



# HiPace® 10 with TC 110 and power supply pack OPS 40, DN 25

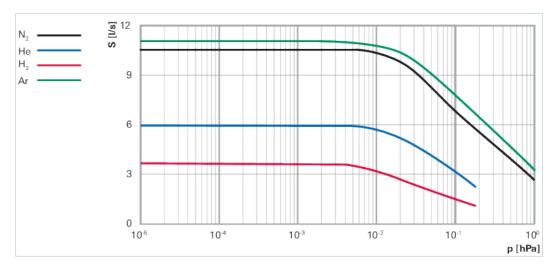




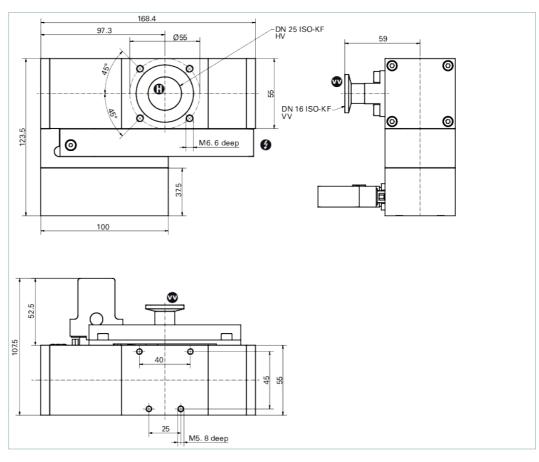
Similar Image

## HiPace® 10 with TC 110 and power supply pack OPS 40, DN 25

- The world's smallest series-production turbopump
- A powerful, rugged turbopump with a pumping speed of 10 l/s for N<sub>2</sub>
- DN 25 connection
- Drive electronics TC 110 and power supply OPS 040 integrated
- Mobile usable
- Requires no additional cooling
- Electronic connection in direction of fore-vacuum connection



