz (6000 rpm)	2RB...-7. □ . □
3~ IE2					
200 V Δ / 345 V Y	180 - 240 V Δ / 310 - 415 V Y	200 - 275 V Δ / 345 - 480 V Y	----	400 V Δ	T 1
500 V Δ	450 - 550 V Δ	520 - 600 V Δ	----	----	T 5
230 V Δ / 400 V Y	200 - 260 V Δ / 350 - 450 V Y	230 - 290 V Δ / 400 - 500 V Y	400 V Δ	----	T 6
400 V Δ / 690 V Y	350 - 450 V Δ / 610 - 725 V Y	400 - 500 V Δ / 690 - 725 V Y	----	----	T 7
3~ IE1					
----	185 - 225 V Δ / 320 - 390 V Y	200 - 240 V Δ / 345 - 415 V Y	----	400 V Δ	H 1
----	200 - 240 V Δ / 345 - 415 V Y	220 - 275 V Δ / 380 - 480 V Y	380 V Δ	----	H 6
----	345 - 415 V Δ	380 - 480 V Δ	----	----	H 7
----	500 V Δ	575 V Δ	----	----	C 5

3) Performance can differ if standard motors are used. Please refer to corresponding data sheets.



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.

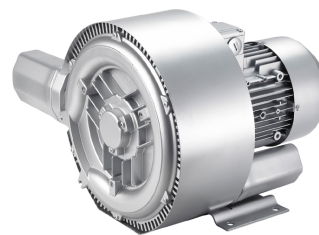


Data sheet 2RB 520

Side channel blower with IE2-motors

IE2

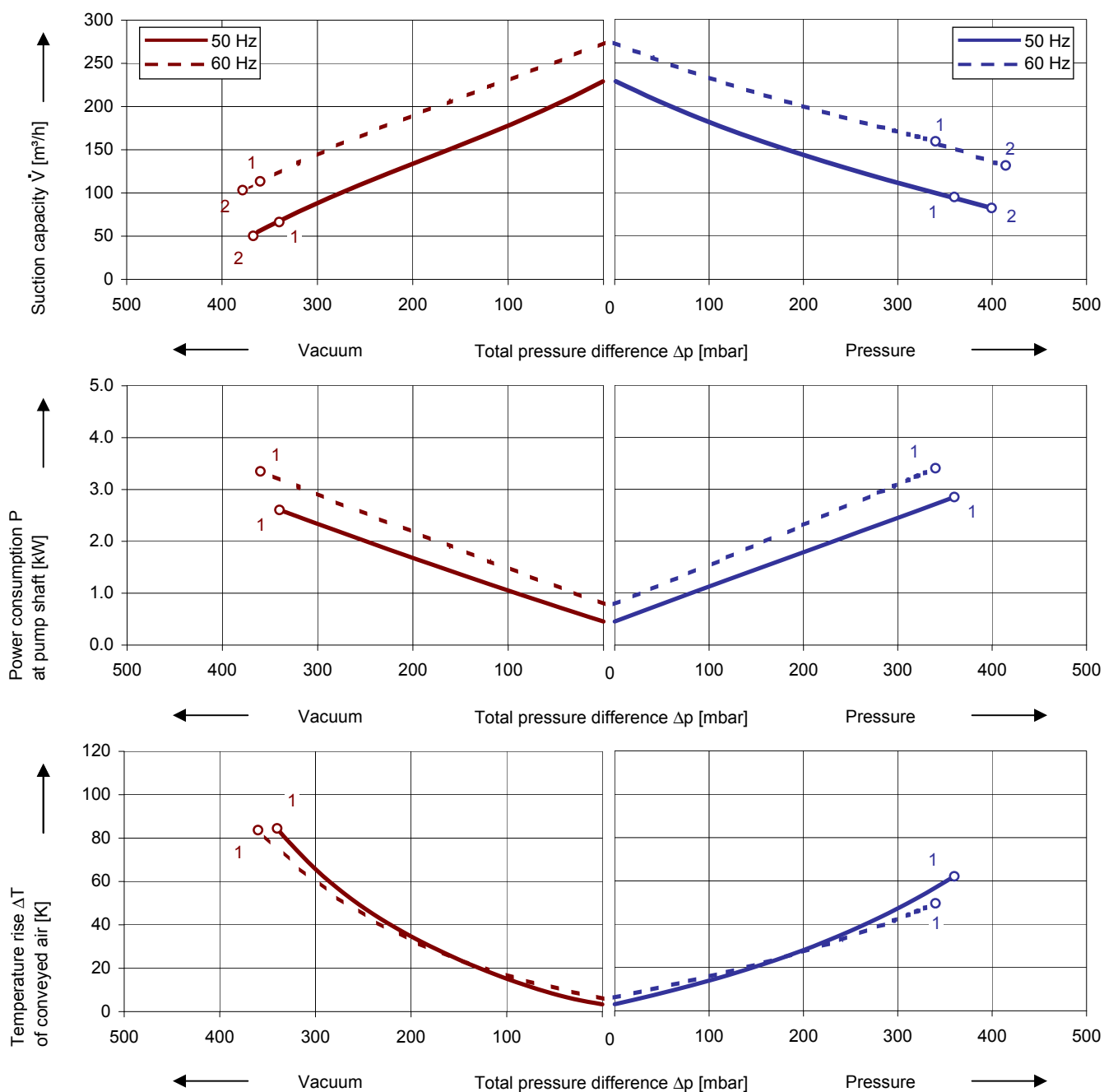
UL US



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 $\pm 10\%$. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

Every 2RB 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. The vacuum pumps / compressors are UL and CSA approved.

Selection and ordering data

Type 2RB 520

No.	Fre- quency	Rated			Max. differential pressure ¹⁾		Sound pressure level ²⁾	Weight Approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure			
	Hz	V	A	kW	mbar		dB(A)	kg	
IE2 3~ 50/60 Hz, IP55, Insulation material class F									
1	50	200 - 260 Δ / 350 - 450 Y	10.0 Δ / 5.8 Y	3.0	-340	360	72	39	2RB 520-7HT46
