



HiPace® 300 with TC 110, DN 100 CF-F

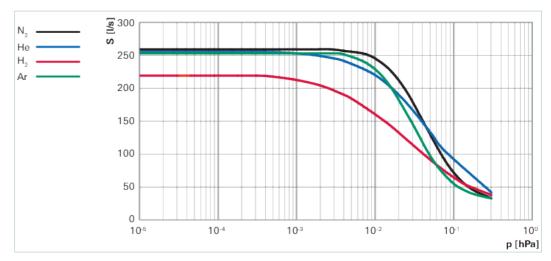


THEIFER VACUUM

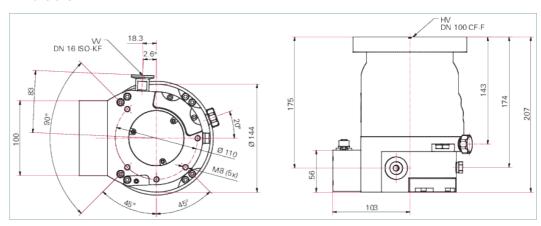
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HiPace® 300 with TC 110, DN 100 CF-F

- Rugged, powerful turbopump with a pumping speed of up to 260 l/s for N₂
- Integrated TC 110 drive electronics
- Ideal for UHV applications
- For installation in any orientation
- Extensive accessories expand the range of applications



Dimensions



Technical Data	HiPace® 300 with TC 110, DN 100 CF-F
Bearing	Hybrid
Compression ratio for Ar	> 1 · 10 ¹¹
Compression ratio for H ₂	9 · 10 ⁵
Compression ratio for He	> 1 · 10 ⁸
Compression ratio for N ₂	> 1 · 10 ¹¹
Cooling method, optional	Water
Cooling method, standard	Air
Cooling water consumption	50 l/h
Cooling water temperature	15-35 °C 59-95 °F 288-308 K
Electronic drive unit	with TC 110
Flange (in)	DN 100 CF-F
Flange (out)	DN 16 ISO-KF/G 1/4"
Fore-vacuum max. for N ₂	15 hPa 11.25 Torr 15 mbar
Gas throughput at full rotational speed for Ar	2 hPa·l/s

Technical Data	HiPace® 300 with TC 110, DN 100 CF-F
Gas throughput at full rotational speed for H ₂	> 14 hPa·l/s
Gas throughput at full rotational speed for He	8 hPa·l/s
Gas throughput at full rotational speed for N ₂	5 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
Pumping speed range	300 l/s
Rotation speed ± 2 %	60,000 rpm 60,000 min ⁻¹
Run-up time	3.5 min
Sound pressure level	≤ 50 dB(A)
Ultimate pressure according to PNEUROP	< 5 · 10 ⁻¹⁰ hPa < 3.75 · 10 ⁻¹⁰ Torr < 5 · 10 ⁻¹⁰ mbar
Venting connection	G 1/8"
Weight	8.2 kg 18.08 lb

Order number	
HiPace® 300	PM P03 991

Adapters/connections TC 110 Enclosure for plug, spraywater-protected, 15-pole, D-sub Mains power plug for TC 110/120 and mating plug for E74 interface, straight Mains power plug angled for TC 110/120 and mating plug for interface E74 TCS 11, adapter for TC 110/120 with interface RS-485, 4 accessory ports and coupling set TCS 12, adapter for TC 110/120 with interface RS-485, 4 accessory ports and coupling set TCS 13, adapter for TC 110/120 with interface RS-485, 4 accessory ports and coupling set TCS 13, adapter for TC 110/120 with interface RS-485, 4 accessory ports and coupling set TCS 13, adapter for TC 110/120 with interface RS-485, 4 accessory ports and coupling set TCS 13, adapter for TC 110/120 with interface RS-485, 4 accessory ports and coupling set TCS 13, adapter for TC 110/120 with interface RS-485, 4 accessory ports and coupling set TCS 13, adapter for TC 110/120 with interface RS-485, 4 accessory ports and coupling set TCS 13, adapter for TC 110/120 with interface RS-485, 4 accessory ports and coupling set TCS 13, adapter for TC 110/120 with interface RS-485, 4 accessory ports and coupling set TCS 13, adapter for TC 110/120 with interface RS-485, 4 accessory ports and coupling set TCS 13, adapter for TC 110/120 with interface RS-485, 4 accessory ports and coupling set TCS 13, adapter for TC 110/120 with interface RS-485, 4 accessory ports and coupling set TCS 13, adapter for TC 110/120 with interface RS-485, 4 accessory ports and coupling set TCS 13, adapter for TC 110/120 with interface RS-485, 4 accessory ports and coupling set TCS 13, adapter for TC 110/120 with interface PM 061 635 - U TS 456 4309 ZE TS 456 430	Accessories	
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Vibration damper for HiPace 300/400, DN 100 CF-F Splinter shield for Pfeiffer Vacuum turbo pumps Splinter shield for turbopumps, DN 100 CF-F Protection screen for Pfeiffer Vacuum turbo pumps Protection screen for DN 100 CF-F Water cooling Water cooling Water cooling for HiPace 300 with push-in fitting 8 mm Water cooling for HiPace 300 with 6 mm push-in fitting Nater cooling for HiPace 300 with tube fitting Nater cooling for HiPace 300 with tube fitting 1/4" Water cooling for HiPace 300 with hose nozzle, 9.5 mm Set of hexagon screws for trough hole Set of hexagon screws for trough hole Set of stud screws for trough hole Set of stud screws for trough hole, DN 100 CF-F F Venting accessory with small flange, G 1/8", hoses, air drier Screw-on flange, DN 16 ISO-KF, G 1/8" Push-in fitting for 6 mm hose, G 1/8" Push-in fitting for 8 mm hose, G 1/8" Push-in fitting for 8 mm hose, G 1/8" Phy 016 783 -T Banjo fitting Phy 016 783 -T Banjo fitting Screw-in flange, DN 10 ISO-KF, G 1/8" Phy 016 783 -T Banjo fitting Screw-in flange, DN 10 ISO-KF, G 1/8" Phy 016 787 -T Screw-in flange, DN 10 ISO-KF, G 1/8" Phy 016 787 -T Screw-in flange, DN 10 ISO-KF, G 1/8" Phy 016 787 -T Phy 016 781 -T Phy 016 781 -T Phy 016 781 -T Phy 016 782 -T Phy 016 782 -T Phy 016 783 -T Phy 016 783 -T Phy 016 782 -T Phy 016 783 -T P	Power separator for RS-485	PT 348 132 -T
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Protection screen for DN 100 CF-F Water cooling Water cooling for HiPace 300 with push-in fitting 8 mm PM 016 624 -T Water cooling for HiPace 300 with 6 mm push-in fitting 1/4" Water cooling for HiPace 300 with tube fitting 1/4" PM 016 636 -T Water cooling for HiPace 300 with hose nozzle, 9.5 mm PM 016 655 -T Set of hexagon screws for trough hole Set of hexagon screws for through hole, DN 100 CF-F Set of stud screws for through hole, DN 100 CF-F Venting accessory with small flange, G 1/8", hoses, air drier Screw-on flange, DN 16 ISO-KF, G 1/8" Push-in fitting for 8 mm hose, G 1/8" Phose nozzle for 9 mm hose, G 1/8" Phose nozz		
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8 mm Water cooling for HiPace 300 with 6 mm push- in fitting Water cooling for HiPace 300 with tube fitting 1/4" PM 016 636 -T Water cooling for HiPace 300 with hose nozzle, 9.5 mm PM 016 637 -T Set of hexagon screws for trough hole Set of hexagon screws for through hole, DN 100 CF-F Set of stud screws for trough hole Set of stud screws for through hole, DN 100 CF-F Wonting accessory with small flange, G 1/8", hoses, air drier Screw-on flange, DN 16 ISO-KF, G 1/8" Push-in fitting for 6 mm hose, G 1/8" Push-in fitting for 8 mm hose, G 1/8" 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 016 787 -T	Water cooling	
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Set of stud screws for tapped hole, DN 100 CF-		PWI ZUU 121
		PM 016 866 -T

