



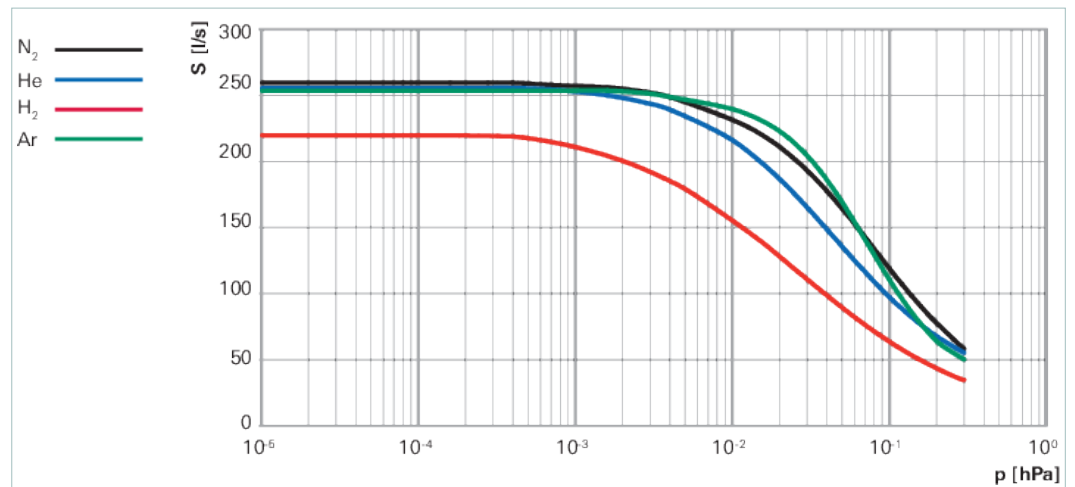
HiPace[®] 300 with TC 400, DN 100 ISO-K



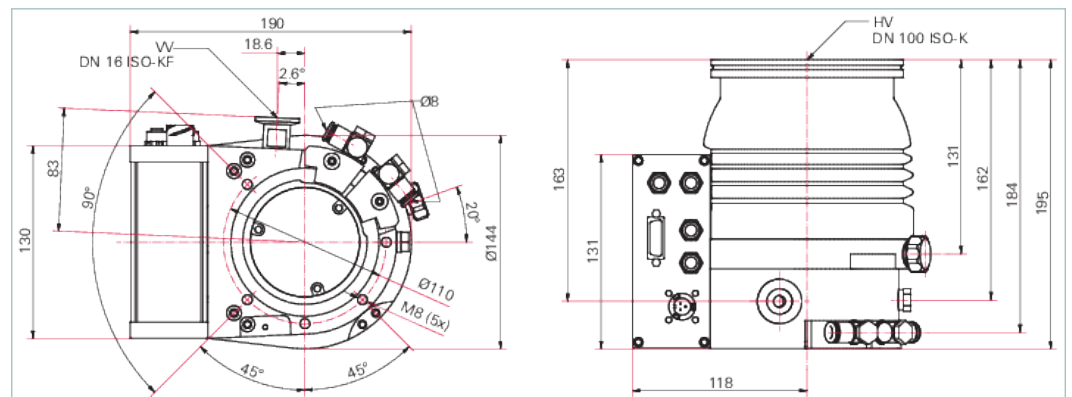
Similar Image

HiPace® 300 with TC 400, DN 100 ISO-K

- Rugged, powerful turbopump with a pumping speed of up to 260 l/s for N₂
- Integrated TC 400 drive electronics
- Ideal for analytical and industrial applications
- For installation in any orientation
- With integrated water cooling for maximum gas throughput
- Flexible through the ability to employ up to 4 accessories
- Ideal for fast cycles
- Extensive accessories expand the range of applications



Dimensions



Technical Data	HiPace® 300 with TC 400, DN 100 ISO-K
Bearing	Hybrid
Compression ratio for Ar	$> 1 \cdot 10^{11}$
Compression ratio for H ₂	$9 \cdot 10^5$
Compression ratio for He	$> 1 \cdot 10^8$
Compression ratio for N ₂	$> 1 \cdot 10^{11}$
Cooling method, optional	Air
Cooling method, standard	Water
Cooling water consumption	50 l/h
Cooling water temperature	15-35 °C 59-95 °F 288-308 K
Electronic drive unit	with TC 400
Flange (in)	DN 100 ISO-K
Flange (out)	DN 16 ISO-KF/G 1/4"

