

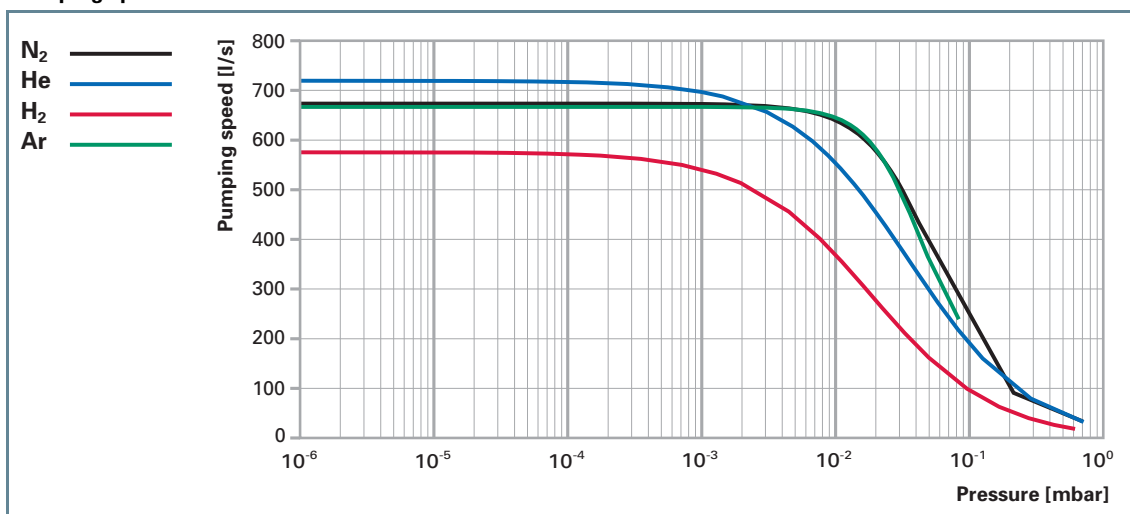
HiPace™ 700

**Maximum vacuum performance
in a compact design with a pumping speed
of 685 l/s for N₂:**



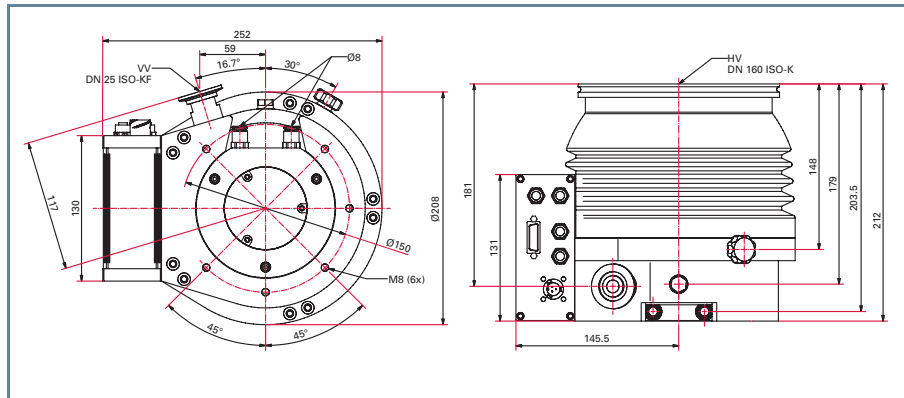
- ▶ Minimum footprint and maximum reliability
- ▶ High gas throughput and high pumping speed
- ▶ Suitable for industrial environments - Protection class IP 54
- ▶ Semi S2 and UL/CSA certification
- ▶ Monitoring of operating data

