



HiScroll 46, scroll pump, three-phase motor



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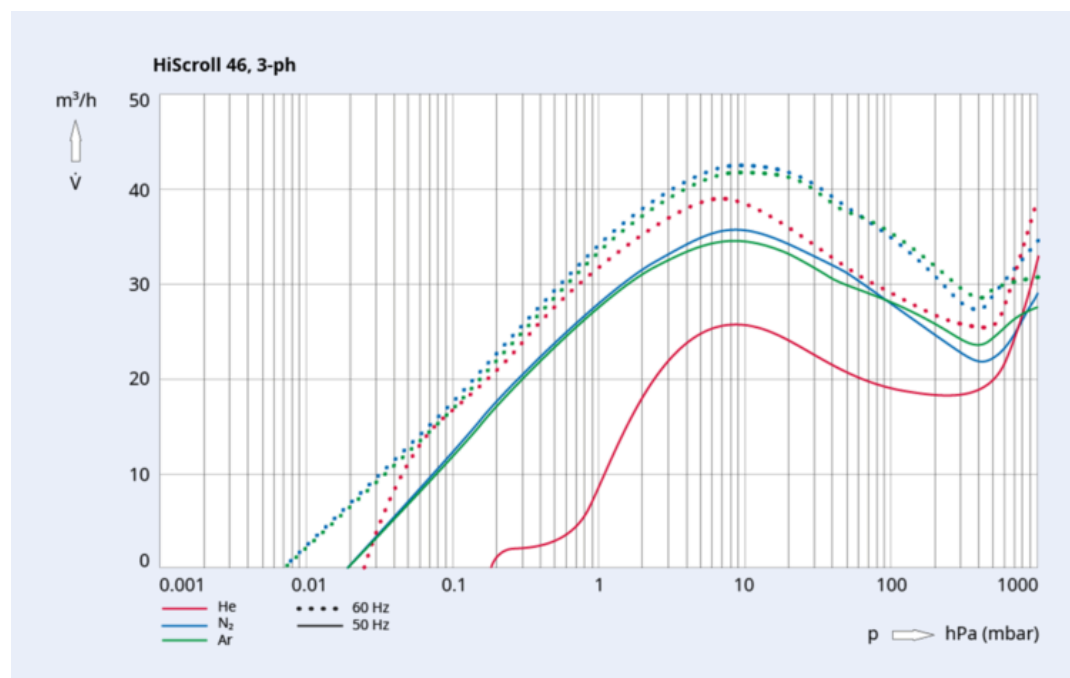


Illustration only

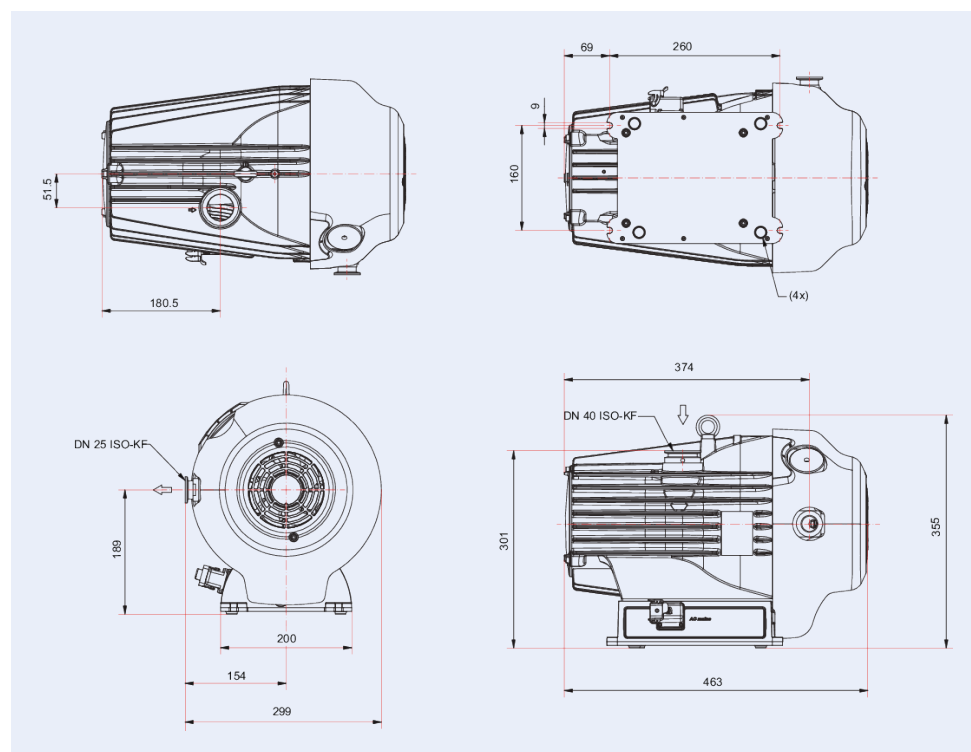
HiScroll 46, scroll pump, three-phase motor

