

HiPace® 300 with TC 400, DN 100 ISO-K

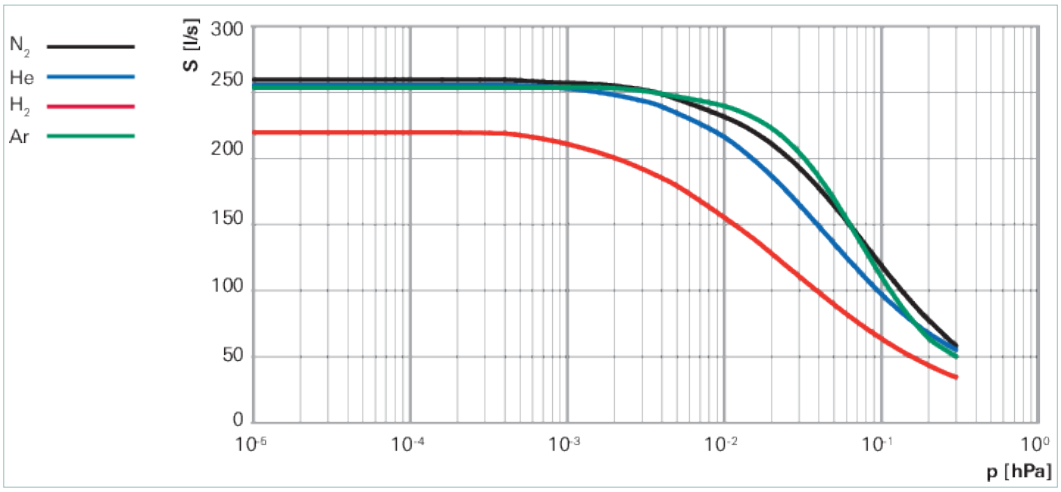
PFEIFFER VACUUM



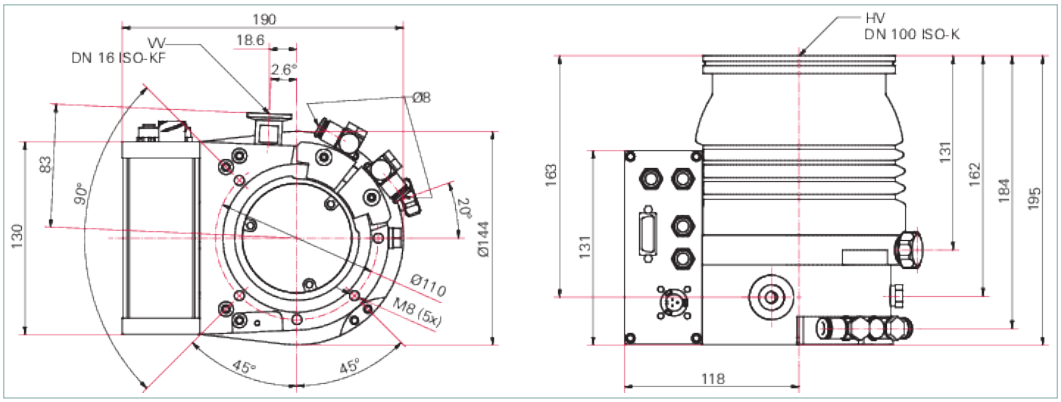
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HiPace® 300 with TC 400, DN 100 ISO-K

- Rugged, powerful turbopump with a pumping speed of up to 260 l/s for N_2
- Integrated TC 400 drive electronics
- Ideal for analytical and industrial applications
- For installation in any orientation
- With integrated water cooling for maximum gas throughput
- Flexible through the ability to employ up to 4 accessories
- Ideal for fast cycles
- Extensive accessories expand the range of applications



