PROVAC SALES
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# Pfeiffer HiPace 700M

## Technical Specifications

| | HiPace® 700 M with TC 700, DN 160 ISO-K |
|---|---|
| Bearing | Magnetically |
| Compression ratio for Ar | > $1 \cdot 10^{11}$ |
| Compression ratio for $H_2$ | $2 \cdot 10^{5}$ |
| Compression ratio for He | > $1 \cdot 10^{7}$ |
| Compression ratio for $N_2$ | > $1 \cdot 10^{11}$ |
| Cooling method, optional | Air, convection |
| Cooling method, standard | Water |
| Cooling water flow | 80 l/h |
| Cooling water temperature | 15-35 °C \| 59-95 °F \| 288-308 K |
| Electronic drive unit | TM 700 |
| Flange (in) | DN 160 ISO-K |
| Flange (out) | DN 25 ISO-KF |
| Fore-vacuum max. for $N_2$ | 8 hPa \| 6 Torr \| 8 mbar |
| Gas throughput at 0.1 hPa HV for Ar | 16 hPa·l/s |
| Gas throughput at 0.1 hPa HV for $H_2$ | 9 hPa·l/s |
| Gas throughput at 0.1 hPa HV for He | 16 hPa·l/s |
| Gas throughput at 0.1 hPa HV for $N_2$ | 16 hPa·l/s |
| Gas throughput at full rotational speed for Ar | 8 hPa·l/s |
| Gas throughput at full rotational speed for $N_2$ | 13 hPa·l/s |
| Interfaces | RS-485, Remote |
| Low vibrations | YES |
| Mounting orientation | Any |
| Operating voltage: V DC | 48 (± 5 %) V DC |
| Permissible magnetic field max. | 5 mT |
| Protection category | IP54 |
| Pumping speed for Ar | 660 l/s |
| Pumping speed for $H_2$ | 480 l/s |
| Pumping speed for He | 600 l/s |
| Pumping speed for $N_2$ | 685 l/s |
| Rotation speed ± 2 % | 49,200 rpm \| 49,200 $min^{-1}$ |
| Run-up time | 4 min |
| Sound pressure level | ≤ 45 dB(A) |
| Ultimate pressure according to PNEUROP | < $1 \cdot 10^{-7}$ hPa \| < $7.5 \cdot 10^{-8}$ Torr \| < $1 \cdot 10^{-7}$ mbar |
| Venting connection | G 1/8" |
| Weight | 15.7 kg \| 34.61 lb |

