



# HiScroll 12, scroll pump, with automated gas ballast

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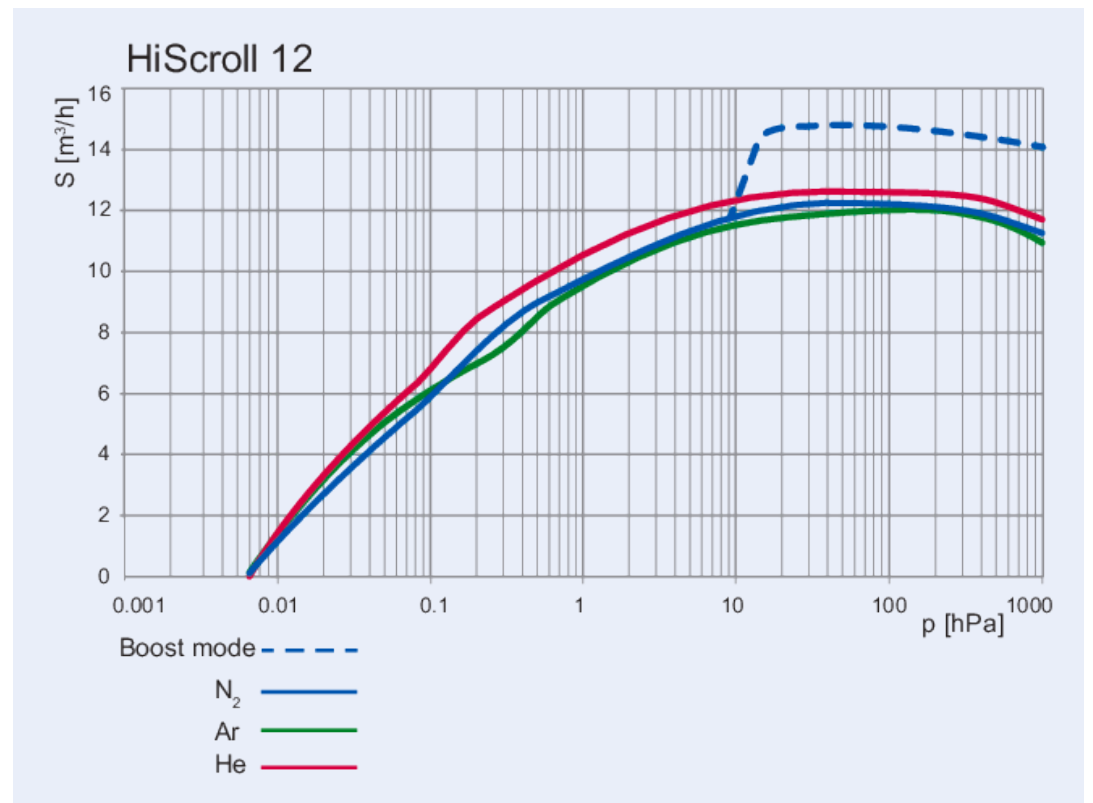


