



## HiPace™ 80 with TC 110, DN 40 ISO-KF

**Small yet powerful turbopump with a pumping speed of up to 35 l/s for N<sub>2</sub>**



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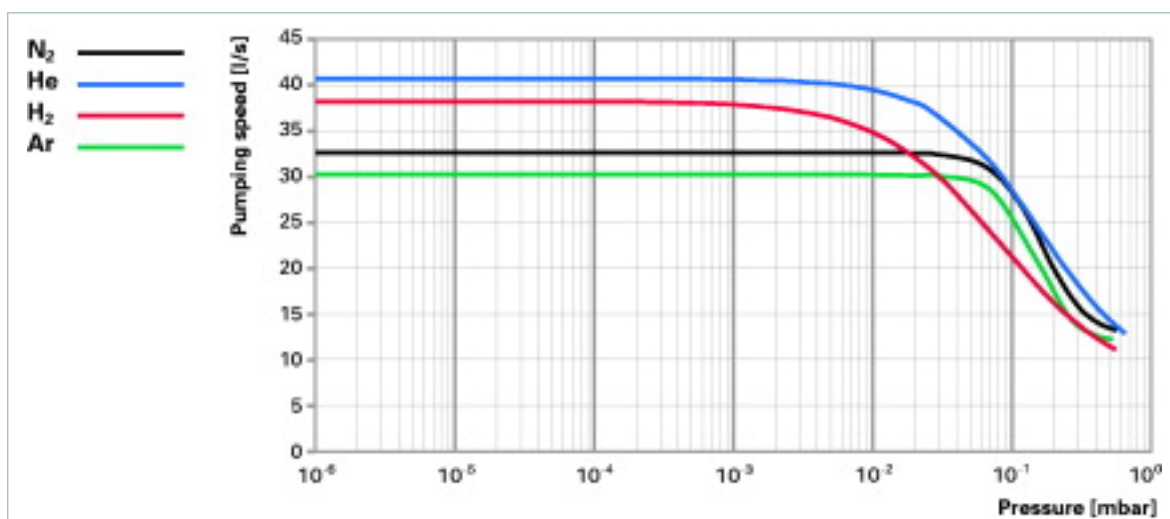
### HiPace™ 80



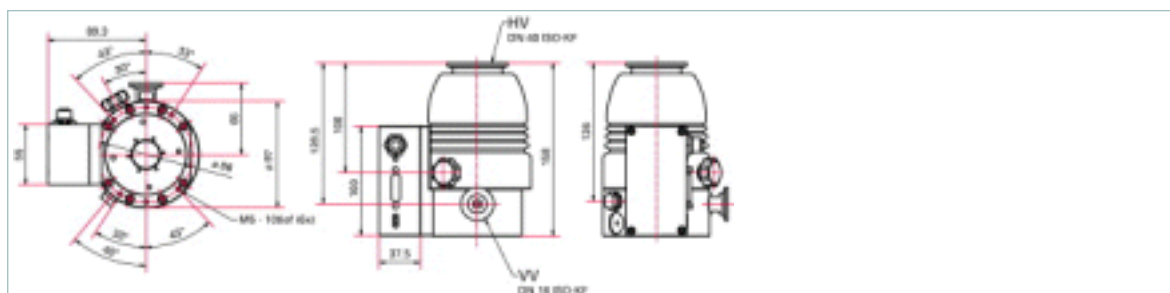
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- ▶ Small yet powerful turbopump with a pumping speed of up to 35 l/s for N<sub>2</sub>
- ▶ Integrated TC 110 drive electronics, DN 40 ISO-KF flange
- ▶ For installation in any orientation
- ▶ Ideal for dependable systems integration
- ▶ Extensive accessories expand the range of applications

### Characteristics



### Dimensions



## HiPace™ 80 with TC 110, DN 40 ISO-KF

Technical Data	HiPace™ 80 with TC 110, DN 40 ISO-KF
Compression ratio for Ar	$> 1 \cdot 10^{11}$
Compression ratio for H <sub>2</sub>	$1.4 \cdot 10^5$
Compression ratio for He	$1.3 \cdot 10^7$
Compression ratio for N <sub>2</sub>	$> 1 \cdot 10^{11}$
Cooling method, optional	Air/Water
Cooling method, standard	Convection
Cooling water consumption	75 l/h
Cooling water temperature	5-25 °C
Flange (in)	DN 40 ISO-KF
Flange (out)	DN 16 ISO-KF
Fore Vacuum max. for N <sub>2</sub>	22 mbar
Gas throughput at full rotational speed for Ar	0.54 mbar l/s
Gas throughput at full rotational speed for H <sub>2</sub>	15.3 mbar l/s
Gas throughput at full rotational speed for He	2.7 mbar l/s
Gas throughput at full rotational speed for N <sub>2</sub>	1.3 mbar l/s
Interfaces	RS-485, Remote
Permissible magnetic field max.	3.3 mT
Protection category	IP 54
Pumping speed for Ar	30 l/s
Pumping speed for H <sub>2</sub>	38 l/s
Pumping speed for He	41 l/s
Pumping speed for N <sub>2</sub>	35 l/s
Rotation speed $\pm 2\%$	90000 rpm
Run-up time	1.7 min
Sound pressure level	< 48 dB (A)
Ultimate pressure with OnTool™ DryPump	$< 1 \cdot 10^{-7}$ mbar
Venting connection	G 1/8"
Weight	2.4 kg
<b>Order number</b>	<b>PMP03942</b>

## HiPace™ 80 with TC 110, DN 40 ISO-KF

Accessories	HiPace™ 80 with TC 110, DN 40 ISO-KF
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 110	PMZ01290
Accessories package for HPU - Power supply, software and PC cable	PM061005-T
Air cooling for HiPace 80 with TC 110, plug M8	PMZ01300
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, FPM/Aluminium, DN 40 ISO-KF	PF110140-T
Centering ring, with integrated mesh screen, DN 40 ISO-KF	PF113240-T
Centering ring, with integrated splinter shield, DN 40 ISO-KF	PM006375-X
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
DCU 180, Display control unit incl. power supply	PMC01821
Extension cable M8 on M8	PM061783-T
Front panel kit for TPS 111	PM061393-T
Front panel kit for TPS 181	PM061394-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 80, DN 40 ISO-KF, including centering ring and clamping ring	PM016625-T
Mounting kit for HiPace 80, DN 40 ISO-KF, splinter shield, clamping ring	PM016626-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

## HiPace™ 80 with TC 110, DN 40 ISO-KF

Accessories	HiPace™ 80 with TC 110, DN 40 ISO-KF
Sealing gas throttle for HiPace 80	PMZ01316
Sealing gas valve for HiPace 80	PMZ01310
TC 110 - TPS/DCU 110/180 with 3 accessory ports, RS-485	PM061512-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
TPS 111, mains pack 19" rack module 3 RU	PM061344-T
TPS 180, mains pack for wall/standard rail fitting	PM061341-T
TPS 181, mains pack 19" rack module 3 RU	PM061345-T
TTV 001, air drier for venting turbopumps	PMZ00121
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 80, DN 40 ISO-KF	PM006799-X
Wall rail fitting TPS 110/180/310/400	PM061392-T
Water cooling for HiPace 80, TC 110	PM016623-T
Y-Connector M12 to RS-485	P4723010