#### **Dimensions**



Compression ratio for Ar $2.5 \cdot 10^7$ Compression ratio for H <sub>2</sub> $3 \cdot 10^2$ Compression ratio for He $3 \cdot 10^3$ Compression ratio for N <sub>2</sub> $3 \cdot 10^6$ Connection flange (in) DN 25 Connection flange (out) DN 16 ISO-KF/G 1/8" Cooling method Convection Current, max. $1,2$ A Electronic drive unit with TC 110 Final pressure according to PNEUROP $5 \cdot 10^5$ hPa $3 \cdot 10^5$ Torr $3 \cdot 10^5$ Torr $3 \cdot 10^5$ mbar Final pressure without gas ballast $5 \cdot 10^5$ hPa $3 \cdot 10^5$ Torr $3 \cdot 10^5$ Torr $3 \cdot 10^5$ Torr $3 \cdot 10^5$ mbar Fore-vacuum max. for N <sub>2</sub> $3 \cdot 10^5$ hPa $3 \cdot 10^5$ Torr $3 \cdot 10^5$ Tor	Technical Data	HiPace® 10 with TC 110 and power supply
Compression ratio for Ar $2.5 \cdot 10^7$ Compression ratio for He $3 \cdot 10^2$ Compression ratio for He $3 \cdot 10^3$ Connection flange (in) DN 25 Connection flange (out) DN 16 ISO-KF/G 1/8" Cooling method Convection Current, max. 1,2 A Electronic drive unit with TC 110 Final pressure according to PNEUROP $5 \cdot 10^5$ hPa $3 \cdot 10^5$ Torr $3 \cdot 10^5$ mbar Final pressure without gas ballast $5 \cdot 10^5$ hPa $3 \cdot 10^5$ Torr $3 \cdot 10^5$ Torr $3 \cdot 10^5$ mbar Fore-vacuum max. for N <sub>2</sub> 25 hPa $3 \cdot 10^5$ Torr		pack OPS 40, DN 25
Compression ratio for $H_2$ $3 \cdot 10^2$ Compression ratio for $H_2$ $3 \cdot 10^3$ Connection flange (in) DN 25 Connection flange (out) DN 16 ISO-KF/G 1/8" Cooling method Convection Current, max. 1,2 A Electronic drive unit with TC 110 Final pressure according to PNEUROP $<5 \cdot 10^5  \text{hPa}    < 3.75 \cdot 10^5  \text{Torr}    < 5 \cdot 10^5  \text{mbar}$ Final pressure without gas ballast $<5 \cdot 10^5  \text{hPa}    < 3.75 \cdot 10^5  \text{Torr}    < 5 \cdot 10^5  \text{mbar}$ Fore-vacuum max. for $N_2$ 25 hPa   18.75 Torr   25 mbar Gas throughput at final rotation speed for Ar 0.37 hPa·l/s Gas throughput at final rotation speed for $N_2$ 2.78 hPa·l/s Gas throughput at final rotation speed for $N_2$ 0.37 hPa·l/s Gas throughput at final rotation speed for $N_2$ 0.37 hPa·l/s Cooling method Convertible (and the properties) of the cooling method (by the properties) of the cooling method (cooling meth	Bearing	Ball bearing
Compression ratio for He $3 \cdot 10^3$ Connection flange (in) DN 25 DN 16 ISO-KF/G 1/8" Connection flange (out) DN 16 ISO-KF/G 1/8" Connection flange (out) DN 16 ISO-KF/G 1/8" Connection flange (out) DN 16 ISO-KF/G 1/8" Convection Current, max. 1,2 A Selectronic drive unit with TC 110 Selectronic drive unit Selectronic drive drive unit Selectronic drive dri	Compression ratio for Ar	$2.5 \cdot 10^7$
Compression ratio for N2 3 · 106 Connection flange (in) DN 25 Connection flange (out) DN 16 ISO-KF/G 1/8" Cooling method Courrent, max. 1,2 A Electronic drive unit with TC 110 Final pressure according to PNEUROP 5 · 10-5 hPa   < 3.75 · 10-5 Torr	Compression ratio for H <sub>2</sub>	$3 \cdot 10^2$
Connection flange (in)  Connection flange (out)  Connection flange (out)  Coling method  Current, max.  1,2 A  Electronic drive unit  Final pressure according to PNEUROP  Final pressure without gas ballast  Fore-vacuum max. for N <sub>2</sub> Gas throughput at final rotation speed for Ar  Gas throughput at final rotation speed for He  Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Power consumption max.  28.8 W  Protection degree  Pumping speed for Ar  11.5 l/s  Pumping speed for He  Pumping speed for He  Pumping speed for He  Pumping speed for N <sub>2</sub> Rotation speed ± 2 %  90,000 rpm   90,000 min <sup>-1</sup>	Compression ratio for He	$3 \cdot 10^{3}$
