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Pfeiffer HiPace 30

Technical Specifications

	HiPace® 30 with TC 110, DN 63 ISO-K
Bearing	Hybrid
Compression ratio for Ar	> $1 \cdot 10^{11}$
Compression ratio for H_2	$3 \cdot 10^{5}$
Compression ratio for He	$3 \cdot 10^{7}$
Compression ratio for N_2	> $1 \cdot 10^{11}$
Cooling method, optional	Air/Water
Cooling method, standard	Convection
Cooling water flow	75 l/h
Cooling water flow, max	75 l/h
Cooling water flow, min	75 l/h
Cooling water temperature	5-25 °C | 41-77 °F | 278-298 K
Current max.	5 A
Electronic drive unit	TC 110
Flange (in)	DN 63 ISO-K
Flange (out)	DN 16 ISO-KF/G ¼"
Fore-vacuum max. for N_2	24 hPa | 18 Torr | 24 mbar
Gas throughput at full rotational speed for Ar	0.22 hPa·l/s
Gas throughput at full rotational speed for H_2	10 hPa·l/s
Gas throughput at full rotational speed for He	1.84 hPa·l/s
Gas throughput at full rotational speed for N_2	0.66 hPa·l/s
I/O interfaces	RS-485, Remote
Mounting orientation	Any
Permissible radial magnetic field max.	3 mT
Power consumption max.	80 W
Protection category	IP54
Pumping speed for Ar	32 l/s
Pumping speed for H_2	20 l/s
Pumping speed for He	24 l/s
Pumping speed for N_2	32 l/s
Rotation speed ± 2 %	90,000 rpm | 90,000 min^{-1}
Rotation speed variable	50 – 100 %
Run-up time	1.7 min
Sound pressure level	≤48 dB(A)
Ultimate pressure without gas ballast	< $1 \cdot 10^{-7}$ hPa | < $7.5 \cdot 10^{-8}$ Torr | < $1 \cdot 10^{-7}$ mbar
Venting connection	G 1/8"
Weight	2 kg | 4.41 lb

