

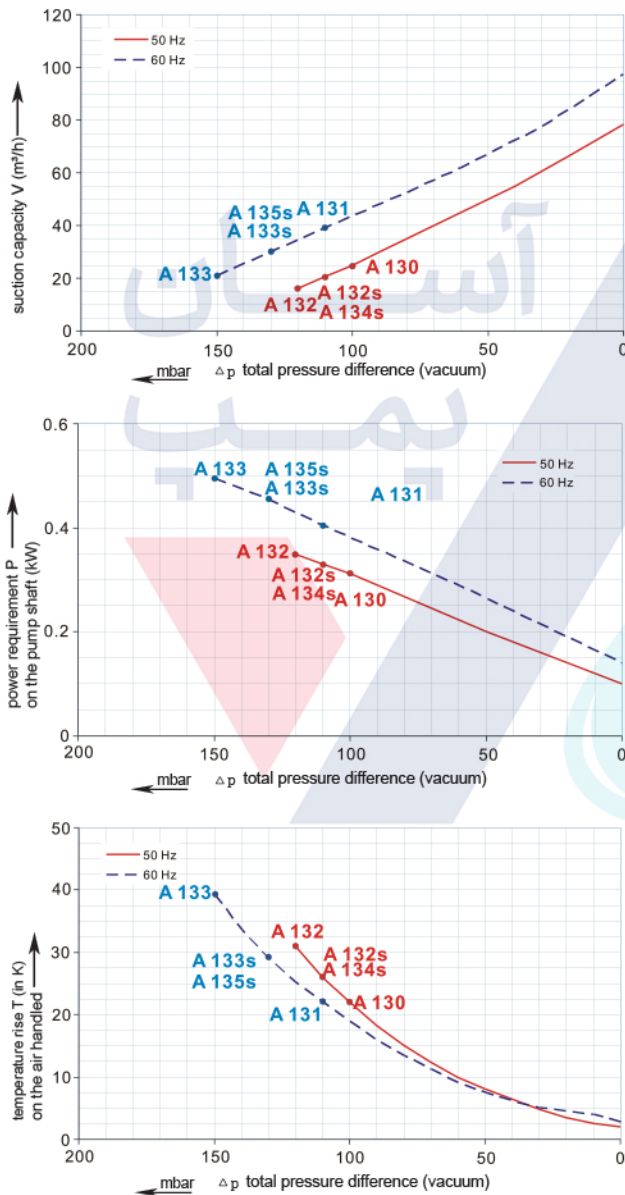
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## Data sheet 2RB 210

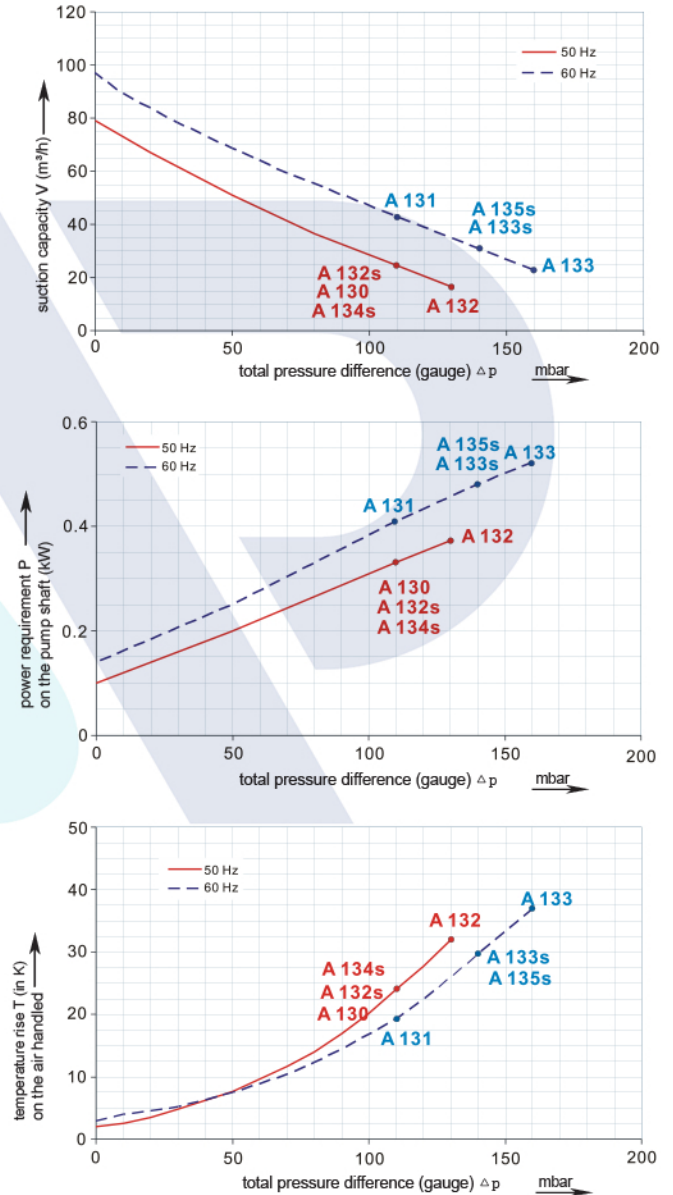
### G-2RB



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 Hz	Rated power kW	Input voltage V	Input current A	Permissible total differential pressure <sup>2)</sup>		Sound pressure level <sup>3)</sup> dB(A)	Weight ca. kg
						Vacuum mbar	Compressor mbar		

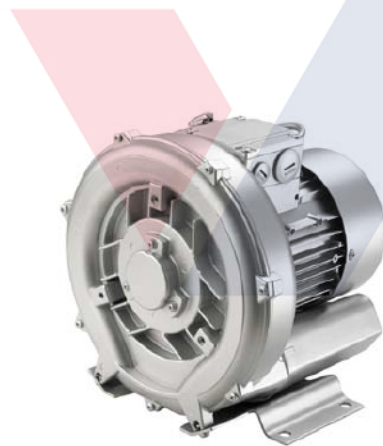
#### 3~ 50/60 Hz IP55 isolation material class F 1)

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

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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	200...275 V D/380...480 V Y	H 6
345...415 V D	380...480 V D	H 1
500 V D	575V D	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.

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 %.

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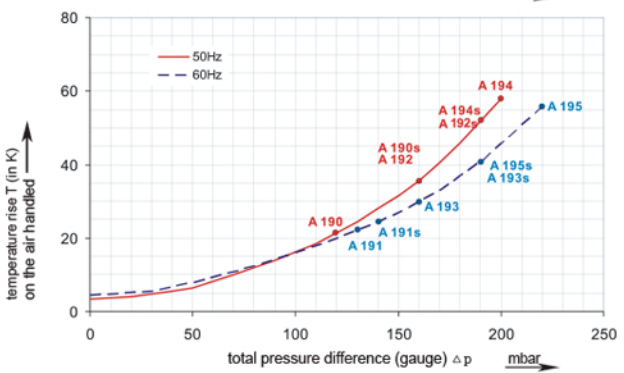
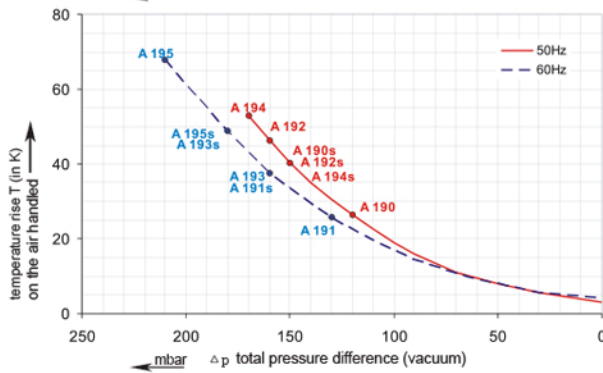
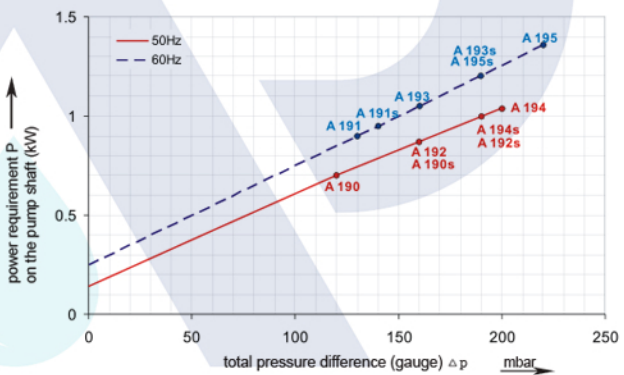
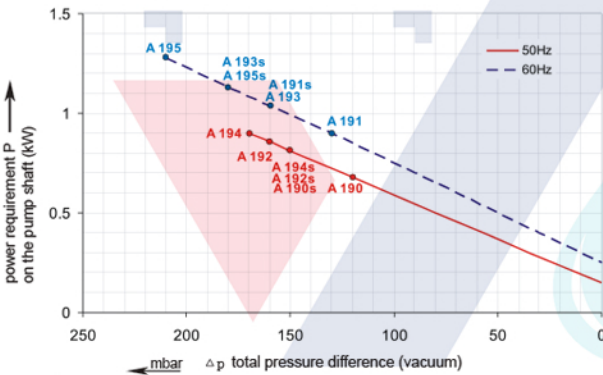
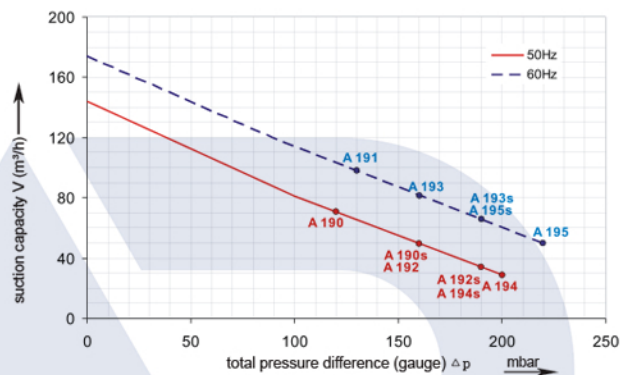
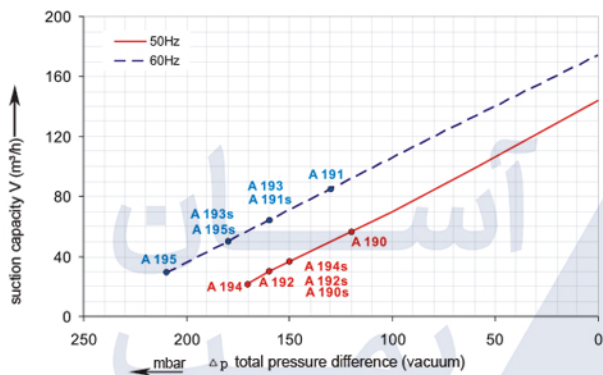
## Data sheet 2RB 410



