



HiPace® 2800 IT with TC 1200, DN 250 ISO-F

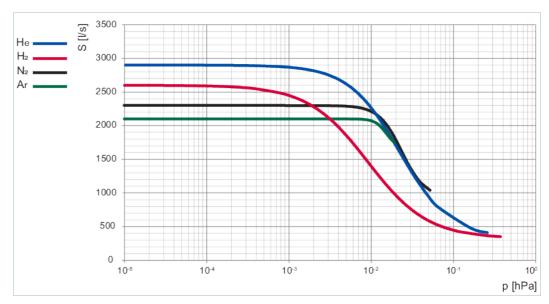


PACE

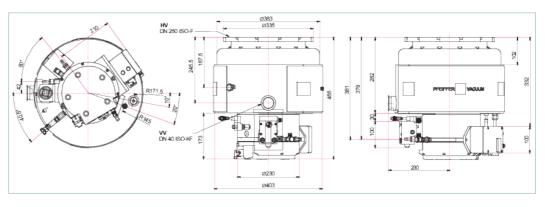
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HiPace® 2800 IT with TC 1200, DN 250 ISO-F

- Ideal for ion implantation systems
- Optimized pumping speed for light gases
- The nickel-plated rotor guarantees resistivity to the dopants used
- The intelligent temperature management system reduces process condensation and deposits
- Semi S2 and UL/CSA certification



Dimensions



Technical Data	HiPace® 2800 IT with TC 1200, DN 250 ISO-F
Bearing	Hybrid
Compression ratio for Ar	> 1 · 108
Compression ratio for H ₂	$4 \cdot 10^{3}$
Compression ratio for He	6 · 10 ⁴
Compression ratio for N ₂	> 1 · 10 ⁸
Connection flange (in)	DN 250 ISO-F
Connection flange (out)	DN 40 ISO-KF
Cooling method	Water
Cooling method, optional	Water
Cooling water connection	G 1/4"
Cooling water flow	100 l/h
Cooling water flow, max.	100 l/h
Cooling water flow, min.	100 l/h

Technical Data	HiPace® 2800 IT with TC 1200, DN 250 ISO-F
Cooling water temperature	15-25 °C 59-77 °F 288-298 K
Current, max.	10 A
Electronic drive unit	TC 1200
Final pressure according to PNEUROP	< 1 · 10 ⁻⁷ hPa < 7.5 · 10 ⁻⁸ Torr < 1 · 10 ⁻⁷ mbar
Final pressure without gas ballast	1 · 10 ⁻⁷ hPa 7.5 · 10 ⁻⁸ Torr 1 · 10 ⁻⁷ mbar
For electronic drive unit	TCP 1200
Fore-vacuum max. for N ₂	0.8 hPa 0.6 Torr 0.8 mbar
Gas throughput at 0.1 hPa HV pressure for Ar	> 32 hPa·l/s
Gas throughput at 0.1 hPa HV pressure for H ₂	42 hPa·l/s
Gas throughput at 0.1 hPa HV pressure for He	62 hPa·l/s
Gas throughput at 0.1 hPa HV pressure for N ₂	> 50 hPa·l/s
Gas throughput at final rotation speed for Ar	12 hPa·l/s
Gas throughput at final rotation speed for H ₂	75 hPa·l/s
Gas throughput at final rotation speed for He	24 hPa·l/s
Gas throughput at final rotation speed for N ₂	18 hPa·l/s
Gas throughput at maximum rotation speed for Ar, heated pump at 65 °C	9 hPa·l/s
Gas throughput at maximum rotation speed for Ar, heated pump at 75 $^{\circ}\text{C}$	6 hPa·l/s
Gas throughput at maximum rotation speed for ${\rm H_2},$ heated pump at 65 °C	30 hPa·l/s
Gas throughput at maximum rotation speed for ${\rm H_2}$, heated pump at 75 °C	18 hPa·l/s
Gas throughput at maximum rotation speed for $\rm N_2$, heated pump at 65 °C	13 hPa·l/s
Gas throughput at maximum rotation speed for N_2 , heated pump at 75 °C	7 hPa·l/s
I/O interfaces	E74, RS-485
Integrated power supply pack	YES
Mounting orientation	0° (HV flange top) – 90°
Permissible radial magnetic field max.	3.4 mT
Power consumption heating sleeve, max.	1100 W
Power consumption max.	1350 VA
Protection degree	IP20; Type 1
Pumping speed for Ar	2100 l/s
Pumping speed for H ₂	2600 l/s
Pumping speed for He	2900 l/s
Pumping speed for N ₂	2300 l/s
Rotation speed ± 2 %	27,300 rpm 27,300 min ⁻¹
Rotation speed variable	50 – 100 %
Run-up time	8.6 min
Sound pressure level	<50 dB(A)
Venting connection	G 1/8"
Weight	62 kg 136.69 lb

