

Fossa

Scroll Vacuum Pumps FO 0015/0035 A



Hermetically sealed, 100% oil free and ideal for pumping air or conveying gases without leakage or ambient air contamination – the Fossa scroll vacuum pump.

Two standard sizes are available: FO 0015 A and FO 0035 A. Featuring consistently high vacuum levels and with very low noise and vibration levels, these pumps are ideal for today's analytical and scientific applications. Thanks to its compact design, the Fossa scroll vacuum pump requires no special mounting making setup quick and easy while also providing a high degree of pump mobility.

The low noise and vibration levels make the Fossa vacuum pumps suitable for use

in areas such as laboratories. With no shaft seals and with lifetime-lubricated bearings, the Fossa vacuum pump requires very little maintenance. Its high level of efficiency ensures maximum suction capacity with low energy consumption. The standard gas-ballast valve enables the pumping of vapor.

Fossa scroll vacuum pumps are the perfect solution for backing of turbomolecular pumps. They are ideally suited for generating fine vacuum in load lock or transfer chambers, helium leak detectors, mass spectrometers, electron microscopes and other analytical devices. They are also used in processes for handling of gases which require the highest level of purity within the gas recovery process.

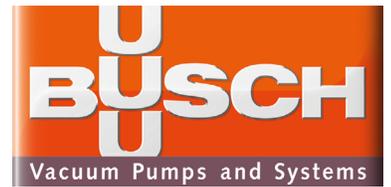


**Fossa – Hermetically sealed.
Quiet and low vibration levels.**



Fossa

Scroll Vacuum Pumps FO 0015/0035 A



Technical specifications

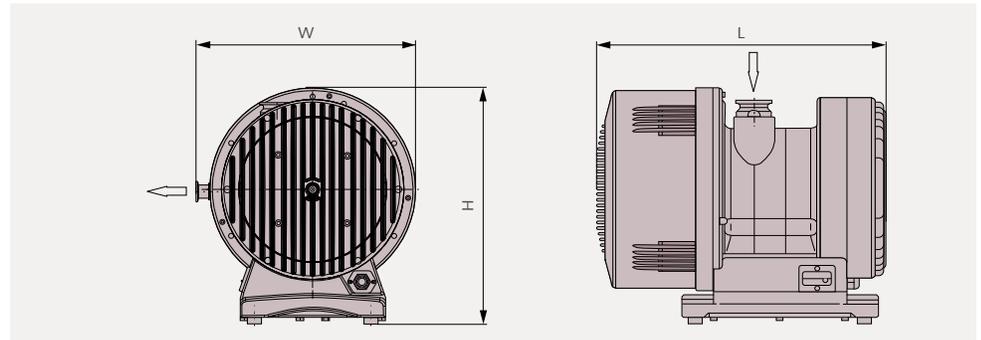
The Fossa scroll vacuum pump consists of both a fixed and an orbiting scroll. As the orbiting scroll moves, voids are created at the inlet of the pump, drawing in the gas. As the rotor further moves, the gas is steadily compressed until it is discharged to atmosphere at the pump exhaust.

The scroll pump design provides 100% oil-free operation as it does not require any lubrication. The bearings are separated from the compression chamber so no contamination of the pumped gas is possible. In addition, the leak-tight design ($\leq 1 \cdot 10^{-6}$ mbar l/s) helps prevent contamination of the pumped gas by ambient air. Maintenance is limited to changing the scroll tip seals which can be easily done by the operator and without the need for special tools.

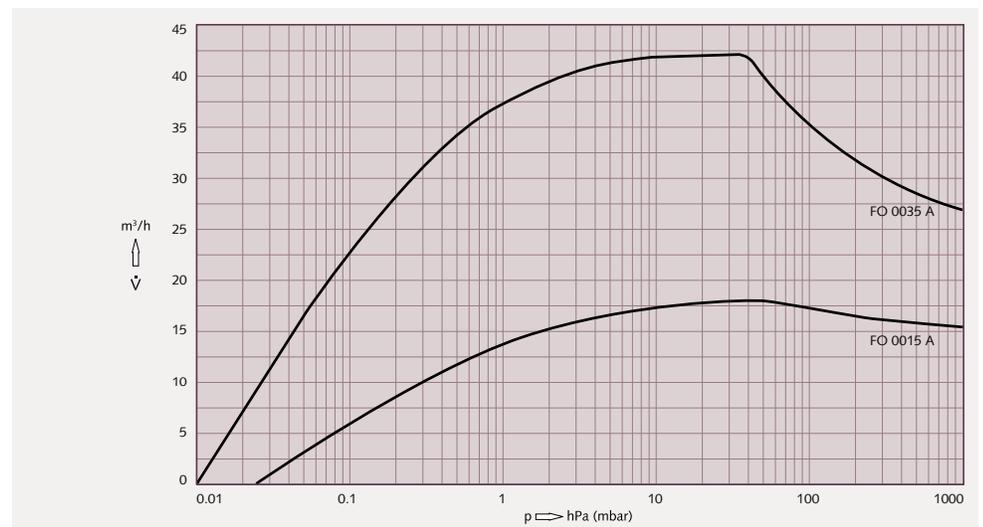
Accessories / Technical options

- Gas-ballast valve - delivered by default, but unasssembled
- Standard connector (IEC EN60320 C13, single phase motor only)

FO 0015/0035 A



Pumping speed Air at 70 °F. Tolerance: $\pm 10\%$



Technical Data		FO 0015 A	FO 0035 A
Max. pumping speed	m³/h	18	42
Ultimate pressure	hPa (mbar)	$\leq 2.5 \cdot 10^{-2}$	$\leq 1 \cdot 10^{-2}$
Leak rate	mbar l/s	$\leq 1 \cdot 10^{-6}$	$\leq 1 \cdot 10^{-6}$
Nominal motor rating	kW	0.4	0.75
Nominal motor speed	min ⁻¹	1780	1780
Motor supply voltage	V	1 x 100-115 / 50-60 Hz 1 x 200-240 / 50-60 Hz 3 x 190-240 / 380-415 / 50-60 Hz	3 x 190 -220 / 50-60 Hz (built-in motor protection) 3 x 190-240 / 380-415 / 50-60 Hz
Sound level (ISO 2151)	dB(A)	< 59	< 63
Approximate weight	kg	48	50
Dimensions (L x W x H)	mm	450 x 338 x 369	462 x 338 x 369
Gas inlet / outlet	ISO-KF	DN 40 / DN 16	DN 40 / DN 16

All performance data is based on ambient conditions of 14.7 PSIA and 70 °F, and has a tolerance of $\pm 10\%$.

Busch LLC

516 Viking Drive | Virginia Beach, VA 23452 | Phone 757-463-7800 | info@buschusa.com | www.buschusa.com

Argentina Australia België Brasil Canada Česko Chile 中国 Colombia Danmark Deutschland España France भारत गणराज्य Ireland ישראל Italia 日本 대한민국 Magyarország Malaysia México Nederland New Zealand Norge Österreich Perú Polska Portugal România Россия Schweiz Singapore South Africa Suomi Sverige 台湾 ประเทศไทย Türkiye الإمارات العربية المتحدة United Kingdom USA

Technical data is subject to change. Created in Germany. MG PL FOSSAFO00150035A USenus 02/2017 3.0