



Leybold Mag W 1300iP - 2200iP

Technical Specifications

| | | TURBOVAC MAG W | | | | | |
|---|-------------------|--|--|--|--|--|--|
| | | 1300 iP(L) | 1600 iP(L) | 1601 iP(L) | 1700 iP(L) | 2200 iP(L) | 2201 iP(L) |
| Inlet flange | DN | 200 ISO-F 200 CF | 250 ISO-F | 250 ISO-F | 250 ISO-F 250 CF | 250 ISO-F 250 CF | 250 ISO-F |
| Pumping speed | | | | | | | |
| N ₂ | l/s | 1100 | 1600 | 1600 | 1610 | 2100 | 2100 |
| Ar | l/s | 1050 | 1470 | 1470 | 1480 | 1900 | 1900 |
| He | l/s | 1220 | 1770 | 1770 | 1710 | 2050 | 2050 |
| H ₂ | l/s | 1130 | 1570 | 1570 | 1500 | 1750 | 1750 |
| Operating speed | | | | | | | |
| standby speed adjustable from | min ⁻¹ | 37 800 | 33 000 | 33 000 | 33 000 | 30 600 | 30 000 |
| to nominal speed | min ⁻¹ | 13 800 (230 Hz) | 13 800 (230 Hz) | 13 800 (230 Hz) | 13 800 (230 Hz) | 13 800 (230 Hz) | 13 800 (230 Hz) |
| Max. compression ratio | | | | | | | |
| N ₂ | | > 10 ⁸ | > 10 ⁷ | > 10 ⁷ | > 10 ⁸ | > 10 ⁸ | > 10 ⁸ |
| Ar | | > 10 ⁸ | > 10 ⁷ | > 10 ⁷ | > 10 ⁸ | > 10 ⁸ | > 10 ⁸ |
| He at 1 sccm | | 2 x 10 ⁵ | 6 x 10 ⁴ | 3 x 10 ³ | 2 x 10 ⁵ | 5 x 10 ⁴ | 5 x 10 ³ |
| H ₂ at 1 sccm | | 8 x 10 ³ | 1 x 10 ³ | 5 x 10 ² | 4 x 10 ³ | 5 x 10 ³ | 5 x 10 ² |
| Max. gas throughput | | | | | | | |
| N ₂ briefly, e.g. during pumpdown | mbar x l/s | 30 | 60 | 60 | 30 | 30 | 50 |
| N ₂ in continuous operation | mbar x l/s | 20 | 30 | 40 | 20 | 17 | 36 |
| Ar briefly, e.g. during pumpdown | mbar x l/s | 20 | 30 | 30 | 20 | 20 | 30 |
| Ar in continuous operation | mbar x l/s | 15 | 20 | 25 | 15 | 12 | 24 |
| Ultimate pressure | | | | | | | |
| ISO-F flange | mbar (Torr) | < 10 ⁻⁸ (< 7.5 x 10 ⁻⁹) | < 10 ⁻⁸ (< 7.5 x 10 ⁻⁹) | < 10 ⁻⁸ (< 7.5 x 10 ⁻⁹) | < 10 ⁻⁸ | < 10 ⁻⁸ | < 10 ⁻⁸ (< 7.5 x 10 ⁻⁹) |
| CF flange | mbar (Torr) | < 10 ⁻¹⁰ (< 7.5 x 10 ⁻¹¹) | – | – | < 10 ⁻¹⁰ (< 7.5 x 10 ⁻¹¹) | < 10 ⁻¹⁰ (< 7.5 x 10 ⁻¹¹) | – |
| Max. degassing temperature | °C (°F) | 80 (176) | | | | | |
| Max. foreline pressure | | | | | | | |
| N ₂ | mbar (Torr) | 4.0 (3.00) | 1.0 (0.75) | 1.0 (0.75) | 4.0 (3.00) | 2.5 (1.9) | 1.2 (0.91) |
| Ar | mbar (Torr) | 0.6 (0.45) | 1.0 (0.75) | 1.0 (0.75) | 0.6 (0.45) | 2.5 (1.9) | 1.2 (0.91) |
| Recommended backing pump | | TRIVAC B or dry compressing pumps | | | | | |
| Run-up time | min | < 5 | < 7 | < 7 | < 7 | < 10 | < 10 |
| Foreline flange | DN | 40 KF | | | | | |
| Purge / vent port (clamped) | DN | 16 KF | | | | | |
| Water cooling connection | G | 1/8" | | | | | |
| Weight, approx. | kg (lbs) | 40 (88) | 45 (99) | 45 (99) | 45 (99) | 50 (110) | 50 (110) |
| Noise level acc. ISO 3744 | dB(A) | < 41 | | | | | |
| Vibration level at high vacuum flange at max. speed | µm | 0.01 | | | | | |