Connection flange (out)  Cooling method  Current, max.  Electronic drive unit  Final pressure according to PNEUROP  Final pressure without gas ballast  Fore-vacuum max. for N <sub>2</sub> Gas throughput at final rotation speed for Ar  Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Wo interfaces  Integrated power supply pack  Wounting orientation  Operating voltage: V DC  Particle intake  Permissible radial magnetic field max.  Power consumption max.  Power consumption max.  28.8 W  Protection degree  Pumping speed for Ar  11.5 I/s  Pumping speed for He  Pumping speed for He  Pumping speed for He  Pumping speed for He  Pumping speed for N <sub>2</sub> Rotation speed ± 2 %  90,000 rpm   90,000 min <sup>-1</sup>	Compression ratio for N <sub>2</sub>	3 · 10 <sup>6</sup>
Cooling method Current, max.  1,2 A  With TC 110  Final pressure according to PNEUROP  Final pressure without gas ballast  Fore-vacuum max. for N <sub>2</sub> Gas throughput at final rotation speed for He Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Sas throughput at final rotation speed for N <sub>2</sub> Total Na	Connection flange (in)	DN 25
Current, max.  Electronic drive unit  With TC 110  Final pressure according to PNEUROP  Solution of the pressure without gas ballast  Fore-vacuum max. for N <sub>2</sub> Gas throughput at final rotation speed for Ar  Gas throughput at final rotation speed for He  Gas throughput at final rotation speed for He  Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Gas throughput at final rotation speed for N <sub>2</sub> Solution solution speed for N <sub>2</sub> Solution solution speed for N <sub>2</sub>	Connection flange (out)	DN 16 ISO-KF/G 1/8"
Electronic drive unit  With TC 110  Final pressure according to PNEUROP  Similar pressure without gas ballast  Similar pressure without gas dars pressure pressur	Cooling method	Convection
Final pressure according to PNEUROP $<5 \cdot 10^{-5} \text{ hPa}   < 3.75 \cdot 10^{-5} \text{ Torr}  $ $<5 \cdot 10^{-5} \text{ mbar}$ Final pressure without gas ballast $<5 \cdot 10^{-5} \text{ hPa}   < 3.75 \cdot 10^{-5} \text{ Torr}  $ $<5 \cdot 10^{-5} \text{ mbar}$ Fore-vacuum max. for N <sub>2</sub> $25 \text{ hPa}   18.75 \text{ Torr}   25 \text{ mbar}$ Gas throughput at final rotation speed for Ar $0.37 \text{ hPa} \cdot 1/\text{s}$ Gas throughput at final rotation speed for H <sub>2</sub> $2.78 \text{ hPa} \cdot 1/\text{s}$ Gas throughput at final rotation speed for H <sub>2</sub> $0.48 \text{ hPa} \cdot 1/\text{s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa} \cdot 1/\text{s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa} \cdot 1/\text{s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa} \cdot 1/\text{s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa} \cdot 1/\text{s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa} \cdot 1/\text{s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa} \cdot 1/\text{s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa} \cdot 1/\text{s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa} \cdot 1/\text{s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa} \cdot 1/\text{s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa} \cdot 1/\text{s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa} \cdot 1/\text{s}$ $0$	Current, max.	1,2 A
Final pressure without gas ballast Final pressure without gas ballast 5 · 10 <sup>-5</sup> hPa   < 3.75 · 10 <sup>-5</sup> Torr   < 5 · 10 <sup>-5</sup> mbar Fore-vacuum max. for N <sub>2</sub> 25 hPa   18.75 Torr   25 mbar Gas throughput at final rotation speed for Ar Gas throughput at final rotation speed for H <sub>2</sub> Gas throughput at final rotation speed for He Gas throughput at final rotation speed for N <sub>2</sub> O.37 hPa·l/s Gas throughput at final rotation speed for N <sub>2</sub> O.37 hPa·l/s VO interfaces RS-485, Remote Mounting orientation Arbitrary Operating voltage: V DC Particle intake Permissible radial magnetic field max. Permissible radial magnetic field max. Power consumption max. Power consumption max. Power consumption speed for Ar Pumping speed for Ar Pumping speed for H <sub>2</sub> Ourpling speed for He 6 l/s Pumping speed for N <sub>2</sub> Rotation speed ± 2 % 90,000 rpm   90,000 min <sup>-1</sup>	Electronic drive unit	with TC 110