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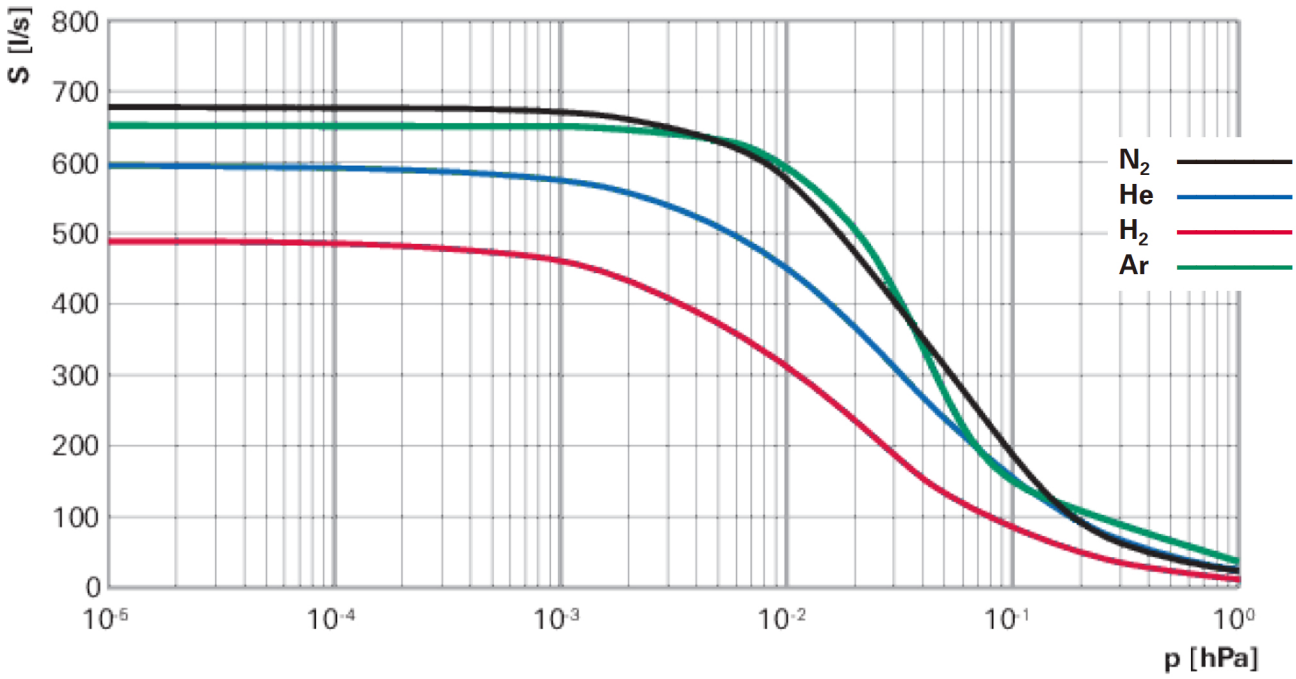
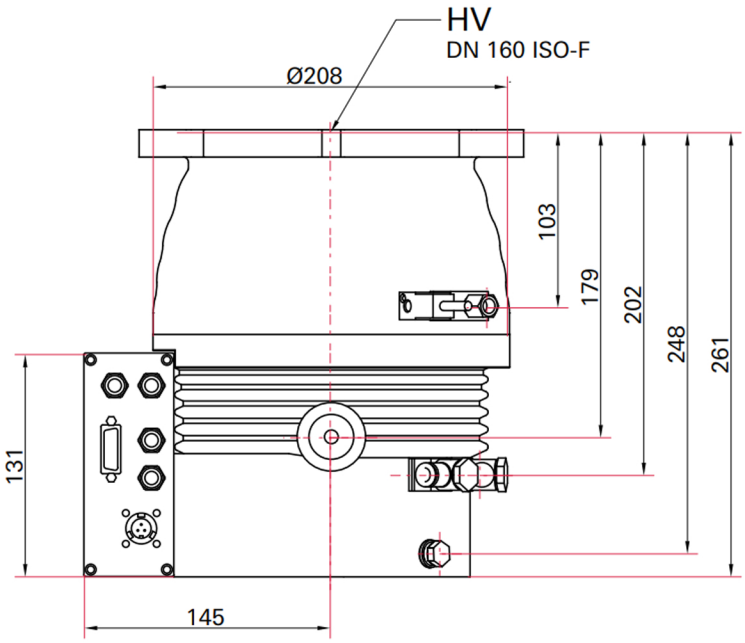
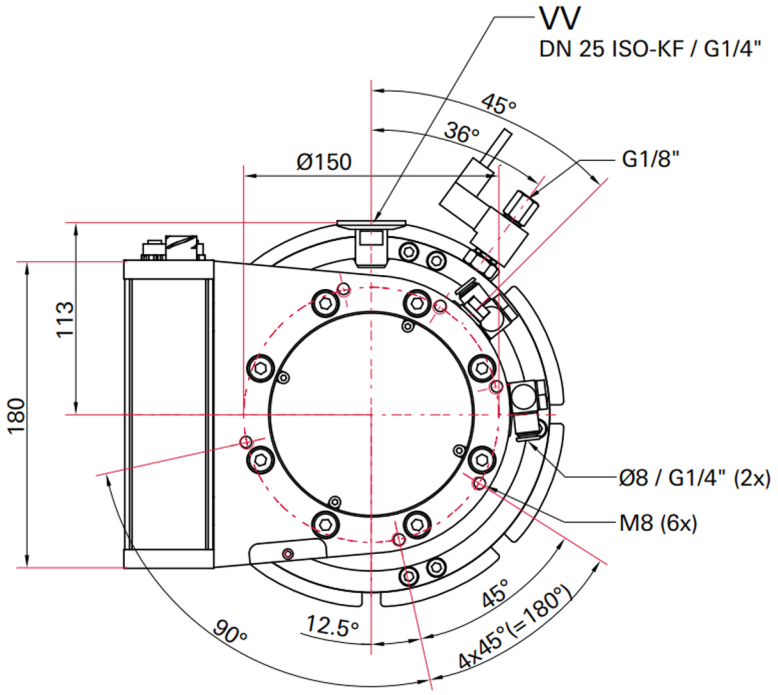
## Pumping Curves




## Dimensions



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## Features & Benefits

- higher pumping speeds, backing pump capability & gas throughputs
- protected against particulate matter or oxidizing gases
- integrated drive electronics reduce need for cables
- proven bearing system, improved rotor design
- compact design makes for minimum footprint
- expanded remote & sensor functionalities
- installation in any orientation
- reduced run-up time
- on-site bearing changes
- quiet operation


## Applications

- mass spectrometry • residual gas analysis • coating (PVD, CVD)
- beamline implantation • transfer chambers • load locks • handling systems • harddisc coating • photovoltaics • CD, DVD, Blu Ray manufacturing • optical coating • wear protection • medical technology
- electron beam welding • nuclear research • plasma research • particle accelerators • cryo technology • nano technology • bio technology