



HiPace™ 400 with TC 400, DN 100 ISO-K

**Compact yet powerful turbopump with a pumping speed of
up to 355 l/s for N₂**



Pfeiffer Vacuum · Headquarters/Germany

Tel. +49 (0) 6441 802-0 · Fax +49 (0) 6441 802-202 · info@pfeiffer-vacuum.de · www.pfeiffer-vacuum.net

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Technical Data	HiPace™ 400 with TC 400, DN 100 ISO-K
Compression ratio for Ar	$> 1 \cdot 10^{11}$
Compression ratio for CF ₄	$> 1 \cdot 10^{11}$
Compression ratio for H ₂	$4 \cdot 10^5$
Compression ratio for He	$3 \cdot 10^7$
Compression ratio for N ₂	$> 1 \cdot 10^{11}$
Cooling method, optional	Air
Cooling method, standard	Water
Cooling water consumption	100 l/h
Cooling water temperature	15-35 °C
Flange (in)	DN 100 ISO-K
Flange (out)	DN 25 ISO-KF / G 1/4"
Fore Vacuum max. for N ₂	11 mbar
Gas throughput at full rotational speed for Ar	3.5 mbar l/s
Gas throughput at full rotational speed for CF ₄	2.8 mbar l/s
Gas throughput at full rotational speed for H ₂	> 14 mbar l/s
Gas throughput at full rotational speed for He	10 mbar l/s
Gas throughput at full rotational speed for N ₂	6.5 mbar l/s
Interfaces	RS-485, Remote
Permissible magnetic field max.	6 mT
Protection category	IP 54
Pumping speed for Ar	320 l/s
Pumping speed for CF ₄	220 l/s
Pumping speed for H ₂	445 l/s
Pumping speed for He	470 l/s
Pumping speed for N ₂	355 l/s
Rotation speed $\pm 2\%$	49200 rpm
Run-up time	2 min
Sound pressure level	50 dB (A)
Ultimate pressure with OnTool™ DryPump	$< 1 \cdot 10^{-7}$ mbar
Venting connection	G 1/8"
Weight	11.6 kg
Order number	PMP04023

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Accessories	HiPace™ 400 with TC 400, DN 100 ISO-K
	PM061396-T
115 V AC mains cable with UL plug, IEC power socket (straight), 3 m	P4564309ZE
208 V AC mains cable with UL plug, 3 m	P4564309ZF
230 V AC mains cable with Euro-style safety plug, IEC power socket (straight), 3 m	P4564309ZA
24 V DC venting valve, G 1/8", for connection to TC 400 / 1200	PMZ01291
Accessories package for HPU - Power supply, software and PC cable	PM061005-T
Air cooling for HiPace 400 and HiPace 700 with TC 400	PMZ01303
Air cooling with cable for TC 400, M12 plug for Tele TC cable 400	PMZ01304
Angled screw coupling for venting valve	PM143877-T
Backing pump relay box, single phase 20 A, for TC 400 / 1200, TCP 350 and TM 3000	PM061375-T
Backing pump relay box, single phase 5 A, for TC 400 / 1200	PM061374-T
Centering ring, with multifunction coating, DN 100 ISO-K/-F pumps	PM016210-U
Centering ring, with multifunction coating and integrated protection screen, DN 100 ISO-K/-F	PM016212-U
Centering ring, with multifunction coating and integrated splinter shield, DN 100 ISO-K/-F	PM016211-AU
Connection cable, plug M12, RJ 45	PM051726-T
Connection cable for linking HiPace with TC 400 to power supply TPS/DCU 310 / 311 / 400 / 401	PM061352-T
DCU 002, Display control unit	PM061348-T
DCU 400, Display control unit incl. power supply	PMC01823
Extension cable for accessory M12 on M12	PM061747-T
HPU 001, handheld programming unit	PM051510-T
Interface cable, 3 m, M 12	PM061283-T
Interface cable RS-485, 3 m, M12, straight, 90°	PM061791-T
Mounting kit for HiPace 400, DN 100 ISO-K, including coated centering ring	PM016380-T
Mounting kit for HiPace 400, DN 100 ISO-K, including coated centering ring, protection screen, clamping screws	PM016382-T
Mounting kit for HiPace 400, DN 100 ISO-K, including coated centering ring, splinter shield, bracket screws	PM016381-T
Power supply plug TC 110, angled	P4723101
Power supply plug TC 400, straight	P4723100
Power supply plug TPS 110/180/310/400 DC out	P4723102
Remote adapter for RS-485	PM061649-T
Remote plug, TC 400, with bridges	PM061378-X
Sealing gas throttle for HiPace 300,400 and 700	PMZ01317
Sealing gas valve for HiPace 300, 400 and 700 with TC 400	PMZ01312
TPS 400, mains pack for wall/standard rail fitting	PM061343-T
TPS 401, mains pack 19" rack module 3 RU	PM061347-T
TTV 001, air drier for venting turbopumps	PMZ00121

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TVV 001 fore-vacuum safety valve, 115 V AC	PMZ01206
TVV 001 fore-vacuum safety valve, 230 V AC	PMZ01205
USB converter to RS-485 interface	PM061207-T
Venting flange DN 10 KF-G1/8"	PM033737-T
Vibration damper for HiPace 300 and HiPace 400, DN 100 ISO-K	PM006459-X
Wall rail fitting TPS 110/180/310/400	PM061392-T
Y-Connector M12 for accessories	P4723012
Y-Connector M12 to RS-485	P4723010