### 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 2RB 410

Curve No.	Order No.	Fre- quency	Rated power	Input voltage		Input current		Permissible total differential pressure *)		Sound pressure level *)	Weight ca.
				Hz	kW	V	A	Vacuum mbar	Compressor mbar		
<b>3~ 50/60 Hz IP55 isolation material class F 1)</b>											
A 190	2RB 410-7AH06	50	0.7	200D ... 240D	345Y...415Y	3.8D	2.2Y	-120	120	63	13
A 191	2RB 410-7AH06	60	0.83	220D ... 275D	380Y...480Y	3.75D	2.15Y	-130	130	64	13
A 192	2RB 410-7AH16	50	0.85	200D ... 240D	345Y...415Y	4.0D	2.3Y	-160	160	63	16
A 193	2RB 410-7AH16	60	0.95	220D ... 275D	380Y...480Y	3.85D	2.25Y	-160	160	64	16
A 194	2RB 410-7AH26	50	1.3	200D ... 240D	345Y...415Y	5.7D	3.3Y	-170	200	63	17
A 195	2RB 410-7AH26	60	1.5	220D ... 275D	380Y...480Y	6.0D	3.5Y	-210	220	64	17

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

A 190s	2RB 410-7AA11	50	0.8	230		5.2		-150	160	63	15
A 191s	2RB 410-7AA11	60	0.9	230		5.8		-160	140	64	15
A 192s	2RB 410-7AA21	50	1.1	230		7.3		-150	190	63	16
A 193s	2RB 410-7AA21	60	1.3	230		8.3		-180	190	64	16
A 194s	2RB 410-7AV25	50	1.1	115	230	14.6	7.3	-150	190	63	16
A 195s	2RB 410-7AV25	60	1.3	115	230	16.6	8.3	-180	190	64	16

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Other voltage ranges		
2RB410-7A <input type="checkbox"/> <input type="checkbox"/>		
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	200...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.

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 %.

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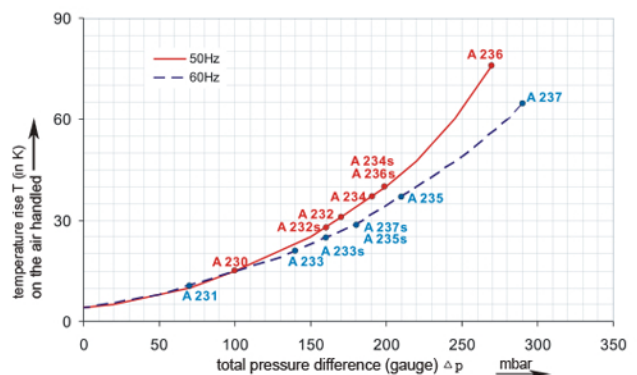
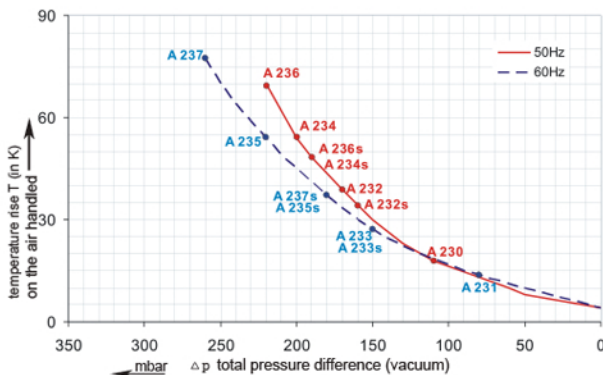
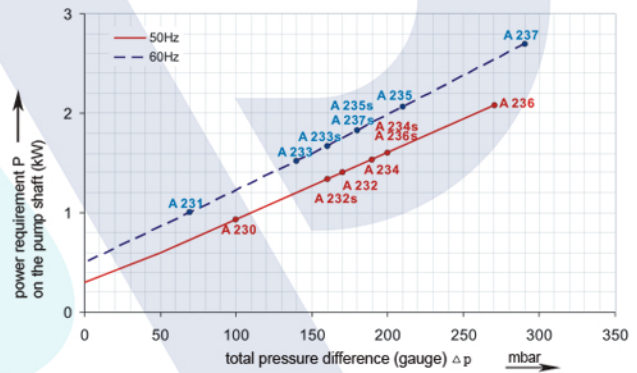
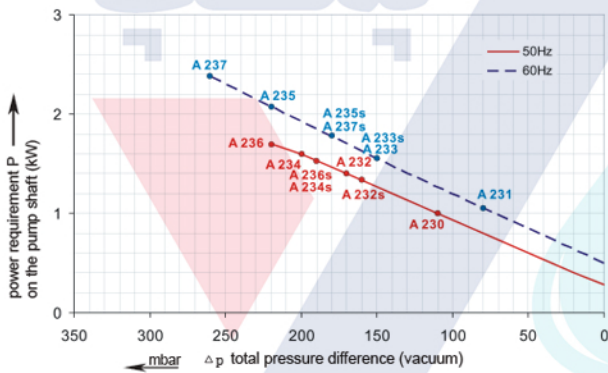
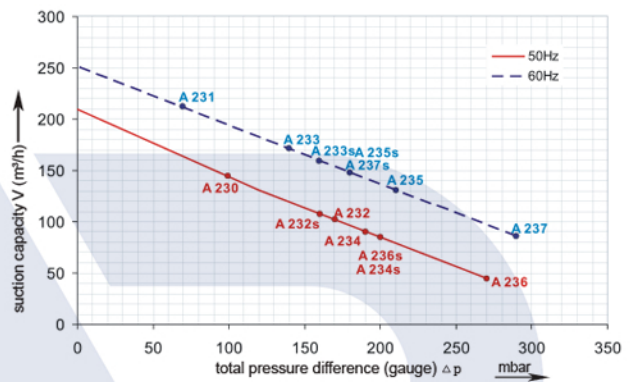
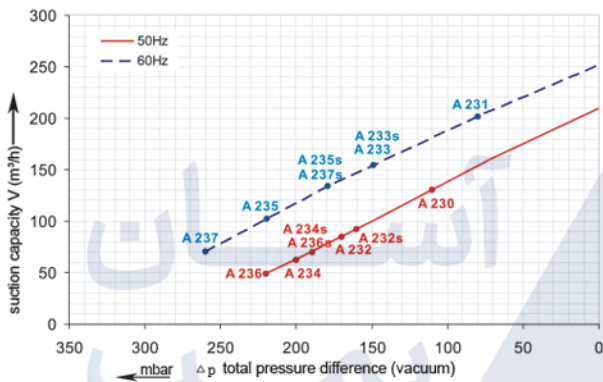
## Data sheet 2RB 510

### 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 2RB510

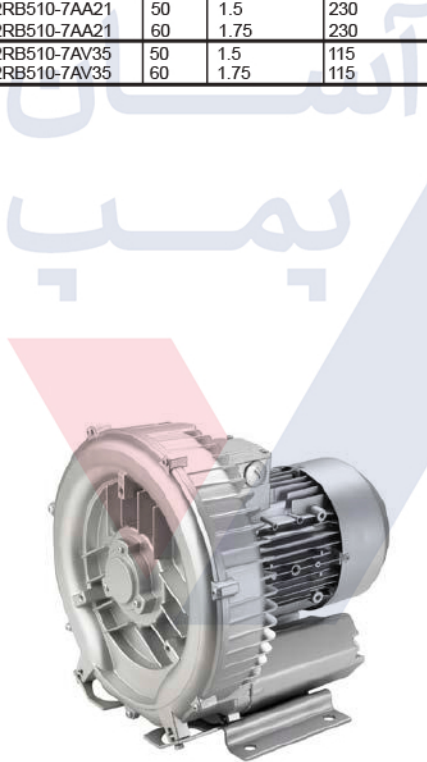
Curve No.	Order No.	Frequency	Rated power	Input voltage		Input current		Permissible total differential pressure <sup>2)</sup>		Sound pressure level <sup>3)</sup>	Weight ca.
				Hz	kW	V	A	Vacuum mbar	Compressor mbar		

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

A 230	2RB510-7AH06	50	0.85	200D ... 240D	345Y...415Y	4.0D	2.3Y	-110	100	64	20
A 231	2RB510-7AH06	60	0.95	220D ... 275D	380Y...480Y	4.2D	2.4Y	-80	70	70	20
A 232	2RB510-7AH16	50	1.3	200D ... 240D	345Y...415Y	6.6D	3.8Y	-170	170	64	22
A 233	2RB510-7AH16	60	1.5	220D ... 275D	380Y...480Y	6.9D	4.0Y	-150	140	70	22
A 234	2RB510-7AH26	50	1.6	200D ... 240D	345Y...415Y	7.5D	4.3Y	-200	190	64	23
A 235	2RB510-7AH26	60	2.05	220D ... 275D	380Y...480Y	7.6D	4.4Y	-220	210	70	23
A 236	2RB510-7AH36	50	2.2	200D ... 240D	345Y...415Y	9.7D	5.6Y	-220	270	64	25
A 237	2RB510-7AH36	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	2RB510-7AA11	50	1.1	230		7.3		-160	160	64	21
A 233s	2RB510-7AA11	60	1.3	230		8.3		-150	160	70	21
A 234s	2RB510-7AA21	50	1.5	230		9		-190	200	64	24
A 235s	2RB510-7AA21	60	1.75	230		10		-180	180	70	24
A 236s	2RB510-7AV35	50	1.5	115	230	22.0	11.0	-190	200	64	26
A 237s	2RB510-7AV35	60	1.75	115	230	24.0	12.0	-180	180	70	26



Other voltage ranges		
2RB510-7A □ □		
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	200...275 V D/380...480 V Y	H 6
345...415 V D	380...480 V D	H 7
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.

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 %.

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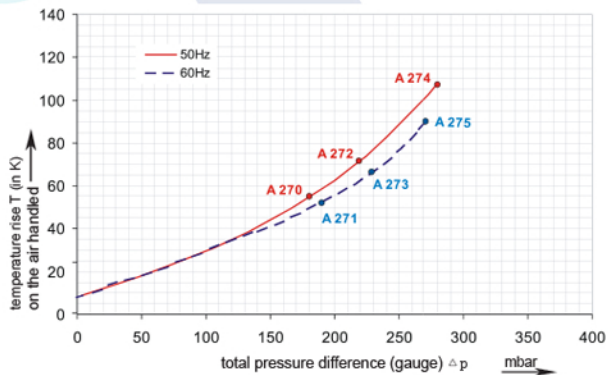
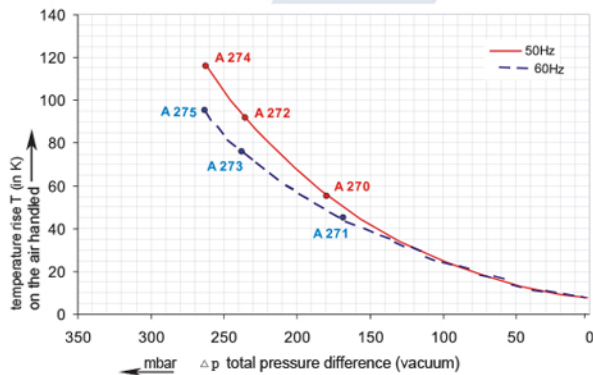
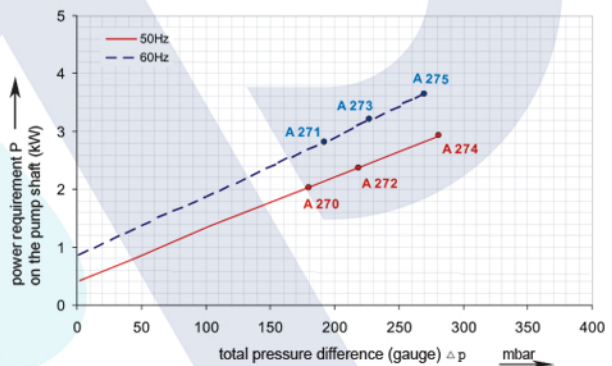
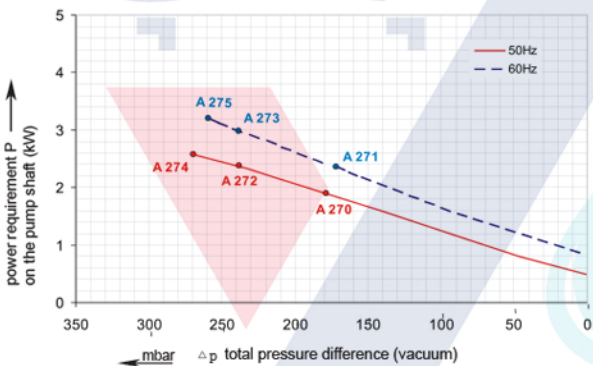
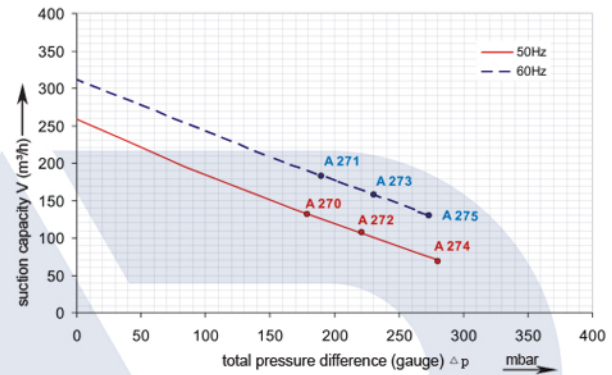
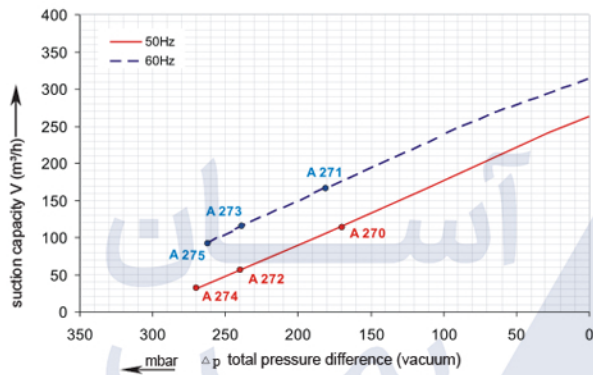
## Data sheet 2RB 610

### 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.

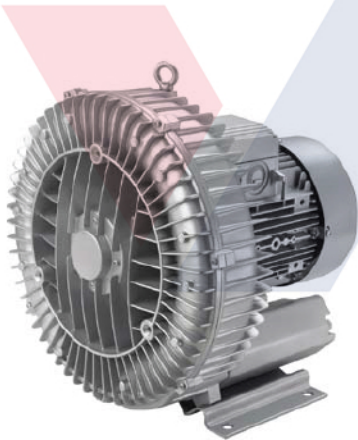
Each G-2RB type can be applied both as vacuum pump and compressor in continuous operation over the total stated performance curve range. The motors are available as standard for the input voltage range of 50 and 60 Hz and for protection category IP 55 as well as approved for UL and CSA.

### Selection and ordering data

#### Type 2RB 610

Curve No.	Order No.	Fre- quency	Rated power	Input voltage		Input current		Permissible total differential pressure <sup>2)</sup>		Sound pressure level <sup>3)</sup>	Weight ca.
				Hz	kW	V	A	Vacuum mbar	Compressor mbar		
<b>3~ 50/60 Hz IP55 insulation material class F )</b>											
A 270	2RB 610-7AH06	50	1.6	200D ... 240D	345Y...415Y	8.5D	4.9Y	-170	180	68	25
A 271	2RB 610-7AH06	60	2.05	220D ... 275D	380Y...480Y	8.8D	5.1Y	-180	190	70	25
A 272	2RB 610-7AH16	50	2.2	200D ... 240D	345Y...415Y	9.7D	5.6Y	-235	220	69	28
A 273	2RB 610-7AH16	60	2.55	220D ... 275D	380Y...480Y	10.3D	6.0Y	-245	230	72	28
A 274	2RB 610-7AH26	50	3.0	200D ... 240D	345Y...415Y	12.5D	7.2Y	-280	280	69	34
A 275	2RB 610-7AH26	60	3.45	220D ... 275D	380Y...480Y	12.6D	7.3Y	-260	270	72	34

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Other voltage ranges		
2RB710-7A <input type="checkbox"/> <input type="checkbox"/>		
50Hz	60Hz	↑ ↑
<b>3 ~</b>		
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	200...275 V D/380...480 V Y	H 6
345...415 V D	380...480 V D	H 7
500 V D	575 V D	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.		
<b>1~</b>		
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.

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 %.

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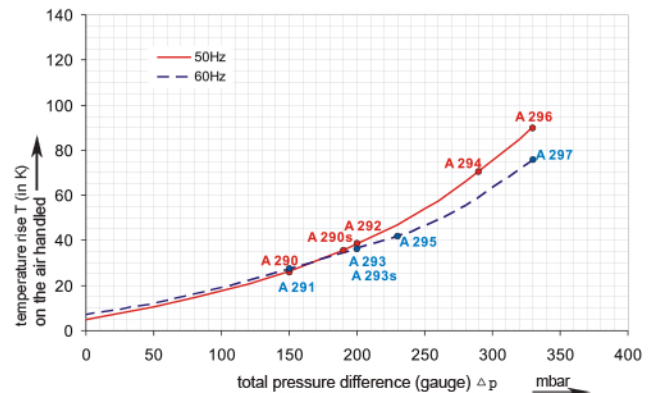
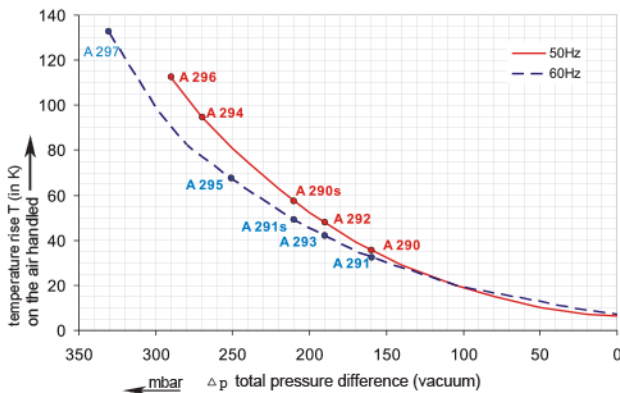
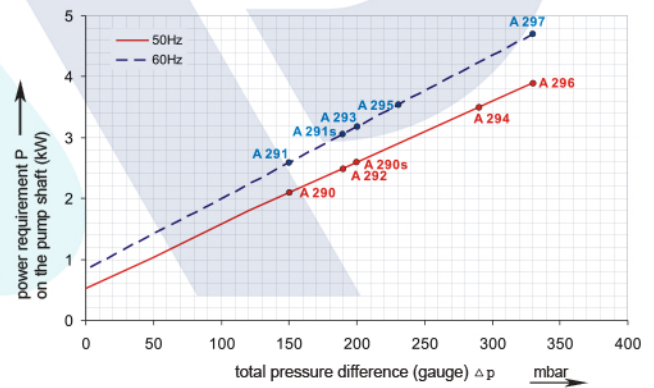
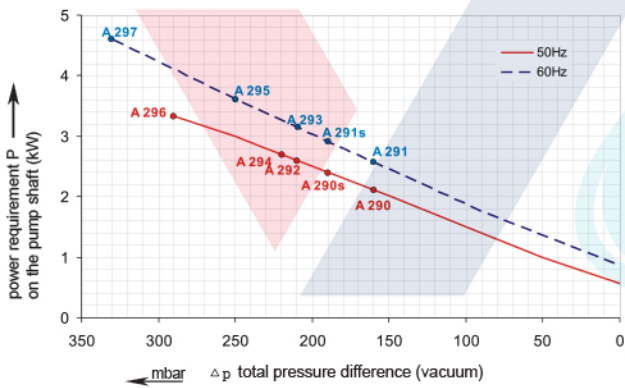
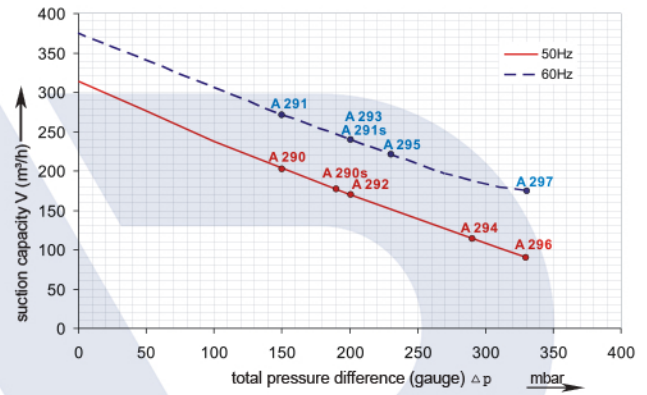
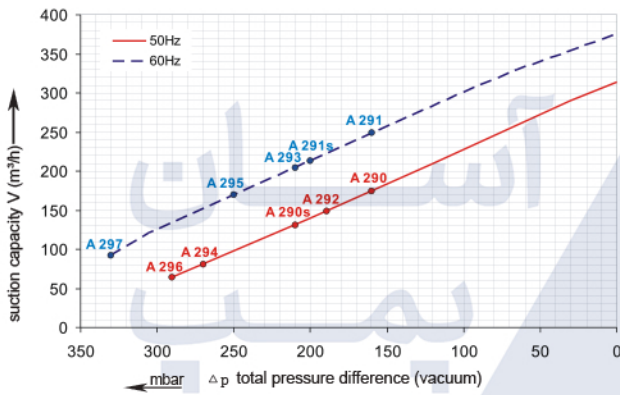
## Data sheet 2RB 710

### G-2RB



Performance curve for Vacuum pump

Performance curve for Compressor

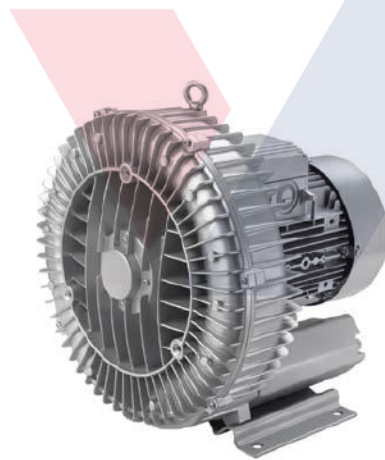


### Selection and ordering data

#### Type 2RB 710

Curve No.	Order No.	Fre- quency Hz	Rated power kW	Input voltage V	Input current A	Permissible total differential pressure *)		Sound pressure level *) dB(A)	Weight ca. kg		
						Vacuum mbar	Compressor mbar				
<b>3~ 50/60 Hz IP55 isolation material class F 1)</b>											
A 290	2RB 710-7AH06	50	1.6	200D ... 240D	345Y...415Y	8.5D	4.9Y	-160	150	69	27
A 291	2RB 710-7AH06	60	2.1	220D ... 275D	380Y...480Y	8.8D	5.1Y	-160	150	72	27
A 292	2RB 710-7AH16	50	2.2	200D ... 240D	345Y...415Y	9.7D	5.6Y	-190	190	69	30
A 293	2RB 710-7AH16	60	2.55	220D ... 275D	380Y...480Y	10.3D	6.0Y	-190	190	72	30
A 294	2RB 710-7AH26	50	3.0	200D ... 240D	345Y...415Y	12.5D	7.2Y	-260	270	69	36
A 295	2RB 710-7AH26	60	3.45	220D ... 275D	380Y...480Y	12.6D	7.3Y	-240	230	72	36
A 296	2RB 710-7AH37	50	4.0	345D ... 415D	600Y...720Y	9.0D	5.2Y	-290	360	69	40
A 297	2RB 710-7AH37	60	4.6	380D ... 480D	660Y...720Y	9.0D	5.2Y	-320	310	72	40
<b>1~ 50/60 Hz IP55 isolation material class F 1)</b>											
A 290s	2RB 710-7AA11	50	2.2	230		12.8		-190	190	72	30
A 291s	2RB 710-7AA11	60	2.55	230		12.8		-190	200	74	30

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Other voltage ranges		
2RB710-7A □ □		
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	200...275 V D/380...480 V Y	H 6
345...415 V D	380...480 V D	H 7
500 V D	575 V D	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~		
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.

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 %.

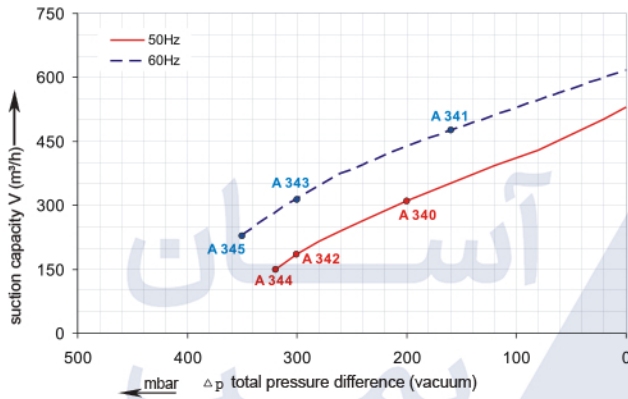
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## Data sheet 2RB 810

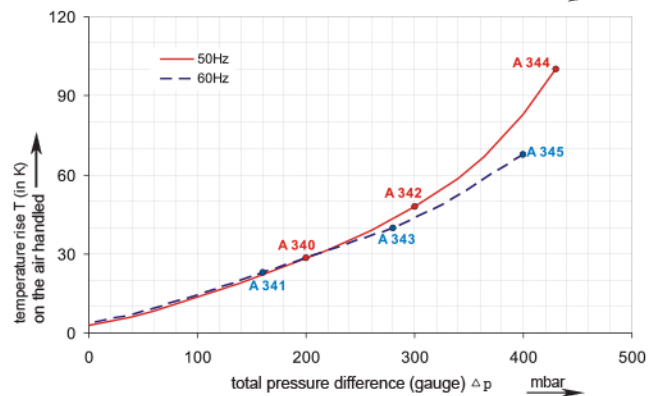
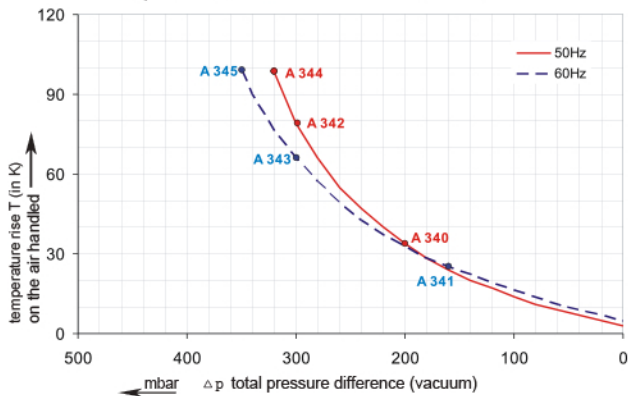
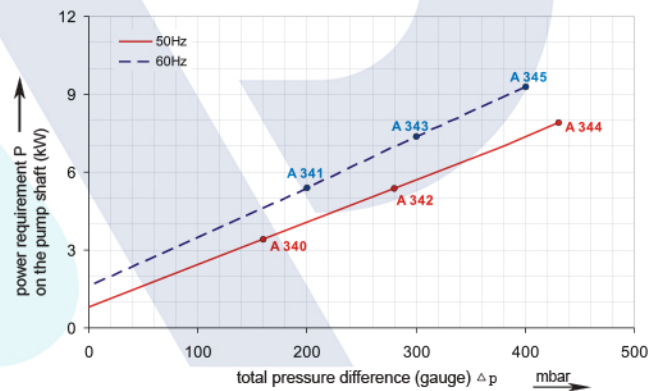
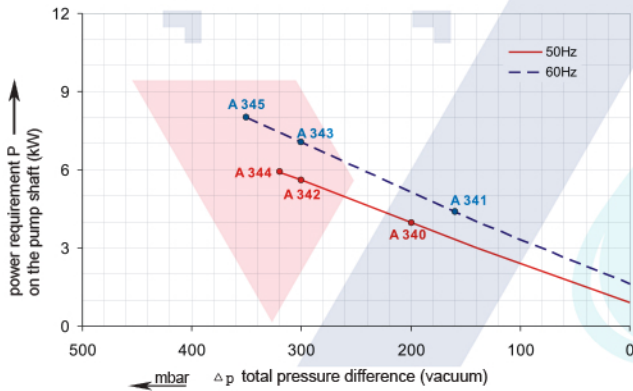
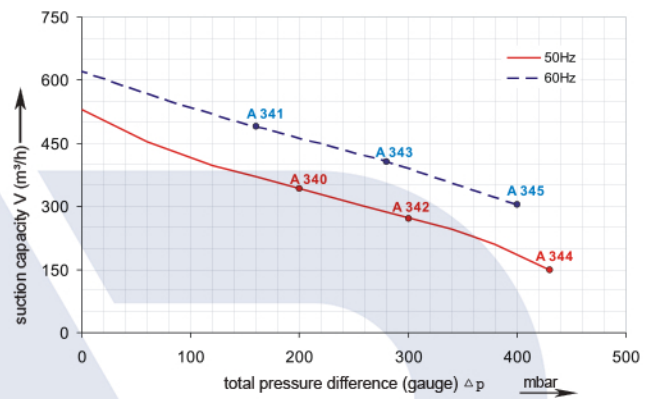
### G-2RB



Performance curve for Vacuum pump



Performance curve for Compressor



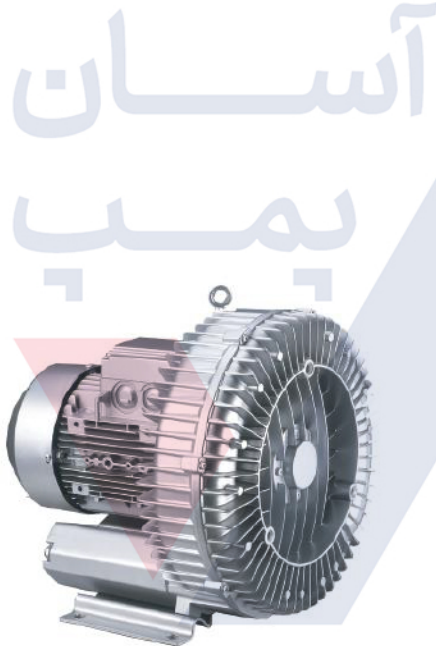
The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of +/- 10 %. The total pressure differences are valid for suction and ambient temperatures up to 25 °C. For other conditions please confer with us.

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 2RB 810

Curve No.	Order No.	Fre- quency Hz	Rated power kW	Input voltage		Input current		Permissible total differential pressure *)		Sound pressure level *) dB(A)	Weight ca. kg
				V		A		Vacuum mbar	Compressor mbar		
<b>3~ 50/60 Hz IP55 isolation material class F 1)</b>											
A 340	2RB 810-7AH07	50	4.0	345D ... 415D	600Y...720Y	9.5D	5.5Y	-200	200	70	54
A 341	2RB 810-7AH07	60	4.6	380D ... 480D	660Y...720Y	9.5D	5.5Y	-160	160	74	54
A 342	2RB 810-7AH17	50	5.5	345D ... 415D	600Y...720Y	13.3D	7.7Y	-300	300	70	63
A 343	2RB 810-7AH17	60	6.3	380D ... 480D	660Y...720Y	13.3D	7.7Y	-300	280	74	63
A 344	2RB 810-7AH27	50	7.5	345D ... 415D	600Y...720Y	16.7D	9.6Y	-320	430	70	66
A 345	2RB 810-7AH27	60	8.6	380D ... 480D	660Y...720Y	17.3D	10.0Y	-350	400	74	66



#### Other voltage ranges

2RB810-7A □ □		
50Hz	60Hz	↑ ↑
<b>3~</b>		
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	200...275 V D/380...480 V Y	H 6
345...415 V D	380...480 V D	H 7
500 V D	575 V D	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.

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.

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 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 %.

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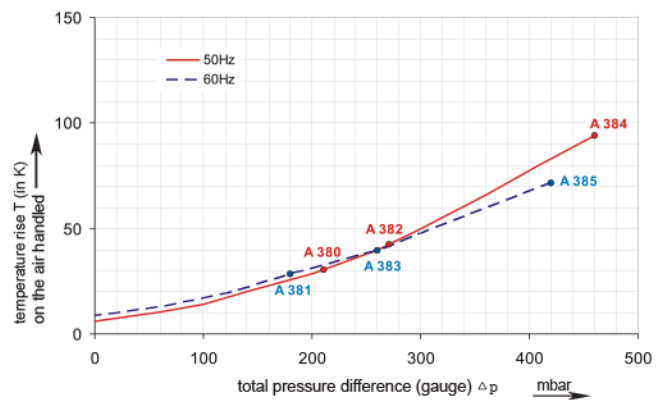
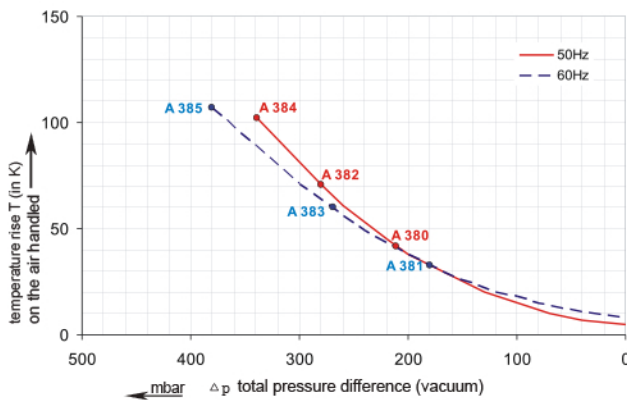
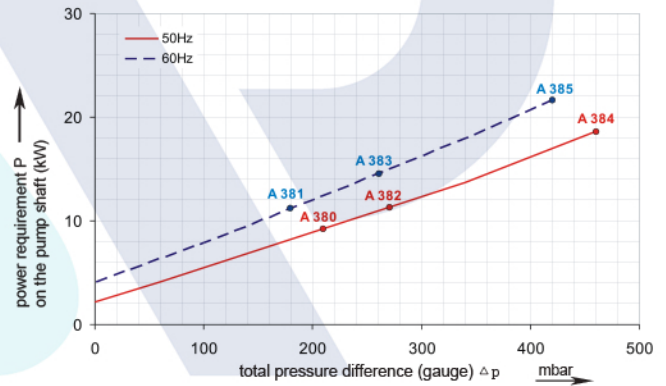
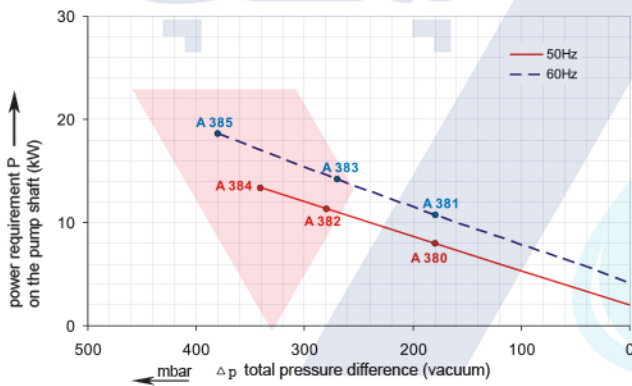
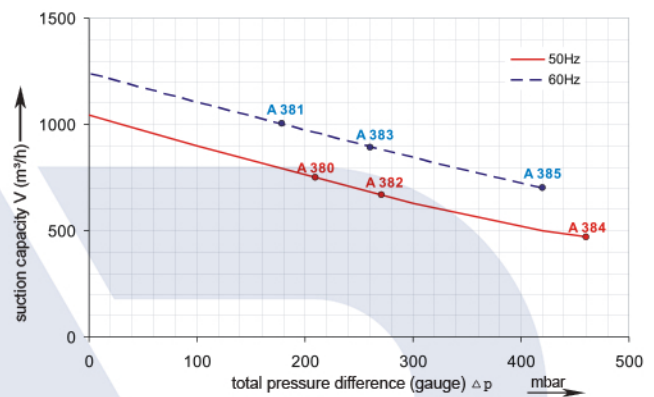
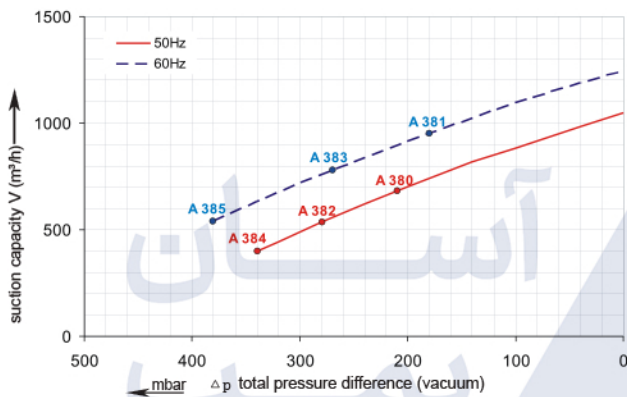
## Data sheet 2RB 910

### 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 2RB 910**

Curve No.	Order No.	Fre- quency	Rated power	Input voltage	Input current	Permissible total differential pressure <sup>2)</sup>		Sound pressure level <sup>3)</sup>	Weight ca.		
						Vacuum mbar	Compressor mbar			dB(A)	kg
		Hz	kW	V	A						
<b>3~ 50/60 Hz IP55 insulation material class F 1)</b>											
A 380	2RB 910-7AH07	50	8.5	345D ... 415D	600Y...720Y	18.2D	10.5Y	-210	210	74	93
A 381	2RB 910-7AH07	60	9.8	380D ... 480D	660Y...720Y	18.2D	10.5Y	-180	180	79	93
A 382	2RB 910-7AH17	50	12.5	345D ... 415D	600Y...720Y	28.0D	16.2Y	-280	270	74	116
A 383	2RB 910-7AH17	60	14.5	380D ... 480D	660Y...720Y	29.0D	16.7Y	-270	260	79	116
A 384	2RB 910-7AH37	50	18.5	345D ... 415D	600Y...720Y	37.0D	21.0Y	-340	460	74	126
A 385	2RB 910-7AH37	60	21.3	380D ... 480D	660Y...720Y	39.0D	22.5Y	-380	420	79	126

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Other voltage ranges		
2RB910-7A <input type="checkbox"/> <input type="checkbox"/>		
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	200...275 V D/380...480 V Y	H 6
345...415 V D	380...480 V D	H 7
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.

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.

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 %.

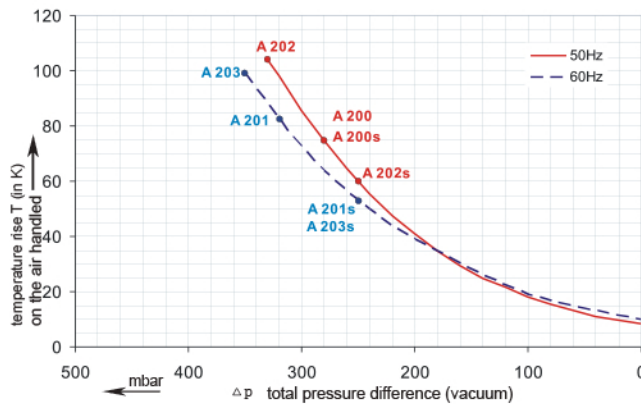
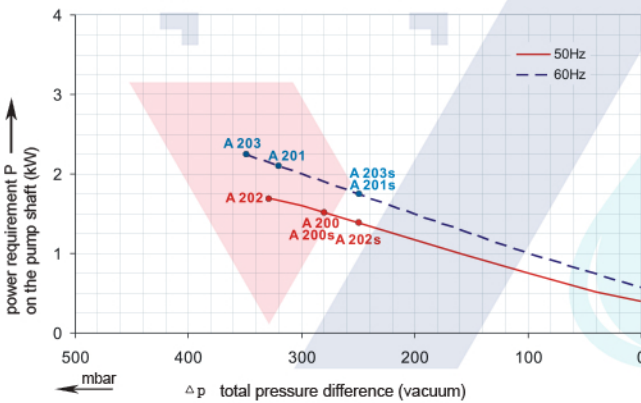
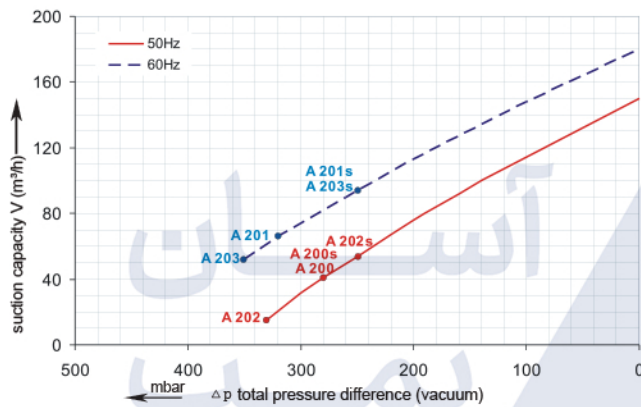
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## Data sheet 2RB 420

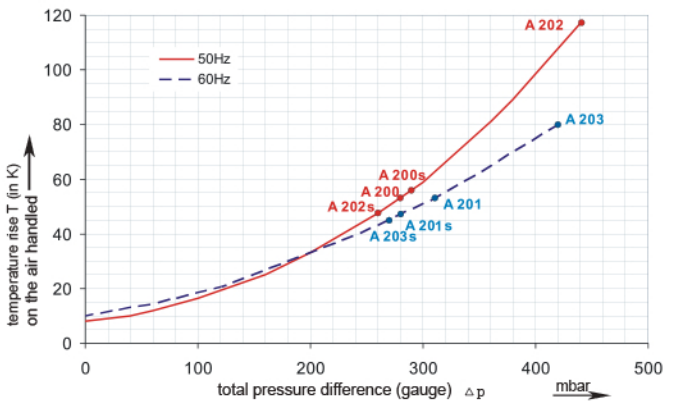
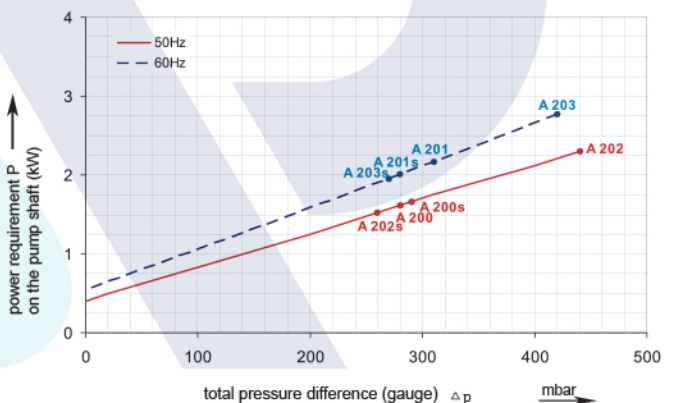
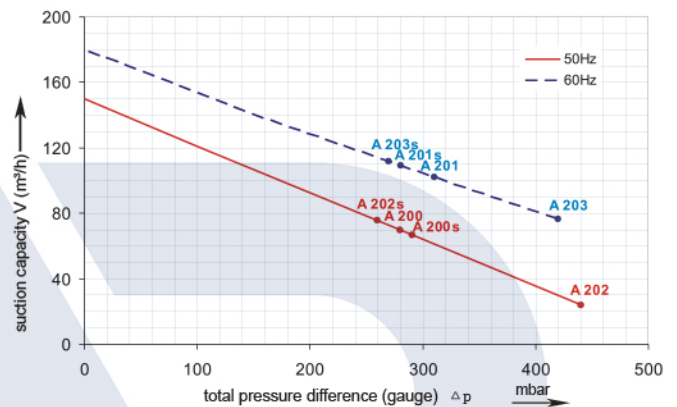


### G-2RB

Performance curve for Vacuum pump



Performance curve for Compressor



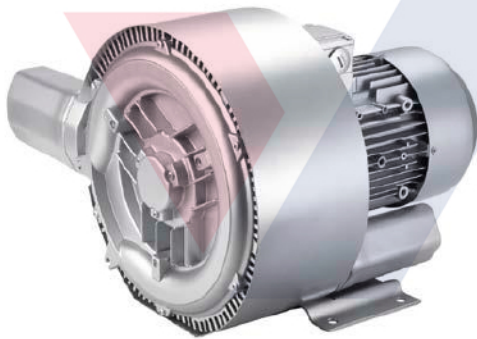
The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of +/- 10 %.  
 The total pressure differences are valid for suction and ambient temperatures up to 25 °C.  
 For other conditions please confer with us.

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 2RB420

Curve No.	Order No.	Fre- quency Hz	Rated power kW	Input voltage		Input current		Permissible total differential pressure <sup>2)</sup>		Sound pressure level <sup>3)</sup> dB(A)	Weight ca. kg
				V		A		Vacuum mbar	Compressor mbar		
<b>3~ 50/60 Hz IP55 isolation material class F 1)</b>											
A 200	2RB 420-7HH36	50	1.6	200D ... 240D	345Y...415Y	8.5D	4.3Y	-280	280	66	25
A 201	2RB 420-7HH36	60	2.05	220D ... 275D	380Y...480Y	7.6D	4.4Y	-320	310	69	25
A 202	2RB 420-7HH46	50	2.2	200D ... 240D	345Y...415Y	9.7D	5.6Y	-330	440	66	27
A 203	2RB 420-7HH46	60	2.55	220D ... 275D	380Y...480Y	10.0D	5.8Y	-350	420	69	27
<b>1~ 50/60 Hz IP55 with attached condenser for continuous operation</b>											
A 200s	2RB 420-7HA31	50	1.5	230		9		-280	290	66	26
A 201s	2RB 420-7HA31	60	1.75	230		10		-250	280	69	26
A 202s	2RB 420-7AV45	50	1.5	115	230	22	11	-250	260	66	27
A 203s	2RB 420-7AV45	60	1.75	115	230	24	12	-250	270	69	27



Other voltage ranges		
2RB420-7H <input type="checkbox"/> <input type="checkbox"/>		
50Hz	60Hz	↑ ↑
<b>3~</b>		
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	200...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.		
<b>1~</b>		
100 / 200 V	100 / 200 V	V 4
115 / 230 V	115 / 230 V	V 5
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.

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 %.

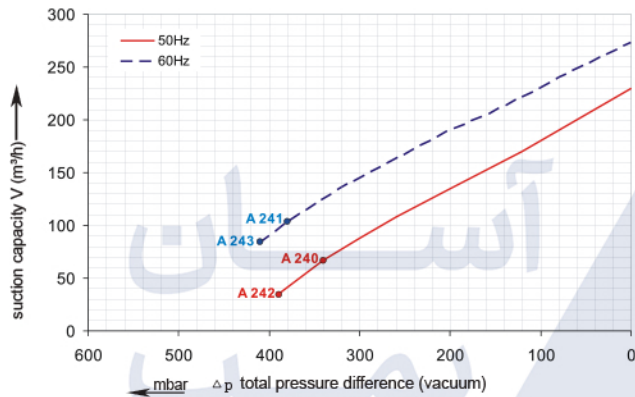
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## Data sheet 2RB 520

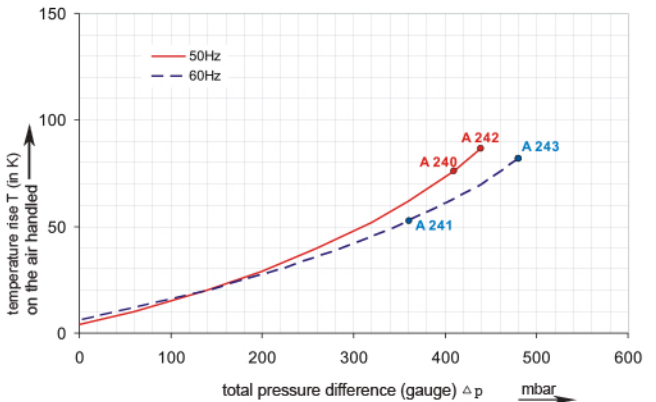
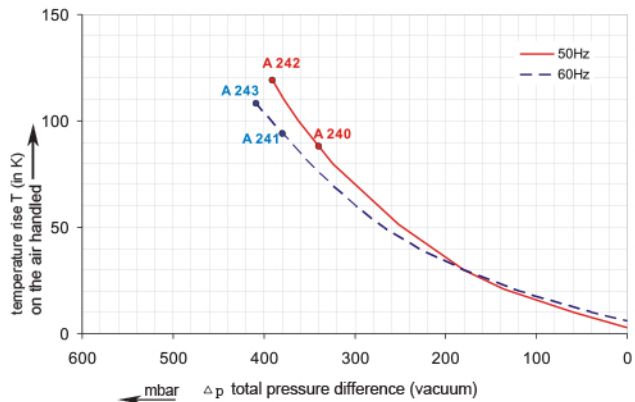
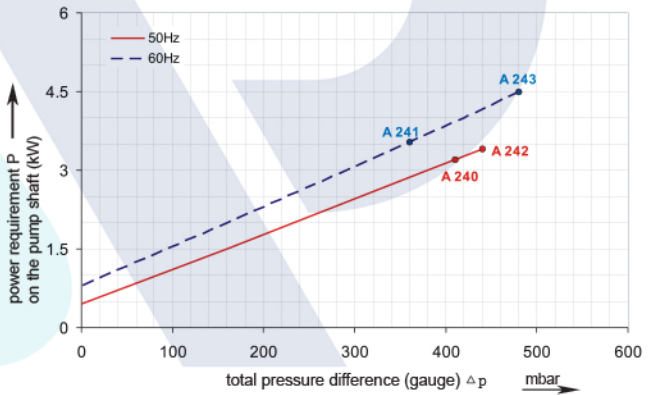
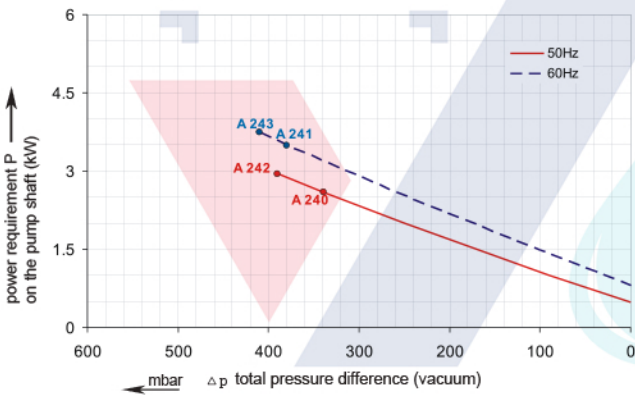
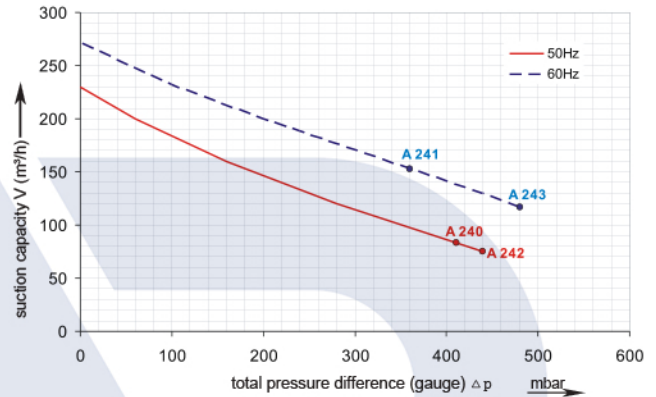


### G-2RB

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.

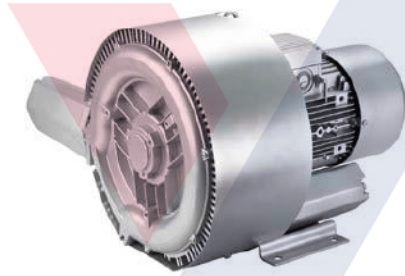
Each G-2RB type can be applied both as vacuum pump and compressor in continuous operation over the total stated performance curve range. The motors are available as standard for the input voltage range of 50 and 60 Hz and for protection category IP 55 as well as approved for UL and CSA.

### Selection and ordering data

#### Type 2RB520

Curve No.	Order No.	Fre- quency Hz	Rated power kW	Input voltage			Input current		Permissible total differential pressure <sup>2)</sup>		Sound pressure level <sup>3)</sup> dB(A)	Weight ca. kg
				V	V	V	A	A	Vacuum mbar	Compressor mbar		
<b>3~ 50/60 Hz IP55 insulation material class F 1)</b>												
A 240	2RB 520-7HH46	50	3.0	200D ... 240D	345Y...415Y	12.5D	7.2Y	-340	410	72	40	
A 241	2RB 520-7HH46	60	3.45	220D ... 275D	380Y...480Y	12.6D	7.3Y	-380	360	74	40	
A 242	2RB 520-7HH57	50	4.0	345D ... 415D	600Y...720Y	10.0D	5.8Y	-390	440	72	44	
A 243	2RB 520-7HH57	60	4.6	380D ... 480D	600Y...720Y	9.9D	5.71Y	-410	480	74	44	

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Other voltage ranges		
2RB520-7H □ □		
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	200...275 V D/380...480 V Y	H 6
345...415 V D	380...480 V D	H 7
500 V D	575 V D	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.

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.

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 %.

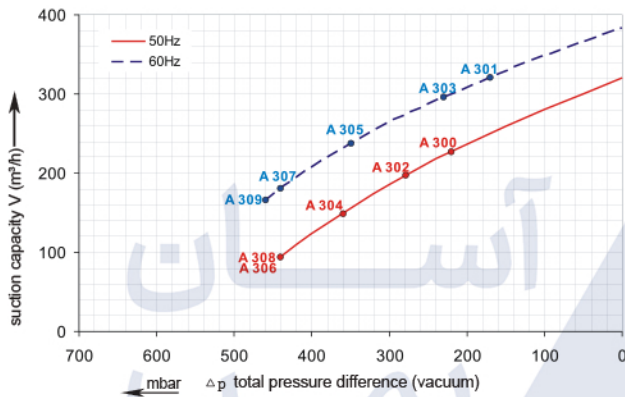
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## Data sheet 2RB 720

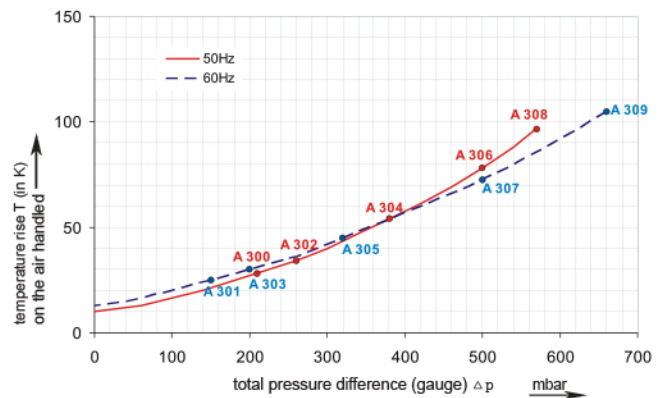
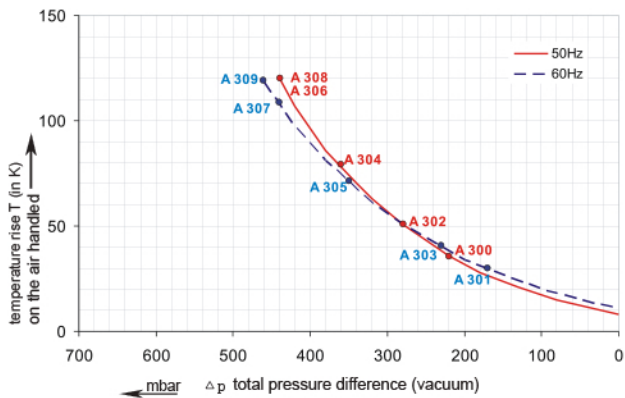
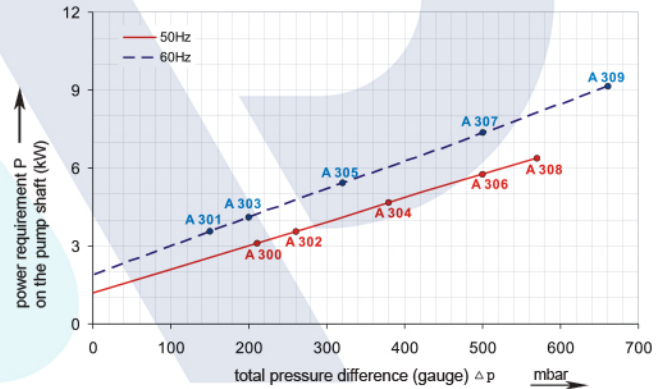
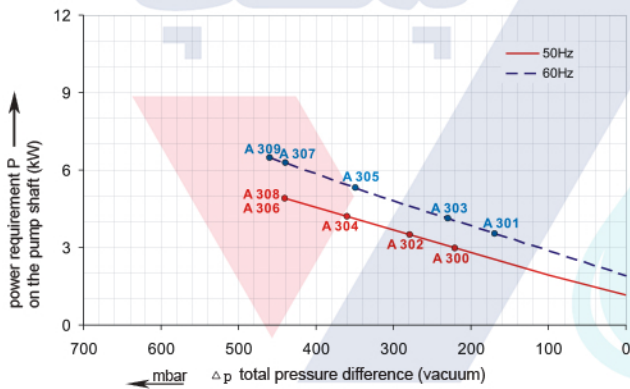
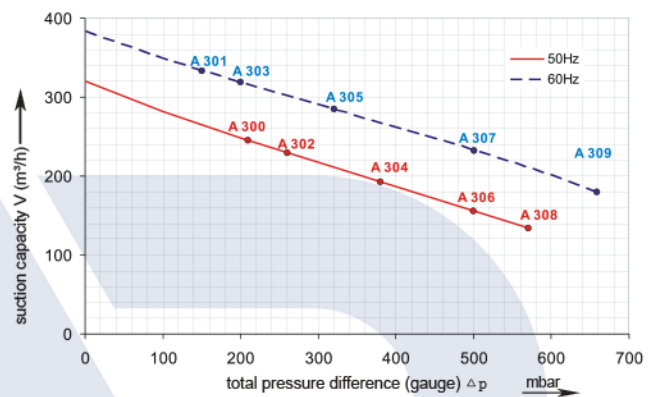


### G-2RB

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 2RB720

Curve No.	Order No.	Fre- quency	Rated power	Input voltage		Input current		Permissible total differential pressure <sup>2)</sup>		Sound pressure level <sup>3)</sup>	Weight ca.
				Hz	kW	V	A	Vacuum mbar	Compressor mbar		
<b>3~ 50/60 Hz IP55 isolation material class F 1)</b>											
A 300	2RB720-7HH16	50	2.2	200D ... 240D	345Y...415Y	9.7D	5.6Y	-220	210	73	43
A 301	2RB720-7HH16	60	2.55	220D ... 275D	380Y...480Y	10.3D	6.0Y	-170	150	76	43
A 302	2RB720-7HH26	50	3.0	200D ... 240D	345Y...415Y	12.5D	7.2Y	-280	260	73	48
A 303	2RB720-7HH26	60	3.45	220D ... 275D	380Y...480Y	12.6D	7.3Y	-230	200	76	48
A 304	2RB720-7HH37	50	4.3	345D ... 415D	600Y...720Y	10.0D	5.2Y	-360	380	73	54
A 305	2RB720-7HH37	60	4.8	380D ... 480D	660Y...720Y	10.4D	6.0Y	-350	320	76	54
A 306	2RB720-7HH47	50	5.5	345D ... 415D	600Y...720Y	13.3D	7.7Y	-440	500	73	66
A 307	2RB720-7HH47	60	6.3	380D ... 480D	660Y...720Y	13.3D	7.7Y	-440	500	76	66
A 308	2RB720-7HH57	50	7.5	345D ... 415D	600Y...720Y	16.7D	9.6Y	-440	570	73	73
A 309	2RB720-7HH57	60	8.6	380D ... 480D	660Y...720Y	17.3D	10.0Y	-460	660	76	73



Other voltage ranges		
2RB720-7H □ □		
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	200...275 V D/380...480 V Y	H 6
345...415 V D	380...480 V D	H 7
500 V D	575 V D	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.  
 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.

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 %.

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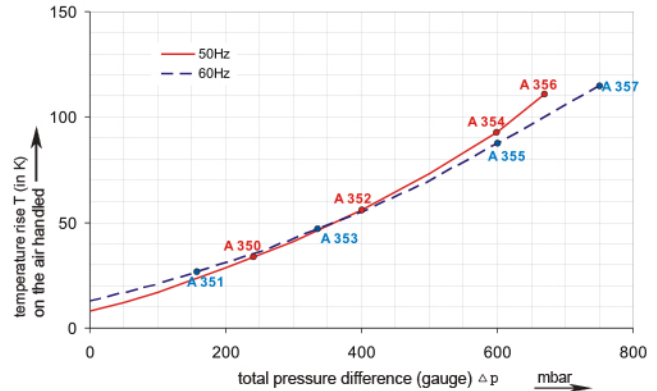
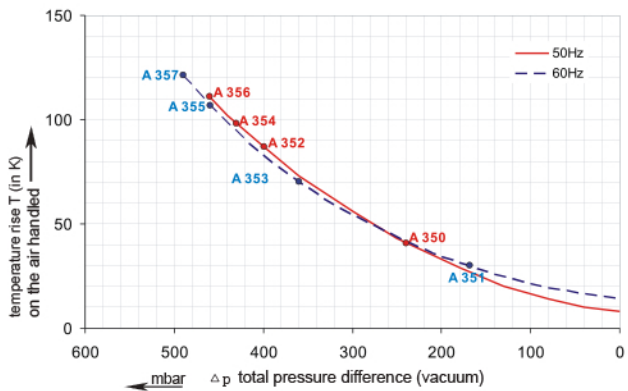
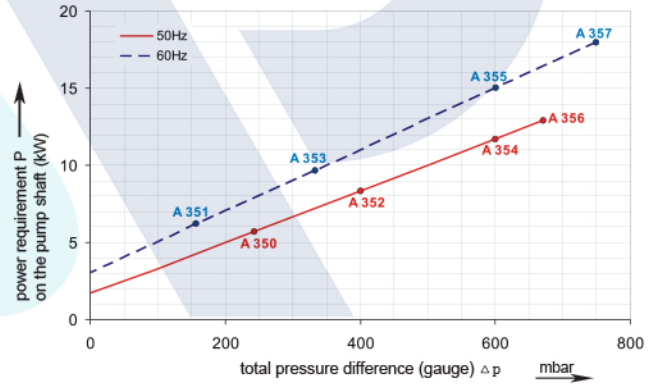
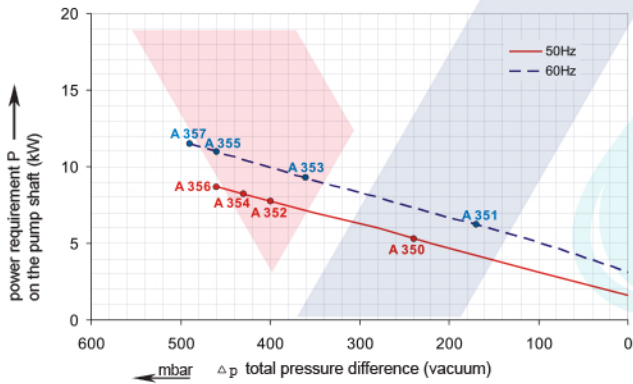
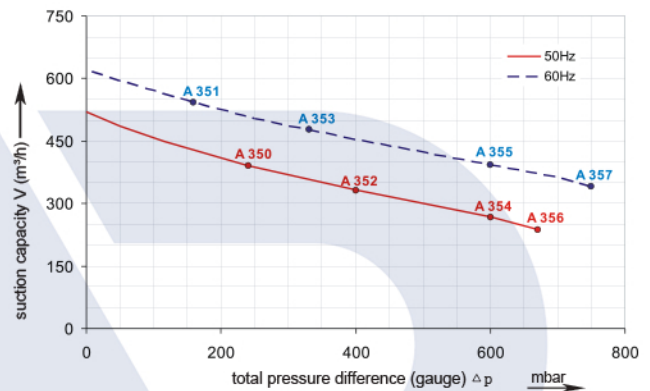
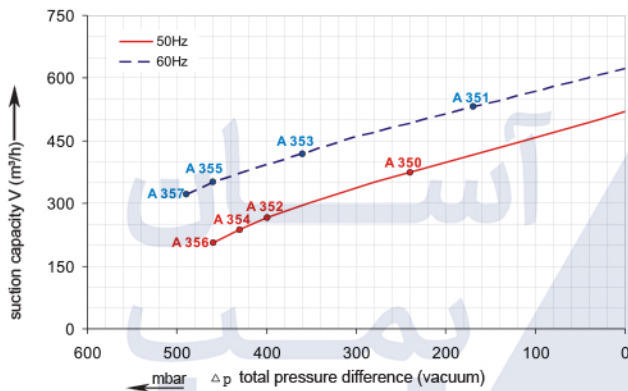
## Data sheet 2RB 820

### 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 2RB820

Curve No.	Order No.	Fre- quency	Rated power	Input voltage		Input current		Permissible total differential pressure <sup>2)</sup>		Sound pressure level <sup>3)</sup>	Weight ca.
				V		A		Vacuum mbar	Compressor mbar		
3~ 50/60 Hz IP55 Isulation material class F 1)											
A 350	2RB820-7HH17	50	5.5	345D ... 415D	600Y...720Y	13.3D	7.7	-240	240	74	83
A 351	2RB820-7HH17	60	6.3	380D ... 480D	660Y...720Y	13.3D	7.7	-170	160	78	83
A 352	2RB820-7HH27	50	7.5	345D ... 415D	600Y...720Y	16.7D	9.6	-400	400	74	86
A 353	2RB820-7HH27	60	8.6	380D ... 480D	660Y...720Y	17.3D	10.0	-360	330	78	86
A 354	2RB820-7HH37	50	11.0	345D ... 415D	600Y...720Y	28.0D	16.2	-430	600	74	104
A 355	2RB820-7HH37	60	12.6	380D ... 480D	660Y...720Y	29.0D	16.7	-460	600	78	104
A 356	2RB820-7HH47	50	15.0	345D ... 415D	600Y...720Y	32.5D	18.8	-460	670	74	120
A 357	2RB820-7HH47	60	17.3	380D ... 480D	660Y...720Y	34.5D	19.9	-490	750	78	120



Other voltage ranges		
2RB820-7H □ □		
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	200...275 V D/380...480 V Y	H 6
345...415 V D	380...480 V D	H 7
500 V D	575 V D	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.  
 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.

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 %.

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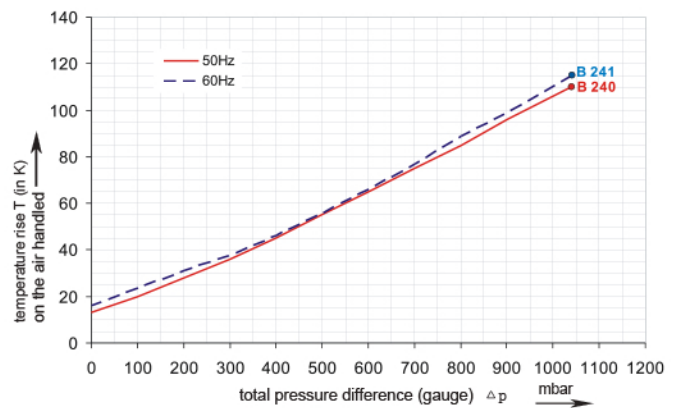
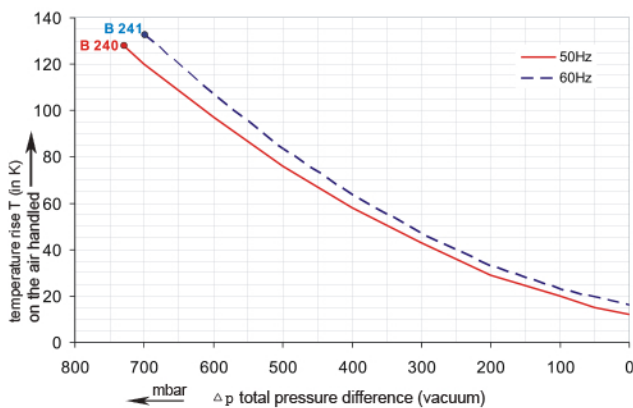
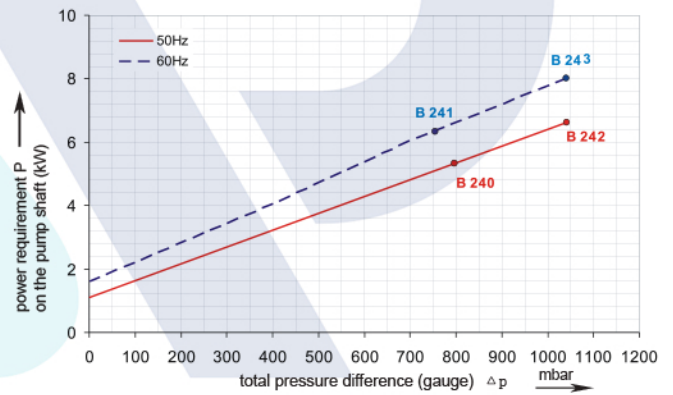
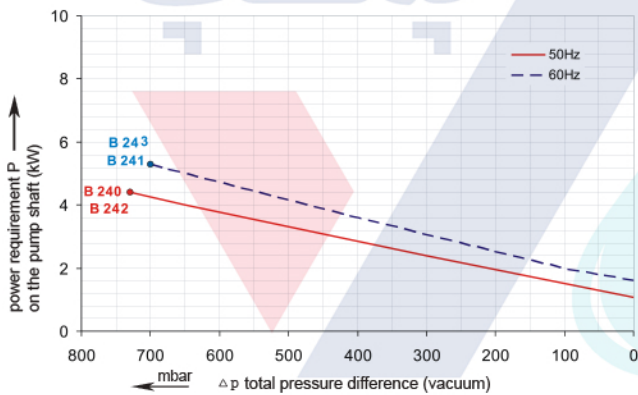
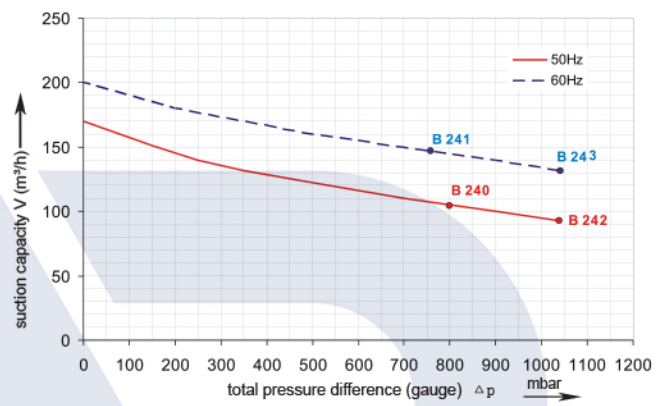
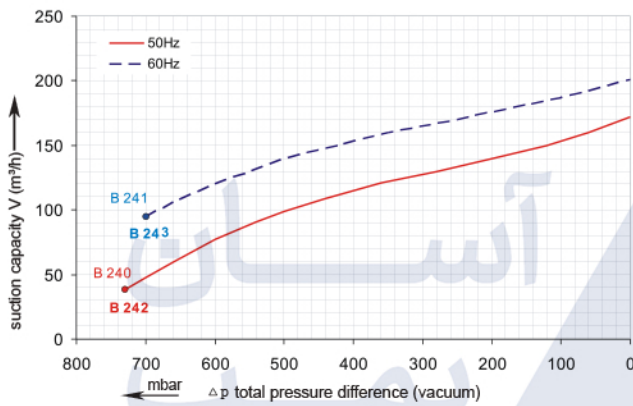
## Data sheet 4RB 630

### G-4RB



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-4RB 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 4RB 630										
Curve No.	Order No.	Fre- quency	Rated power	Input voltage	Input current	Permissible total differential pressure <sup>2)</sup>		Sound pressure level <sup>3)</sup>	Weight ca.	
						Vacuum mbar	Compressor mbar			
		Hz	kW	V	A			dB(A)	kg	
<b>3~ 50/60 Hz IP55 isolation material class F 1)</b>										
B 240	4RB630-7AH57-8	50	5.5	345D...415D	13.0D	-730	800	72	82	
B 241	4RB630-7AH57-8	60	6.3	380D...480D	13.0D	-700	750	76	82	
B 242	4RB630-7AH67-8	50	7.5	345D...415D	16.0D	-730	1040	72	86	
B 243	4RB630-7AH67-8	60	8.6	380D...480D	16.0D	-700	1040	76	86	



Other voltage ranges		
4RB630-7A <input type="checkbox"/> <input type="checkbox"/>		
50Hz	60Hz	↑ ↑
<b>3~</b>		
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	200...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.  
 Further voltage range on request; please quote in plain text.

All G-4RB 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 %.