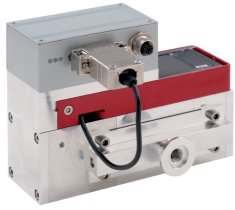


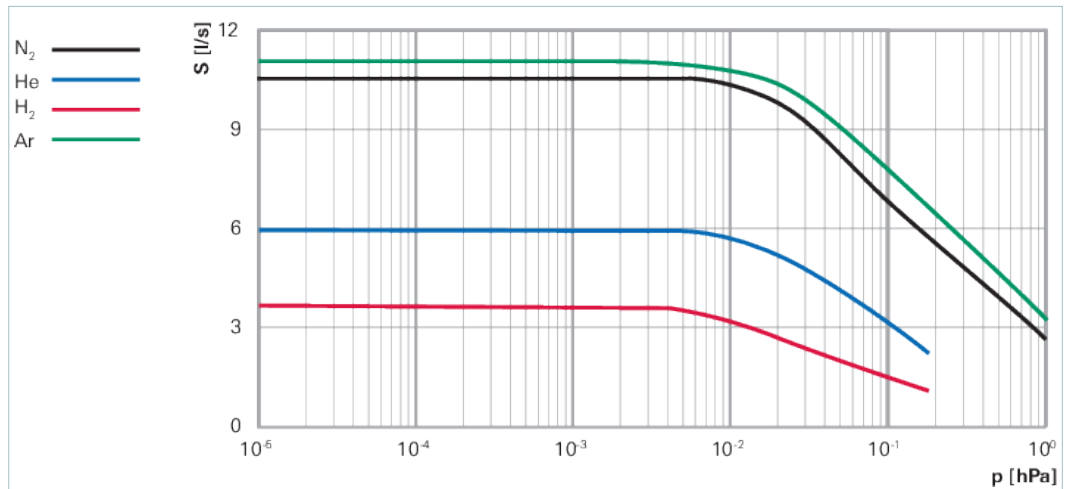
HiPace[®] 10 with TC 110 and power supply pack OPS 40, DN 25



