



# HiScroll 18, scroll pump, standard, including ATEX

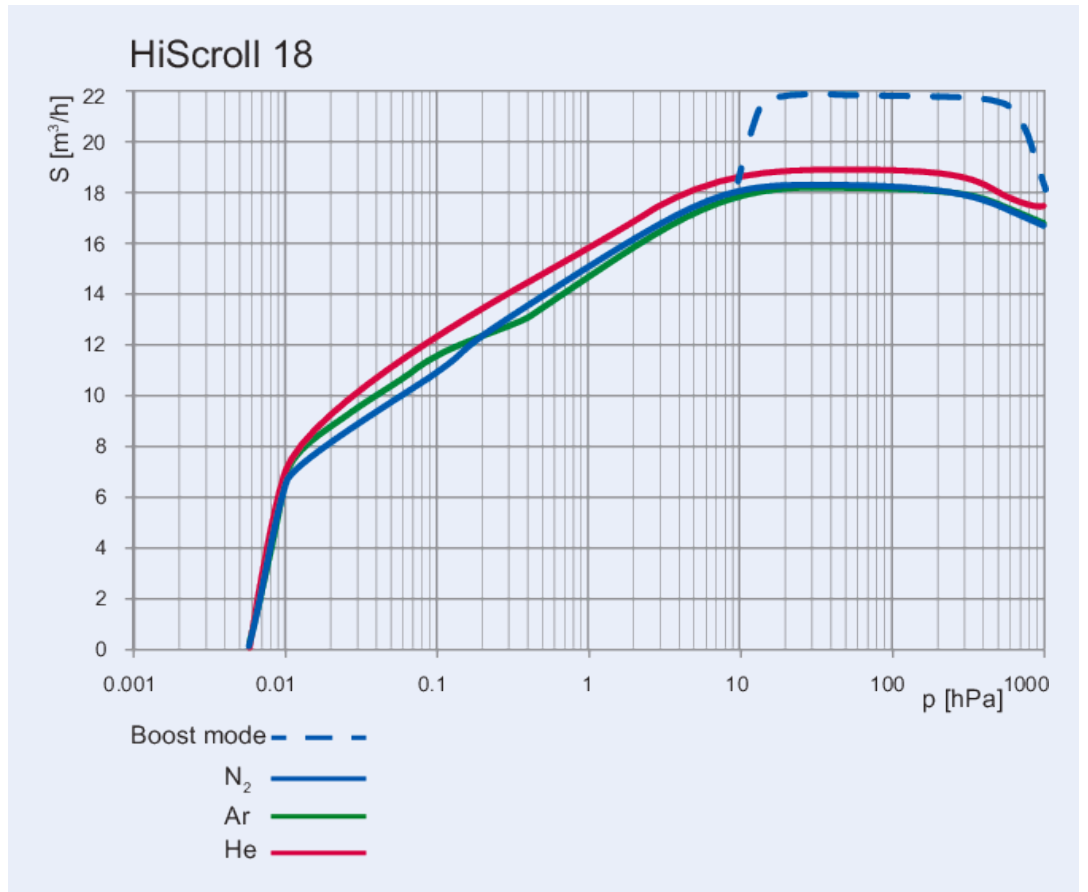
# HiScroll 18



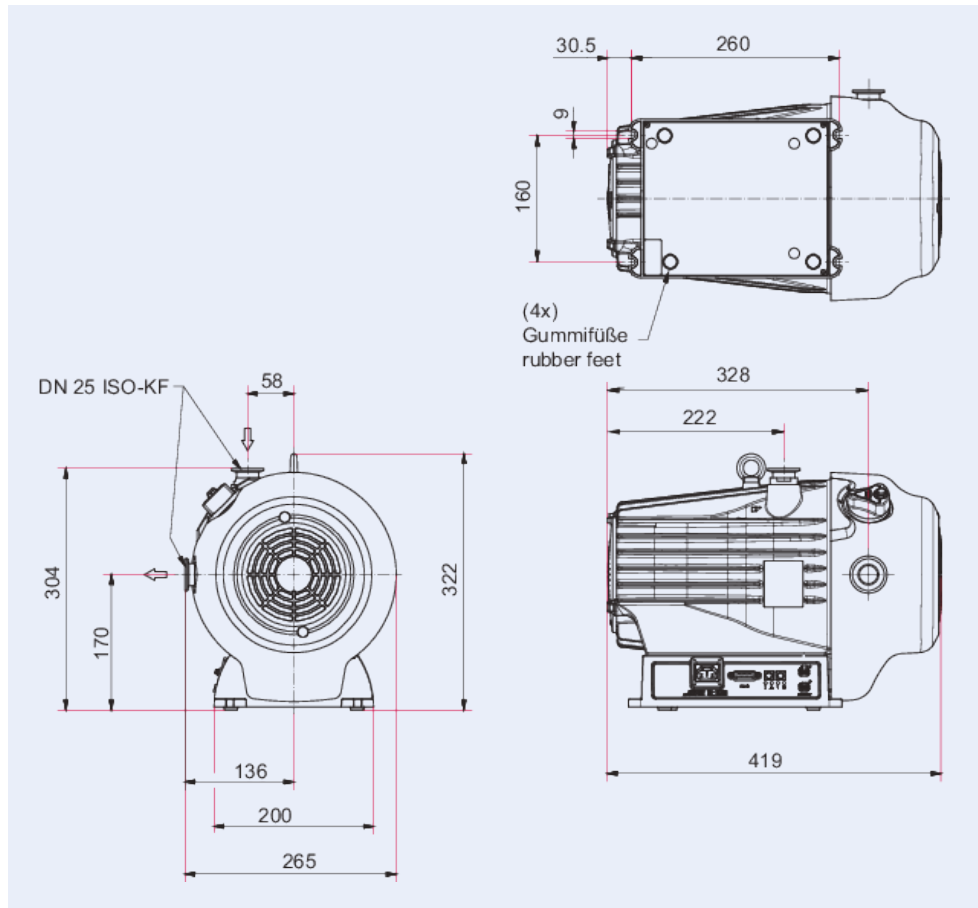
## HiScroll 18, scroll pump, standard, including ATEX

