



HiScroll 12, scroll pump, standard, including ATEX

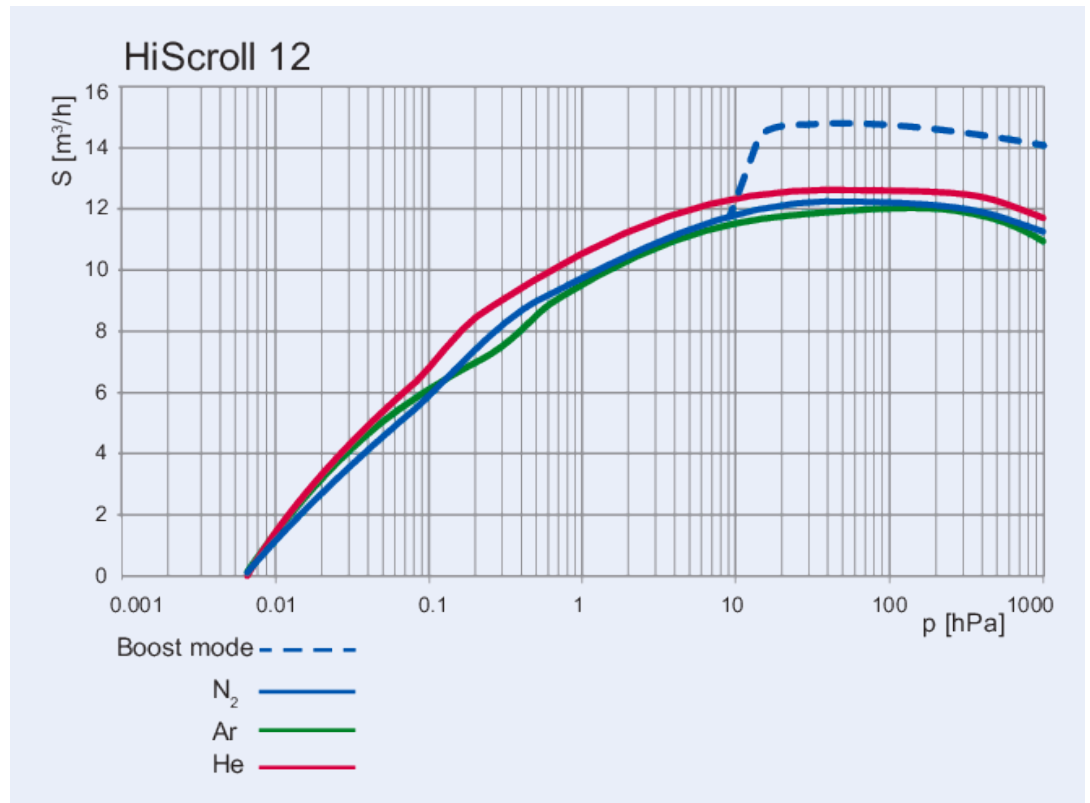




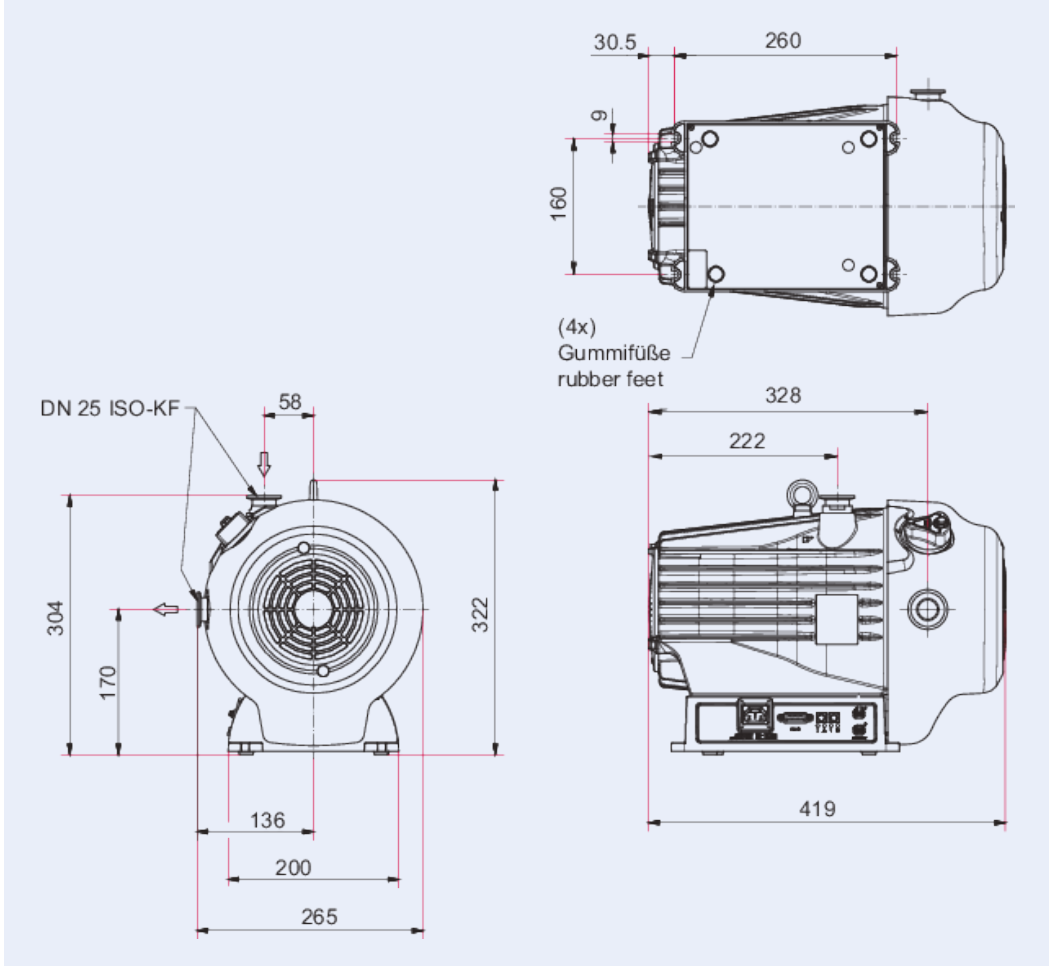
HiScroll 12, scroll pump, standard, including ATEX

- 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



Technical Data	HiScroll 12, scroll pump, standard, including ATEX
Pumping speed	12.1 m ³ /h
Final pressure	6 · 10 ⁻³ hPa 4.5 · 10 ⁻³ Torr 6 · 10 ⁻³ mbar
Ultimate pressure for gas ballast stage 1	5 · 10 ⁻² hPa 3.75 · 10 ⁻² Torr 5 · 10 ⁻² mbar
Ultimate pressure for gas ballast stage 2	4 · 10 ⁻¹ hPa 3 · 10 ⁻¹ Torr 4 · 10 ⁻¹ mbar
Gas ballast flow stage 1	1.08 m ³ /h 0.636 cfm 18 l/min
Gas ballast flow stage 2	1.8 m ³ /h 1.059 cfm 30 l/min
Integral leak rate	5 · 10 ⁻⁷ Pa m ³ /s 6.65 · 10 ⁻⁵ Torr l/s 5 · 10 ⁻⁵ 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 %
Rated current consumption	100 V – 127 V: 8 A 200 V – 240 V: 4 A
Current, max.	8 A
Rotation speed	624 – 1 870 rpm
Nominal rotation speed	1,560 rpm 1,560 min ⁻¹
Protection degree	IP40 Type 1
ATEX-certification	Ex II 3/G Ex h IIC T4 Gc X +5 °C ≤ T _a ≤ +40 °C
Certification	Semi S2 compatible Semi S8 compatible cTUVus certified according to UL / CSA 61010-1 KC
Switch	Yes
Ambient temperature	5 – 40 °C
Cooling method	Air (Forced convection)
Emission sound pressure level (EN ISO 2151)	47 dB(A)
Weight	24 kg 52.91 lb
Gas ballast	Yes
Operating altitude, max.	2,500 m

Order number	HiScroll 12, scroll pump, standard, including ATEX
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Accessories	HiScroll 12, scroll pump, standard, including ATEX
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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Errors and/or changes excepted. - 7/6/2024

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