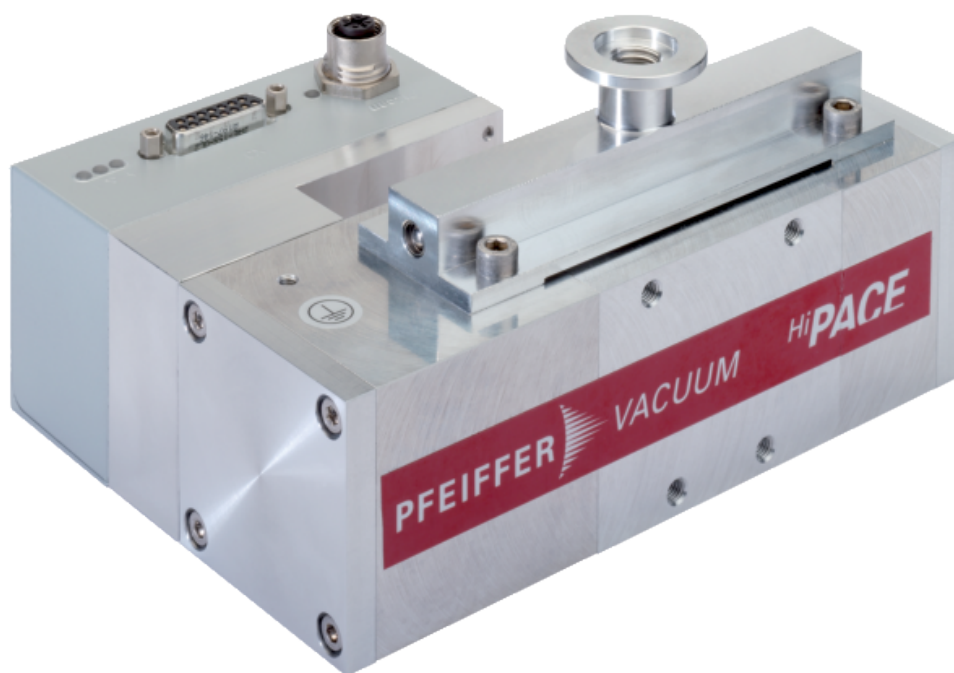
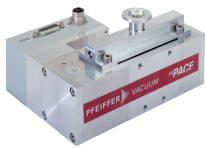




