



HiPace[®] 300 for TCP 350, DN 100 CF-F

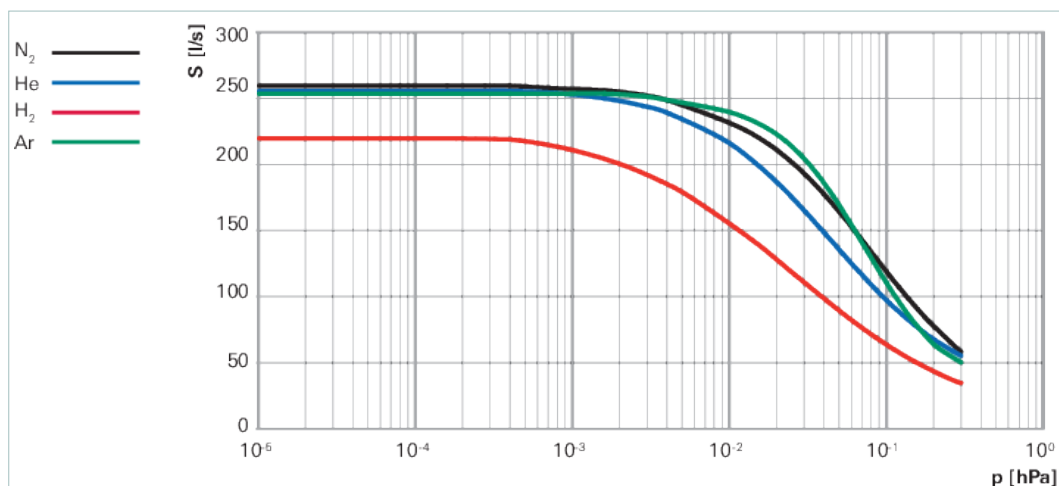




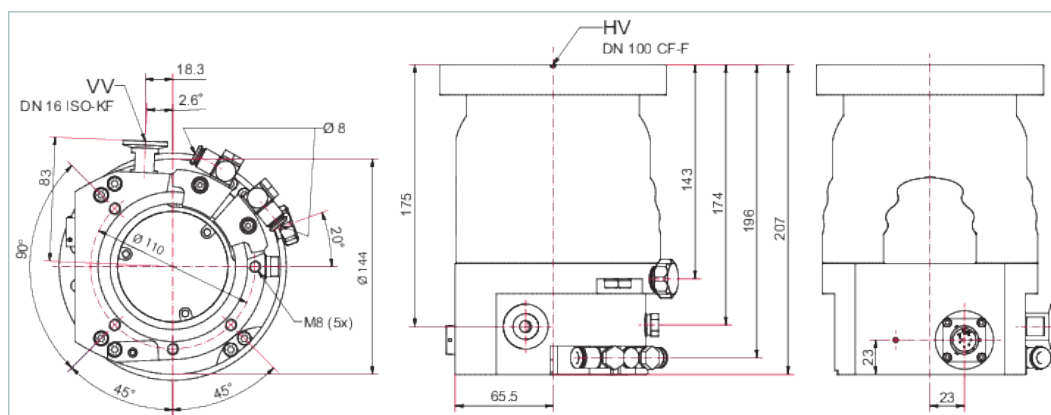
Similar Image

HiPace® 300 for TCP 350, DN 100 CF-F

- Rugged, powerful turbopump with a pumping speed of up to 260 l/s for N₂
- For external TCP 350 drive electronics
- Ideal for applications that require separate installation of pump and drive
- For installation in any orientation
- Extensive accessories expand the range of applications



Dimensions



Technical Data	HiPace® 300 for TCP 350, DN 100 CF-F
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	$> 1 \cdot 10^{11}$
Connection flange (in)	DN 100 CF-F
Connection flange (out)	DN 16 ISO-KF/G 1/4"
Cooling method, optional	Air
Cooling method, standard	Water
Cooling water flow	50 l/h
Cooling water flow, max.	50 l/h
Cooling water flow, min.	50 l/h
Cooling water temperature	15-35 °C 59-95 °F 288-308 K
Electronic drive unit	for TCP 350

Technical Data	HiPace® 300 for TCP 350, DN 100 CF-F
Final pressure without gas ballast	$< 5 \cdot 10^{-10}$ hPa $< 3.75 \cdot 10^{-10}$ Torr $< 5 \cdot 10^{-10}$ mbar
Fore-vacuum max. for N ₂	17 hPa 12.75 Torr 17 mbar
Gas throughput at full rotational speed for Ar	4 hPa·l/s
Gas throughput at full rotational speed for H ₂	> 14 hPa·l/s
Gas throughput at full rotational speed for He	11 hPa·l/s
Gas throughput at full rotational speed for N ₂	7 hPa·l/s
Mounting orientation	Any
Permissible radial 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	2.5 min
Separate electronic drive unit	YES
Sound pressure level	≤ 50 dB(A)
Ultimate pressure according to PNEUROP	$< 5 \cdot 10^{-10}$ hPa $< 3.75 \cdot 10^{-10}$ Torr $< 5 \cdot 10^{-10}$ mbar
Venting connection	G 1/8"
Weight	7.8 kg 17.2 lb