Technical Data		HiPace® 300 with TC 400, DN 100 ISO-K	
Fore-vacuum max. for N ₂		20 hPa 15 Torr 20 mbar	
Gas throughput at full rotational speed for Ar		7 hPa·l/s	
Gas throughput at full rotational speed for H ₂		> 14 hPa·l/s	
Gas throughput at full rotational speed for He		20 hPa·l/s	
Gas throughput at full rotational speed for N ₂		14 hPa·l/s	
Interfaces		RS-485, Remote	
Mounting orientation		in any orientation	
Operating voltage: V DC		24 (5) V DC	
Permissible magnetic field max.		5.5 mT	
Protection category		IP54	
Pumping speed for Ar		255 l/s	
Pumping speed for H ₂		220 l/s	
Pumping speed for He		255 l/s	
Pumping speed for N ₂		260 l/s	
Rotation speed ± 2 %		60,000 rpm 60,000 min ⁻¹	
Rotation speed variable		35 – 100 %	
Run-up time		1.8 min	
Sound pressure level		≤ 50 dB(A)	
Ultimate pressure according to PNEUROP		< 1 · 10 ⁻⁷ hPa < 7.5 · 10 ⁻⁸ Torr < 1 · 10 ⁻⁷ mbar	
Venting connection		G 1/8"	
Weight		6.7 kg 14.77 lb	

Order number	
HiPace® 300	PM P03 900

Accessories	
Mains cables	
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
RS-485 accessories	
Y-Connector M12 to RS-485	P 4723 010
USB converter to RS-485 interface	PM 061 207 -T
Connector M12 to RS-485	PM 061 270 -X
Termination resistor for RS-485	PT 348 105 -T
Power separator for RS-485	PT 348 132 -T
Adapters / connections TC 400/1200 and TM 700	
Y-connector, shielded, M12 for accessories	P 4723 013
Mains power socket TC 400/TM 700, straight	P 4723 100
Mains power socket, angled, for TC 400/TM 700	P 4723 101
Vibration damper	
Vibration damper for HiPace 300/400, DN 100 ISO-K/F	PM 006 459 -X
Centering ring with multifunctional coating	
Centering ring with multifunction coating, DN 100 ISO-K/F	PM 016 210 -U
Centering ring with multifunctional coating, including splinter shield	
Centering ring with multifunction coating and integrated splinter shield, DN 100 ISO-K/F	PM 016 211 -U
Centering ring with multifunctional coating, including protection screen	
Centering ring with multifunction coating and integrated protection screen, DN 100 ISO-K/F	PM 016 212 -U
Mounting kits for HiPace, including coated centering ring and bracket screws	
Mounting kit for HiPace 300 with DN 100 ISO-K, including coated centering ring and bracket screws	PM 016 365 -T
Mounting kits for HiPace, including coated centering ring, splinter shield and bracket screws	
Mounting kit for HiPace 300, DN 100 ISO-K, including coated centering ring, splinter shield and bracket screws	PM 016 366 -T
Mounting kits for HiPace, including coated centering ring, protection screen and bracket screws	
Mounting kit for HiPace 300, DN 100 ISO-K, including coated centering ring, protection screen and bracket screws	PM 016 367 -T
Venting accessory with small flange, G 1/8", hoses, air drier	
Screw-on flange, DN 16 ISO-KF, G 1/8"	PM 016 780 -T
Push-in fitting for 6 mm hose, G 1/8"	PM 016 781 -T
Push-in fitting for 8 mm hose, G 1/8"	PM 016 782 -T
Hose nozzle for 9 mm hose, G 1/8"	PM 016 783 -T
Banjo fitting	PM 016 787 -T
Screw-in flange, DN 10 ISO-KF, G 1/8"	PM 033 737 -T
Banjo fitting, small	PM 143 877 -T
TTV 001, dryer for venting turbopumps	PM Z00 121
Control and display units	
HPU 001, Handheld Programming Unit	PM 051 510 -T
DCU 002, Display Control Unit	PM 061 348 -T
Accessory for DCU/HPU	
Accessories package for HPU 001/PC	PM 061 005 -T