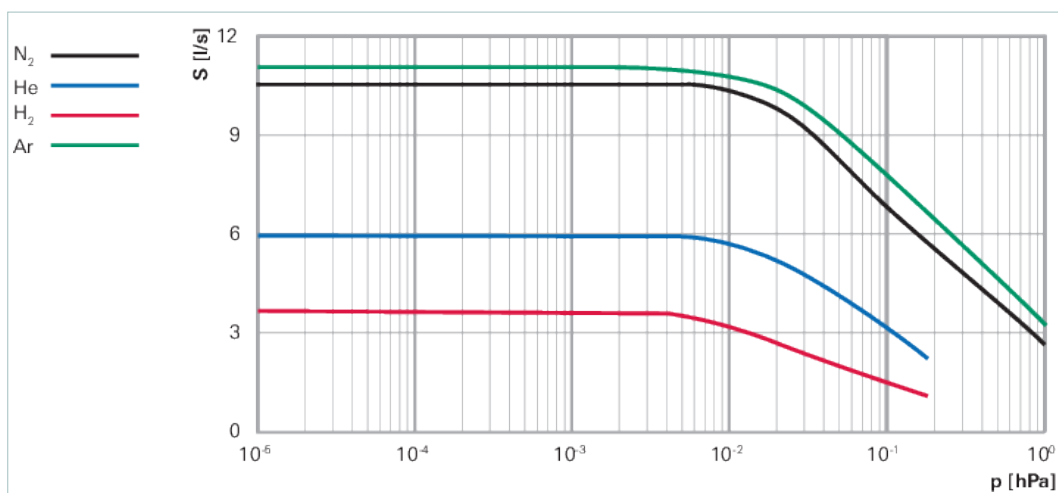
HiPace[®] 10 with TC 110, DN 25



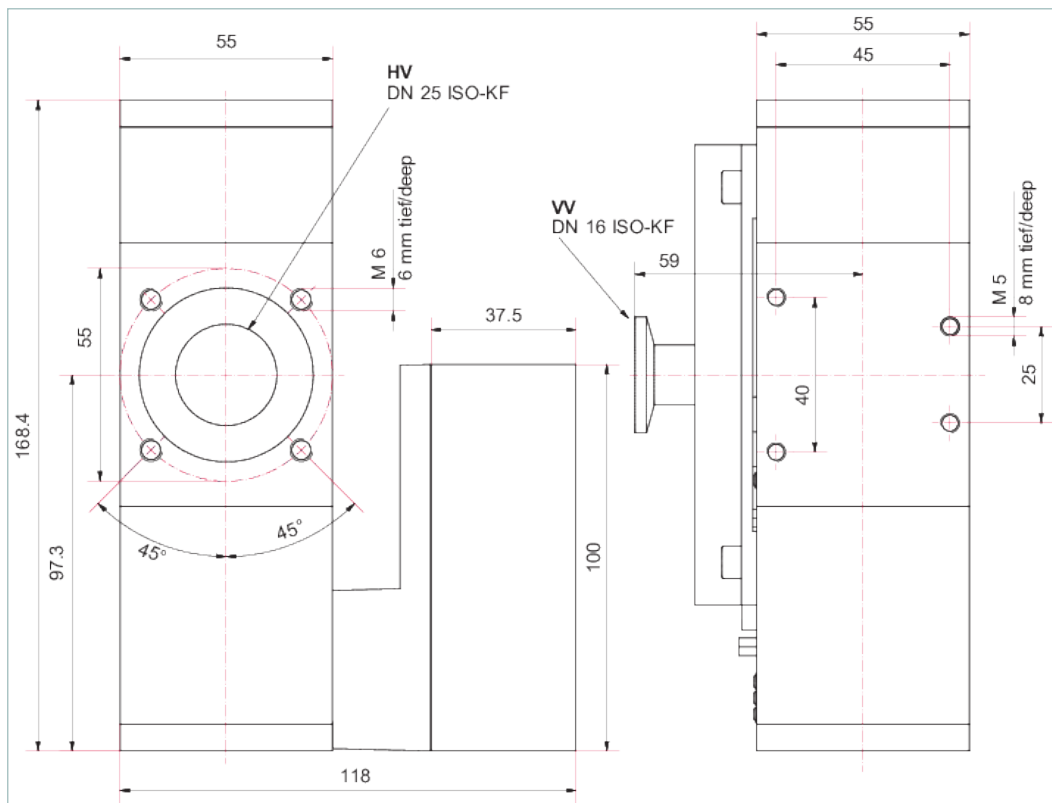
Similar Image

HiPace® 10 with TC 110, DN 25

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



Dimensions



Technical Data	HiPace® 10 with TC 110, DN 25
Bearing	Ball bearing
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
Current max.	1,2 A
Electronic drive unit	with TC 110
Flange (in)	DN 25
Flange (out)	DN 16 ISO-KF/G 1/8"
Fore-vacuum max. for N ₂	25 hPa 18.75 Torr 25 mbar
Gas throughput at full rotational speed for Ar	0.37 hPa·l/s
Gas throughput at full rotational speed for H ₂	2.78 hPa·l/s
Gas throughput at full rotational speed for He	0.48 hPa·l/s
Gas throughput at full rotational speed for N ₂	0.37 hPa·l/s
I/O interfaces	RS-485, Remote
Mounting orientation	Any
Operating voltage: V DC	24 (± 5 %) V DC
Particulate matter	YES
Permissible magnetic field max.	3 mT
Power consumption max.	28.8 W
Protection category	IP54
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 %	90,000 rpm 90,000 min ⁻¹
Rotation speed variable	50 – 100 %
Run-up time	0.9 min
Sound pressure level	<50 dB(A)
Ultimate pressure according to PNEUROP	< $5 \cdot 10^{-5}$ hPa < $3.75 \cdot 10^{-5}$ Torr < $5 \cdot 10^{-5}$ mbar
Ultimate pressure without gas ballast	$5 \cdot 10^{-5}$ hPa $3.75 \cdot 10^{-5}$ Torr $5 \cdot 10^{-5}$ mbar
Weight	1.8 kg 3.97 lb