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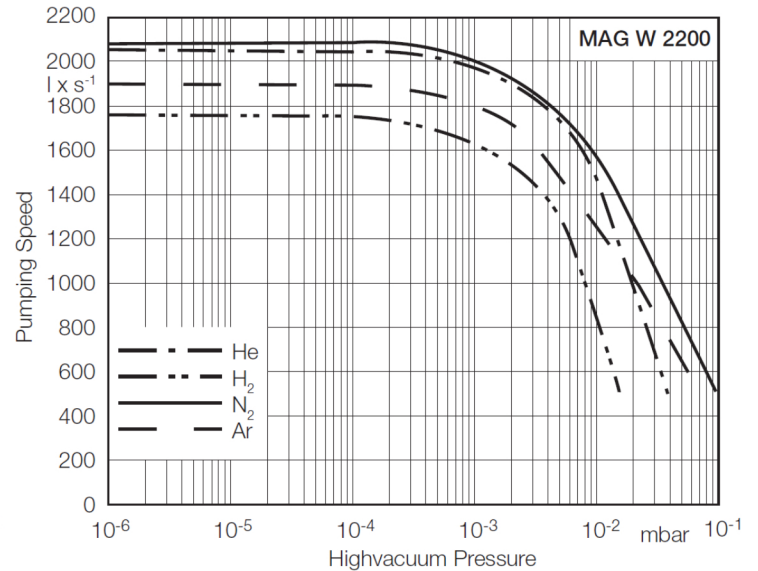
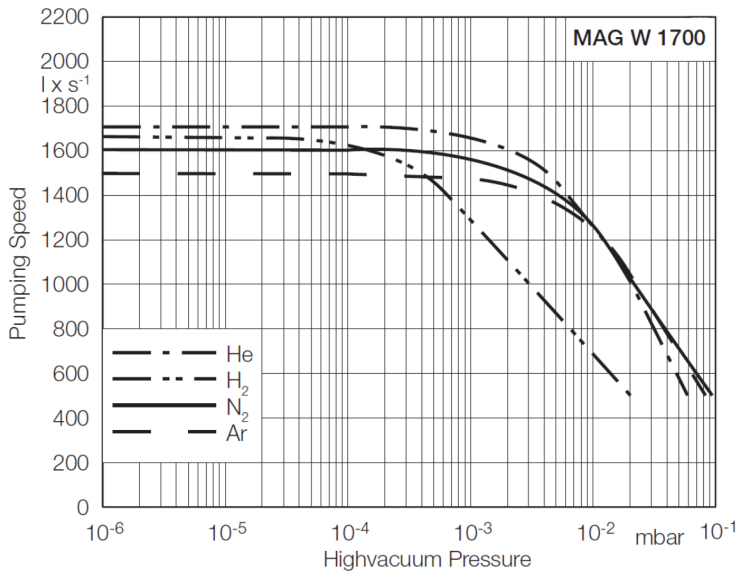
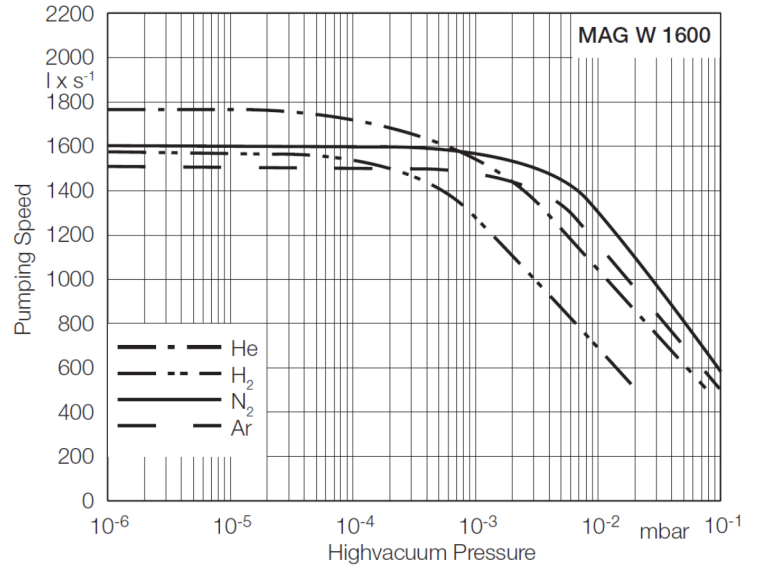
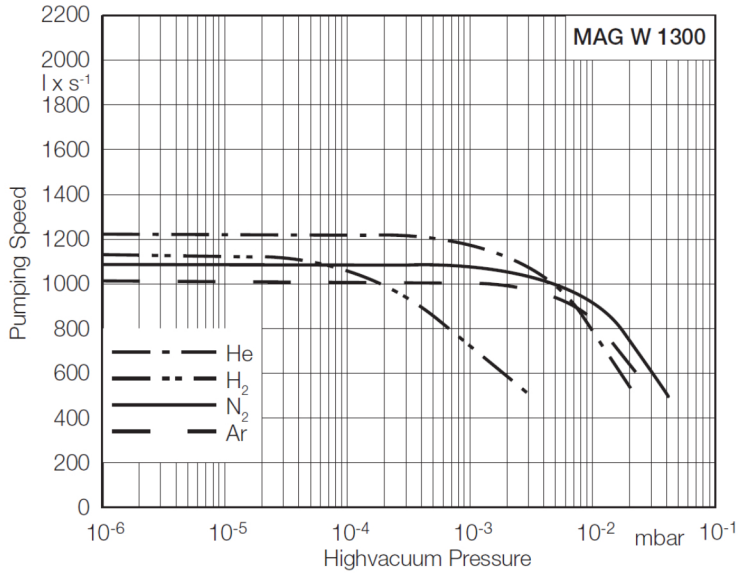
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Leybold Mag W 1300iP - 2200iP Pumping Curves





