



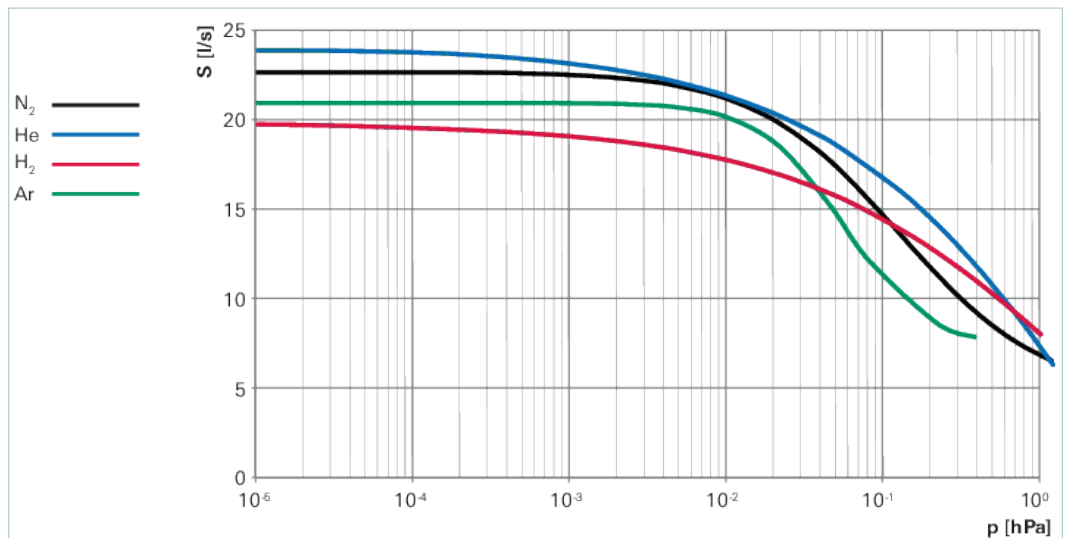
HiPace[®] 30 with TC 110, DN 40 ISO-KF



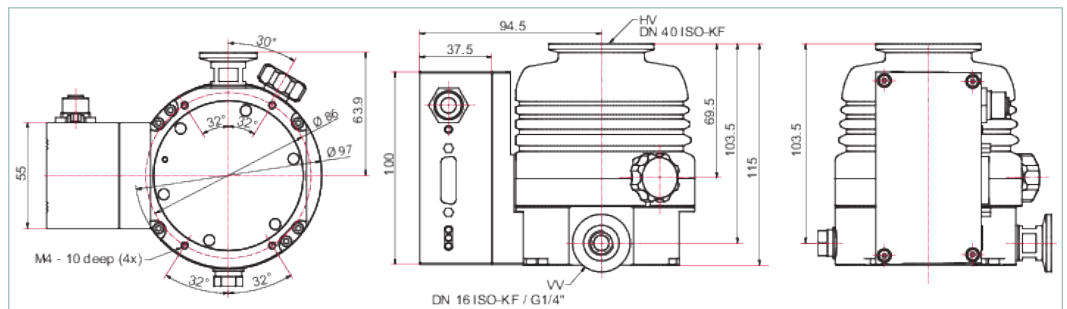
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HiPace® 30 with TC 110, DN 40 ISO-KF

- Small yet powerful turbopump with a pumping speed of up to 32 l/s for N₂
- Highest compression in this pumping speed class
- Simple integration into small analytical systems
- Low weight, ideal for portable applications
- Long maintenance intervals for a long life cycle
- For installation in any orientation
- Integrated TC 110 drive electronics
- Extensive accessories expand the range of applications



Dimensions



Technical Data	HiPace® 30 with TC 110, DN 40 ISO-KF
Bearing	Hybrid
Compression ratio for Ar	$> 1 \cdot 10^{11}$
Compression ratio for H ₂	$3 \cdot 10^5$
Compression ratio for He	$3 \cdot 10^7$
Compression ratio for N ₂	$> 1 \cdot 10^{11}$
Cooling method, optional	Air/Water
Cooling method, standard	Convection
Cooling water flow	75 l/h
Cooling water flow, max	75 l/h
Cooling water flow, min	75 l/h
Cooling water temperature	5-25 °C 41-77 °F 278-298 K
Current max.	5 A
Electronic drive unit	TC 110

Technical Data	HiPace® 30 with TC 110, DN 40 ISO-KF
Flange (in)	DN 40 ISO-KF
Flange (out)	DN 16 ISO-KF/G ¼"
Fore-vacuum max. for N ₂	24 hPa 18 Torr 24 mbar
Gas throughput at full rotational speed for Ar	0.22 hPa·l/s
Gas throughput at full rotational speed for H ₂	10 hPa·l/s
Gas throughput at full rotational speed for He	1.84 hPa·l/s
Gas throughput at full rotational speed for N ₂	0.66 hPa·l/s
I/O interfaces	RS-485, Remote
Mounting orientation	Any
Operating voltage: V DC	24 (± 5 %) V DC
Permissible magnetic field max.	3 mT
Power consumption max.	80 W
Protection category	IP54
Pumping speed for Ar	20 l/s
Pumping speed for H ₂	19 l/s
Pumping speed for He	23 l/s
Pumping speed for N ₂	22 l/s
Rotation speed ± 2 %	90,000 rpm 90,000 min ⁻¹
Rotation speed variable	50 – 100 %
Run-up time	1.7 min
Sound pressure level	≤48 dB(A)
Ultimate pressure according to PNEUROP	< 1 · 10 ⁻⁷ hPa < 7.5 · 10 ⁻⁸ Torr < 1 · 10 ⁻⁷ mbar
Ultimate pressure without gas ballast	1 · 10 ⁻⁷ hPa 7.5 · 10 ⁻⁸ Torr 1 · 10 ⁻⁷ mbar
Venting connection	G 1/8"
Weight	2 kg 4.41 lb