Illustration only

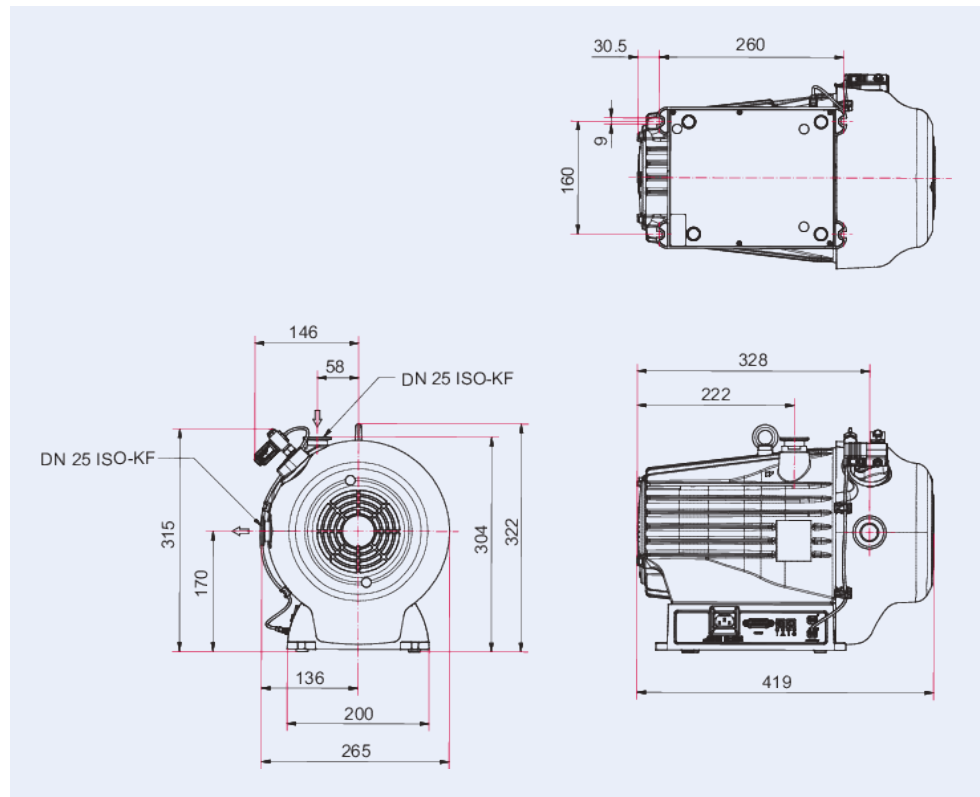
## **HiScroll 12, scroll pump, with automated gas ballast**

- 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
- Industry 4.0 compatible: Operation with other intelligent products, such as turbopumps via RS-485
- Simple logistics: Our HiScroll pumps are suitable for all voltages worldwide
- Automated gas ballast for fully integrated systems

## Characteristics



## Dimensions



Technical Data	HiScroll 12, scroll pump, with automated gas ballast
Gas ballast	Yes
Cooling method	Air (Forced convection)
Motor type	1-phase motor
Motor protection	Internal
I/O interfaces	RS485
Ambient temperature	5 – 40 °C
Certification	Semi S2 compatible   Semi S8 compatible   cTUVus certified according to UL / CSA 61010-1   KC
Weight	24 kg   52.91 lb
Pumping speed	12.1 m <sup>3</sup> /h
Input voltage(s)	100 – 127 / 200 – 240 V AC (±10 %), 50/60 Hz
Emission sound pressure level (EN ISO 2151)	≤47 dB(A)
Gas ballast pressure	1,500 hPa   1,125 Torr   1,500 mbar
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	5 · 10 <sup>-2</sup> hPa   3.75 · 10 <sup>-2</sup> Torr   5 · 10 <sup>-2</sup> mbar
Ultimate pressure for gas ballast stage 2	4 · 10 <sup>-1</sup> hPa   3 · 10 <sup>-1</sup> Torr   4 · 10 <sup>-1</sup> mbar
Tested base pressure	6 · 10 <sup>-3</sup> hPa   4.5 · 10 <sup>-3</sup> Torr   6 · 10 <sup>-3</sup> mbar
Exhaust pressure, max.	1,500 hPa   1,125 Torr   1,500 mbar
Switch	Yes
Rotation speed	624 – 1870 rpm
Nominal rotation speed	1,560 rpm   1,560 min <sup>-1</sup>
Gas ballast flow stage 1	0.96 m <sup>3</sup> /h   0.565 cfm   16 l/min
Gas ballast flow stage 2	1.44 m <sup>3</sup> /h   0.848 cfm   24 l/min
Operating altitude, max.	3,000 m
Intake pressure max.	1,100 hPa   825 Torr   1,100 mbar
Mains cable	No
Dimensions (L x W x H)	419 x 276 x 315 mm
Connection flange (in)	DN 25 ISO-KF
Connection flange (out)	DN 25 ISO-KF

Order number	HiScroll 12, scroll pump, with automated gas ballast
HiScroll 12, scroll pump, with automated gas ballast	PD S20 002

Accessories	HiScroll 12, scroll pump, with automated gas ballast
Valve kit for HiScroll 6/12/18	PD E13 000 -T
Spare parts kit – Cover + fan for HiScroll 12/18	PD E25 000 -T
Maintenance kit tip seal for HiScroll 12/18	PD E20 000 -T



Errors and/or changes excepted. - 4/2/2025

**Are you looking for an optimum vacuum solution?**

**Talk to us:**

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