

HiScroll 46

Scroll vacuum pump

PFEIFFER 
VACUUM+FAB SOLUTIONS

Part of the **BUSCH** GROUP



High performance

Fastest pump-down time in its class, highly energy-efficient and powerful interior permanent magnet (IPM) synchronous motor generating less heat compared to conventional drives

Quiet

Sound pressure level less than 47 dB(A) in single-phase version

Compact

Smallest and lightest vacuum pump in its performance class, perfectly suited for applications in laboratories

Accessories, spare parts and options

- Tip seal replacement kit
- Tip seal and bearing replacement kit
- Gas-ballast valve kit
- Bellow kit
- Cover kit
- Electronics kit
- Exhaust silencer
- Inlet filter
- Automated vacuum safety valve
- OmniControl control device
- EtherCAT converter
- Profinet converter
- Single-phase VSD version
- Single-phase VSD version with integrated pressure gauge
- Three-phase version
- C-Version - corrosive gas version (to be released in 2025)

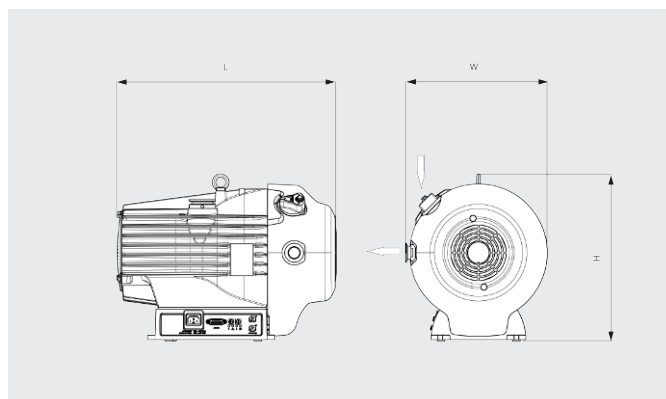
HiScroll 46

Scroll vacuum pump

PFEIFFER
VACUUM+FAB SOLUTIONS

Part of the **BUSCH** GROUP

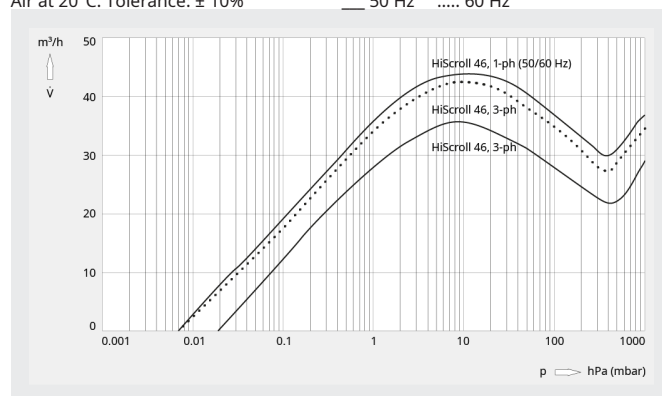
Dimensional drawing



Pumping speed

Air at 20°C. Tolerance: $\pm 10\%$

— 50 Hz 60 Hz



HiScroll 46	
Pumping speed	43 m³/h
Ultimate pressure (gas-ballast valve closed)	0.007 hPa(mbar)
Ultimate pressure (gas-ballast valve open stage 1)	≤ 0.03 hPa(mbar)
Ultimate pressure (gas-ballast valve open stage 2)	≤ 0.2 hPa(mbar)
Power consumption at ultimate pressure	295 W
Motor speed	720-1800 min ⁻¹
Nominal motor speed	1800 min ⁻¹
Sound pressure level (ISO 3744) accuracy grade 2	≤ 47 dB(A)
Weight approx.	32 kg
Dimensions (L x W x H)	463 x 299 x 334 mm
Gas inlet / outlet	DN 40 ISO-KF / DN 25 ISO-KF

DO YOU WANT TO KNOW MORE?

Get in touch with us directly!



CONTACT FORM