Accessories	
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 RS-485	
Interface cable, M12 m straight/M12 m straight, 3 m	PM 061 283 -T
Accessories Diaphragm pumps	FWI 001 203 -1
TPS 180, mains pack for wall/standard rail	
fitting	PM 061 341 -T
Mains pack 19" rack module 3HU with front	
panel	
TPS 181, mains pack 19" rack module 3HU	PM 061 345 -T
Connection cables	
Connection cable with RS-485 interface for TC	
110/120 to power supply	PM 061 350 -T
Connection cable with RS-485 interface and 2	DM 064 254 T
accessory ports for TC110/120 to power supply Connection cable with RS-485 interface and 3	PM 061 351 -T
accessory ports for TC 110/120 to power supply	PM 061 512 -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	PM 061 552 -T
Heating suitable for TC 110 and TC 400	
Heating jacket for HiPace 300 with TC 110, 230	
V AC, safety plug	PM 061 363 -T
Heating jacket for HiPace 300 with TC 110, 208	DM 004 204 T
V AC, UL plug Heating jacket for HiPace 300 with TC 110, 115	PM 061 364 -T
V AC, UL plug	PM 061 365 -T
Relay boxes suitable for TC 110, TC 400 and	1 111 001 000 1
TCP 350	
Relay box for backing pump, single phase 20 A	
for TC 110/120 and TCP 350, M8 plug	PM 061 373 -T
Wall rail fitting	
Wall rail fitting for TPS 110/180/310/400	PM 061 392 -T
Front panel kit as spare part	DM 004 004 T
Front panel kit for TPS 181	PM 061 394 -T
Adapter and control cables Control cable for valve	PM 061 687 -T
HiPace - ACP connection cable	PM 071 142 -X
Extension cables	1 W 07 1 142 -X
Extension cable M8 on M8	PM 061 783 -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 7A for TC 110/120 and TCP 350, plug	
M8	PM 071 282 -X
DCU with integrated power supply	
DCU 180, Display control unit incl. power supply	PM C01 821
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	DM 704 000
connection to TC 110/120	PM Z01 290

Accessories	
Air coolings (unshielded)	
Air cooling for HiPace 300/450 with TC 110/120	PM Z01 301
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 110/120	PM Z01 311
Sealing gas throttle	
Sealing gas throttle for HiPace 300	PM Z01 317
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
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
OFHC Copper (Oxygen Free)	
Copper Gasket, OFHC-copper, DN 100 CF	490DFL100-S10
FKM cut from sheet material	
Elastomer Gasket, FKM, DN 100 CF	402DFL100-S2
FKM with centering lip; heat-molded	
Elastomer Gasket, FKM, DN 100 CF	402DFL100-Z
OFHC Copper (Oxygen Free), Vacuum- annealed	
Copper Gasket, Vacuum-annealed, DN 100 CF	490DFL100-G-S5
OFHC Copper (Oxygen Free), Silver-plated	
Copper Gasket, Silver-plated, DN 100 CF	490DFL100-S-S5
OFHC Copper (Oxygen Free), Silver-plated, Vacuum-annealed	
Copper Gasket, Silver-plated, Vacuum- annealed, DN 100 CF	490DFL100-S-G-S5

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