



HiPace[®] 1800

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



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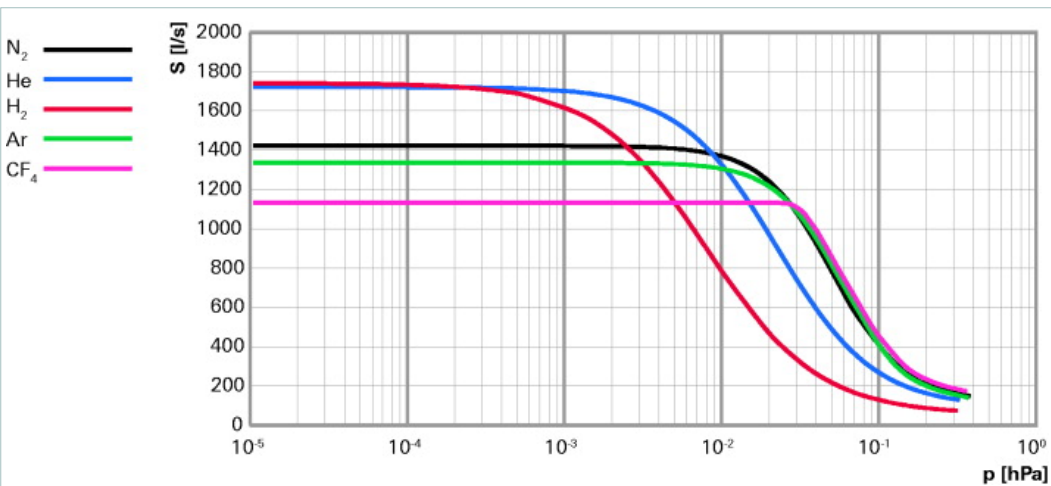
Similar Image

HiPace® 1800 U with TC 1200, DN 200 ISO-K, upside down version

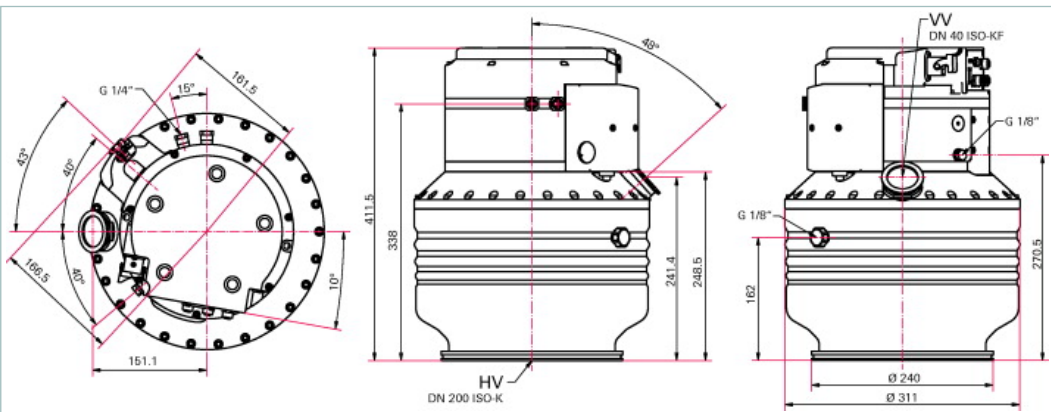
- Powerful turbopump with a pumping speed of up to 1450 l/s for N₂
- DN 200 ISO-K flange
- Integrated TC 1200 drive electronics with power supply
- Integrated sealing gas system with electric sealing gas valve 24 V DC
- Cooling: Water cooling
- Installation orientation: Upside-down (90° - 180°)
- Protection Class: IP 54
- Interfaces: Profibus, RS-485, Remote
- Extensive accessories expand the range of applications

C = Corrosive gas version

U = Upside-down installation orientation



Dimensions



Technical Data	HiPace® 1800 U with TC 1200, DN 200 ISO-K, upside down version
Bearing	Hybrid
Compression ratio for Ar	$> 1 \cdot 10^8$
Compression ratio for H ₂	$2 \cdot 10^4$
Compression ratio for He	$3 \cdot 10^5$
Compression ratio for N ₂	$> 1 \cdot 10^8$
Cooling method, standard	Water

Technical Data		HiPace® 1800 U with TC 1200, DN 200 ISO-K, upside down version
Cooling water consumption		100 l/h
Cooling water temperature		15-35 °C 59-95 °F 288-308 K
Electronic drive unit		with TC 1200
Flange (in)		DN 200 ISO-K
Flange (out)		DN 40 ISO-KF
Fore-vacuum max. for N ₂		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 H ₂		> 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 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.		7 mT
Protection category		IP 54
Pumping speed for Ar		1370 l/s
Pumping speed for H ₂		1700 l/s
Pumping speed for He		1650 l/s
Pumping speed for N ₂		1450 l/s
Rotation speed ± 2 %		31500 min ⁻¹
Rotation speed variable		50-100 %
Run-up time		4 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 1/8"
Weight		33 kg 72.75 lb
Order number		
HiPace® 1800		PM P04 073

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-K, Mounting kit, bracket screws	
Mounting kit for HiPace 1800, DN 200 ISO-K, including coated centering ring, bracket screws	PM 016 410 -T
Mounting kit for HiPace 1800, DN 200 ISO-K, including coated centering ring, protection screen, bracket screws	PM 016 412 -T
Mounting kit for HiPace 1800, DN 200 ISO-K, including coated centering ring, splinter shield, bracket screws	PM 016 411 -T
DN ISO-K / -F, sealings, splinter shields, protection screens	
Centering ring with multifunction coating, DN 200 ISO-K/-F	PM 016 220 -U
Centering ring with multifunction coating and integrated protection screen, DN 200 ISO-K/-F	PM 016 222 -U
Centering ring with multifunction coating and integrated splinter shield, DN 200 ISO-K/-F	PM 016 221 -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
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
Vibration damper	
Vibration damper for HiPace 800/1200/1800, DN 200 ISO-K/F	PM 006 668 -X