



HiPace™ 10 with TC 110, DN 25

The world's smallest series-production turbopump

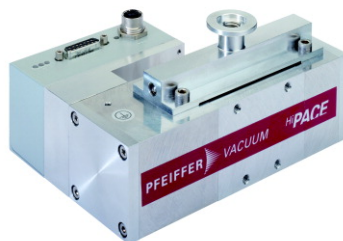


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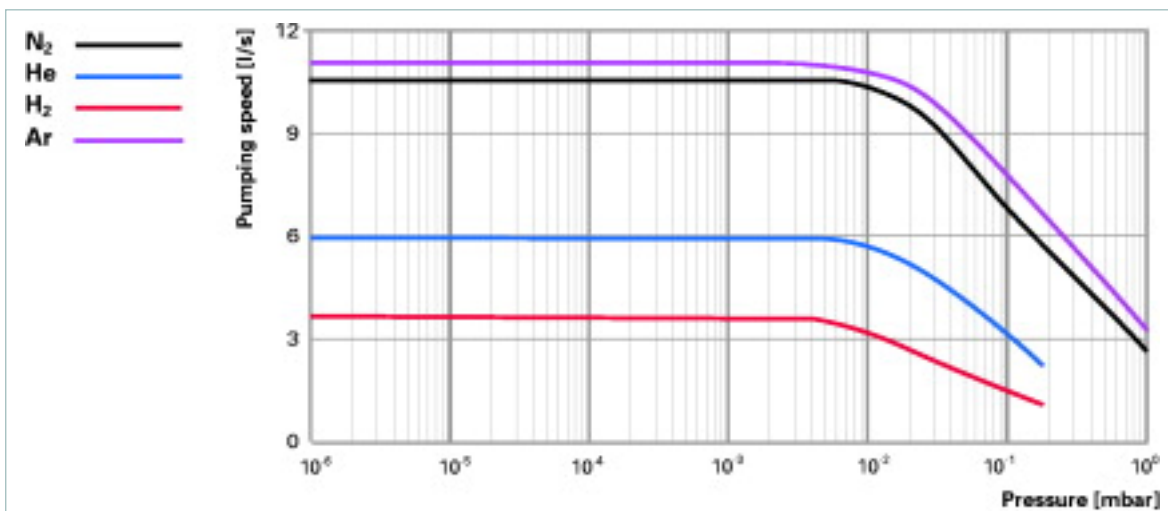
HiPace™ 10



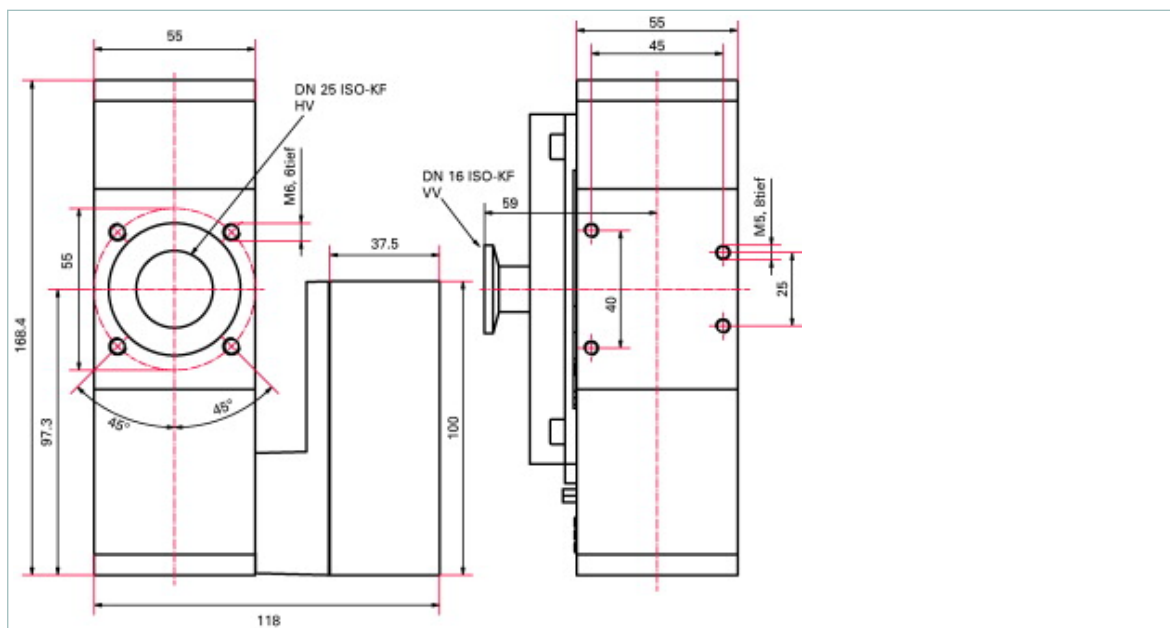
Similar Image

- ▶ The world's smallest series-production turbopump
- ▶ A powerful, rugged turbopump with a pumping speed of up to 10 l/s for N₂
- ▶ DN 25 connection
- ▶ Integrated drive electronics with 24 V supply voltage
- ▶ Mobile
- ▶ Requires no additional cooling

