



# PROVAC

## SALES

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# Pfeiffer HiScroll 6, 12, 18

## Technical Specifications

	HiScroll 6, Scroll Pump, Standard	HiScroll 12, Scroll Pump, Standard	HiScroll 18, Scroll Pump, Standard
Pumping speed	6.1 m <sup>3</sup> /h   3.59 cfm   101.67 l/min	12.1 m <sup>3</sup> /h   7.12 cfm   201.67 l/min	18.1 m <sup>3</sup> /h   10.65 cfm   301.67 l/min
Ultimate pressure without gas ballast	2 · 10 <sup>-2</sup> hPa   1.5 · 10 <sup>-2</sup> Torr   2 · 10 <sup>-2</sup> mbar	9 · 10 <sup>-3</sup> hPa   6.75 · 10 <sup>-3</sup> Torr   9 · 10 <sup>-3</sup> mbar	7 · 10 <sup>-3</sup> hPa   5.25 · 10 <sup>-3</sup> Torr   7 · 10 <sup>-3</sup> mbar
Leak rate	5 · 10 <sup>-7</sup> Pa m <sup>3</sup> /s   3.75 · 10 <sup>-6</sup> Torr l/s   5 · 10 <sup>-6</sup> mbar l/s	5 · 10 <sup>-7</sup> Pa m <sup>3</sup> /s   3.75 · 10 <sup>-6</sup> Torr l/s   5 · 10 <sup>-6</sup> mbar l/s	5 · 10 <sup>-7</sup> Pa m <sup>3</sup> /s   3.75 · 10 <sup>-6</sup> Torr l/s   5 · 10 <sup>-6</sup> mbar l/s
Intake pressure max.	1,100 hPa   825 Torr   1,100 mbar	1,100 hPa   825 Torr   1,100 mbar	1,100 hPa   825 Torr   1,100 mbar
Exhaust pressure, max.	1,500 hPa   1,125 Torr   1,500 mbar	1,500 hPa   1,125 Torr   1,500 mbar	1,500 hPa   1,125 Torr   1,500 mbar
Flange (in)	DN 25 ISO-KF	DN 25 ISO-KF	DN 25 ISO-KF
Flange (out)	DN 25 ISO-KF	DN 25 ISO-KF	DN 25 ISO-KF
I/O interfaces	RS-485	RS-485	RS-485
Mains requirement	100 — 127 / 200 — 240 V AC (±10 %), 50/60 Hz	100 — 127 / 200 — 240 V AC (±10 %), 50/60 Hz	100 — 127 / 200 — 240 V AC (±10 %), 50/60 Hz
Rated current absorption	100 V – 127 V: 4 A   200 V – 240 V: 2 A	100 V – 127 V: 8 A   200 V – 240 V: 4 A	100 V – 127 V: 10 A   200 V – 240 V: 6 A
Rotation speed	1,000-2,500 rpm   1,000-2,500 min <sup>-1</sup>	624-1,560 rpm   624-1,560 min <sup>-1</sup>	624-1,560 rpm   624-1,560 min <sup>-1</sup>
Protection category	IP20	IP20	IP20
Switch	Yes	Yes	Yes
Ambient temperature	5-40 °C   41-104 °F   278-313 K	5-40 °C   41-104 °F   278-313 K	5-40 °C   41-104 °F   278-313 K
Temperature: Storage	-10-50 °C   14-122 °F   263-323 K	-10-50 °C   14-122 °F   263-323 K	-10-50 °C   14-122 °F   263-323 K
Cooling method, standard	Air, forced convection	Air, forced convection	Air, forced convection
Emission sound pressure level	48 dB(A)	47 dB(A)	47 dB(A)
Weight	19 kg   41.89 lb	24 kg   52.91 lb	23 kg   50.71 lb
Gas ballast	Yes	Yes	Yes
Operating altitude, max.	2500 m	2500 m	2500 m