Pumping speed

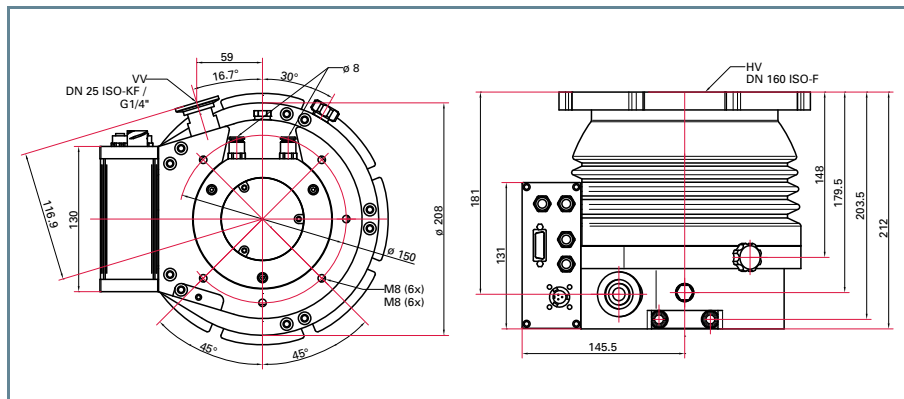


HiPace™ 700

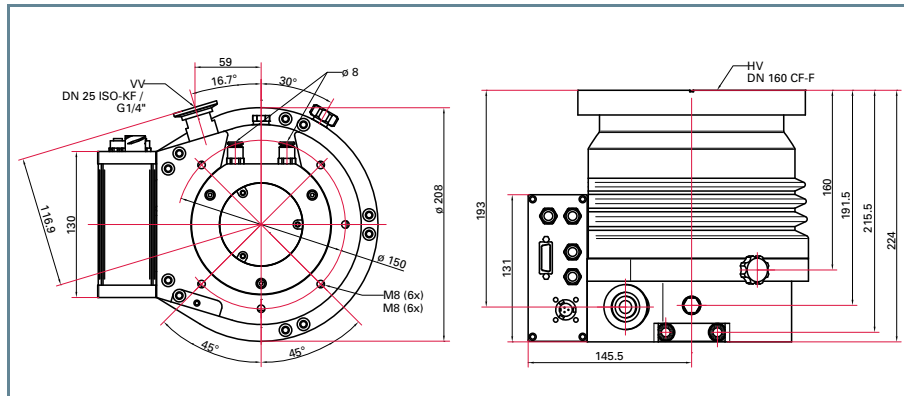
Dimensions



HiPace™ 700, with TC 400, DN 160 ISO-K



HiPace™ 700, with TC 400, DN 160 ISO-F



HiPace™ 700, with TC 400, DN 160 CF-F

Technical data	HiPace™ 700, with TC 400, DN 160 ISO-K	HiPace™ 700, with TC 400, DN 160 CF-F	HiPace™ 700, with TC 400, DN 160 ISO-F
Connection nominal diameter			
Flange (in)	DN 160 ISO-K	DN 160 CF-F	DN 160 ISO-F
Flange (out)	DN 25 ISO-KF	DN 25 ISO-KF	DN 25 ISO-KF
Venting connection	G 1/8"	G 1/8"	G 1/8"
Pumping speed			
Pumping speed for H ₂	555 l/s	555 l/s	555 l/s
Pumping speed for He	655 l/s	655 l/s	655 l/s
Pumping speed for N ₂	685 l/s	685 l/s	685 l/s
Pumping speed for Ar	665 l/s	665 l/s	665 l/s
Compression			
Compression ratio for H ₂	4·10 ⁵	4·10 ⁵	4·10 ⁵
Compression ratio for He	3·10 ⁷	3·10 ⁷	3·10 ⁷
Compression ratio for N ₂	> 1·10 ¹¹	> 1·10 ¹¹	> 1·10 ¹¹
Compression ratio for Ar	> 1·10 ¹¹	> 1·10 ¹¹	> 1·10 ¹¹
Fore Vacuum max. for N₂	11 mbar	11 mbar	11 mbar
Gas throughput			
Gas throughput at full rotational speed for H ₂	> 14 mbar l/s	> 14 mbar l/s	> 14 mbar l/s
Gas throughput at full rotational speed for He	10 mbar l/s	10 mbar l/s	10 mbar l/s
Gas throughput at full rotational speed for N ₂	6.5 mbar l/s	6.5 mbar l/s	6.5 mbar l/s
Gas throughput at full rotational speed for Ar	3.5 mbar l/s	3.5 mbar l/s	3.5 mbar l/s
Ultimate pressure with OnTool™ DryPump	< 1·10 ⁻⁷ mbar	< 5·10 ⁻¹⁰ mbar	< 1·10 ⁻⁷ mbar
Rotation speed ±2%	49200 rpm	49200 rpm	49200 rpm
Run-up time	2 min	2 min	2 min
Cooling method, standard	Water	Water	Water
Cooling method, optional	Air	Air	Air
Cooling water consumption	100 l/h	100 l/h	100 l/h
Cooling water temperature	15-35 °C	15-35 °C	15-35 °C
Permissible magnetic field max.	6 mT	6 mT	6 mT
Sound pressure level	≤ 50 dB (A)	≤ 50 dB (A)	≤ 50 dB (A)
Protection category	IP 54	IP 54	IP 54
Interfaces	RS-485, Remote	RS-485, Remote	RS-485, Remote
Weight	11.5 kg	17.4 kg	12.1 kg
Order number pump	PM P03 933	PM P03 934	PM P03 935

