

HiPace® 700 H with TCP 350, DN 160 ISO-K

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PFEIFFER VACUUM

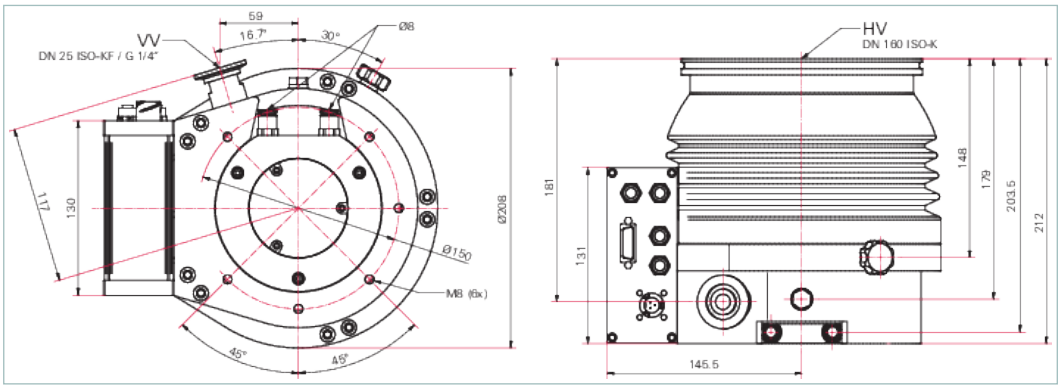
HiPace® 700 H with TCP 350, DN 160 ISO-K



Similar Image

- Compact yet powerful turbopump with a pumping speed of up to 685 l/s for N_2
- 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® 700 H with TCP 350, DN 160 ISO-K
Bearing	Hybrid
Compression ratio for Ar	> $1 \cdot 10^{13}$
Compression ratio for H_2	$2 \cdot 10^{7}$
Compression ratio for He	$1 \cdot 10^{9}$
Compression ratio for N_2	> $1 \cdot 10^{13}$
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 TCP 350
Flange (in)	DN 160 ISO-K
Flange (out)	DN 25 ISO-KF
Fore-vacuum max. for N_2	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_2	14 hPa·l/s
Gas throughput at full rotational speed for He	18 hPa·l/s
Gas throughput at full rotational speed for N_2	3.5 hPa·l/s
Mounting orientation	Any
Permissible magnetic field max.	6 mT
Protection category	IP54
Pumping speed for Ar	665 l/s
Pumping speed for H_2	555 l/s
Pumping speed for He	655 l/s
Pumping speed for N_2	685 l/s
Rotation speed ± 2 %	49,200 rpm | 49,200 min^{-1}
Rotation speed variable	60 – 100 %
Run-up time	2 min
Separate electronic drive unit	Yes
Sound pressure level	≤ 50 dB(A)

Technical Data	HiPace® 700 H with TCP 350, DN 160 ISO-K
Ultimate pressure	$1 \cdot 10^{-7}$ hPa | $7.5 \cdot 10^{-8}$ Torr | $1 \cdot 10^{-7}$ mbar
Ultimate pressure according to PNEUROP	$1 \cdot 10^{-7}$ hPa | $7.5 \cdot 10^{-8}$ Torr | $1 \cdot 10^{-7}$ mbar
Venting connection	G 1/8"
Weight	10.9 kg | 24.03 lb

Order number	
HiPace® 700 H	**PM P05 753**

Accessories	
Adapters (electrical)|Adapters and control cables	
Adapter cable, TCP 350 - backing pump relay box, M12	**PM 061 377 -T**
Adapters (electrical)|RS-232/485	
Termination resistor for RS-485	**PT 348 105 -T**
Power separator for RS-485	**PT 348 132 -T**
Cables|Connection cables	
Connection cable from TCP 350 to HiPace with 2 accessory ports M12, 3 m	**PM 061 356 -T**
Cables|Mains cables / Power cords	
Mains cable 208 V AC, NEMA 6-15 to C13, 3 m	**P 4564 309 ZF**
Control Devices|Backing pump	
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**
Control Devices|External drive units	
TCP 350, drive electronics	**PM C01 740**
TCP 350 PB, drive electronics, Profibus	**PM C01 741**
TCP 350 DN, drive electronics, DeviceNet	**PM C01 742**
Cooling|Air cooling	
Air cooling for HiPace 400/700 and 800 with TC 400	**PM Z01 303**
Mounting|DN ISO-K, Mounting kits, bracket screws	
Mounting kit for HiPace with DN 160 ISO-K, including coated centering ring and bracket screws	**PM 016 375 -T**
Mounting kit for HiPace with DN 160 ISO-K, including coated centering ring, splinter shield and bracket screws	**PM 016 376 -T**
Mounting kit for HiPace with DN 160 ISO-K, including coated centering ring, protection screen, bracket screws	**PM 016 377 -T**
Mounting|DN ISO-K/-F, sealings	
Centering ring with multifunction coating, DN 160 ISO-K/-F	**PM 016 216 -U**
Mounting|DN ISO-K/-F Mounting kits	
Mounting kit for DN 160 ISO-K to ISO-F, with collar flange, coated centering ring, hexagon bolts	**PM 016 950 -T**
Mounting kit for DN 160 ISO-K to ISO-F, with collar flange, coated centering ring with splinter shield, hexagon bolts	**PM 016 951 -T**
Mounting kit for DN 160 ISO-K to ISO-F, with collar flange, coated centering ring with protection screen, hexagon bolts	**PM 016 952 -T**
Mounting kit for DN 160 ISO-K to ISO-F, with collar flange, coated centering ring, stud screws	**PM 016 955 -T**
Mounting kit for DN 160 ISO-K to ISO-F, with collar flange, coated centering ring with splinter shield, stud screws	**PM 016 956 -T**
Mounting kit for DN 160 ISO-K to ISO-F, with collar flange, coated centering ring with protection screen, stud screws	**PM 016 957 -T**

Accessories	
Protection|DN ISO-K/-F, sealings, splinter shields, protection screens	
Centering ring with multifunction coating and integrated splinter shield, DN 160 ISO-K/-F	**PM 016 217 -U**
Centering ring with multifunction coating and integrated protection screen, DN 160 ISO-K/-F	**PM 016 218 -U**
Protection|Sealing gas throttles	
Sealing gas throttle for HiPace 300	**PM Z01 317**
Turbopumps	
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**
Turbopumps/Measurement	
Interface cable, M12 m straight/M12 m straight, 3 m	**PM 061 283 -T**
Valves|Fore-vacuum safety valves	
TVV 001, fore-vacuum safety valve, 230 V AC	**PM Z01 205**
TVV 001, fore-vacuum safety valve, 115 V AC	**PM Z01 206**
Valves|Sealing gas valves, shielded (normally closed)	
Sealing gas valve, shielded for HiPace 300 with TC 400 and TM 700, TCP 350	**PM Z01 312**
Venting|Venting accessories	
TTV 001, Drier for Venting Turbopumps	**PM Z00 121**
Venting|Venting valves (normally closed)	
Venting valve, shielded, 24 V DC, G 1/8", for connection to TC 400/1200 and TM 700	**PM Z01 291**
Vibration Reduction|Vibration dampers	
Vibration damper for HiPace with DN 160 ISO-K/F	**PM 006 492 -X**

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