PROVAC SALES
PHONE: 831-462-8900 FAX: 831-462-3536 WWW.PROVAC.COM

# Pfeiffer HiPace 700P

## Technical Specifications

| | HiPace® 700 P with TC 400, DN 160 ISO-F |
|---|---|
| Bearing | Hybrid |
| Compression ratio for Ar | > $1 \cdot 10^{7}$ |
| Compression ratio for $H_2$ | $4 \cdot 10^{2}$ |
| Compression ratio for He | $3 \cdot 10^{3}$ |
| Compression ratio for $N_2$ | > $1 \cdot 10^{6}$ |
| Connection flange (in) | DN 160 ISO-F |
| Connection flange (out) | DN 25 ISO-KF/G ¼" |
| Cooling method, optional | Air |
| Cooling method, standard | Water |
| Cooling water flow | 100 l/h |
| Cooling water flow, max. | 100 l/h |
| Cooling water flow, min. | 100 l/h |
| Cooling water temperature | 15-35 °C \| 59-95 °F \| 288-308 K |
| Current max. | 8,75 A |
| Electronic drive unit | with TC 400 |
| Final pressure without gas ballast | $1 \cdot 10^{-7}$ hPa \| $7.5 \cdot 10^{-8}$ Torr \| $1 \cdot 10^{-7}$ mbar |
| Fore-vacuum max. for $N_2$ | 1.1 hPa \| 0.82 Torr \| 1.1 mbar |
| Gas throughput at full rotational speed for Ar | 1 hPa·l/s |
| Gas throughput at full rotational speed for $H_2$ | 6 hPa·l/s |
| Gas throughput at full rotational speed for He | 4 hPa·l/s |
| Gas throughput at full rotational speed for $N_2$ | 2 hPa·l/s |
| I/O interfaces | RS-485, Remote |
| Interface, extended | Profibus, DeviceNet, E74 |
| Mounting orientation | Any |
| Operating voltage: V DC | 48 (± 5 %) V DC |
| Particulate matter | YES |
| Permissible radial magnetic field max. | 6 mT |
| Power consumption max. | 420 W |
| Protection category | IP54 |
| Pumping speed for Ar | 650 l/s |
| Pumping speed for $H_2$ | 275 l/s |
| Pumping speed for He | 550 l/s |
| Pumping speed for $N_2$ | 670 l/s |
| Rotation speed ± 2 % | 49,200 rpm \| 49,200 $min^{-1}$ |
| Run-up time | 1.6 min |
| Sound pressure level | ≤50 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 | 11.4 kg \| 25.13 lb |

