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PHONE: 831-462-8900 FAX: 831-462-3536 WWW.PROVAC.COM

Pfeiffer HiPace 60P

Technical Specifications

	HiPace® 60 P with TC 110, DN 63 ISO-K
Bearing	Hybrid
Compression ratio for Ar	$2 \cdot 10^6$
Compression ratio for H_2	$2 \cdot 10^2$
Compression ratio for He	$3.5 \cdot 10^2$
Compression ratio for N_2	$1 \cdot 10^6$
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.	4,6 A
Electronic drive unit	with TC 110
Flange (in)	DN 63 ISO-K
Flange (out)	DN 16 ISO-KF/G ¼"
Fore-vacuum max. for N_2	4 hPa | 3 Torr | 4 mbar
Gas throughput at full rotational speed for Ar	0.83 hPa·l/s
Gas throughput at full rotational speed for H_2	55 hPa·l/s
Gas throughput at full rotational speed for He	55 hPa·l/s
Gas throughput at full rotational speed for N_2	9.2 hPa·l/s
I/O interfaces	RS-485, Remote
Mounting orientation	Any
Operating voltage: V DC	24 (± 5 %) V DC
Permissible radial magnetic field max.	4 mT
Power consumption max.	110 W
Protection category	IP54
Pumping speed for Ar	63 l/s
Pumping speed for H_2	28 l/s
Pumping speed for He	48 l/s
Pumping speed for N_2	64 l/s
Rotation speed ± 2 %	90,000 rpm | 90,000 min^{-1}
Rotation speed variable	50 – 100 %
Run-up time	1 min
Sound pressure level	≤48 dB(A)
Ultimate pressure according to PNEUROP	$< 1 \cdot 10^{-6}$ hPa | $< 7.5 \cdot 10^{-7}$ Torr | $< 1 \cdot 10^{-6}$ mbar
Ultimate pressure without gas ballast	$< 1 \cdot 10^{-6}$ hPa | $< 7.5 \cdot 10^{-7}$ Torr | $< 1 \cdot 10^{-6}$ mbar
Venting connection	G 1/8"
Weight	2.2 kg | 4.85 lb

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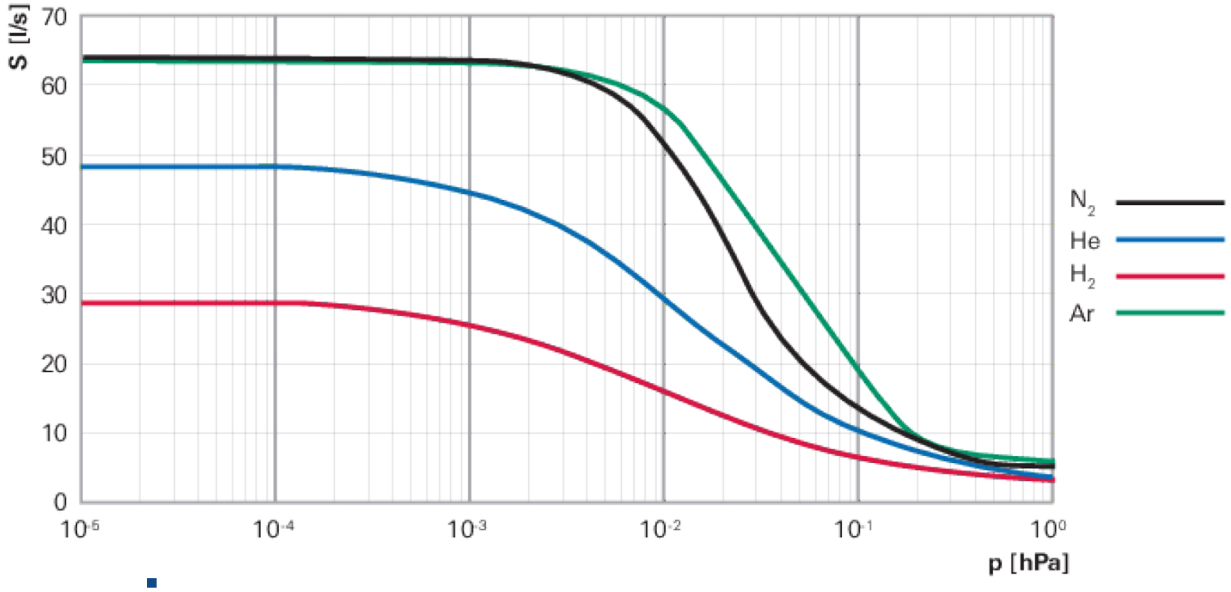
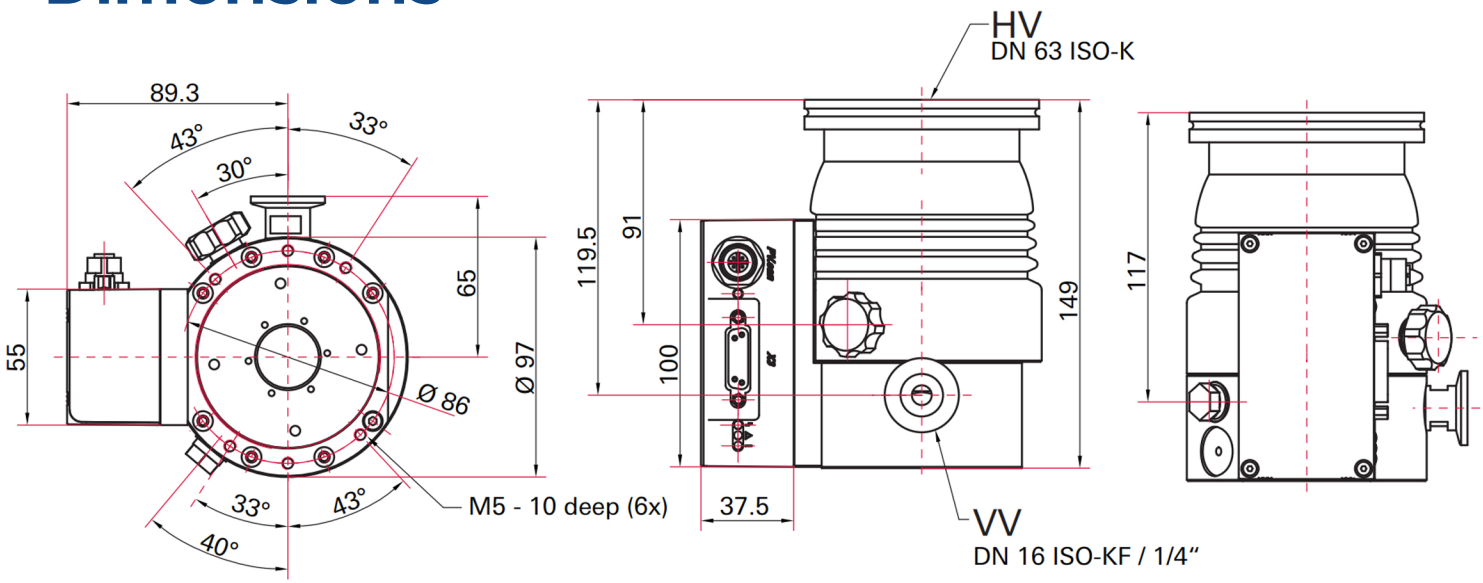
Pumping Curves



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

- photovoltaics • CD, DVD, Blu Ray production • optical coating • lamp & tube manufacturing • nanotechnology • biotechnology