	HiPace™ 700 for TCP 350, DN 160 ISO-K	HiPace™ 700 for TCP 350, DN 160 CF-F	HiPace™ 700 for TCP 350, DN 160 ISO-F
	DN 160 ISO-K	DN 160 CF-F	DN 160 ISO-F
	DN 25 ISO-KF	DN 25 ISO-KF	DN 25 ISO-KF
	G 1/8"	G 1/8"	G 1/8"
	555 l/s	555 l/s	555 l/s
	655 l/s	655 l/s	655 l/s
	685 l/s	685 l/s	685 l/s
	665 l/s	665 l/s	665 l/s
	4 · 10 ⁵	4 · 10 ⁵	4 · 10 ⁵
	3 · 10 ⁷	3 · 10 ⁷	3 · 10 ⁷
	> 1 · 10 ¹¹	> 1 · 10 ¹¹	> 1 · 10 ¹¹
	> 1 · 10 ¹¹	> 1 · 10 ¹¹	> 1 · 10 ¹¹
	10 mbar	10 mbar	10 mbar
	> 8 mbar l/s	> 8 mbar l/s	> 8 mbar l/s
	5 mbar l/s	5 mbar l/s	5 mbar l/s
	3 mbar l/s	3 mbar l/s	3 mbar l/s
	1.5 mbar l/s	1.5 mbar l/s	1.5 mbar l/s
	< 1 · 10 ⁻⁷ mbar	< 5 · 10 ⁻¹⁰ mbar	< 1 · 10 ⁻⁷ mbar
	49200 rpm	49200 rpm	49200 rpm
	5.5 min	5.5 min	5.5 min
	Water	Water	Water
	Air	Air	Air
	100 l/h	100 l/h	100 l/h
	15-35 °C	15-35 °C	15-35 °C
	6 mT	6 mT	6 mT
	≤ 50 dB (A)	≤ 50 dB (A)	≤ 50 dB (A)
	IP 54	IP 54	IP 54
	RS-485, Remote	RS-485, Remote	RS-485, Remote
	10.6 kg	16.5 kg	11.2 kg
	PM P04 080	PM P04 081	PM P04 082

Accessories	HiPace™ 700, with TC 400, DN 160 ISO-K	HiPace™ 700, with TC 400, DN 160 CF-F	HiPace™ 700, with TC 400, DN 160 ISO-F
Order number pump	PM P03 933	PM P03 934	PM P03 935
Power supplies/power			
DCU - power supply with display control unit	PM C01 823	PM C01 823	PM C01 823
TPS - mains pack for wall/standard rail fitting	PM 061 343-T	PM 061 343-T	PM 061 343-T
TPS - mains pack 19" rack module 3 RU	PM 061 347-T	PM 061 347-T	PM 061 347-T
Control units			
DCU - Display Control Unit	PM 061 348-T	PM 061 348-T	PM 061 348-T
HPU - Handheld Programming Unit	PM 051 510-T	PM 051 510-T	PM 051 510-T
Accessories for HPU	PM 061 005-T	PM 061 005-T	PM 061 005-T
Mains cable DCU/TPS/TCP, 3 m			
230 V AC mains cable with Euro-style safety plug	P 4564 309 ZA	P 4564 309 ZA	P 4564 309 ZA
115 V AC mains cable with UL plug	P 4564 309 ZE	P 4564 309 ZE	P 4564 309 ZE
208 V AC mains cable with UL plug	P 4564 309 ZF	P 4564 309 ZF	P 4564 309 ZF
Connection cable, length 3 m between			
TC 400 / TPS/DCU 310/311/400/401	PM 061 352-T	PM 061 352-T	PM 061 352-T
TCP 350 - HiPace (for TC 400)			
External drive units			
TCP 350			
TCP 350 PB - Profibus			
TCP 350 DN - DeviceNet			
Venting accessories			
Venting valve	PM Z01 291	PM Z01 291	PM Z01 291
Air drier TTV 001	PM Z00 121	PM Z00 121	PM Z00 121
Cooling accessories			
Air cooling	PM Z01 303	PM Z01 303	PM Z01 303
Heating accessories			
Heating jacket 230 V AC, Euro-style safety plug		PM 061 369-T	
Heating jacket 208 V AC, UL plug		PM 061 370-T	
Heating jacket 115 V AC, UL plug		PM 061 371-T	
Backing pump control			
Backing pump relay box, single phase 5 A	PM 061 374-T	PM 061 374-T	PM 061 374-T
Backing pump relay box, single phase 20 A	PM 061 375-T	PM 061 375-T	PM 061 375-T
Connection cable relaisbox - TCP 350			
TVV 001 backing vacuum safety valve, 230 V AC	PM Z01 205	PM Z01 205	PM Z01 205
TVV 001 backing vacuum safety valve, 115 V AC	PM Z01 206	PM Z01 206	PM Z01 206

