

# FOSSA FO 0035 B

Scroll vacuum pumps



VACUUM SOLUTIONS



## Robust

Specially designed for analytical and scientific applications, for example leak detection, single-sided scroll design, dry compression, gas-tight, lifetime-lubricated bearings, minimal maintenance

## Easy servicing

No special tools necessary, modular design for rapid exchange of stages

## Quiet

Low noise and vibration levels, can be installed at workstations

Accessories, spare parts and options

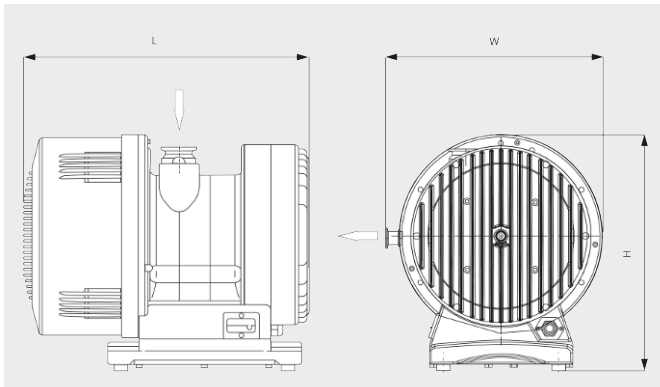
- Inlet filter, FIL 0080
- Gas-ballast valve
- Gas-ballast adapter, dilution kit
- Four castor wheels
- Tip seal replacement kit
- Exhaust filter and silencer

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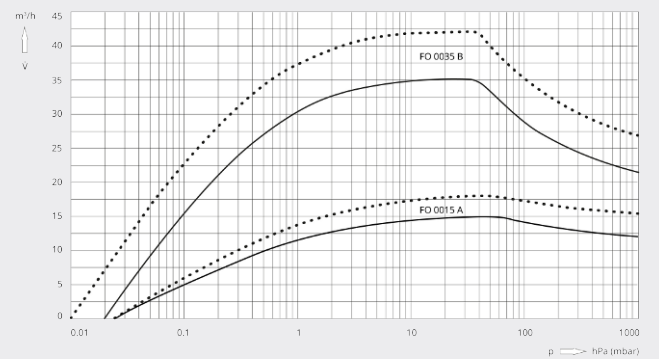
Dimensional drawing



Pumping speed

Air at 20°C. Tolerance:  $\pm 10\%$

— 50 Hz ..... 60 Hz



| FOSSA FO 0035 B                                    |                                        | FOSSA FO 0035 B                                    |                                                                      |
|----------------------------------------------------|----------------------------------------|----------------------------------------------------|----------------------------------------------------------------------|
| Pumping speed                                      | 35 / 42 m³/h (50 / 60 Hz)              | Pumping speed                                      | 35 / 42 m³/h (50 / 60 Hz)                                            |
| Pumping speed                                      | 583 / 700 l/min (50 / 60 Hz)           | Pumping speed                                      | 583 / 700 l/min (50 / 60 Hz)                                         |
| Ultimate total pressure (gas-ballast valve closed) | 0.01 hPa (mbar)                        | Ultimate total pressure (gas-ballast valve closed) | 0.01 hPa (mbar)                                                      |
| Ultimate total pressure (gas-ballast valve open)   | 0.09 hPa (mbar)                        | Ultimate total pressure (gas-ballast valve open)   | 0.09 hPa (mbar)                                                      |
| Max. continuous inlet pressure                     | 100 hPa (mbar)                         | Max. continuous inlet pressure                     | 100 hPa (mbar)                                                       |
| Max. back pressure                                 | 200 hPa (mbar) rel.                    | Max. back pressure                                 | 200 hPa (mbar) rel.                                                  |
| Water vapor capacity (gas-ballast valve open)      | 400 g/h                                | Water vapor capacity (gas-ballast valve open)      | 400 g/h                                                              |
| Leakage rate (helium)                              | $< 1 \cdot 10^{-6}$ mbar · l/s         | Leakage rate (helium)                              | $< 1 \cdot 10^{-6}$ mbar · l/s                                       |
| Nominal motor rating                               | 0.75 kW                                | Nominal motor rating                               | 0.75 kW                                                              |
| Operating voltage                                  | 100 – 240 V (50 / 60 Hz)               | Operating voltage                                  | 190 – 220 / 380 – 415 V (50 Hz) /<br>200 – 240 / 380 – 480 V (60 Hz) |
| Motor phase                                        | Single-phase                           | Motor phase                                        | Three-phase                                                          |
| