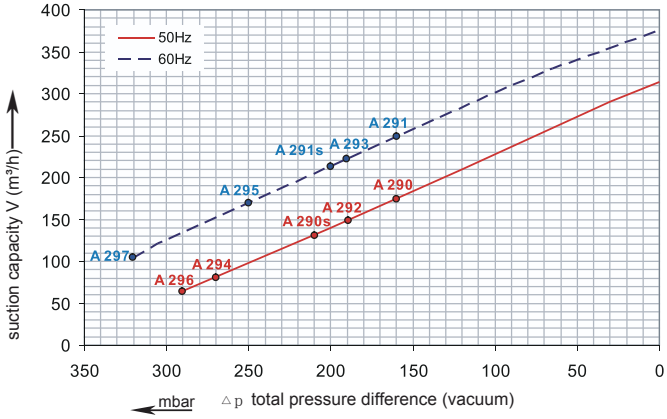
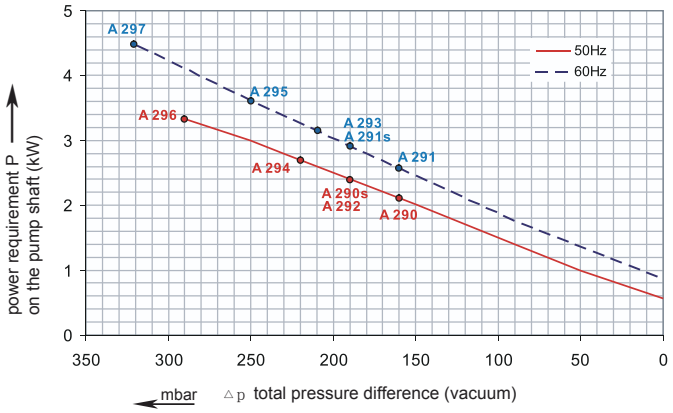
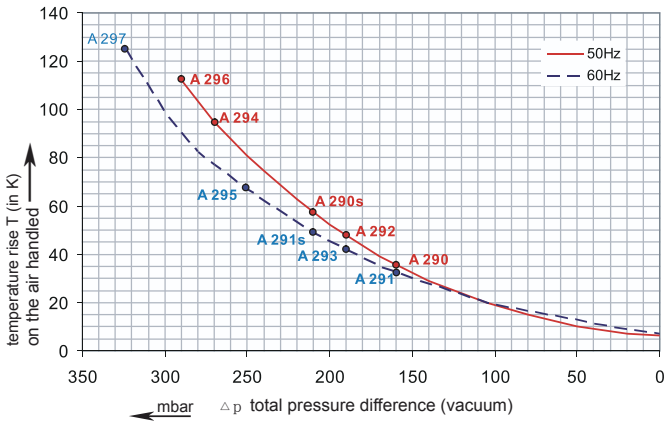
# G-2RB

## Performance curve for Vacuum pump

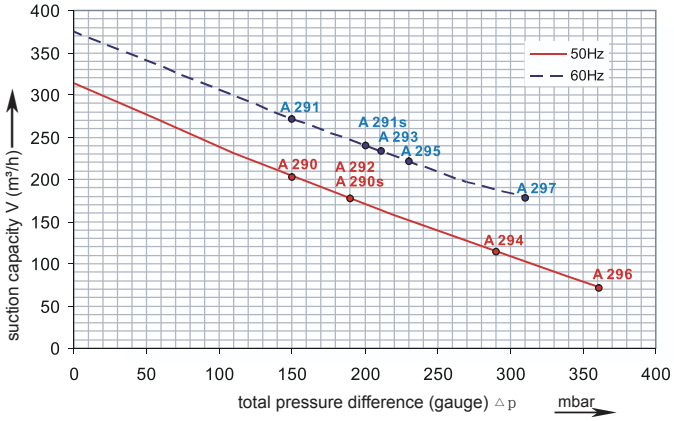


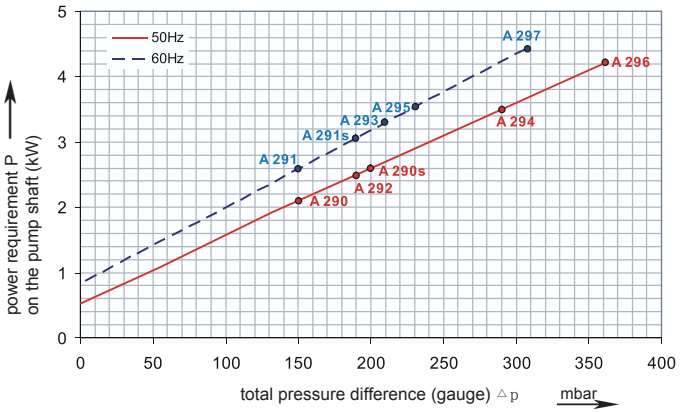



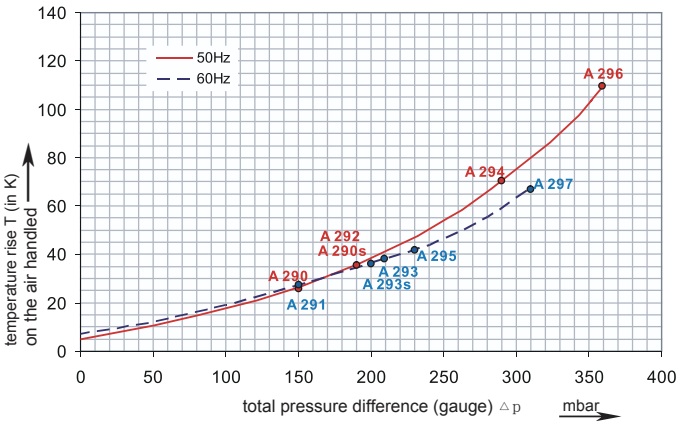




# 2RB 710

## 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 approbated for UL and CSA.

## Selection and ordering data

**Type 2RB710**

| Curve No. | Order No. | Frequency Hz | Rated power kW | Input voltage V | | Input current A | | Permissible total differential pressure ²) Vacuum mbar | Permissible total differential pressure ²) Compressor mbar | Sound pressure level ³) dB(A) | Weight ca. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **3~ 50/60 Hz IP55 isulation material class F 1)** | | | | | | | | | | | |
| A 290 | 2RB710-7AH06 | 50 | 1.6 | 200D ... 240D | 345Y...415Y | 8.5D | 4.9Y | -160 | 150 | 69 | 27 |
| A 291 | 2RB710-7AH06 | 60 | 2.1 | 220D ... 275D | 380Y...480Y | 8.8D | 5.1Y | -160 | 150 | 72 | 27 |
| A 292 | 2RB710-7AH16 | 50 | 2.2 | 200D ... 240D | 345Y...415Y | 9.7D | 5.6Y | -190 | 190 | 69 | 30 |
| A 293 | 2RB710-7AH16 | 60 | 2.55 | 220D ... 275D | 380Y...480Y | 10.3D | 6.0Y | -190 | 190 | 72 | 30 |
| A 294 | 2RB710-7AH26 | 50 | 3.0 | 200D ... 240D | 345Y...415Y | 12.5D | 7.2Y | -260 | 270 | 69 | 36 |
| A 295 | 2RB710-7AH26 | 60 | 3.45 | 220D ... 275D | 380Y...480Y | 12.6D | 7.3Y | -240 | 230 | 72 | 36 |
| A 296 | 2RB710-7AH37 | 50 | 4.0 | 345D ... 415D | 600Y...720Y | 9.0D | 5.2Y | -290 | 360 | 69 | 40 |
| A 297 | 2RB710-7AH37 | 60 | 4.6 | 380D ... 480D | 660Y...720Y | 9.0D | 5.2Y | -320 | 310 | 72 | 40 |
| **1~ 50/60 Hz IP55 isulation material class F 1)** | | | | | | | | | | | |
| A 290s | 2RB710-7AA11 | 50 | 2.2 | 230D | | 12.8D | | -190 | 190 | 72 | 30 |
| A 291s | 2RB710-7AA11 | 60 | 2.55 | 230D | | 12.8D | | -190 | 200 | 74 | 30 |

Other voltage ranges

| | | 2RB 710-7AH □.□ |
|---|---|---|
| **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 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 %.

Changes in particular the quoted performance curve, datas and weights without prior notice. The figures are without obligations.

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