



# HiPace<sup>®</sup> 800

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

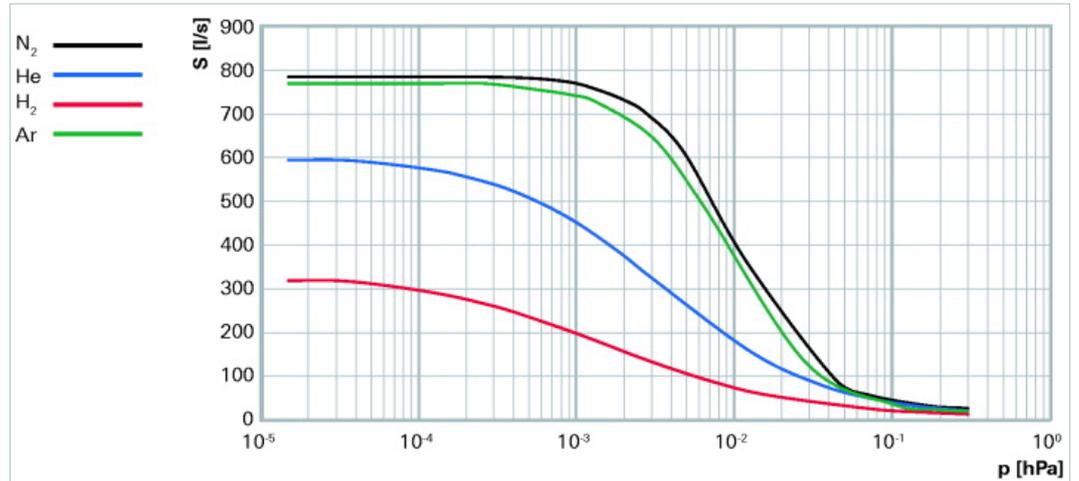




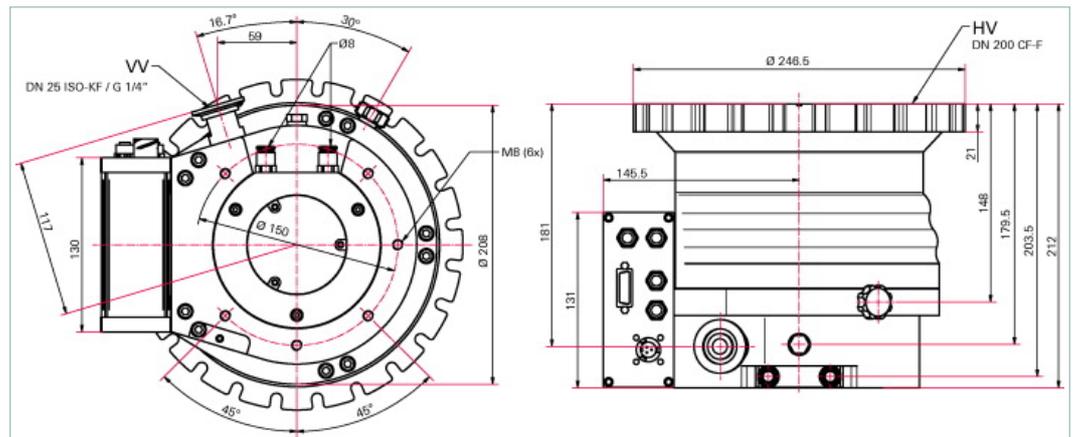
Similar Image

## HiPace® 800 P with TC 400, DN 200 CF-F

- Compact yet powerful turbopump with a pumping speed of up to 790 l/s for N<sub>2</sub>
- DN 200 CF-F



### Dimensions



Technical Data	HiPace® 800 P with TC 400, DN 200 CF-F
Bearing	Hybrid
Compression ratio for Ar	$> 1 \cdot 10^7$
Compression ratio for H <sub>2</sub>	$4 \cdot 10^2$
Compression ratio for He	$3 \cdot 10^3$
Compression ratio for N <sub>2</sub>	$> 1 \cdot 10^6$
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	with TC 400
Flange (in)	DN 200 CF-F
Flange (out)	DN 25 ISO-KF / G 1/4"
Fore-vacuum max. for N <sub>2</sub>	1.1 hPa   0.82 Torr   1.1 mbar
Gas throughput at full rotational speed for Ar	2 hPa l/s   1.5 Torr l/s   2 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>	2.5 hPa l/s   1.88 Torr l/s   2.5 mbar l/s
Interfaces	RS-485, Remote