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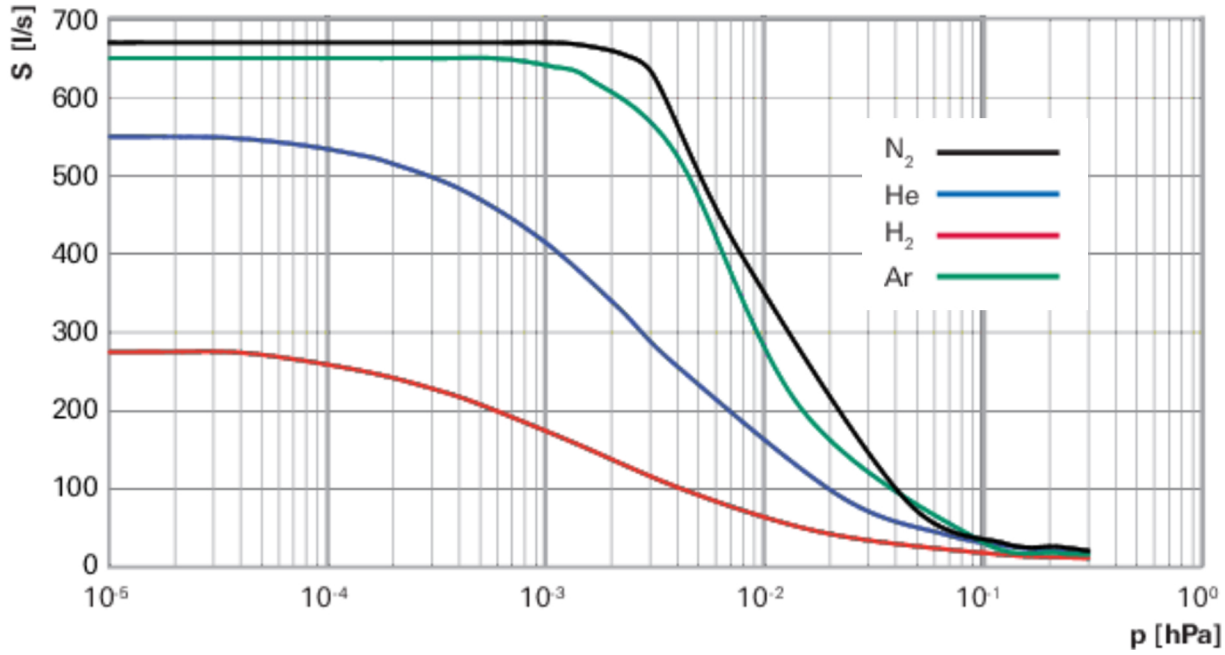
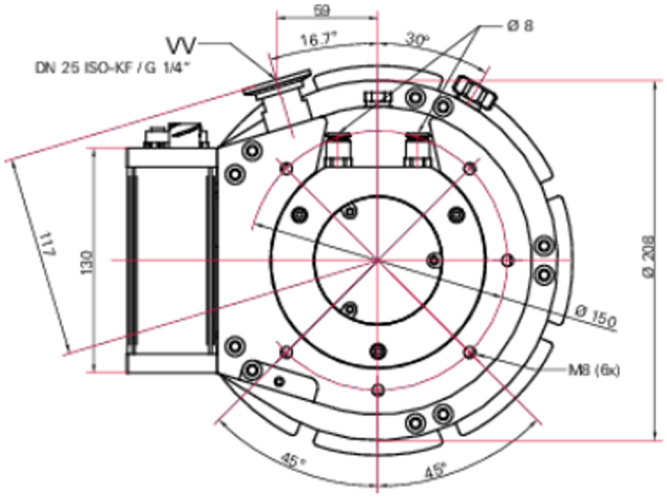
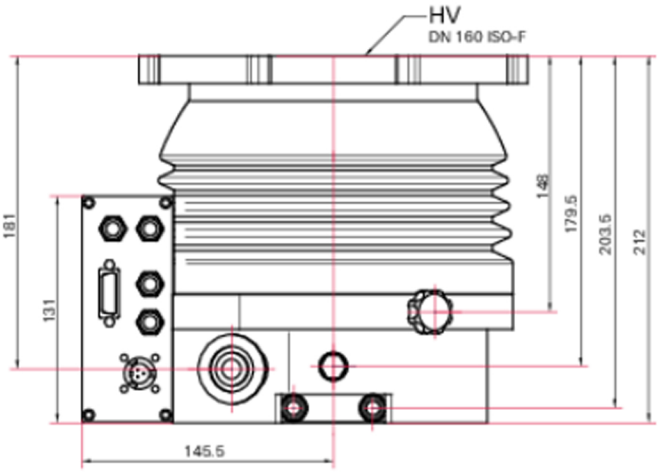
## Pumping Curves




## 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
- compact design makes for minimum footprint
- proven bearing system, improved rotor design
- expanded remote & sensor functionalities
- installation in any orientation
- reduced run-up time
- on-site bearing changes
- quiet operation

## Applications

- electron microscopy • leak detection • mass spectrometry • surface analysis • residual gas analysis • coating (PVD/CVD) • beamline implantation • inspection • bonding • transfer chambers & load-locks
- handling systems • harddisc coating • photovoltaics • CD/DVD/Blu Ray manufacturing • optical coating • wear protection • medical technology
- electron beam welding • lamp & tube manufacturing • nuclear & plasma research • particle accelerators • cryo/nano/bio technology