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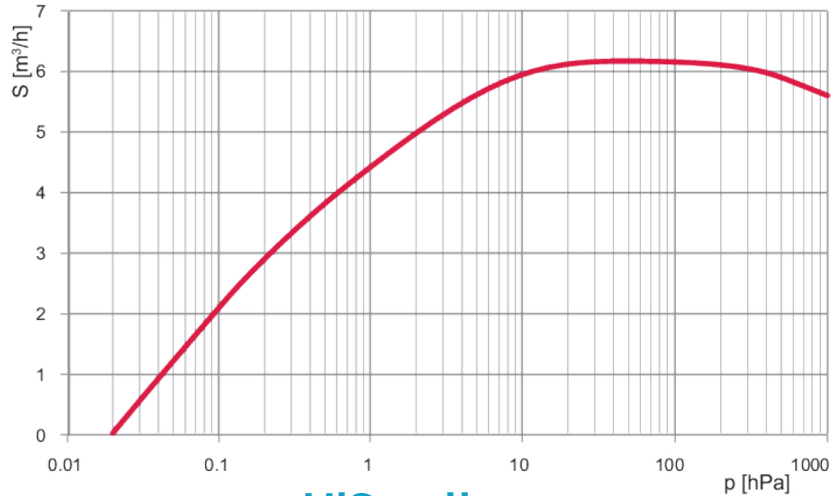
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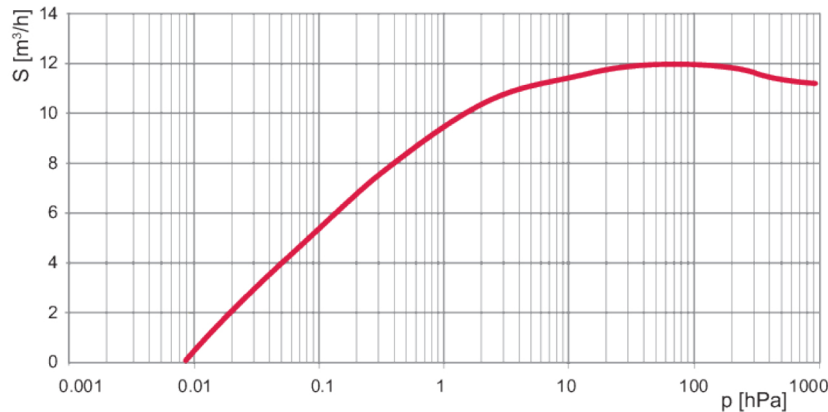
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# Pfeiffer HiScroll 6, 12, 18 Pumping Curves

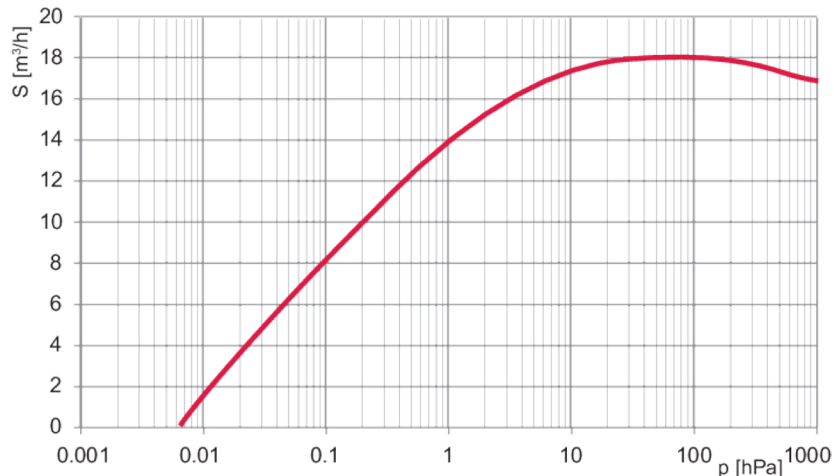
### HiScroll 6



### HiScroll 12



### HiScroll 18





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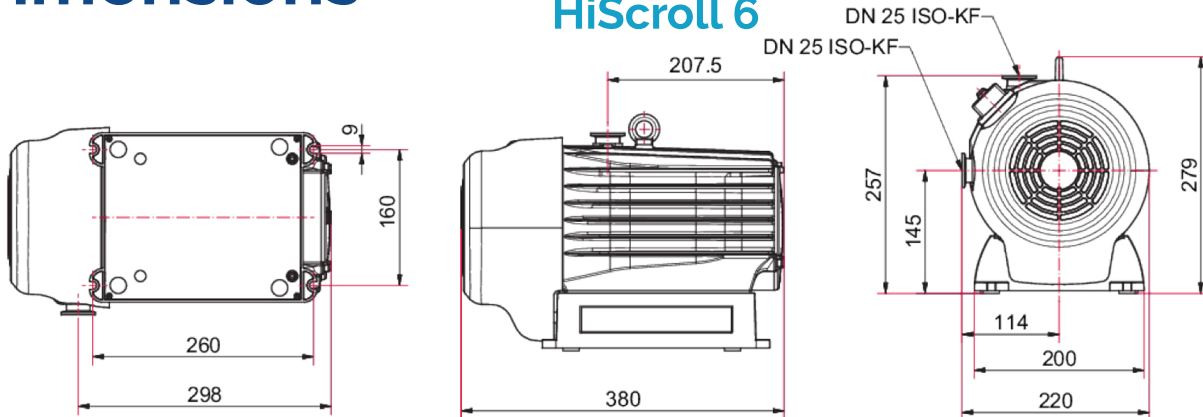
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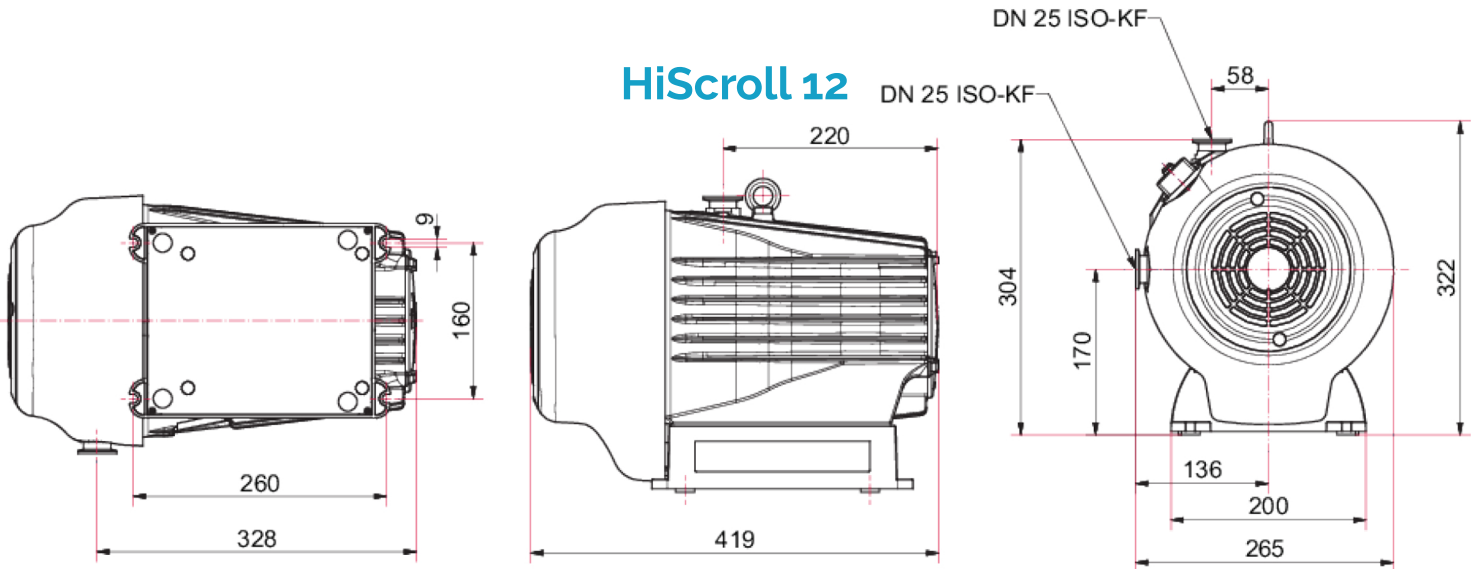
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## Pfeiffer HiScroll 6, 12, 18 Dimensions