Order number	
HiPace® 300	PM P03 994

Accessories	
Adapters (electrical) Adapters and control cables	
Adapter cable, TCP 350 - backing pump relay box, M8	PM 061 376 -T
Adapter cable, TCP 350 - backing pump relay box, M12	PM 061 377 -T
Adapters (electrical) RS-232/485	
USB RS-485 converter	PM 061 207 -T
Cables Connection cables	
Connection cable from TCP 350 to HiPace with 2 accessory ports M8, 3 m	PM 061 353 -T
Connection cable from TCP 350 to HiPace with 2 accessory ports M12, 3 m	PM 061 356 -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
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 for backing pumps, single phase 20 A for TC 400 and TCP 350, M12 plug	PM 061 375 -T
Relay box, shielded, for backing pumps, 1-phase 7A for TC 110/120 and TCP 350, plug M8	PM 071 282 -X
Relay box, shielded, for backing pumps, 1-phase 7 A for TC 400/1200, TM 700 and TCP 350, M12	PM 071 284 -X
Control Devices External drive units	
TCP 350, drive electronics	PM C01 740
TCP 350 PB, drive electronics, Profibus	PM C01 741
TCP 350 DN, drive electronics, DeviceNet	PM C01 742
Cooling Air cooling	
Air cooling for HiPace 300/450 with TC 110/120	PM Z01 301
Air cooling for HiPace 300 with TC 400	PM Z01 302
Air cooling for HiPace 300, 115 V	PM Z01 308
Air cooling for HiPace 300, 230 V	PM Z01 309
FKM cut from sheet material	
Elastomer seal, FKM, DN 100 CF	402DFL100-S2
FKM with centering lip; heat-molded	
Elastomer seal, FKM, DN 100 CF	402DFL100-Z
Heating Heating jackets	
Heating sleeve for HiPace® 300 with TC 110, 230 V AC, safety plug	PM 061 363 -T
Heating sleeve for HiPace® 300 with TC 110, 208 V AC, ul plug	PM 061 364 -T
Heating sleeve for HiPace® 300 with TC 110, 115 V AC, ul plug	PM 061 365 -T
Heating sleeve for HiPace® 300 with TC 400, 230 V AC, safety plug	PM 061 366 -T
Heating sleeve for HiPace® 300 with TC 400, 208 V AC, ul plug	PM 061 367 -T
Heating sleeve for HiPace® 300 with TC 400, 115 V AC, ul plug	PM 061 368 -T
Mounting CF-F, Mounting kits	
Hexagon Screw Set for Flanges with Through-Holes, DN 100 CF-F	PM 016 690 -T
Set of stud screws for flanges with through-hole, DN 100 CF-F	PM 016 734 -T
Set of stud screws for flanges with a threaded hole, DN 100 CF-F	PM 016 866 -T

Accessories	
OFHC Copper (Oxygen Free)	
Copper Gasket, OFHC-copper, DN 100 CF	490DFL100-S10
OFHC Copper (Oxygen Free), Silver-plated, Vacuum-annealed	
Copper Gasket, Silver-plated, Vacuum-Annealed, DN 100 CF	490DFL100-S-G-S5
OFHC Copper (Oxygen Free), Vacuum-annealed	
Copper Gasket, Vacuum-annealed, DN 100 CF	490DFL100-G-S5
Protection CF-F, splinter shields, protection screens	
Splinter shield for turbopumps, DN 100 CF-F	PM 016 315
Protection screen for DN 100 CF-F	PM 016 336
Protection Sealing gas throttles	
Sealing gas throttle for HiPace 300	PM Z01 317
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 Sealing gas valves, shielded (normally closed)	
Sealing gas valve, shielded for HiPace 300 with TC 110/120	PM Z01 311
Sealing gas valve, shielded for HiPace 300 with TC 400 and TM 700, TCP 350	PM Z01 312
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
Power failure venting valve, shielded, 24 V DC, G 1/8" for connection to TC 400, TM 700 and TC 1200	PM Z01 331
Venting Venting accessories	
Flange with Pipe Thread, 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
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, Drier for Venting Turbopumps	PM Z00 121
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, 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 as well as TM 700 with an 270° angled plug	PM Z01 292
Vibration Reduction Vibration dampers	
Vibration damper for HiPace 300/400, DN 100 CF-F	PM 006 488 -X



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