Accessories	
Accessories RS-485	
Interface cable, M12 m straight/M12 m straight, 3 m	PM 061 283 -T
Mains pack for wall/standard rail fitting	
TPS 310, mains pack for wall/standard rail fitting	PM 061 342 -T
Mains pack 19" rack module 3HU with front panel	
TPS 311, mains pack 19" rack module 3HU	PM 061 346 -T
Connection cables	
Connection cable for HiPace with TC 400/TM 700 to power supply TPS/DCU 310/311/400/401	PM 061 352 -T
Relay boxes suitable for TC 110, TC 400 and TCP 350	
Backing pump relay box, single phase 20 A, for TC 400 and TCP 350, M12 plug	PM 061 375 -T
Wall rail fitting	
Wall rail fitting for TPS 110/180/310/400	PM 061 392 -T
Front panel kit as spare part	
Front panel kit for TPS 311	PM 061 395 -T
Profibus accessories	
Remote adapter for RS-485	PM 061 649 -X
Adapter and control cables	
Control cable for pumping stations 0.7 m	PM 061 675 AT
HiPace - ACP connection cable	PM 071 142 -X
Extension cables	
Extension cable M12 on M12	PM 061 747 -T
Interface cables	
Interface cable, M12 m straight/ M12 m angled 0.7 m	PM 061 791 -T
Shielded relay boxes suitable for TC 110/TC 400 with PB, TC 1200 and TM 700	
Relay box, shielded, for backing pumps, 1-phase 7 A for TC 400/1200, TM 700 and TCP 350, M12	PM 071 284 -X
DCU with integrated power supply	
DCU 310, Display control unit incl. power supply	PM C01 822
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
Venting valve (normally closed)	
Venting valve, shielded, 24 V DC, G 1/8", for connection to TC 400/1200 and TM 700	PM Z01 291
Venting valve, shielded, 24 V DC, G 1/8", for connecting to TC 400,1200 and TM 700 with twisted plug 270°	PM Z01 292
Air coolings (unshielded)	
Air cooling for HiPace 300 with TC 400	PM Z01 302
Air coolings 115/230 V	
Air cooling for HiPace 300/450, 115 V	PM Z01 308
Air cooling for HiPace 300/450, 230 V	PM Z01 309
Sealing gas valve, shielded (normally closed)	
Sealing gas valve, shielded for HiPace 300 with TC 400 and TM 700, TCP 350	PM Z01 312
Sealing gas throttle	
Sealing gas throttle for HiPace 300	PM Z01 317

Accessories	
Power failure venting units (normally open)	
Power failure venting valve, shielded, 24 V DC, G 1/8" for connection to TC 400, TM 700 and TC 1200	PM Z01 331
Pressure Sensors	
TIC 010, Adapter for two sensors	PT R70 000
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 kit with collar flange, coated centering ring, Hexagon bolts	
Mounting kit for DN 100 ISO-K to ISO-F, with collar flange, coated centering ring, hexagon bolts	PM 016 940 -T
Mounting kit with collar flange, coated centering ring with splinter shield, hexagon bolts	
Mounting kit for DN 100 ISO-K to ISO-F, with collar flange, coated centering ring with splinter shield, hexagon bolts	PM 016 941 -T
Mounting kit with collar flange, coated centering ring with protection screen, hexagon bolts	
Mounting kit for DN 100 ISO-K to ISO-F, with collar flange, coated centering ring with protection screen, hexagon bolts	PM 016 942 -T
DN ISO-K/F Mounting kit with collar flange, coated centering ring, stud screws	
Mounting kit for DN 100 ISO-K to ISO-F, with collar flange, coated centering ring, stud screws	PM 016 945 -T
Mounting kit with collar flange, coated centering ring with splinter shield, stud screws	
Mounting kit for DN 100 ISO-K to ISO-F, with collar flange, coated centering ring with splinter shield, stud screws	PM 016 946 -T
Mounting kit with collar flange, coated centering ring with protection screen, stud screws	
Mounting kit for DN 100 ISO-K to ISO-F, with collar flange, coated centering ring with protection screen, stud screws	PM 016 947 -T
Sealing gas monitoring unit	
Sealing gas monitoring unit G 1/8"	PM 016 911 -U

VACUUM SOLUTIONS FROM A SINGLE SOURCE

Pfeiffer Vacuum stands for innovative and custom vacuum solutions worldwide, technological perfection, competent advice and reliable service.

COMPLETE RANGE OF PRODUCTS

From a single component to complex systems:

We are the only supplier of vacuum technology that provides a complete product portfolio.

COMPETENCE IN THEORY AND PRACTICE

Benefit from our know-how and our portfolio of training opportunities!

We support you with your plant layout and provide first-class on-site service worldwide.

Are you looking for a
perfect vacuum solution?
Please contact us:

Pfeiffer Vacuum GmbH
Headquarters · Germany
T +49 6441 802-0
info@pfeiffer-vacuum.de

www.pfeiffer-vacuum.com

All data subject to change without prior notice.

