



HiPace[®] 700 H with TC 400, DN 160 ISO-K



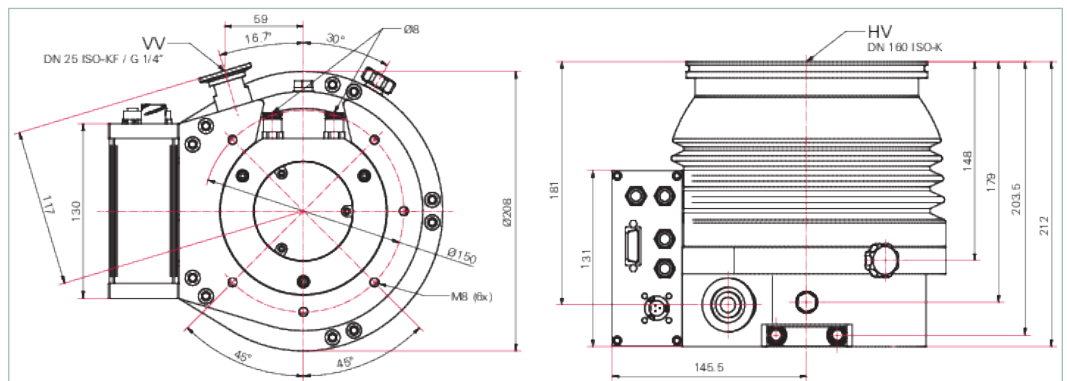


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HiPace® 700 H with TC 400, DN 160 ISO-K

- Compact yet powerful turbopump with a pumping speed of up to 685 l/s for N₂
- Maximum vacuum performance with minimum power consumption
- For installation in any orientation
- Integrated TC 400 drive electronics
- Integrated, powerful cooling system

Dimensions



Technical Data	HiPace® 700 H with TC 400, DN 160 ISO-K
Bearing	Hybrid
Compression ratio for Ar	$> 1 \cdot 10^{13}$
Compression ratio for H ₂	$2 \cdot 10^7$
Compression ratio for He	$1 \cdot 10^9$
Compression ratio for N ₂	$> 1 \cdot 10^{13}$
Cooling method, optional	Air
Cooling method, standard	Water
Cooling water flow	100 l/h
Cooling water flow, max	100 l/h
Cooling water flow, min	100 l/h
Cooling water temperature	15-35 °C 59-95 °F 288-308 K
Electronic drive unit	with TC 400
Flange (in)	DN 160 ISO-K
Flange (out)	DN 25 ISO-KF
Fore-vacuum max. for N ₂	22 hPa 16.5 Torr 22 mbar
Gas throughput at full rotational speed for Ar	2 hPa·l/s
Gas throughput at full rotational speed for H ₂	14 hPa·l/s
Gas throughput at full rotational speed for He	18 hPa·l/s
Gas throughput at full rotational speed for N ₂	3.5 hPa·l/s
I/O interfaces	RS-485, Remote
Mounting orientation	Any
Permissible magnetic field max.	6 mT
Protection category	IP54
Pumping speed for Ar	665 l/s
Pumping speed for H ₂	555 l/s
Pumping speed for He	655 l/s
Pumping speed for N ₂	685 l/s
Rotation speed $\pm 2\%$	49,200 rpm 49,200 min ⁻¹
Rotation speed variable	60 – 100 %
Run-up time	2 min
Sound pressure level	≤ 50 dB(A)

Technical Data		HiPace® 700 H with TC 400, DN 160 ISO-K
Ultimate pressure		1 · 10 ⁻⁷ hPa 7.5 · 10 ⁻⁸ Torr 1 · 10 ⁻⁷ mbar
Venting connection		G 1/8"
Weight		11.8 kg 26.01 lb
Order number		
HiPace® 700 H		PM P05 750

Accessories	
Adapters (electrical) PV-Can	
TIC 010, Adapter for two sensors	PT R70 000
Adapters (electrical) RS-232/485	
Termination 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 Connection cables	
Connection cable for HiPace with TC 400/TM 700 to power supply pack TPS/DCU 310/311/400/401	PM 061 352 -T
Control Devices Backing pump	
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 7 A for TC 400/1200, TM 700 and TCP 350, M12	PM 071 284 -X
Control Devices Power supplies and control displays	
Accessories package for HPU 001/PC	PM 061 005 -T
TPS 400, power supply pack 48 V DC, for wall/standard rail fitting	PM 061 343 -T
TPS 401, power supply pack 48 V DC, 19" partial plug-in 3HU	PM 061 347 -T
Front panel kit for TPS 401	PM 061 396 -T
DCU 400, Display control unit incl. power supply pack 19"	PM C01 823
Control Units without Power supply	
DCU 002, Display Control Unit	PM 061 348 -T
Cooling Air cooling	
Air cooling for HiPace 400/700 and 800 with TC 400	PM Z01 303
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
Mounting Wall rail fittings	
Wall rail fitting for TPS 110/180/310/400	PM 061 392 -T
Protection Sealing gas throttles	
Sealing gas throttle for HiPace 300	PM Z01 317
Turbopumps	
USB converter to RS-485 interface	PM 061 207 -T
Turbopumps/M Measurement	
Interface cable, M12 m straight/M12 m straight, 3 m	PM 061 283 -T
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 400 and TM 700, TCP 350	PM Z01 312
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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伯东企业（上海）有限公司 HAKUTO ENTERPRISES (SHANGHAI) LTD.

TEL: (86) 21-5046-3511

FAX: (86) 21-5046-1490

MOL: 1391-883-7267

伯东企业（上海）有限公司 销售及售后服务中心

上海浦东新区新金桥路 1888 号 36 号楼 7 楼 702 室

电 话：+86-21-5046-3511

传 真：+86-21-5046-1490

官 网：<http://www.hakuto-vacuum.cn>

24 h 售后维修专线：1381-880-1372

伯东企业（上海）有限公司 北京办事处 销售中心

北京丰台区芳群园四区 22 号楼金城中心 705 室

电 话：+86-010-8768-4988

传 真：+86-21-5046-1490

官 网：<http://www.hakuto-vacuum.cn>

伯东企业（上海）有限公司 深圳办事处 销售中心

深圳市罗湖区宝安南路 1036 号鼎丰大厦 501

电 话：+86-0755-2547-3988.643

传 真：+86-21-5046-1490

官 网：<http://www.hakuto-vacuum.cn>

伯东国际通商股份有限公司 销售及售后服务中心

台北市中山区八德路二段 308 号 6 楼

电 话：+886-2-8772-8910

传 真：+886-2-8772-8918

新竹市埔顶路 25 号 8 楼之一

电 话：+886-3-5679508

传 真：+886-3-5670049

官 网：<http://www.hakuto-vacuum.com.tw>