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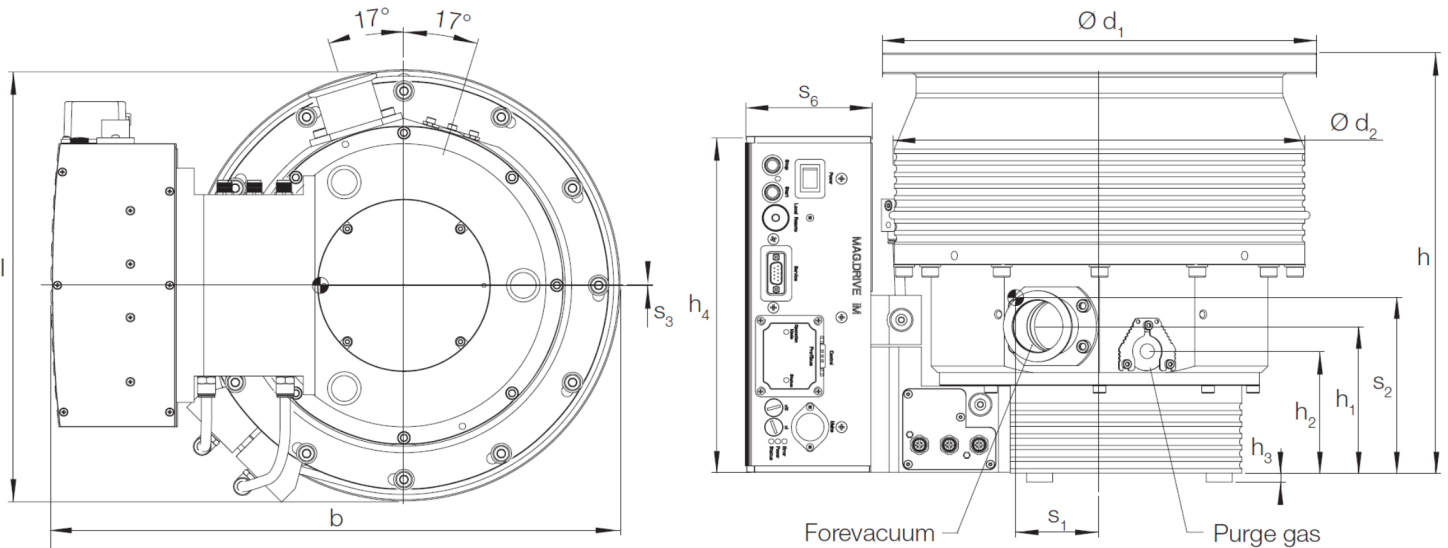
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Dimensions