	60	230 - 290 Δ / 400 - 500 Y	9.7 Δ / 5.6 Y	3.45	-360	340	74		
2	50	350 - 450 Δ / 610 - 725 Y	7.6 Δ / 4.4 Y	4.0	-360	400	72	41	2RB 520-7HT57
	60	400 - 500 Δ / 690 - 725 Y	7.3 Δ / 4.2 Y	4.6	-370	420	74		

1) Relief valves available for limiting differential pressure.

2) 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).

All 2RB fulfil the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034-1 norm "Rotating electrical machines".

The motors comply with EN 60 034-1 / -2 / -30 (IEC 60034) and thermal class F.

The voltage tolerance is $\pm 5\%$.

The frequency tolerance is $\pm 2\%$ maximum.

Other voltages

50 Hz	50 Hz voltage range	60 Hz voltage range	86 Hz (5000 rpm)	100 Hz (6000 rpm)	2RB...-7.		
3~ IE2							
200 V Δ / 345 V Y	180 - 240 V Δ / 310 - 415 V Y	200 - 275 V Δ / 345 - 480 V Y	----	400 V Δ		T	1
500 V Δ	450 - 550 V Δ	520 - 600 V Δ	----	----		T	5
230 V Δ / 400 V Y	200 - 260 V Δ / 350 - 450 V Y	230 - 290 V Δ / 400 - 500 V Y	400 V Δ	----		T	6
400 V Δ / 690 V Y	350 - 450 V Δ / 610 - 725 V Y	400 - 500 V Δ / 690 - 725 V Y	----	----		T	7
3~ IE1							
----	185 - 225 V Δ / 320 - 390 V Y	200 - 240 V Δ / 345 - 415 V Y	----	400 V Δ		H	1
----	200 - 240 V Δ / 345 - 415 V Y	220 - 275 V Δ / 380 - 480 V Y	380 V Δ	----		H	6
----	345 - 415 V Δ	380 - 480 V Δ	----	----		H	7
----	500 V Δ	575 V Δ	----	----		C	5

3) Performance can differ if standard motors are used. Please refer to corresponding data sheets.



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.