Order number	
HiPace® 2800 IT	PM P05 241

Accessories	
Adapters (electrical) Profibus	
Y-distributor M12B for Profibus	P 4723 015
Y-distributor with M12B cable for Profibus,	
length 0.5 m	P 4723 018
T-distributor M12B for Profibus	P 4723 020
Terminal resistor M12B for Profibus	P 4723 030
Plug and socket M12B for Profibus	PM 051 927 -T
Remote adapter for RS-485	PM 061 649 -X
Line filter for cable fitting	PM 061 806
Adapters (electrical) PV-Can	
TIC 010, adapter for two sensors	PT R70 000
Adapters (electrical) Remote	
Y-Connector, shielded, M12 for accessories	P 4723 013
Adapters (electrical) RS-232/485	
Y-connector M12 for RS-485	P 4723 010
USB RS-485 converter	PM 061 207 -T
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 pumping stations 0.7 m	PM 061 675 AT
HiPace – ACP connection cable	PM 071 142 -X
Cables Extension cables	
Extension cable M12 on M12	PM 061 747 -T
Cables Mains cables / Power cords	
Mains cable 230 V AC, CEE 7/7 to HAN 3A, 3	
m	P 4564 309 HA
Mains cable 208 V AC, NEMA 6-15 to HAN 3A, 3 m	P 4564 309 HB
Mains cable 115 V AC, NEMA 5-15 to HAN 3A,	
3 m	PM 061 187 -X
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
Control Devices Backing pump	
Relay box, shielded, for backing pumps, 1-	
phase 7 A for TC 400/1200, TM 700 and TCP	DM 074 004 V
350, M12	PM 071 284 -X
Relay box, shielded, for backing pumps, 1- phase 20 A for TC 400/1200, TM 700 and TCP	
350, M12	PM 071 285 -X
Control Devices Power supplies and control	1 III 07 1 200 -A
displays	
OmniControl 001, rack unit without integrated	
power supply pack	PE D42 100 0
OmniControl 001 Mobile, control units	PE D22 000 0
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
Monitoring Sealing gas monitoring units	
Sealing gas monitoring unit G 1/8"	PM 016 911 -U

Accessories	
Mounting DN ISO-F, Mounting kits	
Mounting kit for DN 250 ISO-F, including coated	
centering ring, hexagon screws	PM 016 480 -T
Mounting kit for DN 250 ISO-F, including coated	
centering ring, splinter shield, hexagon screws	PM 016 481 -T
Mounting kit for DN 250 ISO-F, including coated	
centering ring, protective screen, hexagon	
screws	PM 016 482 -T
Mounting kit for DN 250 ISO-F, including coated	DM 040 405 T
centering ring, stud screws	PM 016 485 -T
Mounting kit for DN 250 ISO-F, including coated	PM 016 486 -T
centering ring, splinter shield, stud screws Mounting kit for DN 250 ISO-F, including coated	PW 010 400 -1
centering ring, protective screen, stud screws	PM 016 487 -T
Mounting DN ISO-K/-F, sealings	1 10 10 407 -1
Centering ring with multifunction coating, DN	
250 ISO-K/-F	PM 016 225 AU
Protection DN ISO-K/-F, sealings, splinter	1 111 010 220 7.0
shields, protection screens	
Centering ring with multifunction coating and	
integrated splinter shield, DN 250 ISO-K/-F	PM 016 226 AU
Centering ring with multifunction coating and	
integrated protection screen, DN 250 ISO-K/-F	PM 016 227 AU
Stainless steel and FKM	
Connection kit for mounting pumps, DN 40 ISO-	
KF	120SWS040-1000
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	
1200–2800 with TC 1200	PM Z01 322
Venting Venting accessories	
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 400/1200 and TM 700	PM Z01 291

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