Fore-vacuum max. for N <sub>2</sub> 25 hPa   18.75 Torr   25 mbar Gas throughput at final rotation speed for Ar Gas throughput at final rotation speed for H <sub>2</sub> 2.78 hPa-I/s Gas throughput at final rotation speed for H <sub>2</sub> 2.78 hPa-I/s Gas throughput at final rotation speed for H <sub>2</sub> 0.48 hPa-I/s Gas throughput at final rotation speed for N <sub>2</sub> 0.37 hPa-I/s Vo interfaces RS-485, Remote YES Mounting orientation Operating voltage: V DC Particle intake Permissible radial magnetic field max. Power consumption max. Power consumption max. Pumping speed for Ar Pumping speed for H <sub>2</sub> Pumping speed for H <sub>2</sub> Pumping speed for H <sub>2</sub> Pumping speed for N <sub>2</sub> Rotation speed ± 2 % 90,000 rpm   90,000 min <sup>-1</sup>	Final pressure according to PNEUROP	
Gas throughput at final rotation speed for Ar $0.37 \text{ hPa-l/s}$ Gas throughput at final rotation speed for H <sub>2</sub> $2.78 \text{ hPa-l/s}$ Gas throughput at final rotation speed for He $0.48 \text{ hPa-l/s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa-l/s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa-l/s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa-l/s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa-l/s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa-l/s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa-l/s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa-l/s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa-l/s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa-l/s}$ Gas throughput at final rotation speed for N <sub>2</sub> $0.37 \text{ hPa-l/s}$ Gas throughput at final rotation speed for Ar $0.37 \text{ hPa-l/s}$ $0.48 \text{ hPa-l/s}$ $0.48 \text{ hPa-l/s}$ $0.48 \text{ hPa-l/s}$ $0.37  hP$	Final pressure without gas ballast	
Gas throughput at final rotation speed for $H_2$ 2.78 hPa·l/s Gas throughput at final rotation speed for He Gas throughput at final rotation speed for N <sub>2</sub> 0.37 hPa·l/s (O interfaces RS-485, Remote regreted power supply pack YES Mounting orientation Arbitrary (Operating voltage: V DC 24 ( $\pm$ 5 %) V DC (Particle intake YES (Permissible radial magnetic field max. 3 mT (Power consumption max. 28.8 W (Protection degree IP30 (Pumping speed for Ar 11.5 l/s (Pumping speed for He 6 l/s (Pumping speed for N <sub>2</sub> 10 l/s (Rotation speed $\pm$ 2 % 90,000 rpm   90,000 min <sup>-1</sup>	Fore-vacuum max. for N <sub>2</sub>	25 hPa   18.75 Torr   25 mbar
Gas throughput at final rotation speed for He Gas throughput at final rotation speed for N2 $0.37 \text{ hPa-l/s}$ $0.37  hPa-l/$	Gas throughput at final rotation speed for Ar	0.37 hPa·l/s
Gas throughput at final rotation speed for $N_2$ 0.37 hPa·l/s  //O interfaces RS-485, Remote  Integrated power supply pack YES  Mounting orientation Arbitrary  Operating voltage: V DC 24 ( $\pm$ 5 %) V DC  Particle intake YES  Permissible radial magnetic field max. 3 mT  Power consumption max. 28.8 W  Protection degree IP30  Pumping speed for Ar 11.5 l/s  Pumping speed for He 6 l/s  Pumping speed for N <sub>2</sub> 10 l/s  Rotation speed $\pm$ 2 % 90,000 rpm   90,000 min-1	Gas throughput at final rotation speed for H <sub>2</sub>	2.78 hPa·l/s