Data sheet 2RB 710

Side channel blower with IE2-motors

IE2

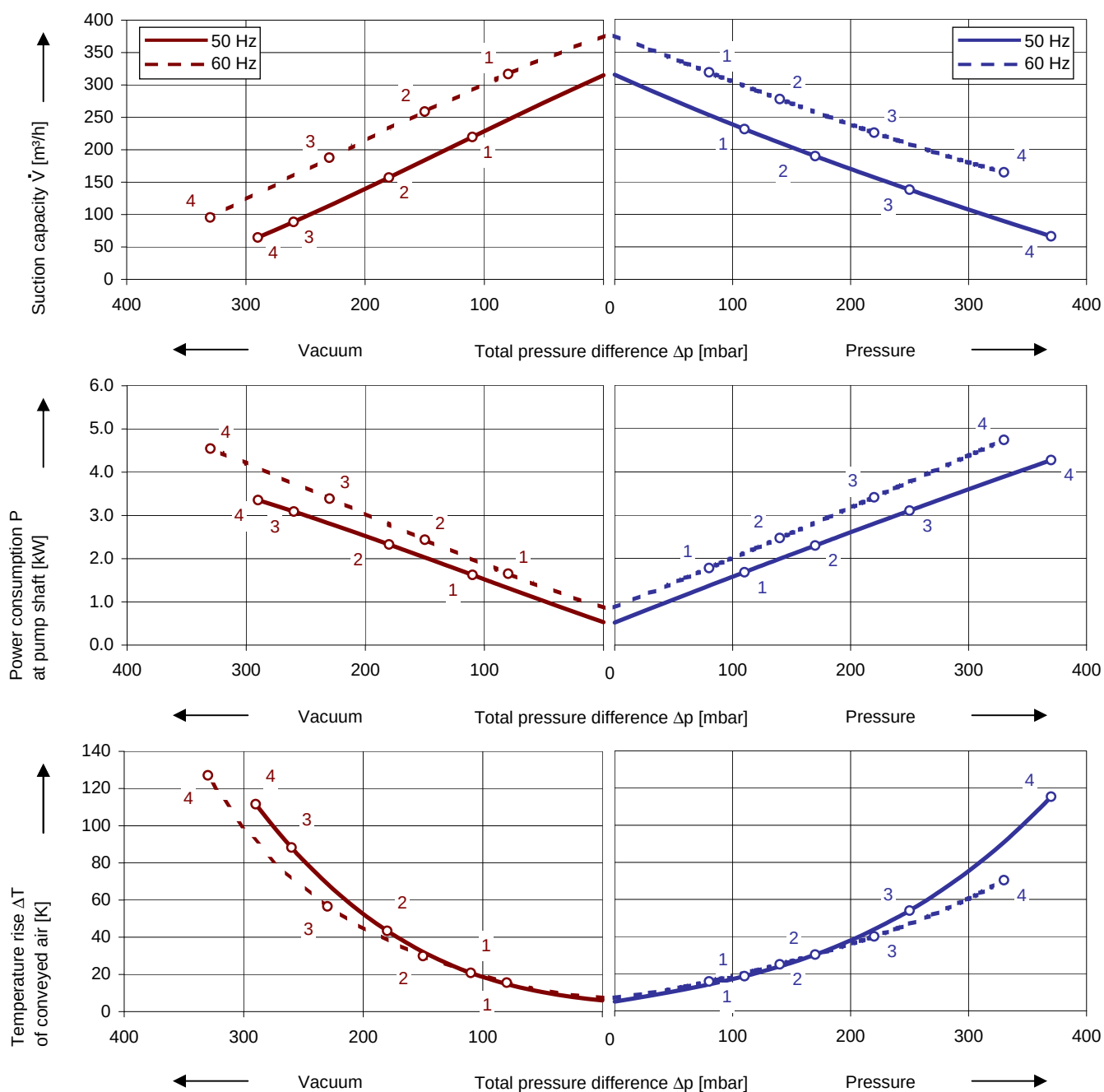
UL US



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.

Every 2RB 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. The vacuum pumps / compressors are UL and CSA approved.