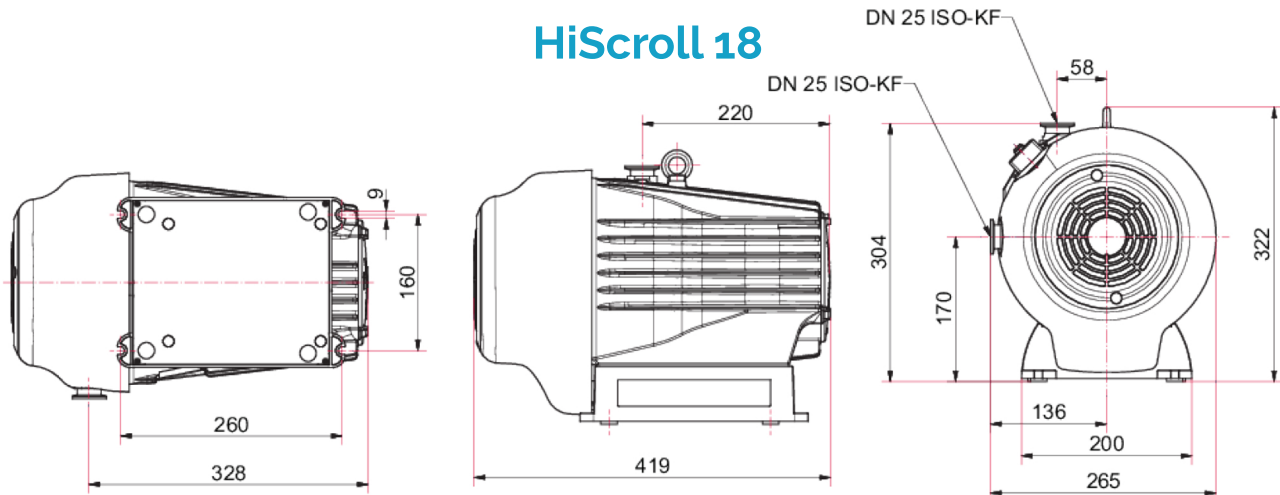
### HiScroll 6



### HiScroll 12



### HiScroll 18





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## Pfeiffer HiScroll 6, 12, 18

### Features & Benefits

- no hydrocarbons: completely dry & oil-free scroll vacuum pump
- low noise level, minimal vibrations & compact design
- ideal for use in laboratories
- safe operation due to the installed non-return valve & hermetically sealed pumping system
- low operating costs due to long maintenance intervals
- power as required: stable pumping speed & short cycle times
- 15% higher efficiency of the drive system, reduced heat generation & minimum cooling requirements
- operation with other intelligent products such as turbos via RS-485
- suitable for all voltages worldwide

### Applications

- mass spectrometry • accelerators • laboratories • leak detection
- semiconductor technology • coating • gas recovery • vacuum drying