Dimensions



Technical Data	HiPace® 300 with TC 400, DN 100 ISO-K
Bearing	Hybrid
Compression ratio for Ar	> $1 \cdot 10^{11}$
Compression ratio for H_2	$9 \cdot 10^5$
Compression ratio for He	> $1 \cdot 10^8$
Compression ratio for N_2	> $1 \cdot 10^{11}$
Cooling method, optional	Air
Cooling method, standard	Water
Cooling water consumption	50 l/h
Cooling water temperature	15-35 °C
Electronic drive unit	with TC 400
Flange (in)	DN 100 ISO-K
Flange (out)	DN 16 ISO-KF / G 1/4"

Technical Data	HiPace® 300 with TC 400, DN 100 ISO-K
Fore-vacuum max. for N_2	20 hPa | 15 Torr | 20 mbar
Gas throughput at full rotational speed for Ar	7 hPa l/s | 5.25 Torr l/s | 7 mbar l/s
Gas throughput at full rotational speed for H_2	> 14 hPa l/s | > 10.5 Torr l/s | > 14 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	14 hPa l/s | 10.5 Torr l/s | 14 mbar l/s
Interfaces	RS-485, Remote
Mounting orientation	in any orientation
Operating voltage	24 (± 5 %) V DC
Permissible magnetic field max.	5.5 mT
Protection category	IP54
Pumping speed for Ar	255 l/s
Pumping speed for H_2	220 l/s
Pumping speed for He	255 l/s
Pumping speed for N_2	260 l/s
Rotation speed ± 2 %	60,000 rpm | 60,000 min^{-1}
Rotation speed variable	35 - 100 %
Run-up time	1.8 min
Ultimate pressure according to PNEUROP	< 1 · 10^{-7} hPa | < 7.5 · 10^{-8} Torr | < 1 · 10^{-7} mbar
Venting connection	G 1/8"
Weight	6.7 kg | 14.77 lb

Order number	
HiPace® 300	**PM P03 900**

Accessories	
Accessories Diaphragm pumps	
Mains cable 115 V AC, NEMA 5-15 to C13, 3 m	**P 4564 309 ZE**
Mains cable 230 V AC, CEE 7/7 to C13, 3 m	**P 4564 309 ZA**
Accessory for DCU/HPU	
Accessories package for HPU 001/PC	**PM 061 005 -T**
RJ 45 interface cable on M12 for HiPace	**PM 051 726 -T**
Adapter and control cables	
Control cable for pumping stations 0.7 m	**PM 061 675 AT**
HiPace - ACP connection cable	**PM 071 142 -X**
Adapters / connections TC 400/1200 and TM 700	
Mains power socket, angled, for TC 400/TM 700	**P 4723 101**
Mains power socket TC 400/TM 700, straight	**P 4723 100**
Y-connector, shielded, M12 for accessories	**P 4723 013**
Air coolings (unshielded)	
Air cooling for HiPace 300 with TC 400	**PM Z01 302**
Air coolings 115/230 V	
Air cooling for HiPace 300/450, 115 V	**PM Z01 308**
Air cooling for HiPace 300/450, 230 V	**PM Z01 309**
Centering ring with multifunctional coating	
Centering ring with multifunction coating, DN 100 ISO-K/-F	**PM 016 210 -U**
Centering ring with multifunctional coating, including protection screen	
Centering ring with multifunction coating and integrated splinter shield, DN 100 ISO-K/-F	**PM 016 211 -U**
Centering ring with multifunctional coating, including splinter shield	
Centering ring with multifunction coating and integrated protection screen, DN 100 ISO-K/-F	**PM 016 212 -U**
Connection cables	
Connection cable for HiPace with TC 400/TM 700 to power supply TPS/DCU 310/311/400/401	**PM 061 352 -T**
Control and display units	
DCU 002, Display Control Unit	**PM 061 348 -T**
HPU 001, Handheld Programming Unit	**PM 051 510 -T**
DCU with integrated power supply	
DCU 310, Display control unit incl. power supply	**PM C01 822**
Extension cables	
Extension cable M12 on M12	**PM 061 747 -T**
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**
Front panel kit as spare part	
Front panel kit for TPS 311	**PM 061 395 -T**
Interface cables	
Interface cable, M12 m straight/ M12 m angled 0.7 m	**PM 061 791 -T**
Interface cable, M12 m straight/M12 m straight, 3 m	**PM 061 283 -T**
Mains cables	
Mains cable 208 V AC, NEMA 6-15 to C13, 3 m	**P 4564 309 ZF**
Mains pack 19" rack module 3HU with front panel	
TPS 311, mains pack 19" rack module 3HU	**PM 061 346 -T**
Mains pack for wall/standard rail fitting	
TPS 310, mains pack for wall/standard rail fitting	**PM 061 342 -T**