Selection and ordering data

Type 2RB 710

No.	Fre- quency	Rated			Max. differential pressure ¹⁾		Sound pressure level ²⁾	Weight Approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure			
	Hz	V	A	kW	mbar		dB(A)	kg	
3~ 50/60 Hz, IP55, Insulation material class F, IE2									
1	50	200 - 260 Δ / 350 - 450 Y	5.3 Δ / 3.05 Y	1.5	-110	110	69	26	2RB 710-7AT06
	60	230 - 290 Δ / 400 - 500 Y	5.1 Δ / 2.95 Y	1.75	-80	80	72		
2	50	200 - 260 Δ / 350 - 450 Y	7.6 Δ / 4.4 Y	2.2	-180	170	69	29	2RB 710-7AT16
	60	230 - 290 Δ / 400 - 500 Y	7.5 Δ / 4.3 Y	2.55	-150	140	72		
3	50	200 - 260 Δ / 350 - 450 Y	10.0 Δ / 5.8 Y	3	-260	250	69	34	2RB 710-7AT26
	60	230 - 290 Δ / 400 - 500 Y	9.7 Δ / 5.6 Y	3.45	-230	220	72		
4	50	350 - 450 Δ / 610 - 725 Y	7.6 Δ / 4.4 Y	4	-290	370	69	42	2RB 710-7AT37
	60	400 - 500 Δ / 690 - 725 Y	7.3 Δ / 4.2 Y	4.6	-330	330	72		

1) Relief valves available for limiting differential pressure.

2) 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).

All 2RB fulfil the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034-1 norm "Rotating electrical machines".

The motors comply with EN 60 034-1 / -2 / -30 (IEC 60034) and thermal class F.

The voltage tolerance is +/- 5%.

The frequency tolerance is +/- 2 % maximum.

Other voltages

50 Hz	50 Hz voltage range	60 Hz voltage range	86 Hz (5000 rpm)	100 Hz (6000 rpm)	2RB....7. □ . □
3~ IE2					
200 V Δ / 345 V Y	180 - 240 V Δ / 310 - 415 V Y	200 - 275 V Δ / 345 - 480 V Y	----	400 V Δ	T 1
500 V Δ	450 - 550 V Δ	520 - 600 V Δ	----	----	T 5
230 V Δ / 400 V Y	200 - 260 V Δ / 350 - 450 V Y	230 - 290 V Δ / 400 - 500 V Y	400 V Δ	----	T 6
400 V Δ / 690 V Y	350 - 450 V Δ / 610 - 725 V Y	400 - 500 V Δ / 690 - 725 V Y	----	----	T 7
3~IE1					
----	185 - 225 V Δ / 320 - 390 V Y	200 - 240 V Δ / 345 - 415 V Y	----	400 V Δ	H 1
----	200 - 240 V Δ / 345 - 415 V Y	220 - 275 V Δ / 380 - 480 V Y	380 V Δ	----	H 6
----	345 - 415 V Δ	380 - 480 V Δ	----	----	H 7
----	500 V Δ	575 V Δ	----	----	C 5

3) Performance can differ if standard motors are used. Please refer to corresponding data sheets.



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.