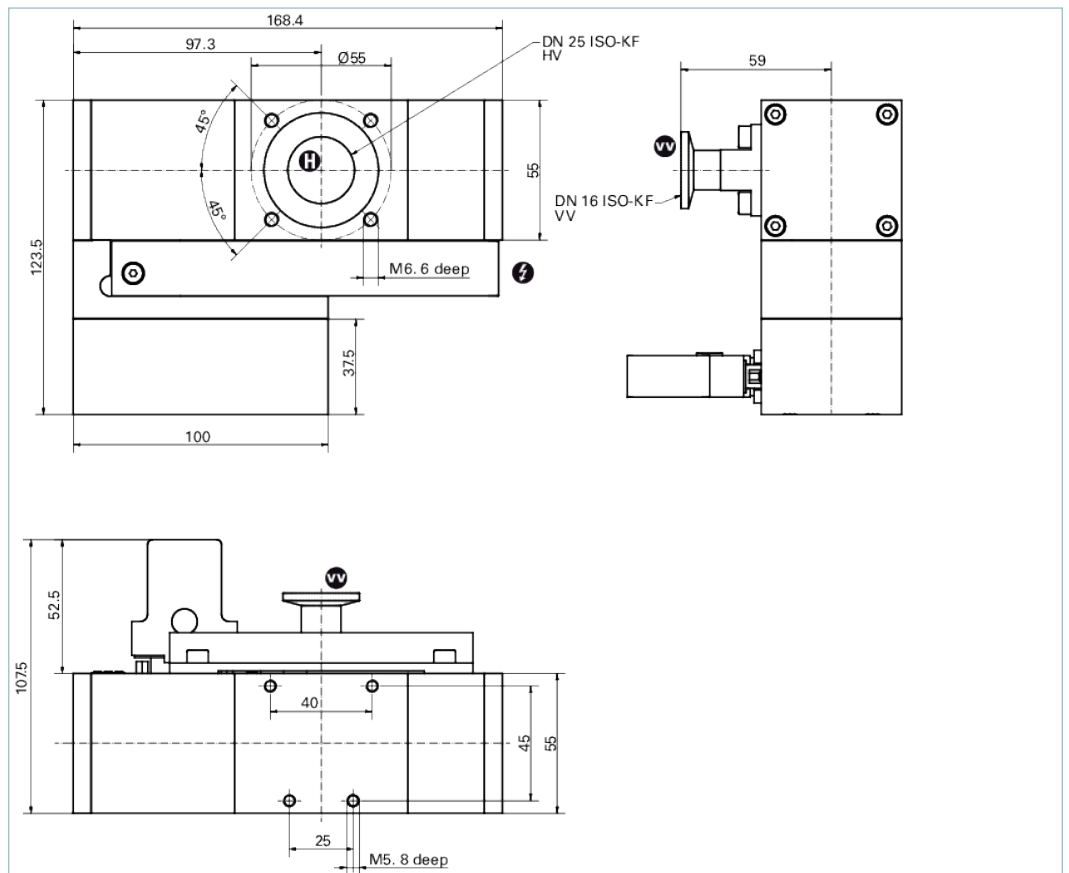
Similar Image

HiFace® 10 with TC 110 and power supply pack OPS 40, 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
- Drive electronics TC 110 and power supply OPS 040 integrated
- Mobile usable
- Requires no additional cooling
- Electronic connection in direction of fore-vacuum connection



Dimensions



Technical Data	HiPace® 10 with TC 110 and power supply pack OPS 40, 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	$3 \cdot 10^6$
Connection flange (in)	DN 25
Connection flange (out)	DN 16 ISO-KF/G 1/8"
Cooling method	Convection
Current, max.	1,2 A
Electronic drive unit	with TC 110
Final pressure according to PNEUROP	$< 5 \cdot 10^{-5}$ hPa $< 3.75 \cdot 10^{-5}$ Torr $< 5 \cdot 10^{-5}$ mbar
Final pressure without gas ballast	$< 5 \cdot 10^{-5}$ hPa $< 3.75 \cdot 10^{-5}$ Torr $< 5 \cdot 10^{-5}$ mbar
Fore-vacuum max. for N ₂	25 hPa 18.75 Torr 25 mbar
Gas throughput at final rotation speed for Ar	0.37 hPa·l/s
Gas throughput at final rotation speed for H ₂	2.78 hPa·l/s
Gas throughput at final rotation speed for He	0.48 hPa·l/s
Gas throughput at final rotation speed for N ₂	0.37 hPa·l/s
I/O interfaces	RS-485, Remote
Integrated power supply pack	YES
Mounting orientation	Arbitrary
Operating voltage: V DC	24 (± 5 %) V DC
Particle intake	YES
Permissible radial magnetic field max.	3 mT
Power consumption max.	28.8 W
Protection degree	IP30
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)
Weight	2 kg 4.41 lb
Order number	
HiPace® 10	PM P03 963

Accessories	
Adapters (electrical) PV-Can	
TIC 010, adapter for two sensors	PT R70 000
Adapters (electrical) Remote	
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
Adapters (electrical) RS-232/485	
Y-connector M12 for RS-485	P 4723 010
USB RS-485 converter	PM 061 207 -T
Coupling M12 for RS-485	PM 061 270 -X
Terminal 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 TPS 180 - MVP 006-4 with HiPace 80/HiPace 10, 2 x 0.5 m	PM 061 399 -T
Cables Mains cables / Power cords	
Mains cable 230 V AC, XVI EN 50075 to C7, 1.5 m	P 4564 309 OA
Mains cable 115 V AC, NEMA 1-15 to C7, 1.8 m	P 4564 309 OB
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
Connections Connection kits for mounting of pumps	
Connection kit for mounting of pumps, DN 16 ISO-KF	120SWS016-1000
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
Control Devices Power supplies and control displays	
Accessories package for HPU 001/PC	PM 061 005 -T
OmniControl 001, rack unit without integrated power supply pack	PE D42 100 0
OmniControl 001 Mobile, control units	PE D22 000 0
OmniControl 200, rack unit with integrated power supply pack	PE D52 110 0
OmniControl 200, table unit with integrated power supply pack	PE E52 110 0
OmniControl 200 mit PKR 361, 40 CF	PT 440 957 -T
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

Accessories	
Mounting DN ISO-KF, mounting kits	
Mounting kit for HiPace 10, DN 25 ISO-K and claws	PF 104 000 -T
Mounting kit for HiPace 10, DN 25 ISO-KF, including centering ring with claws	PM 016 627 -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
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
Valves Isolation valves	
AVC 025 PA, angle valve, electro-pneumatic, with PI, with PV, PV 24 V DC	PF A48 204

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