HiPace™ 700 for TCP 350, DN 160 ISO-K	HiPace™ 700 for TCP 350, DN 160 CF-F	HiPace™ 700 for TCP 350, DN 160 ISO-F
PM P04 080	PM P04 081	PM P04 082
PM 061 348-T	PM 061 348-T	PM 061 348-T
PM 051 510-T	PM 051 510-T	PM 051 510-T
PM 061 005-T	PM 061 005-T	PM 061 005-T
P 4564 309 ZA	P 4564 309 ZA	P 4564 309 ZA
P 4564 309 ZE	P 4564 309 ZE	P 4564 309 ZE
P 4564 309 ZF	P 4564 309 ZF	P 4564 309 ZF
PM 061 356-T	PM 061 356-T	PM 061 356-T
PM C01 740	PM C01 740	PM C01 740
PM C01 741	PM C01 741	PM C01 741
PM C01 742	PM C01 742	PM C01 742
PM Z01 291	PM Z01 291	PM Z01 291
PM Z00 121	PM Z00 121	PM Z00 121
PM Z01 303	PM Z01 303	PM Z01 303
	PM 061 369-T	
	PM 061 370-T	
	PM 061 371-T	
PM 061 374-T	PM 061 374-T	PM 061 374-T
PM 061 375-T	PM 061 375-T	PM 061 375-T
PM 061 377-T	PM 061 377-T	PM 061 377-T
PM Z01 205	PM Z01 205	PM Z01 205
PM Z01 206	PM Z01 206	PM Z01 206

Accessories	HiPace™ 700, with TC 400, DN 160 ISO-K	HiPace™ 700, with TC 400, DN 160 CF-F	HiPace™ 700, with TC 400, DN 160 ISO-F
Order number pump	PM P03 933	PM P03 934	PM P03 935
General accessories			
Sealing gas	PM Z01 312	PM Z01 312	PM Z01 312
Sealing gas throttle	PM Z01 317	PM Z01 317	PM Z01 317
Coated centering ring	PM 016 216-U		PM 016 216-U
Coated centering ring with protection screen	PM 016 218-U		PM 016 218-U
Coated centering ring with integrated splinter shield	PM 016 217-U		PM 016 217-U
Protection screen		PM 016 339	
Splinter shield		PM 016 318	
Vibration dampers	PM 006 492-X	PM 006 493-X	
USB converter	PM 061 207-T	PM 061 207-T	PM 061 207-T
Interface cable, 3 m, M 12	PM 061 283-T	PM 061 283-T	PM 061 283-T
Y-connector, M12, for RS-485	P 4723 010	P 4723 010	P 4723 010
Y-connector, M12 for accessories	P 4723 012	P 4723 012	P 4723 012
Connection cable, RJ 45 on M12			
Mounting materials			
Mounting kit including coated centering ring, bracket screws	PM 016 375-T		
Coated centering ring, with protection screen, clamping screws	PM 016 377-T		
Coated centering ring with splinter shield, bracket screws	PM 016 376-T		
Coated centering ring, hexagon bolts			PM 016 460-T
Coated centering ring with protection screen, hexagon bolts			PM 016 462-T
Coated centering ring with splinter shield, hexagon bolts			PM 016 461-T
Coated centering ring, stud screws			PM 016 465-T
Coated centering ring with protection screen, stud screws			PM 016 467-T
Coated centering ring with splinter shield, stud screws			PM 016 466-T
Set of hexagon bolts		PM 016 691-T	
Set of stud screws		PM 016 693-T	

HiPace™ 700 for TCP 350, DN 160 ISO-K	HiPace™ 700 for TCP 350, DN 160 CF-F	HiPace™ 700 for TCP 350, DN 160 ISO-F
PM P04 080	PM P04 081	PM P04 082
PM Z01 312	PM Z01 312	PM Z01 312
PM Z01 317	PM Z01 317	PM Z01 317
PM 016 210-U		PM 016 210-U
PM 016 212-U		PM 016 212-U
PM 016 211-U		PM 016 211-U
	PM 016 339	
	PM 016 318	
PM 006 492-X	PM 006 493-X	
PM 061 207-T	PM 061 207-T	PM 061 207-T
PM 051 726-T	PM 051 726-T	PM 051 726-T
PM 016 375-T		
PM 016 377-T		
PM 016 376-T		
		PM 016 460-T
		PM 016 462-T
		PM 016 461-T
		PM 016 465-T
		PM 016 467-T
		PM 016 466-T
	PM 016 690-T	
	PM 016 692 -T	