



# HiPace<sup>®</sup> 700 H with TC 400, DN 160 CF-F



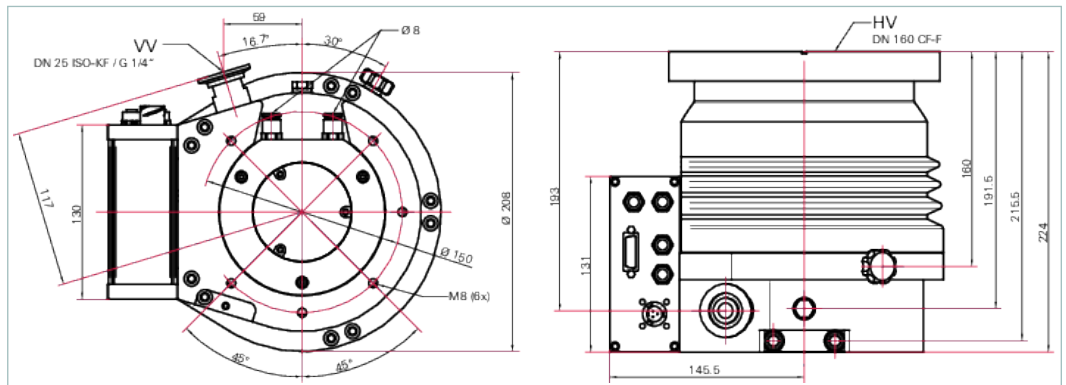


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## HiPace® 700 H with TC 400, DN 160 CF-F

- Compact yet powerful turbopump with a pumping speed of up to 685 l/s for N<sub>2</sub>
- Maximum vacuum performance with minimum power consumption
- Integrated TC 400 drive electronics
- For installation in any orientation
- Integrated, powerful cooling system
- DN 160 CF-F flange for demanding UHV applications

### Dimensions



Technical Data	HiPace® 700 H with TC 400, DN 160 CF-F
Bearing	Hybrid
Compression ratio for Ar	$> 1 \cdot 10^{13}$
Compression ratio for H <sub>2</sub>	$2 \cdot 10^7$
Compression ratio for He	$1 \cdot 10^9$
Compression ratio for N <sub>2</sub>	$> 1 \cdot 10^{13}$
Cooling method, optional	Air
Cooling method, standard	Water
Cooling water flow	100 l/h
Cooling water flow, max	100 l/h
Cooling water flow, min	100 l/h
Cooling water temperature	15-35 °C   59-95 °F   288-308 K
Electronic drive unit	with TC 400
Flange (in)	DN 160 CF-F
Flange (out)	DN 25 ISO-KF
Fore-vacuum max. for N <sub>2</sub>	22 hPa   16.5 Torr   22 mbar
Gas throughput at full rotational speed for Ar	2 hPa·l/s
Gas throughput at full rotational speed for H <sub>2</sub>	14 hPa·l/s
Gas throughput at full rotational speed for He	18 hPa·l/s
Gas throughput at full rotational speed for N <sub>2</sub>	3.5 hPa·l/s
I/O interfaces	RS-485, Remote
Mounting orientation	Any
Permissible magnetic field max.	6 mT
Protection category	IP54
Pumping speed for Ar	665 l/s
Pumping speed for H <sub>2</sub>	555 l/s
Pumping speed for He	655 l/s
Pumping speed for N <sub>2</sub>	685 l/s
Rotation speed ± 2 %	49,200 rpm   49,200 min <sup>-1</sup>
Rotation speed variable	60 – 100 %
Run-up time	2 min

Technical Data		HiPace® 700 H with TC 400, DN 160 CF-F
Sound pressure level		≤ 50 dB(A)
Ultimate pressure		1 · 10 <sup>-10</sup> hPa   7.5 · 10 <sup>-11</sup> Torr   1 · 10 <sup>-10</sup> mbar
Venting connection		G 1/8"
Weight		17.7 kg   39.02 lb
Order number		
HiPace® 700 H		PM P05 751