No interfaces   RS-485, Remote   YES     Mounting orientation   Arbitrary     Operating voltage: V DC   24 $(\pm 5\%)$ V DC     Particle intake   YES     Permissible radial magnetic field max.   3 mT     Power consumption max.   28.8 W     Protection degree   IP30     Pumping speed for Ar   11.5  /s     Pumping speed for He   6  /s     Pumping speed for N <sub>2</sub>   10  /s     Rotation speed $\pm 2\%$   90,000 rpm   90,000 min <sup>-1</sup>	Gas throughput at final rotation speed for He	0.48 hPa·l/s
Integrated power supply pack  Mounting orientation  Arbitrary  Operating voltage: V DC  Particle intake  Permissible radial magnetic field max.  Power consumption max.  Protection degree  IP30  Pumping speed for Ar  Pumping speed for H <sub>2</sub> Pumping speed for He  Pumping speed for N <sub>2</sub> Rotation speed $\pm 2\%$ YES  24 ( $\pm 5\%$ ) V DC  YES  28 W  PIS  PIS  PIS  PIS  PIS  PIS  PIS  PI	Gas throughput at final rotation speed for N <sub>2</sub>	0.37 hPa·l/s
Mounting orientation Arbitrary  Operating voltage: V DC 24 ( $\pm$ 5 %) V DC  Particle intake YES  Permissible radial magnetic field max. 3 mT  Power consumption max. 28.8 W  Protection degree IP30  Pumping speed for Ar 11.5 I/s  Pumping speed for He 6 I/s  Pumping speed for N <sub>2</sub> 10 I/s  Rotation speed $\pm$ 2 % 90,000 rpm   90,000 min <sup>-1</sup>	I/O interfaces	RS-485, Remote
Operating voltage: V DC  Particle intake  Permissible radial magnetic field max.  3 mT  Power consumption max.  28.8 W  Protection degree  IP30  Pumping speed for Ar  Pumping speed for H <sub>2</sub> Pumping speed for He  Pumping speed for N <sub>2</sub> Rotation speed $\pm 2$ %  90,000 rpm   90,000 min <sup>-1</sup>	Integrated power supply pack	YES
Particle intake YES  Permissible radial magnetic field max. 3 mT  Power consumption max. 28.8 W  Protection degree IP30  Pumping speed for Ar 11.5 l/s  Pumping speed for H <sub>2</sub> 3.7 l/s  Pumping speed for He 6 l/s  Pumping speed for N <sub>2</sub> 10 l/s  Rotation speed $\pm 2$ % 90,000 rpm   90,000 min <sup>-1</sup>	Mounting orientation	Arbitrary
Permissible radial magnetic field max. 3 mT  Power consumption max. 28.8 W  Protection degree IP30  Pumping speed for Ar 11.5 l/s  Pumping speed for $H_2$ 3.7 l/s  Pumping speed for He 6 l/s  Pumping speed for $N_2$ 10 l/s  Rotation speed $\pm 2$ % 90,000 rpm   90,000 min <sup>-1</sup>	Operating voltage: V DC	24 (± 5 %) V DC
Power consumption max. 28.8 W  Protection degree IP30  Pumping speed for Ar 11.5 l/s  Pumping speed for H <sub>2</sub> 3.7 l/s  Pumping speed for He 6 l/s  Pumping speed for N <sub>2</sub> 10 l/s  Rotation speed $\pm$ 2 % 90,000 rpm   90,000 min <sup>-1</sup>	Particle intake	YES
Protection degree IP30 Pumping speed for Ar 11.5 l/s Pumping speed for $H_2$ 3.7 l/s Pumping speed for He 6 l/s Pumping speed for $N_2$ 10 l/s Rotation speed $\pm$ 2 % 90,000 rpm $\parallel$ 90,000 min <sup>-1</sup>	Permissible radial magnetic field max.	3 mT
Pumping speed for Ar 11.5 l/s  Pumping speed for $H_2$ 3.7 l/s  Pumping speed for He 6 l/s  Pumping speed for $N_2$ 10 l/s  Rotation speed $\pm 2 \%$ 90,000 rpm   90,000 min <sup>-1</sup>	Power consumption max.	28.8 W
Pumping speed for $H_2$ 3.7 l/s  Pumping speed for He 6 l/s  Pumping speed for $N_2$ 10 l/s  Rotation speed $\pm$ 2 % 90,000 rpm   90,000 min <sup>-1</sup>	Protection degree	IP30
Pumping speed for He $^2$ $^2$ $^2$ $^2$ $^2$ $^2$ $^2$ $^2$	Pumping speed for Ar	11.5 l/s
Pumping speed for $N_2$ 10 l/s Rotation speed ± 2 % 90,000 rpm   90,000 min <sup>-1</sup>	Pumping speed for H <sub>2</sub>	3.7 l/s
Rotation speed ± 2 % 90,000 rpm   90,000 min <sup>-1</sup>	Pumping speed for He	6 l/s
	Pumping speed for N <sub>2</sub>	10 l/s
Rotation speed variable 50 – 100 %	Rotation speed ± 2 %	90,000 rpm   90,000 min <sup>-1</sup>
	Rotation speed variable	50 – 100 %
Run-up time 0.9 min	Run-up time	0.9 min
Sound pressure level ≤50 dB(A)	Sound pressure level	≤50 dB(A)
Weight 2 kg 4.41 lb	Weight	2 kg   4.41 lb