Characteristics



Dimensions



HiPace™ 10 with TC 110, DN 25

Technical Data	HiPace™ 10 with TC 110, DN 25
Compression ratio for Ar	$2.5 \cdot 10^7$
Compression ratio for H ₂	$3 \cdot 10^2$
Compression ratio for He	$3 \cdot 10^3$
Compression ratio for N ₂	$3 \cdot 10^6$
Cooling method, standard	Convection
Flange (in)	DN 25
Flange (out)	DN 16 ISO-KF / G1/8"
Fore Vacuum max. for N ₂	25 mbar
Gas throughput at full rotational speed for Ar	0.37 mbar l/s
Gas throughput at full rotational speed for H ₂	2.78 mbar l/s
Gas throughput at full rotational speed for He	0.48 mbar l/s
Gas throughput at full rotational speed for N ₂	0.37 mbar l/s
Interfaces	RS - 485, Remote
Permissible magnetic field max.	3 mT
Protection category	IP 54
Pumping speed for Ar	11.5 l/s
Pumping speed for H ₂	3.7 l/s
Pumping speed for He	6 l/s
Pumping speed for N ₂	10 l/s
Rotation speed ±2%	90000 rpm
Run-up time	0.9 min
Sound pressure level	< 45 dB (A)
Ultimate pressure with OnTool™ DryPump	< $5 \cdot 10^{-5}$ mbar
Weight	1.8 kg
Order number	PMP03960

HiPace™ 10 with TC 110, DN 25

Accessories	HiPace™ 10 with TC 110, DN 25
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
Accessories package for HPU - Power supply, software and PC cable	PM061005-T
Backing pump relay box, single phase 20 A, for TC 110/TCP 350	PM061373-T
Backing pump relay box, single phase 5 A, for TC 110/TCP 350	PM061372-T
Centering ring, DN 25 ISO-KF pumps	PF110125-T
Centering ring, with integrated mesh screen, DN 25 ISO-KF	PF113225-T
Connection adapter TPD 011 - DN 25 ISO-KF	PM093315-T
Connection cable, plug M12, RJ 45	PM051726-T
Connection cable, TC 110 - TPS/DCU 110/180 with 2 accessory ports and second D-Sub	PM061755-X
Connection cable, TC 110 - TPS 110/180 with accessory ports and bridges	PM061552-T
Connection cable for HiPace with TC 110	PM061543-T
Connection cable for HiPace with TC 110	PM061892
Connection cable for linking HiPace with TC 110 to power supply TPS/DCU 110/111/180/181	PM061350-T
Connection cable for linking HiPace with TC 110 to power supply TPS/DCU 110 / 111 / 180 / 181	PM061351-T
Connection cable TPS 180 - MVP 006-4 with HiPace 80/HiPace 10, 3m	PM061399-T
Control cable 3/2 pole, TC 100 - MVP, 0,5 m	PM061433-x
DCU 002, Display control unit	PM061348-T
DCU 110, Display control unit incl. power supply	PMC01820
Extension cable M8 on M8	PM061783-T
Front panel kit for TPS 111	PM061393-T
Housing for plug, water resistant, 15-pole, D-Sub, IP 54	P0998016
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 10, DN 25 ISO-KF, including centering ring with 4 claws, screws and U-washers	PM016627-T
Power supply plug TC 110 or plug for interface E74, angled	P4723111
Power supply plug TC 110 or plug for interface E74, straight	P4723110
Power supply plug TPS 110/180/310/400 DC out	P4723102
Remote plug, water resistant, 26-pole, HD, IP 54	PM061880-T
TCS 11, adapter for TC 110 with interface RS-485	PM061636-U
TCS 12, adapter for TC 110 with interface RS-485 and 4 accessory ports	PM061638-U
TCS 13, adapter for TC 110 with interface RS-485 and 2 accessory ports	PM061856-U
Tele TC cable 110	PM061773-T
TPS 110, mains pack for wall/standard rail fitting	PM061340-T

HiPace™ 10 with TC 110, DN 25

Accessories

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TPS 111, mains pack 19" rack module 3 RU	PM061344-T
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
Wall rail fitting TPS 110/180/310/400	PM061392-T
Y-Connector M12 to RS-485	P4723010