Accessories	
Mounting kits for HiPace, including coated centering ring, protection screen and bracket screws	
Mounting kit for HiPace 300, DN 100 ISO-K, including coated centering ring, protection screen and bracket screws	**PM 016 367 -T**
Mounting kits for HiPace, including coated centering ring, splinter shield and bracket screws	
Mounting kit for HiPace 300, DN 100 ISO-K, including coated centering ring, splinter shield and bracket screws	**PM 016 366 -T**
Mounting kits for HiPace, including coated centering ring and bracket screws	
Mounting kit for HiPace 300 with DN 100 ISO-K, including coated centering ring and bracket screws	**PM 016 365 -T**
Power failure venting units (normally open)	
Power failure venting valve, shielded, 24 V DC, G 1/8" for connection to TC 400, TM 700 and TC 1200	**PM Z01 331**
Pressure Sensors	
IKT 010, Digital Cold Cathode Sensor, low current	**PT R72 100**
IKT 011, Digital Cold Cathode Sensor, high current	**PT R73 100**
RPT 010, Digital Piezo/Pirani Sensor	**PT R71 100**
TIC 010, Adapter for two sensors	**PT R70 000**
Profibus accessories	
Remote adapter for RS-485	**PM 061 649 -X**
Relay boxes suitable for TC 110, TC 400 and TCP 350	
Backing pump relay box, single phase 20 A, for TC 400 and TCP 350, M12 plug	**PM 061 375 -T**
RS-485 accessories	
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**
Y-Connector M12 to RS-485	**P 4723 010**
Sealing gas throttle	
Sealing gas throttle for HiPace 300	**PM Z01 317**
Sealing gas valve, shielded (normally closed)	
Sealing gas valve, shielded for HiPace 300 with TC 400 and TM 700, TCP 350	**PM Z01 312**
Shielded relay boxes suitable for TC 110/TC 400 with PB, TC 1200 and TM 700	
Relay box, shielded, for backing pumps, 1-phase 7 A for TC 400/1200, TM 700 and TCP 350, M12	**PM 071 284 -X**
Venting accessory with small flange, G 1/8", hoses, air drier	
Banjo fitting	**PM 016 787 -T**
Banjo fitting, small	**PM 143 877 -T**
Hose nozzle for 9 mm hose, G 1/8"	**PM 016 783 -T**
Push-in fitting for 6 mm hose, G 1/8"	**PM 016 781 -T**
Push-in fitting for 8 mm hose, G 1/8"	**PM 016 782 -T**
Screw-in flange, DN 10 ISO-KF, G 1/8"	**PM 033 737 -T**
Screw-on flange, DN 16 ISO-KF, G 1/8"	**PM 016 780 -T**
TTV 001, dryer for venting turbopumps	**PM Z00 121**

Accessories	
Venting valve (normally closed)	
Venting valve, shielded, 24 V DC, G 1/8", for connecting to TC 400,1200 and TM 700 with twisted plug 270°	**PM Z01 292**
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 300/400, DN 100 ISO-K/F	**PM 006 459 -X**
Wall rail fitting	
Wall rail fitting for TPS 110/180/310/400	**PM 061 392 -T**

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