



HiPace[®] 1500

Powerful turbopumps with pumping speeds of up to 1450 l/s.





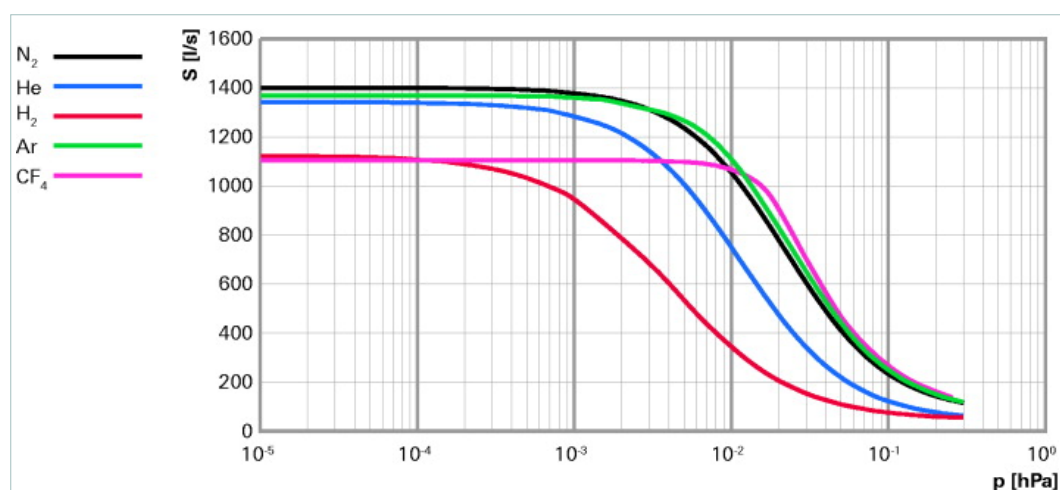
Similar Image

HiPace® 1500 U C with TC 1200, DN 250 ISO-F, upside down version, corrosive

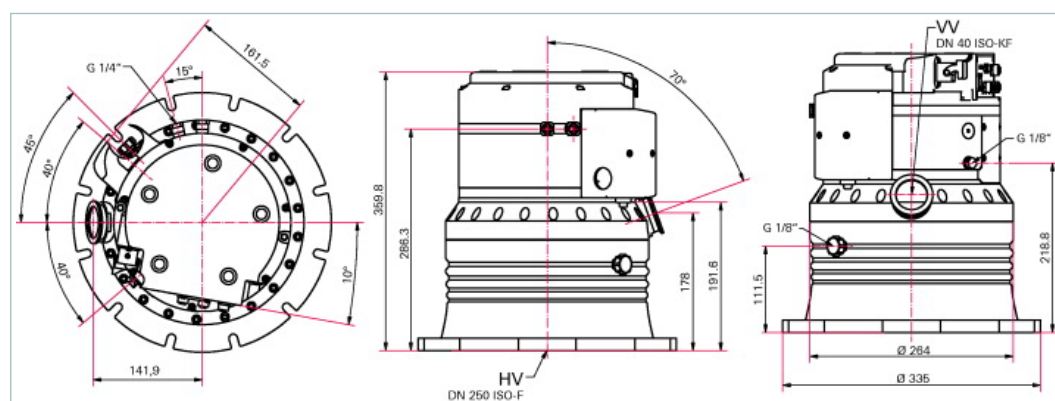
- Powerful turbopump with a pumping speed of up to 1450 l/s for N₂
- DN 250 ISO-F flange
- Integrated TC 1200 drive electronics with power supply
- Integrated sealing gas system with electric sealing gas valve 24 V DC
- Cooling: Water cooling
- Corrosive gas version
- Installation orientation: Upside-down (90° - 180°)
- Protection Class: IP 54
- Interfaces: RS-485, Remote (Profibus/DeviceNet on request)
- Extensive accessories expand the range of applications

C = Corrosive gas version

U = Upside-down installation orientation



Dimensions



Technical Data

HiPace® 1500 U C with TC 1200, DN 250 ISO-F, upside down version, corrosive

| | |
|---------------------------------------|------------------|
| Bearing | Hybrid |
| Compression ratio for Ar | $> 1 \cdot 10^8$ |
| Compression ratio for CF ₄ | $> 1 \cdot 10^8$ |
| Compression ratio for H ₂ | $6 \cdot 10^3$ |
| Compression ratio for He | $2 \cdot 10^5$ |

