



# HiPace<sup>®</sup> 1800

Powerful turbopumps with pumping speeds of up to 1700 l/s.





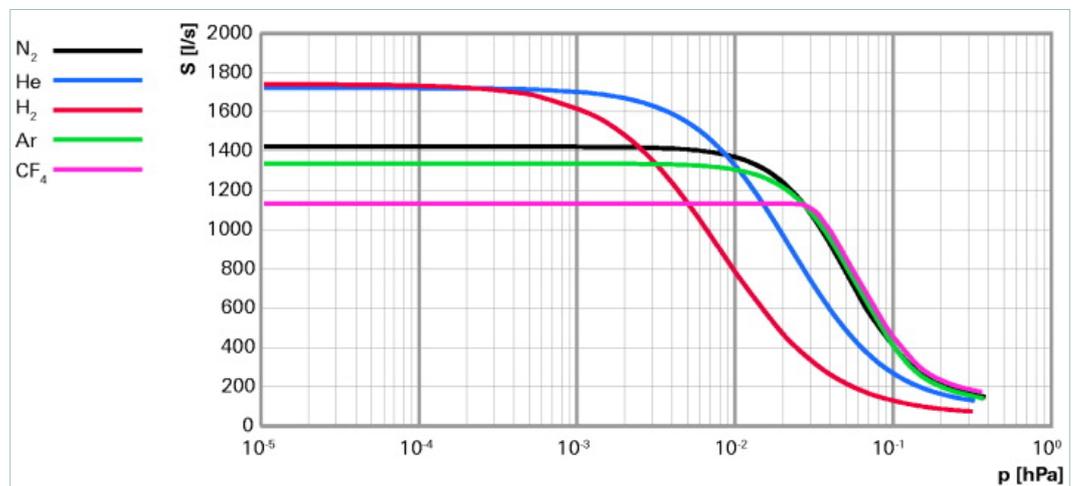
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## HiPace® 1800 C with TC 1200, DN 200 ISO-K, corrosive

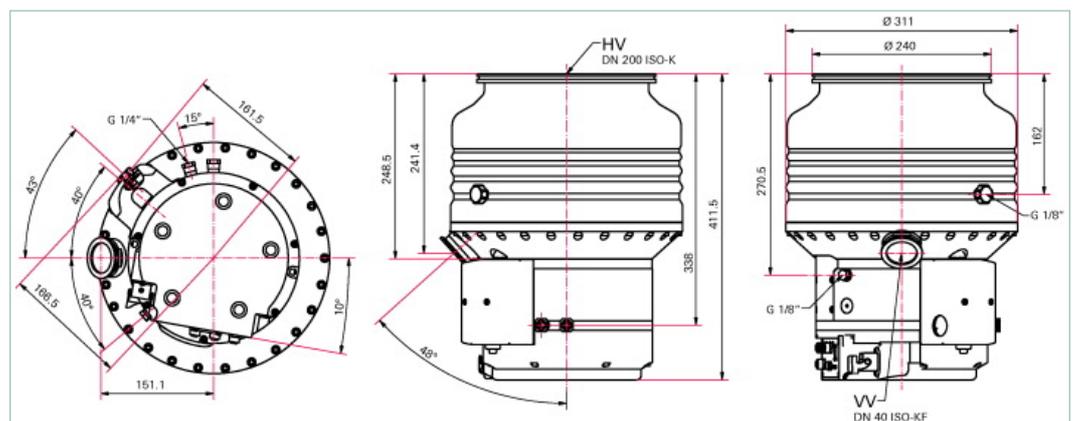
- Powerful turbopump with a pumping speed of up to 1450 l/s for N<sub>2</sub>
- DN 200 ISO-K flange
- Integrated TC 1200 drive electronics with power supply
- Integrated sealing gas system with electric sealing gas valve 24 V DC
- Cooling: Water cooling
- Protection Class: IP 54
- Interfaces: RS-485, 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® 1800 C with TC 1200, DN 200 ISO-K, corrosive

Bearing	Hybrid
Compression ratio for Ar	$> 1 \cdot 10^8$
Compression ratio for CF <sub>4</sub>	$> 1 \cdot 10^8$
Compression ratio for H <sub>2</sub>	$2 \cdot 10^4$
Compression ratio for He	$3 \cdot 10^5$
Compression ratio for N <sub>2</sub>	$> 1 \cdot 10^8$
Cooling method, standard	Water
Cooling water consumption	100 l/h