Order number	
HiPace® 10	PM P03 963

Accessories	
Adapters (electrical) PV-Can	
TIC 010, adapter for two sensors	PT R70 000
Adapters (electrical) Remote	
TCS 11, adapter for TC 110/120 with RS-485	
interface	PM 061 636 -U
TCS 12, adapter for TC 110/120 with interface	
RS-485, 4 accessory ports and coupling set	PM 061 638 -U
Adapters (electrical) RS-232/485	D 4700 040
Y-connector M12 for RS-485	P 4723 010
USB RS-485 converter	PM 061 207 -T
Coupling M12 for RS-485	PM 061 270 -X
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 valve	DM 064 697 T
	PM 074 442 V
HiPace – ACP connection cable  Cables Connection cables	PM 071 142 -X
Connection cables Connection cable TPS 180 - MVP 006-4 with	
HiPace 80/HiPace 10, 2 x 0.5 m	PM 061 399 -T
Cables Mains cables / Power cords	1 111 001 000 1
Mains cable 230 V AC, XVI EN 50075 to C7,	
1.5 m	P 4564 309 OA
Mains cable 115 V AC, NEMA 1-15 to C7, 1.8 m	P 4564 309 OB
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
Connections Adapters Turbopump to	
Backing Pump Connection adapter for backing pump	
connection	PM 016 525 -T
Connections Connection kits for mounting	1 111 0 10 0 20 1
of pumps	
Connection kit for mounting of pumps, DN 16	
ISO-KF	120SWS016-1000
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, shielded, for backing pumps, 1-	
phase 7A for TC 110/120 and TCP 350, plug M8	PM 071 282 -X
Control Devices Power supplies and control	F WI 07 1 202 -X
displays	
Accessories package for HPU 001/PC	PM 061 005 -T
OmniControl 001, rack unit without integrated	
power supply pack	PE D42 100 0
OmniControl 001 Mobile, control units	PE D22 000 0
OmniControl 200, rack unit with integrated	
power supply pack	PE D52 110 0
OmniControl 200, table unit with integrated	DE E50 440 0
power supply pack	PE E52 110 0
OmniControl 200 mit PKR 361, 40 CF	PT 440 957 -T
Monitoring Pressure Sensors	DT D74 400
RPT 010, digital Piezo/Pirani sensor	PT R71 100
IKT 010, digital cold cathode sensor, low current	F1 K7Z 100
IKT 011, digital cold cathode sensor, high current	PT R73 100
CUITCHE	1 1 1/1/3 100

Accessories	
Mounting DN ISO-KF, mounting kits	
Mounting kit for HiPace 10, DN 25 ISO-K and claws	PF 104 000 -T
Mounting kit for HiPace 10, DN 25 ISO-KF, including centering ring with claws	PM 016 627 -T
Connection adapter DN 25 ISO-KF	PM 093 315 -T
Mounting DN ISO-KF, sealings, splinter shields, protection screens	
Centering ring, FPM/Aluminum, DN 25 ISO-KF	PF 110 125 -T
Protection DN ISO-KF, sealings, splinter shields, protection screens	
Centering ring with integrated mesh screen, DN 25 ISO-KF	PF 113 225 -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 Isolation valves	
AVC 025 PA, angle valve, electro-pneumatic, with PI, with PV, PV 24 V DC	PF A48 204

#### **VACUUM SOLUTIONS FROM A SINGLE SOURCE**

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