



# HiPace<sup>®</sup> 800

Maximum vacuum performance in a compact design with a pumping speed of 790 l/s for N<sub>2</sub>

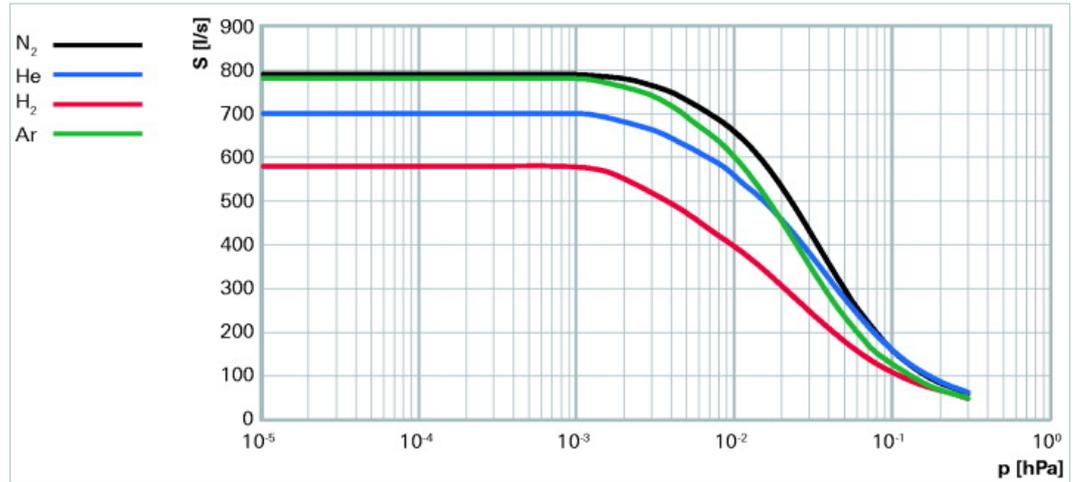




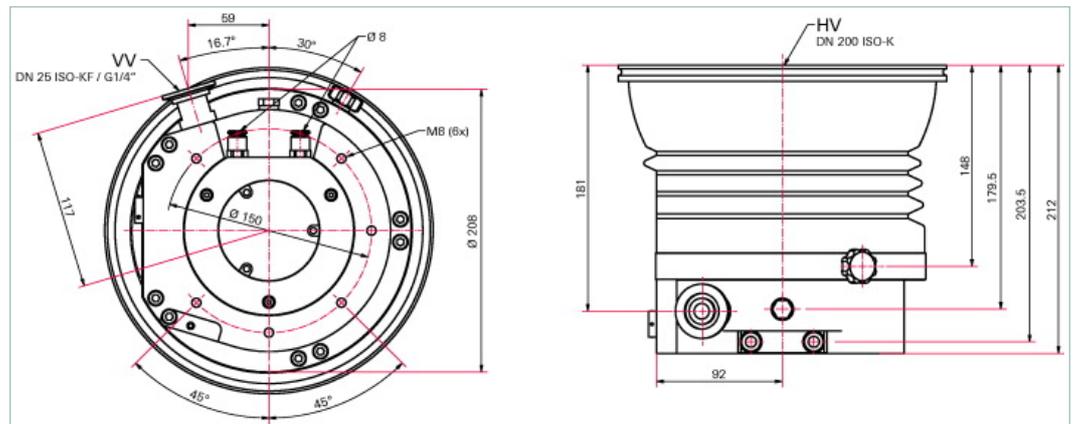
Similar Image

## HiPace® 800 with TCP 350, DN 200 ISO-K

- Compact yet powerful turbopump with a pumping speed of up to 790 l/s für N<sub>2</sub>
- Maximum vacuum performance with minimum power consumption
- For installation in any orientation
- External TCP 350 drive electronics
- Integrated, powerful cooling system



### Dimensions



Technical Data	HiPace® 800 with TCP 350, DN 200 ISO-K
Bearing	Hybrid
Compression ratio for Ar	$> 1 \cdot 10^{11}$
Compression ratio for H <sub>2</sub>	$4 \cdot 10^5$
Compression ratio for He	$3 \cdot 10^7$
Compression ratio for N <sub>2</sub>	$> 1 \cdot 10^{11}$
Cooling method, optional	Air
Cooling method, standard	Water
Cooling water consumption	100 l/h
Cooling water temperature	15-35 °C   59-95 °F   288-308 K
Electronic drive unit	TCP 350
Flange (in)	DN 200 ISO-K / G 1/4"
Flange (out)	DN 25 KF
Fore-vacuum max. for Ar	11 hPa   8.25 Torr   11 mbar
Fore-vacuum max. for H <sub>2</sub>	6 hPa   4.5 Torr   6 mbar
Fore-vacuum max. for He	13 hPa   9.75 Torr   13 mbar
Fore-vacuum max. for N <sub>2</sub>	10 hPa   7.5 Torr   10 mbar