Data sheet 2RB 720

Side channel blower with IE2-motors

IE2

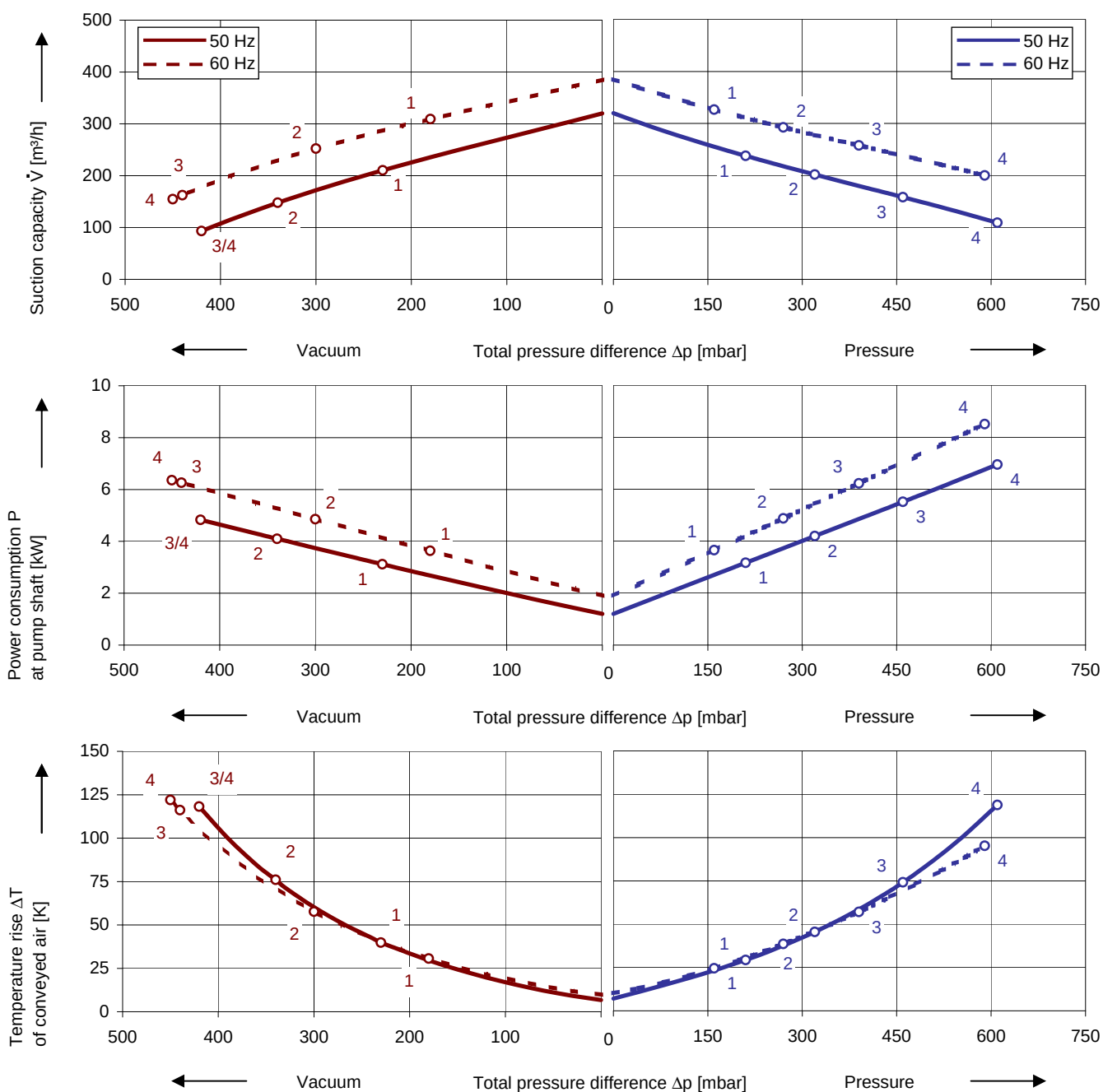
UL US



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.

Every G-BH 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. The vacuum pumps / compressors are UL and CSA approved.

Selection and ordering data

Type 2RB 720

No.	Fre- quency	Rated			Max. differential pressure ¹⁾		Sound pressure level ²⁾	Weight Approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure			
		Hz	V	A	kW	mbar			
3~ 50/60 Hz, IP55, Insulation material class F									
1	50	200 - 260 Δ / 350 - 450 Y	10.0Δ / 5.8 Y	3.0	-230	210	73	47	2RB 720-7HT26
	60	230 - 290 Δ / 400 - 500 Y	9.7 Δ / 5.6 Y	3.45	-180	160	75		
2	50	350 - 450 Δ / 610 - 725 Y	7.6 Δ / 4.4 Y	4.0	-340	320	73	53	2RB 720-7HT37
	60	400 - 500 Δ / 690 - 725 Y	7.3 Δ / 4.7 Y	4.6	-300	270	75		
3	50	350 - 450 Δ / 610 - 725 Y	10.2 Δ / 5.9 Y	5.5	-420	460	73	70	2RB 720-7HT47
	60	400 - 500 Δ / 690 - 725 Y	9.8 Δ / 5.7 Y	6.3	-440	390	75		
4	50	350 - 450 Δ / 610 - 725 Y	13.4 Δ / 7.7 Y	7.5	-420	610	73	77	2RB 720-7HT57
	60	400 - 500 Δ / 690 - 725 Y	13.0 Δ / 7.5 Y	8.6	-450	590	75		

1) Relief valves available for limiting differential pressure.

2) 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).

All 2RB fulfil the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034-1 norm "Rotating electrical machines".