- No hydrocarbons: Completely dry & oil-free Scroll vacuum pump
- Low noise level, minimal vibrations and compact design, ideal also for use in laboratories
- Safe operation due to the installed non-return valve and hermetically sealed pumping system
- Low operating costs thanks to the highest quality, short maintenance times and long maintenance intervals
- Power as required: Stable pumping speed and short cycle times
- Sustainable: 15 % higher efficiency of the drive system, lower heat generation and lower cooling requirements
- Intelligent operating modes such as standby mode and interfaces for linking controllers and other Pfeiffer vacuum via RS-485
- Simple logistics: Our HiScroll pumps are suitable for all voltages worldwide

## Characteristics



## Dimensions



<b>Technical Data</b>	<b>HiScroll 18, scroll pump, standard, including ATEX</b>
Pumping speed	18.1 m <sup>3</sup> /h
Ultimate pressure	6 · 10 <sup>-3</sup> hPa   4.5 · 10 <sup>-3</sup> Torr   6 · 10 <sup>-3</sup> mbar
Ultimate pressure for gas ballast stage 1	3 · 10 <sup>-2</sup> hPa   2.25 · 10 <sup>-2</sup> Torr   3 · 10 <sup>-2</sup> mbar
Ultimate pressure for gas ballast stage 2	2 · 10 <sup>-1</sup> hPa   1.5 · 10 <sup>-1</sup> Torr   2 · 10 <sup>-1</sup> mbar
Gas ballast flow stage 1	1.38 m <sup>3</sup> /h   0.812 cfm   23 l/min
Gas ballast flow stage 2	1.8 m <sup>3</sup> /h   1.059 cfm   30 l/min
Integral leak rate	5 · 10 <sup>-7</sup> Pa m <sup>3</sup> /s   6.65 · 10 <sup>-5</sup> Torr l/s   5 · 10 <sup>-5</sup> mbar l/s
Intake pressure max.	1,100 hPa
Exhaust pressure, max.	1,500 hPa   1,125 Torr   1,500 mbar
Connection flange (in)	DN 25 ISO-KF
Connection flange (out)	DN 25 ISO-KF
I/O interfaces	RS-485
Input voltage(s)	100 – 127 / 200 – 240 V AC (±10 %), 50/60 Hz
Input voltage: tolerance	±10 %
Motor type	1-phase motor
Rated current consumption	100 V – 127 V: 10 A   200 V – 240 V: 6 A
Current, max.	10 A
Rotation speed	624 – 1870 rpm
Nominal rotation speed	1,560 rpm   1,560 min <sup>-1</sup>
Protection degree	IP40   Type 1
ATEX-certification	Ex II 3/-G Ex h IIC T4 Gc X +5 °C ≤ T <sub>a</sub> ≤ +40 °C
Certification	Semi S2 compatible   Semi S8 compatible   cTUVus certified according to UL / CSA 61010-1
Switch	Yes
Ambient temperature	5 – 40 °C
Cooling method	Air (Forced convection)
Emission sound pressure level (EN ISO 2151)	47 dB(A)
Weight	23 kg   50.71 lb
Gas ballast	Yes
Operating altitude, max.	2,500 m

<b>Order number</b>	<b>HiScroll 18, scroll pump, standard, including ATEX</b>
HiScroll 18, scroll pump, standard, including ATEX	PD S30 000

<b>Accessories</b>	<b>HiScroll 18, scroll pump, standard, including ATEX</b>
Valve kit for HiScroll 6/12/18	PD E13 000 -T
Maintenance kit tip seal for HiScroll 12/18	PD E20 000 -T
Spare parts kit – Cover + fan for HiScroll 12/18	PD E25 000 -T

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