- No hydrocarbons: Completely dry & oil-free Scroll vacuum pump
- Ultra-quiet and low-vibration - perfect for laboratories and quiet working environments
- Safe operation thanks to standard built-in non-return valve, hermetically sealed pump system and IP44 protection for industrial environments
- Seamless integration - Compact design, easy to implement and flexible thanks to Harting connector power supply
- Maximum efficiency and performance - shortest pump-down time with lowest energy consumption
- Sustainable: Lowest power consumption at final pressure, lower heat generation and lower cooling requirements
- ATEX conformity: Ex II 3 (internal)/- (external) G Ex h IIC T4 Gc X +5 °C ≤ Ta ≤ +40 °C
- Simple logistics: Our HiScroll pumps are suitable for all voltages worldwide
- Low operating costs thanks to the highest quality, short maintenance times and long maintenance intervals

Characteristics



Dimensions



Technical Data	HiScroll 46, scroll pump, three-phase motor
Gas ballast	Yes
Cooling method	Air (Forced convection)
Motor type	3-phase motor
Ambient temperature	5 – 40 °C
Certification	cTUVus certified according to UL / CSA 61010-1
ATEX-certification	Ex II 3/-G Ex h IIC T4 Gc X +5 °C ≤ T _a ≤ +40 °C
Weight	34 kg 74.96 lb
Pumping speed at 50 Hz	35 m ³ /h 20.601 cfm 583.345 l/min
Pumping speed at 60 Hz	43 m ³ /h 25.31 cfm 716.68 l/min
Input voltage(s)	190 – 220 / 380 – 415 V AC, 50 Hz 200 – 240 / 380 – 480 V AC (±5 %), 60 Hz
Emission sound pressure level (EN ISO 2151)	≤55 dB(A)
Gas ballast pressure	1,500 hPa 1,125 Torr 1,500 mbar
Ultimate pressure	7 · 10 ⁻³ hPa 5.25 · 10 ⁻³ Torr 7 · 10 ⁻³ mbar
Ultimate pressure for gas ballast stage 1	3 · 10 ⁻² hPa 2.25 · 10 ⁻² Torr 3 · 10 ⁻² mbar
Ultimate pressure for gas ballast stage 2	2 · 10 ⁻¹ hPa 1.5 · 10 ⁻¹ Torr 2 · 10 ⁻¹ mbar
Ultimate pressure at 50 Hz	0.02 hPa 0.015 Torr 0.02 mbar
Ultimate pressure at 60 Hz	0.007 hPa 0.005 Torr 0.007 mbar
Tested base pressure	7 · 10 ⁻³ hPa 5.25 · 10 ⁻³ Torr 7 · 10 ⁻³ mbar
Exhaust pressure, max.	1,200 hPa 900 Torr 1,200 mbar
Rotation speed at 50 Hz	1,460 rpm 1,460 min ⁻¹
Rotation speed at 60 Hz	1,760 rpm 1,760 min ⁻¹
Gas ballast flow stage 1	1.38 m ³ /h 0.812 cfm 23 l/min
Gas ballast flow stage 2	2.1 m ³ /h 1.236 cfm 35 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)	463 x 299 x 334 mm
Connection flange (in)	DN 40 ISO-KF
Connection flange (out)	DN 25 ISO-KF

Order number	HiScroll 46, scroll pump, three-phase motor
HiScroll 46, scroll pump, three-phase motor	PD S40 200

Accessories	HiScroll 46, scroll pump, three-phase motor
TipSeal maintenance kit for HiScroll 46	PD E40 000 -T
Valve set for HiScroll 46	PD E43 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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