Accessories	
<b>Adapters (electrical) PV-Can</b>	
TIC 010, Adapter for two sensors	PT R70 000
<b>Adapters (electrical) Remote</b>	
Y-connector, shielded, M12 for accessories	P 4723 013
<b>Adapters (electrical) RS-232/485</b>	
Termination resistor for RS-485	PT 348 105 -T
Power separator for RS-485	PT 348 132 -T
<b>Cables Backing pump control cables</b>	
Control cable for pumping stations 0.7 m	PM 061 675 AT
HiPace – ACP connection cable	PM 071 142 -X
<b>Cables Connection cables</b>	
Connection cable for HiPace with TC 400/TM 700 to power supply pack TPS/DCU 310/311/400/401	PM 061 352 -T
<b>Cables Mains cables / Power cords</b>	
Mains cable 208 V AC, NEMA 6-15 to C13, 3 m	P 4564 309 ZF
<b>Control Devices Backing pump</b>	
Relay box for backing pumps, 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>Control Devices Power supplies and control displays</b>	
Accessories package for HPU 001/PC	PM 061 005 -T
TPS 400, power supply pack 48 V DC, for wall/standard rail fitting	PM 061 343 -T
TPS 401, power supply pack 48 V DC, 19" partial plug-in 3HU	PM 061 347 -T
Front panel kit for TPS 401	PM 061 396 -T
DCU 400, Display control unit incl. power supply pack 19"	PM C01 823
<b>Control Units without Power supply</b>	
HPU 001, Handheld programming unit	PM 051 510 -T
DCU 002, Display Control Unit	PM 061 348 -T
<b>Cooling Air cooling</b>	
Air cooling for HiPace 400/700 and 800 with TC 400	PM Z01 303
<b>FKM cut from sheet material</b>	
Elastomer seal, FKM, DN 160 CF	402DFL160-S2
<b>FKM with centering lip; heat-molded</b>	
Elastomer seal, FKM, DN 160 CF	402DFL160-Z
<b>Heating Heating jackets</b>	
Heating jacket for HiPace 400/700/800 with TC 400, 230 V AC, safety plug	PM 061 369 -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, 115 V AC, UL plug	PM 061 371 -T
<b>Monitoring Pressure Sensors</b>	
RPT 010, Digital Piezo/Pirani Sensor	PT R71 100
IKT 010, Digital cold cathode sensor, low current	PT R72 100
IKT 011, Digital cold cathode sensor, high current	PT R73 100
<b>Monitoring Sealing gas monitoring units</b>	
Sealing gas monitoring unit G 1/8"	PM 016 911 -U

<b>Accessories</b>	
<b>Mounting CF-F, Mounting kits</b>	
Hexagon Screw Set for Flanges with Through-Holes, DN 160 CF-F	PM 016 691 -T
Set of stud screws for flanges with a threaded hole, DN 160 CF-F	PM 016 693 -T
Set of stud screws for flanges with through-hole, DN 160 CF-F	PM 016 735 -T
<b>Mounting Wall rail fittings</b>	
Wall rail fitting for TPS 110/180/310/400	PM 061 392 -T
<b>OFHC Copper (Oxygen Free)</b>	
Copper Gasket, OFHC-copper, DN 160 CF	490DFL160-S5
<b>OFHC Copper (Oxygen Free), Silver-plated</b>	
Copper Gasket, Silver-Plated, DN 160 CF	490DFL160-S-S5
<b>OFHC Copper (Oxygen Free), Silver-plated, Vacuum-annealed</b>	
Copper Gasket, Silver-plated, Vacuum-Annealed, DN 160 CF	490DFL160-S-G-S5
<b>OFHC Copper (Oxygen Free), Vacuum-annealed</b>	
Copper Gasket, Vacuum-annealed, DN 160 CF	490DFL160-G-S5
<b>Protection CF-F, splinter shields, protection screens</b>	
Splinter shield for turbopumps, DN 160 CF-F	PM 016 318
Protection screen for DN 160 CF-F	PM 016 339
<b>Protection Sealing gas throttles</b>	
Sealing gas throttle for HiPace 300	PM Z01 317
<b>Turbopumps</b>	
Mains cable 230 V AC, CEE 7/7 to C13, 3 m	P 4564 309 ZA
Mains cable 115 V AC, NEMA 5-15 to C13, 3 m	P 4564 309 ZE
Y-Connector M12 to RS-485	P 4723 010
USB converter to RS-485 interface	PM 061 207 -T
<b>Turbopumps/Masurement</b>	
Interface cable, M12 m straight/M12 m straight, 3 m	PM 061 283 -T
<b>Valves Fore-vacuum safety valves</b>	
TVV 001, fore-vacuum safety valve, 230 V AC	PM Z01 205
TVV 001, fore-vacuum safety valve, 115 V AC	PM Z01 206
<b>Valves Sealing gas valves, shielded (normally closed)</b>	
Sealing gas valve, shielded for HiPace 300 with TC 400 and TM 700, TCP 350	PM Z01 312
<b>Venting Venting accessories</b>	
TTV 001, Drier for Venting Turbopumps	PM Z00 121
<b>Venting Venting valves (normally closed)</b>	
Venting valve, shielded, 24 V DC, G 1/8", for connection to TC 400/1200 and TM 700	PM Z01 291
<b>Vibration Reduction Vibration dampers</b>	
Vibration damper for HiPace DN 160 CF-F	PM 006 493 -X

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