The motors comply with EN 60 034-1 / -2 / -30 (IEC 60034) and thermal class F.

The voltage tolerance is $\pm 5\%$.

The frequency tolerance is $\pm 2\%$ maximum.

Other voltages

50 Hz	50 Hz voltage range	60 Hz voltage range	86 Hz (5000 rpm)	100 Hz (6000 rpm)	2RB...-7-□ □
3~ IE2					
200 V Δ / 345 V Y	180 - 240 V Δ / 310 - 415 V Y	200 - 275 V Δ / 345 - 480 V Y	----	400 V Δ	T 1
500 V Δ	450 - 550 V Δ	520 - 600 V Δ	----	----	T 5
230 V Δ / 400 V Y	200 - 260 V Δ / 350 - 450 V Y	230 - 290 V Δ / 400 - 500 V Y	400 V Δ	----	T 6
400 V Δ / 690 V Y	350 - 450 V Δ / 610 - 725 V Y	400 - 500 V Δ / 690 - 725 V Y	----	----	T 7
3~IE1					
----	185 - 225 V Δ / 320 - 390 V Y	200 - 240 V Δ / 345 - 415 V Y	----	400 V Δ	H 1
----	200 - 240 V Δ / 345 - 415 V Y	220 - 275 V Δ / 380 - 480 V Y	380 V Δ	----	H 6
----	345 - 415 V Δ	380 - 480 V Δ	----	----	H 7
----	500 V Δ	575 V Δ	----	----	C 5

3) Performance can differ if standard motors are used. Please refer to corresponding data sheets.



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.