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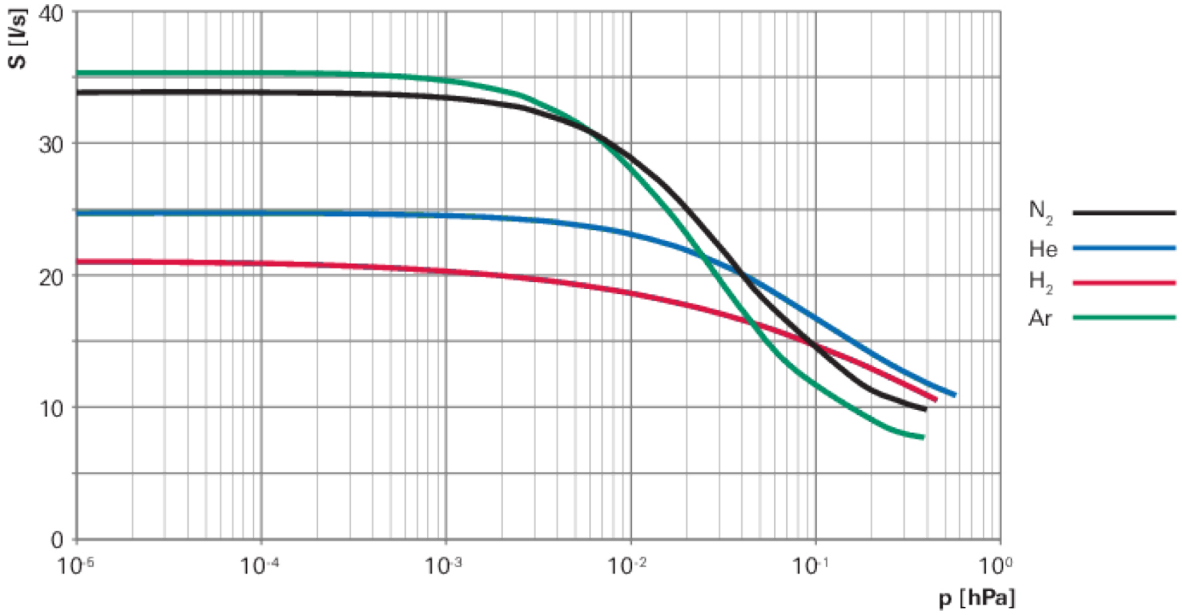
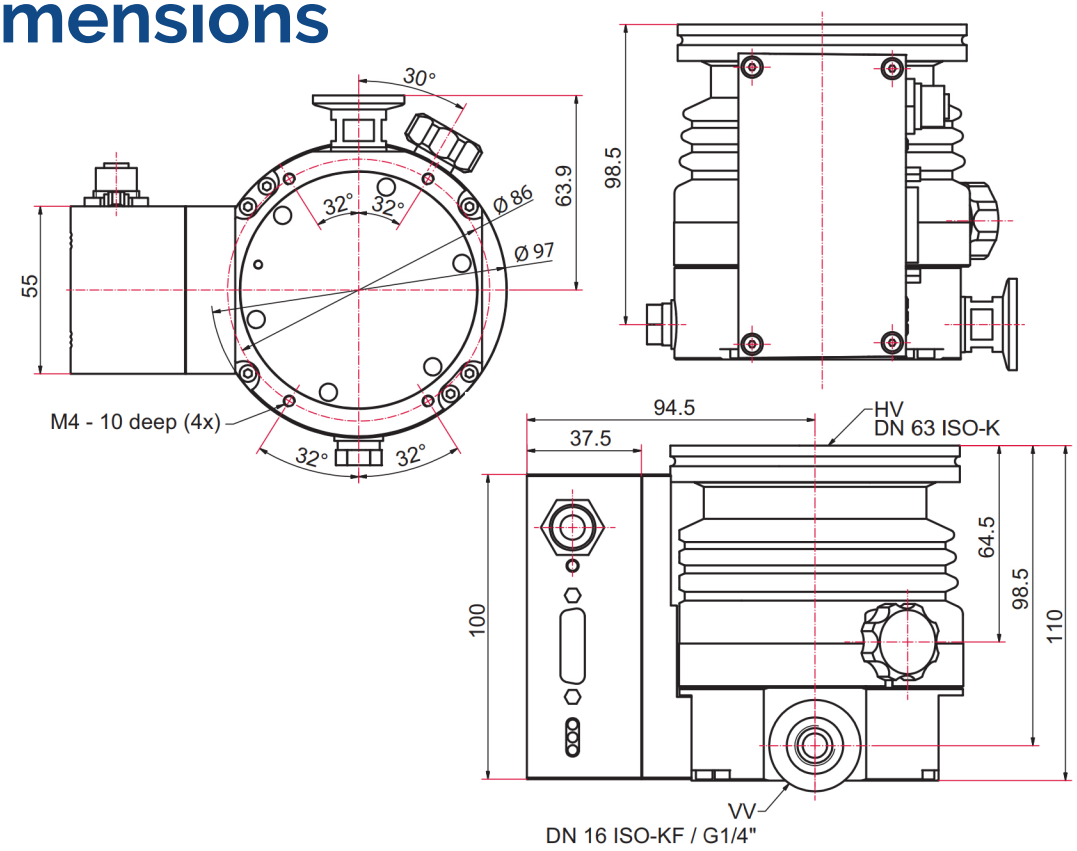
Pumping Curves



Dimensions



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Features & Benefits

- higher pumping speeds, backing pump capability & gas throughputs
- protected against particulate matter or oxidizing gases
- integrated drive electronics reduce need for cables
- compact design makes for minimum footprint
- proven bearing system, improved rotor design
- expanded remote & sensor functionalities
- installation in any orientation
- reduced run-up time
- on-site bearing changes
- quiet operation

Applications

- electron microscopes • surface analyzers • leak detectors • mass spectometers • surface analysis • residual gas analysis • medical technologies • isolation vacuums • lamp & tube manufacturing
- nanotechnology