Technical Data	HiPace® 800 P with TC 400, DN 200 CF-F
Mounting orientation	in any orientation
Operating voltage	48 (± 5 %) V DC
Particulate matter	yes
Permissible magnetic field max.	6 mT
Protection category	IP 54
Pumping speed for Ar	770 l/s
Pumping speed for H <sub>2</sub>	320 l/s
Pumping speed for He	595 l/s
Pumping speed for N <sub>2</sub>	785 l/s
Rotation speed ± 2 %	49200 min <sup>-1</sup>
Rotation speed variable	60-100 %
Run-up time	1.6 min
Sound pressure level	50 dB (A)
Ultimate pressure according to PNEUROP	< 5 · 10 <sup>-10</sup> hPa   < 3.75 · 10 <sup>-10</sup> Torr   < 5 · 10 <sup>-10</sup> mbar
Venting connection	G 1/8"
Weight	18.9 kg   41.67 lb

Order number	
HiPace® 800	PM P04 791

<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>Air cooling</b>	
Air cooling for HiPace 400/700 and 800 with TC 400	<b>PM Z01 303</b>
<b>CF-F, Mounting kit</b>	
Set of hexagon screws for through hole, DN 200 CF-F	<b>PM 016 687 -T</b>
Set of stud screws for through hole, DN 200 CF-F	<b>PM 016 688 -T</b>
<b>CF-F, Sealings, splinter shields, protection screens</b>	
Protection screen for DN 200 CF-F	<b>PM 016 342</b>
Splinter shield for turbopumps, DN 200 CF-F	<b>PM 016 321</b>
<b>Connection cables</b>	
Connection cable for HiPace with TC 400/TM 700 to power supply TPS/DCU 310/311/400/401	<b>PM 061 352 -T</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>DCU with integrated power supply</b>	
DCU 400, Display control unit incl. power supply	<b>PM C01 823</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>Heating suitable for TC 110 and TC 400</b>	
Heating jacket for HiPace 400/700/800 with TC 400, 115 V AC, UL plug	<b>PM 061 371 -T</b>
Heating jacket for HiPace 400/700/800 with TC 400, 208 V AC, UL plug	<b>PM 061 370 -T</b>
Heating jacket for HiPace 400/700/800 with TC 400, 230 V AC, safety plug	<b>PM 061 369 -T</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 C13, 3 m	<b>P 4564 309 ZE</b>
Mains cable 208 V AC, NEMA 6-15 to C13, 3 m	<b>P 4564 309 ZF</b>
Mains cable 230 V AC, CEE 7/7 to C13, 3 m	<b>P 4564 309 ZA</b>
<b>Relay boxes</b>	
Backing pump relay box, single phase 20 A, for TC 400 and TCP 350, M12 plug	<b>PM 061 375 -T</b>
Relay box, shielded, for backing pumps, 1-phase 7 A for TC 400/1200, TM 700 and TCP 350, M12	<b>PM 071 284 -X</b>
<b>RS-485</b>	
Connector M12 to RS-485	<b>PM 061 270 -X</b>
Power separator for RS-485	<b>PT 348 132 -T</b>
Termination resistor for RS-485	<b>PT 348 105 -T</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>Accessories</b>	
<b>TPS-19" rack module</b>	
Front panel kit for TPS 401	<b>PM 061 396 -T</b>
TPS 401, power supply 48 V DC, 19" partial plug-in 3HU	<b>PM 061 347 -T</b>
<b>TPS wall rail fitting</b>	
TPS 400, power supply 48 V DC, for wall/standard rail fitting	<b>PM 061 343 -T</b>
Wall rail fitting for TPS 110/180/310/400	<b>PM 061 392 -T</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, DN 200 CF-F	<b>PM 006 669 -X</b>