Data sheet 2RB 740

Side channel blower with IE2-motors

IE2

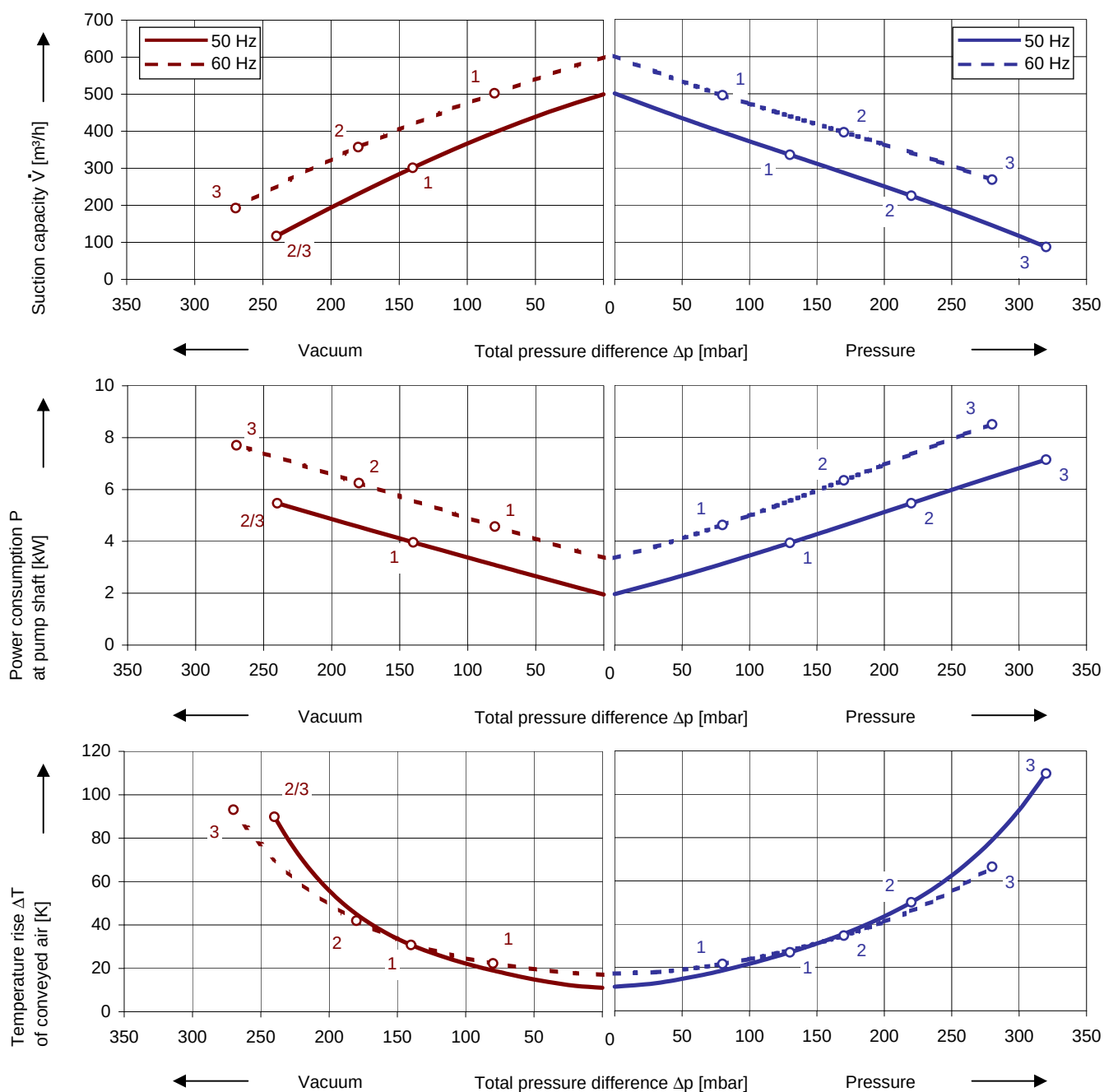
UL **CSA**



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 $\pm 10\%$. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

Every 2RB 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. The vacuum pumps / compressors are UL and CSA approved.

Selection and ordering data

Type 2RB 740

No.	Fre- quency	Rated			Max. differential pressure ¹⁾		Sound pressure level ²⁾	Weight Approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure			
	Hz	V	A	kW	mbar		dB(A)	kg	
3~ 50/60 Hz, IP55, Insulation material class F, IE2									
1	50	350 - 450 Δ / 610 - 725 Y	7.6 Δ / 4.4 Y	4.0	-140	130	74	60	2RB 740-7GT37
	60	400 - 500 Δ / 690 - 725 Y	7.3 Δ / 4.7 Y	4.6	-80	80	78		
2	50	350 - 450 Δ / 610 - 725 Y	10,2 Δ / 5.9 Y	5.5	-240	220	74	73	2RB 740-7GT47
	60	400 - 500 Δ / 690 - 725 Y	9.8 Δ / 5.7 Y	6.3	-180	170	78		
3	50	350 - 450 Δ / 610 - 725 Y	13.4 Δ / 7.7 Y	7.5	-240	320	74	82	2RB 740-7GT57
	60	400 - 500 Δ / 690 - 725 Y	13.0 Δ / 7.5Y	8.6	-270	280	78		

1) Relief valves available for limiting differential pressure.

2) 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).

All 2RB fulfil the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034-1 norm "Rotating electrical machines".

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Other voltages

50 Hz	50 Hz voltage range	60 Hz voltage range	86 Hz (5000 rpm)	100 Hz (6000 rpm)	2RB...-7. □ . □
3~ IE2					
200 V Δ / 345 V Y	180 - 240 V Δ / 310 - 415 V Y	200 - 275 V Δ / 345 - 480 V Y	-----	400 V Δ	T 1
500 V Δ	450 - 550 V Δ	520 - 600 V Δ	-----	-----	T 5
230 V Δ / 400 V Y	200 - 260 V Δ / 350 - 450 V Y	230 - 290 V Δ / 400 - 500 V Y	400 V Δ	-----	T 6
400 V Δ / 690 V Y	350 - 450 V Δ / 610 - 725 V Y	400 - 500 V Δ / 690 - 725 V Y	-----	-----	T 7
3~IE1					
-----	185 - 225 V Δ / 320 - 390 V Y	200 - 240 V Δ / 345 - 415 V Y	-----	400 V Δ	H 1
-----	200 - 240 V Δ / 345 - 415 V Y	220 - 275 V Δ / 380 - 480 V Y	380 V Δ	-----	H 6
-----	345 - 415 V Δ	380 - 480 V Δ	-----	-----	H 7
-----	500 V Δ	575 V Δ	-----	-----	C 5

3) Performance can differ if standard motors are used. Please refer to corresponding data sheets.



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GREENCO®
Your Ultimate Source for Vacuum and Pressure



ABVAOMRAN

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