Order number	
HiPace® 30	PM P05 282

Accessories	
Adapters (electrical) Remote	
Enclosure for plug, spraywater-protected, 15-pole, D-Sub	P 0998 016
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
TCS 17 for control of backing pumps	PM 071 093 -U
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
Adapters (electrical) RS-232/485	
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
Y-Connector M12 to RS-485	P 4723 010
Aluminum EN AW-6082/3.2315	
Bulkhead Clamp, Aluminum EN AW-6082/3.2315, DN 32-40 ISO-KF	110BUH040
Cables Backing pump control cables	
HiPace – ACP connection cable	PM 071 142 -X
Control cable for valve	PM 061 687 -T
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 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
Connection cable with RS-485 interface and 3 accessory ports for TC110/120 to power supply pack	PM 061 512 -T
Connection cable TPS 180 - MVP 006-4 with HiPace 80/HiPace 10, 2 x 0.5 m	PM 061 399 -T
Control cable, TC 110/120 - Diaphragm pump, 0.5 m	PM 061 433 -X
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 Coupling Sets for TC 110/TCS 12/13	
Coupling set	PM 061 682 -X

Accessories	
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	
TPS 110, power supply pack for wall/standard rail fitting	PM 061 340 -T
TPS 180, power supply pack for wall/standard rail fitting	PM 061 341 -T
TPS 111, power supply pack 3HU 19" rack module	PM 061 344 -T
TPS 181, power supply pack 19" rack module 3HU	PM 061 345 -T
Front panel kit for TPS 111	PM 061 393 -T
Front panel kit for TPS 181	PM 061 394 -T
DCU 110, Display control unit with power supply pack	PM C01 820
DCU 180, Display control unit incl. power supply pack 19"	PM C01 821
DCU 002, Display Control Unit	PM 061 348 AT
HPU 001, Handheld programming unit	PM 051 510 -T
Accessories package for HPU 001/PC	PM 061 005 -T
Cooling Air cooling	
Air cooling for HiPace 30 with TC 110	PM Z01 348
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 CF-F, Mounting kits	
Set of stud screws for flanges with through-hole, DN 63 CF-F	PM 016 733 -T
Mounting DN ISO-KF, mounting kits	
Mounting kit for HiPace 60/80, DN 40 ISO-KF, including centering ring and clamping ring	PM 016 625 -T
Mounting kit for HiPace 60/80, DN 40 ISO-KF, splinter shield, clamping ring	PM 016 626-T
Mounting DN ISO-KF, sealings, splinter shields, protection screens	
Centering ring, FPM/aluminum, DN 40 ISO-KF	PF 110 140 -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
Water cooling for HiPace 30 HiPace 80 mini with push-in fitting, 8 mm	PM 016 847 -T
Protection DN ISO-KF, sealings, splinter shields, protection screens	
Centering ring with integrated mesh screen, DN 40 ISO-KF	PF 113 240 -T
Centering ring with integrated splinter shield, DN 40 ISO-KF	PM 006 375 -X
Protection Sealing gas throttles	
Sealing gas throttle for HiPace 30/60/80	PM Z01 316
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

Accessories	
Valves Sealing gas valves, shielded (normally closed)	
Sealing gas valve, shielded for HiPace 30/60/80 with TC 110	PM Z01 310
Venting Power failure venting units (normally open)	
Shielded power failure venting unit, 24 V DC, G 1/8", for connection to TC 110/120	PM Z01 330
Venting Venting accessories	
TTV 001, Drier for Venting Turbopumps	PM Z00 121
Screw-in flange, DN 10 ISO-KF, G 1/8"	PM 033 737 -T
Banjo fitting	PM 016 787 -T
Banjo fitting, small	PM 143 877 -T
Screw-on flange, DN 16 ISO-KF, G 1/8"	PM 016 780 -T
Push-in fitting for 6 mm tube, G 1/8"	PM 016 781 -T
Push-in fitting for 8 mm tube, G 1/8"	PM 016 782 -T
Hose nozzle for 9 mm hose, G 1/8"	PM 016 783 -T
Venting Venting valves (normally closed)	
Venting valve, shielded, 24 V DC, G 1/8", for connection to TC 110/120	PM Z01 290
Venting valve, 24 V DC, G 1/8" without cable	PM Z01 293
Vibration Reduction Vibration dampers	
Vibration damper for HiPace 60/80, DN 40 ISO-KF	PM 006 799 -X

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