| Technical Data | | HiPace® 1500 U C with TC 1200, DN 250 ISO-F, upside down version, corrosive |
|---|--|--|
| Compression ratio for N ₂ | | > 1 · 10 ⁸ |
| Cooling method, standard | | Water |
| Cooling water consumption | | 100 l/h |
| Cooling water temperature | | 15-35 °C 59-95 °F 288-308 K |
| Corrosive gas version | | yes |
| Electronic drive unit | | with TC 1200 |
| Flange (in) | | DN 250 ISO-F |
| Flange (out) | | DN 40 ISO-KF |
| Fore-vacuum max. for N ₂ | | 2 hPa 1.5 Torr 2 mbar |
| Gas throughput at full rotational speed for Ar | | 11 hPa l/s 8.25 Torr l/s 11 mbar l/s |
| Gas throughput at full rotational speed for CF ₄ | | 12 hPa l/s 9 Torr l/s 12 mbar l/s |
| Gas throughput at full rotational speed for H ₂ | | > 30 hPa l/s > 22.5 Torr l/s > 30 mbar l/s |
| Gas throughput at full rotational speed for He | | > 30 hPa l/s > 22.5 Torr l/s > 30 mbar l/s |
| Gas throughput at full rotational speed for N ₂ | | 20 hPa l/s 15 Torr l/s 20 mbar l/s |
| Integrated power supply | | yes |
| Interfaces | | RS-485, Remote |
| Mounting orientation | | Upside down (90°-180°) |
| Operating voltage | | 100-120/200-240 V AC, 50/60 Hz |
| Particulate matter | | yes |
| Permissible magnetic field max. | | 6 mT |
| Protection category | | IP 54 |
| Pumping speed for Ar | | 1350 l/s |
| Pumping speed for CF ₄ | | 1100 l/s |
| Pumping speed for H ₂ | | 1150 l/s |
| Pumping speed for He | | 1350 l/s |
| Pumping speed for N ₂ | | 1400 l/s |
| Rotation speed ± 2 % | | 37800 min ⁻¹ |
| Rotation speed variable | | 50-100 % |
| Run-up time | | 2.5 min |
| Sound pressure level | | ≤ 50 dB (A) |
| Ultimate pressure according to PNEUROP | | < 1 · 10 ⁻⁷ hPa < 7.5 · 10 ⁻⁸ Torr < 1 · 10 ⁻⁷ mbar |
| Venting connection | | G /18" |
| Weight | | 30 kg 66.14 lb |

| Order number | |
|--------------|------------|
| HiPace® 1500 | PM P04 069 |

| Accessories | |
|---|---------------|
| Accessory for TC 400/1200 and TM 700 | |
| Y-connector, shielded, M12 for accessories | P 4723 013 |
| Adapter and control cables | |
| Control cable for pumping stations 0.7 m | PM 061 675 AT |
| HiPace - ACP connection cable | PM 071 142 -X |
| Control and display units | |
| Accessories package for HPU 001/PC | PM 061 005 -T |
| DCU 002, Display Control Unit | PM 061 348 -T |
| HPU 001, Handheld Programming Unit | PM 051 510 -T |
| DN ISO-F, Mounting kit | |
| Mounting kit for DN 250 ISO-F, including coated centering ring, hexagon screws | PM 016 480 -T |
| Mounting kit for DN 250 ISO-F, including coated centering ring, protective screen, hexagon screws | PM 016 482 -T |
| Mounting kit for DN 250 ISO-F, including coated centering ring, protective screen, stud screws | PM 016 487 -T |
| Mounting kit for DN 250 ISO-F, including coated centering ring, splinter shield, hexagon screws | PM 016 481 -T |
| Mounting kit for DN 250 ISO-F, including coated centering ring, splinter shield, stud screws | PM 016 486 -T |
| Mounting kit for DN 250 ISO-F, including coated centering ring, stud screws | PM 016 485 -T |
| DN ISO-K / -F, sealings, splinter shields, protection screens | |
| Centering ring with multifunction coating, DN 250 ISO-K/-F | PM 016 225 -U |
| Centering ring with multifunction coating and integrated protection screen, DN 250 ISO-K/-F | PM 016 227 -U |
| Centering ring with multifunction coating and integrated splinter shield, DN 250 ISO-K/-F | PM 016 226 -U |
| Fore-vacuum safety valves | |
| TVV 001 fore-vacuum safety valve, 115 V AC | PM Z01 206 |
| TVV 001 fore-vacuum safety valve, 230 V AC | PM Z01 205 |
| Interface and extension cables | |
| Interface cable, M12 m straight/M12 m straight, 3 m | PM 061 283 -T |
| Mains cables | |
| Mains cable 115 V AC, NEMA 5-15 to HAN 3A, 3 m | PM 061 187 -X |
| Mains cable 208 V AC, NEMA 6-15 to HAN 3A, 3 m | P 4564 309 HB |
| Mains cable 230 V AC, CEE 7/7 to HAN 3A, 3 m | P 4564 309 HA |
| Relay boxes | |
| Relay box, shielded, for backing pumps, 1-phase 20 A for TC 400/1200, TM 700 and TCP 350, M12 | PM 071 285 -X |
| RS-485 | |
| USB converter to RS-485 interface | PM 061 207 -T |
| Y-Connector M12 to RS-485 | P 4723 010 |
| Sealing gas | |
| Sealing gas throttle for HiPace 400/700/800 P and C version and HiPace 1200 - 2300 | PM Z01 318 |
| Sealing gas valve, shielded, HiPace 400/700/800 P and C with TC 400 and HiPace 1200 - 2300 with TC 1200 | PM Z01 313 |
| Venting accessory with small flange, G 1/8", hoses, air drier | |
| TTV 001, dryer for venting turbopumps | PM Z00 121 |

| Accessories | |
|--|-------------------|
| Venting valve (normally closed) | |
| Venting valve, shielded, 24 V DC, G 1/8", for connection to TC 400/1200 and TM 700 | PM Z01 291 |