Order number
HiPace® 10
PM P03 960

Accessories	
Adapters (electrical) Remote	
Enclosure for plug, spraywater-protected, 15-pole, D-Sub	P 0998 016
Mains power plug for TC 110/120 and mating plug for E74 interface, straight	P 4723 110
Mains power plug angled for TC 110/120 and mating plug for interface E74	P 4723 111
TCS 11, adapter for TC 110/120 with RS-485 interface	PM 061 636 -U
TCS 12, adapter for TC 110/120 with interface RS-485, 4 accessory ports and coupling set	PM 061 638 -U
TCS 13, adapter for TC 110/120 with interface RS-485, 2 accessory ports and coupling set	PM 061 856 -U
Adapters (electrical) RS-232/485	
Y-Connector M12 to RS-485	P 4723 010
USB converter to RS-485 interface	PM 061 207 -T
Coupling M12 for RS-485	PM 061 270 -X
Termination resistor for RS-485	PT 348 105 -T
Power separator for RS-485	PT 348 132 -T
Cables Backing pump control cables	
Control cable for valve	PM 061 687 -T
HiPace – ACP connection cable	PM 071 142 -X
Cables Connection cables	
Connection cable with RS-485 interface for TC 110/120 to power supply pack	PM 061 350 -T
Connection cable with RS-485 interface and 2 accessory ports for TC110/120 to power supply pack	PM 061 351 -T
Connection cable TPS 180 - MVP 006-4 with HiPace 80/HiPace 10, 2 x 0.5 m	PM 061 399 -T
Connection cable for HiPace with TC 110/120	PM 061 543 -T
Connection cable incl. 2 accessory ports for TC 110/120 to power supply pack	PM 061 552 -T
Cables Extension cables	
Extension cable M8 on M8	PM 061 783 -T
Cables Mains cables / Power cords	
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
Mains cable 208 V AC, NEMA 6-15 to C13, 3 m	P 4564 309 ZF
Cables RS-485 Interface cables	
Interface cable, M12 m straight/M12 m straight, 3 m	PM 061 283 -T
Interface cable, M12 m straight/ M12 m angled, 0.7 m	PM 061 791 -T
Connections Adapters Turbopump to Backing Pump	
Connection adapter for backing pump connection	PM 016 525 -T
Control Devices Backing pump	
Relay box for backing pumps, 1-phase 20 A for TC 110/120 and TCP 350, plug M8	PM 061 373 -T
Relay box, shielded, for backing pumps, 1-phase 7A for TC 110/120 and TCP 350, plug M8	PM 071 282 -X

Accessories		
Control Devices Power supplies and control displays		
HPU 001, Handheld programming unit		PM 051 510 -T
Accessories package for HPU 001/PC		PM 061 005 -T
TPS 110, power supply pack for wall/standard rail fitting		PM 061 340 -T
TPS 111, power supply pack 3HU 19" rack module		PM 061 344 -T
DCU 002, Display Control Unit		PM 061 348 AT
Front panel kit for TPS 111		PM 061 393 -T
DCU 110, Display control unit with power supply pack		PM C01 820
Monitoring Pressure Sensors		
RPT 010, Digital Piezo/Pirani Sensor		PT R71 100
IKT 010, Digital cold cathode sensor, low current		PT R72 100
IKT 011, Digital cold cathode sensor, high current		PT R73 100
Mounting DN ISO-KF, mounting kits		
Mounting kit for HiPace 10, DN 25 ISO-K and claws		PF 104 000 -T
Connection adapter DN 25 ISO-KF		PM 093 315 -T
Mounting DN ISO-KF, sealings, splinter shields, protection screens		
Centering ring, FPM/Aluminum, DN 25 ISO-KF		PF 110 125 -T
Mounting Wall rail fittings		
Wall rail fitting for TPS 110/180/310/400		PM 061 392 -T
Other		
TIC 010, Adapter for two sensors		PT R70 000
Protection DN ISO-KF, sealings, splinter shields, protection screens		
Centering ring with integrated mesh screen, DN 25 ISO-KF		PF 113 225 -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

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