Technical Data	HiPace® 1800 C with TC 1200, DN 200 ISO-K, corrosive
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 200 ISO-K
Flange (out)	DN 40 ISO-KF
Fore-vacuum max. for N <sub>2</sub>	1.8 hPa   1.35 Torr   1.8 mbar
Gas throughput at full rotational speed for Ar	16 hPa l/s   12 Torr l/s   16 mbar l/s
Gas throughput at full rotational speed for CF <sub>4</sub>	14 hPa l/s   10.5 Torr l/s   14 mbar l/s
Gas throughput at full rotational speed for H <sub>2</sub>	> 30 hPa l/s   > 22.5 Torr l/s   > 30 mbar l/s
Gas throughput at full rotational speed for He	20 hPa l/s   15 Torr l/s   20 mbar l/s
Gas throughput at full rotational speed for N <sub>2</sub>	20 hPa l/s   15 Torr l/s   20 mbar l/s
Integrated power supply	yes
Interfaces	RS-485, Remote
Mounting orientation	Standard (0°-90°)
Operating voltage	100-120/200-240 V AC, 50/60 Hz
Particulate matter	yes
Permissible magnetic field max.	7 mT
Protection category	IP 54
Pumping speed for Ar	1370 l/s
Pumping speed for H <sub>2</sub>	1700 l/s
Pumping speed for He	1650 l/s
Pumping speed for N <sub>2</sub>	1450 l/s
Rotation speed ± 2 %	31500 min <sup>-1</sup>
Rotation speed variable	50-100 %
Run-up time	4 min
Sound pressure level	≤ 50 dB (A)
Ultimate pressure according to PNEUROP	< 1 · 10 <sup>-7</sup> hPa   < 7.5 · 10 <sup>-8</sup> Torr   < 1 · 10 <sup>-7</sup> mbar
Venting connection	G 1/8"
Weight	33 kg   72.75 lb

Order number	
HiPace® 1800	PM P04 076

<b>Accessories</b>	
<b>Accessory for TC 400/1200 and TM 700</b>	
Y-connector, shielded, M12 for accessories	<b>P 4723 013</b>
<b>Adapter and control cables</b>	
Control cable for pumping stations 0.7 m	<b>PM 061 675 AT</b>
HiPace - ACP connection cable	<b>PM 071 142 -X</b>
<b>Control and display units</b>	
Accessories package for HPU 001/PC	<b>PM 061 005 -T</b>
DCU 002, Display Control Unit	<b>PM 061 348 -T</b>
HPU 001, Handheld Programming Unit	<b>PM 051 510 -T</b>
<b>DN ISO-K, Mounting kit, bracket screws</b>	
Mounting kit for HiPace 1800, DN 200 ISO-K, including coated centering ring, bracket screws	<b>PM 016 410 -T</b>
Mounting kit for HiPace 1800, DN 200 ISO-K, including coated centering ring, protection screen, bracket screws	<b>PM 016 412 -T</b>
Mounting kit for HiPace 1800, DN 200 ISO-K, including coated centering ring, splinter shield, bracket screws	<b>PM 016 411 -T</b>
<b>DN ISO-K / -F, sealings, splinter shields, protection screens</b>	
Centering ring with multifunction coating, DN 200 ISO-K/-F	<b>PM 016 220 -U</b>
Centering ring with multifunction coating and integrated protection screen, DN 200 ISO-K/-F	<b>PM 016 222 -U</b>
Centering ring with multifunction coating and integrated splinter shield, DN 200 ISO-K/-F	<b>PM 016 221 -U</b>
<b>Fore-vacuum safety valves</b>	
TVV 001 fore-vacuum safety valve, 115 V AC	<b>PM Z01 206</b>
TVV 001 fore-vacuum safety valve, 230 V AC	<b>PM Z01 205</b>
<b>Interface and extension cables</b>	
Interface cable, M12 m straight/M12 m straight, 3 m	<b>PM 061 283 -T</b>
<b>Mains cables</b>	
Mains cable 115 V AC, NEMA 5-15 to HAN 3A, 3 m	<b>PM 061 187 -X</b>
Mains cable 208 V AC, NEMA 6-15 to HAN 3A, 3 m	<b>P 4564 309 HB</b>
Mains cable 230 V AC, CEE 7/7 to HAN 3A, 3 m	<b>P 4564 309 HA</b>
<b>Relay boxes</b>	
Relay box, shielded, for backing pumps, 1-phase 20 A for TC 400/1200, TM 700 and TCP 350, M12	<b>PM 071 285 -X</b>
<b>RS-485</b>	
USB converter to RS-485 interface	<b>PM 061 207 -T</b>
Y-Connector M12 to RS-485	<b>P 4723 010</b>
<b>Sealing gas</b>	
Sealing gas throttle for HiPace 400/700/800 P and C version and HiPace 1200 - 2300	<b>PM Z01 318</b>
Sealing gas valve, shielded, HiPace 400/700/800 P and C with TC 400 and HiPace 1200 - 2300 with TC 1200	<b>PM Z01 313</b>
<b>Venting accessory with small flange, G 1/8", hoses, air drier</b>	
TTV 001, dryer for venting turbopumps	<b>PM Z00 121</b>
<b>Venting valve (normally closed)</b>	
Venting valve, shielded, 24 V DC, G 1/8", for connection to TC 400/1200 and TM 700	<b>PM Z01 291</b>
<b>Vibration damper</b>	
Vibration damper for HiPace 800/1200/1800, DN 200 ISO-K/F	<b>PM 006 668 -X</b>