| Type | DN | | b | d ₁ | d ₂ | h | h ₁ | h ₂ | h ₃ | h ₄ | h ₅ | h ₆ |
|-----------------|-----------|-----|---------------------|---------------------|---------------------|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MAG W 1300 | 200 ISO-F | mm | 420 ¹⁾ | 285 | 285 | 305 | 114 | 94 | 7 | 260 | 442 | 251 |
| | | in. | 16.54 ¹⁾ | 11.22 | 11.22 | 12.01 | 4.49 | 3.70 | 0.38 | 10.24 | 17.40 | 9.88 |
| | 200 CF | mm | 416 | 254 | 285 | 335 | 114 | 94 | 7 | 260 | 472 | 251 |
| | | in. | 16.38 | 10.00 | 11.22 | 13.19 | 4.49 | 3.70 | 0.38 | 10.24 | 18.58 | 9.88 |
| MAG W 1600/1700 | 250 ISO-F | mm | 442 | 335 | 317 | 325 | 114 | 94 | 7 | 260 | 463 | 251 |
| | | in. | 17.40 | 13.19 | 12.48 | 12.80 | 4.49 | 3.70 | 0.38 | 10.24 | 18.23 | 9.88 |
| | 250 CF | mm | 432 | 305 | 317 | 330 | 114 | 94 | 7 | 260 | 467 | 251 |
| | | in. | 17.01 | 12.01 | 12.48 | 12.99 | 4.49 | 3.70 | 0.38 | 10.24 | 18.39 | 9.88 |
| MAG W 2200 | 250 ISO-F | mm | 450 | 335 | 349 | 355 | 114 | 94 | 7 | 260 | 492 | 251 |
| | | in. | 17.18 | 13.19 | 13.74 | 13.19 | 4.49 | 3.70 | 0.38 | 10.24 | 19.37 | 9.88 |
| | 250 CF | mm | 446 | 305 | 349 | 372 | 114 | 94 | 7 | 260 | 506 | 251 |
| | | in. | 17.56 | 12.01 | 13.74 | 14.65 | 4.49 | 3.70 | 0.38 | 10.24 | 19.92 | 9.88 |
| | | | h ₇ | l | l ₁ | l ₂ | s ₁ | s ₂ | s ₃ | s ₄ | s ₅ | s ₆ |
| MAG W 1300 | 200 ISO-F | mm | 114 | 311 ¹⁾ | 311 ¹⁾ | 332 ¹⁾ | 42 | 140 | 0 | 15 | 241 | 98 |
| | | in. | 4.49 | 12.24 ¹⁾ | 12.24 ¹⁾ | 13.07 ¹⁾ | 1.65 | 5.51 | 0 | 0.59 | 9.49 | 3.86 |
| | 200 CF | mm | 114 | 307 | 307 | - | 32 | 164 | 0 | - | - | 98 |
| | | in. | 4.49 | 12.09 | 12.09 | - | 1.26 | 6.46 | 0 | - | - | 3.86 |
| MAG W 1600/1700 | 250 ISO-F | mm | 114 | 335 | 331 | 374 | 39 | 154 | 0 | 14 | 259 | 98 |
| | | in. | 4.49 | 13.19 | 12.24 | 14.72 | 1.54 | 6.06 | 0 | 0.55 | 10.20 | 3.86 |
| | 250 CF | mm | 114 | 335 | 322 | - | 29 | 173 | 0 | 9 | 285 | 98 |
| | | in. | 4.49 | 13.19 | 12.68 | - | 1.14 | 6.81 | 0 | 0.35 | 11.22 | 3.86 |
| MAG W 2200 | 250 ISO-F | mm | 114 | 343 | 340 | 392 | 34 | 165 | 0 | 12 | 272 | 98 |
| | | in. | 4.49 | 13.50 | 13.39 | 15.43 | 1.34 | 6.50 | 0 | 0.47 | 10.71 | 3.86 |
| | 250 CF | mm | 114 | 339 | 340 | - | 26 | 187 | 0 | 8 | 302 | 98 |
| | | in. | 4.49 | 13.35 | 13.39 | - | 1.02 | 7.36 | 0 | 0.32 | 11.89 | 3.86 |



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Leybold Mag W 1300iP - 2200iP Features & Benefits

- installation in any orientation
- highest pumping speed from the smallest possible size
- rugged & reliable operation in industrial applications
- suited for vibration sensitive applications
- flexibility through modular concept

Applications

- leak detectors • mass spectrometers • gas & liquid chromatography
- electron beam microscopy • optical & magnetic data storage • flat panel displays • optical coating • large area coating • metallization
- wear protection • metallurgy • research & development • surface analysis • particle accelerators • fusion experiments • load locks & transfer chambers • space simulation