Technical Data	HiPace® 800 with TCP 350, DN 200 ISO-K
Gas throughput at full rotational speed for Ar	1.5 hPa l/s   1.12 Torr l/s   1.5 mbar l/s
Gas throughput at full rotational speed for H <sub>2</sub>	> 8 hPa l/s   > 6 Torr l/s   > 8 mbar l/s
Gas throughput at full rotational speed for He	5 hPa l/s   3.75 Torr l/s   5 mbar l/s
Gas throughput at full rotational speed for N <sub>2</sub>	3 hPa l/s   2.25 Torr l/s   3 mbar l/s
Interface, extended	Profibus, DeviceNet, E74
Interfaces	RS-485, Remote
Mounting orientation	in any orientation
Permissible magnetic field max.	6 mT
Protection category	IP 54
Pumping speed for Ar	780 l/s
Pumping speed for H <sub>2</sub>	580 l/s
Pumping speed for He	700 l/s
Pumping speed for N <sub>2</sub>	790 l/s
Rotation speed ± 2 %	49200 min <sup>-1</sup>
Rotation speed variable	60-100 %
Run-up time	5.5 min
Separate electronic drive unit	yes
Sound pressure level	50 dB (A)
Venting connection	G 1/8"
Weight	11.9 kg   26.23 lb

Order number	
HiPace® 800	PM P04 670

<b>Accessories</b>	
<b>Accessory external drive units</b>	
Adapter cable, TCP 350 - backing pump relay box, M12	PM 061 377 -T
<b>Air cooling</b>	
Air cooling for HiPace 400/700 and 800 with TC 400	PM Z01 303
<b>Connection cables</b>	
Connection cable from TCP 350 to HiPace with 2 accessory ports M12, 3 m	PM 061 356 -T
<b>Control and display units</b>	
RJ 45 interface cable on M12 for HiPace	PM 051 726 -T
<b>DN ISO-K, Mounting kit, bracket screws</b>	
Mounting kit for HiPace 800, DN 200 ISO-K, including coated centering ring, protection screen, bracket screws	PM 016 356 -T
Mounting kit for HiPace 800, DN 200 ISO-K, including coated centering ring, splinter shield, bracket screws	PM 016 355 -T
Mounting kit for HiPace 800, DN 200 ISO-K, including coated centering ring and bracket screws	PM 016 354 -T
<b>DN ISO-K / -F, sealings, splinter shields, protection screens</b>	
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
<b>External drive units</b>	
TCP 350 DN, drive electronics, DeviceNet	PM C01 742
TCP 350 electronic drive unit	PM C01 740
TCP 350 PB, drive electronics, Profibus	PM C01 741
<b>Fore-vacuum safety valves</b>	
TVV 001 fore-vacuum safety valve, 115 V AC	PM Z01 206
TVV 001 fore-vacuum safety valve, 230 V AC	PM Z01 205
<b>Heating suitable for TC 110 and TC 400</b>	
Heating jacket for HiPace 400/700/800 with TC 400, 115 V AC, UL plug	PM 061 371 -T
Heating jacket for HiPace 400/700/800 with TC 400, 208 V AC, UL plug	PM 061 370 -T
Heating jacket for HiPace 400/700/800 with TC 400, 230 V AC, safety plug	PM 061 369 -T
<b>Mains cables</b>	
Mains cable 115 V AC, NEMA 5-15 to C13, 3 m	P 4564 309 ZE
Mains cable 208 V AC, NEMA 6-15 to C13, 3 m	P 4564 309 ZF
Mains cable 230 V AC, CEE 7/7 to C13, 3 m	P 4564 309 ZA
<b>Relay boxes</b>	
Backing pump relay box, single phase 20 A, for TC 400 and TCP 350, M12 plug	PM 061 375 -T
Relay box, shielded, for backing pumps, 1-phase 7 A for TC 400/1200, TM 700 and TCP 350, M12	PM 071 284 -X
<b>RS-485</b>	
Connector M12 to RS-485	PM 061 270 -X
Power separator for RS-485	PT 348 132 -T
Termination resistor for RS-485	PT 348 105 -T
USB converter to RS-485 interface	PM 061 207 -T
<b>Sealing gas</b>	
Sealing gas throttle for HiPace 300 - 800	PM Z01 317
Sealing gas valve, shielded for HiPace 300/400/700 and 800 with TC 400 and TM 700	PM Z01 312

<b>Accessories</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>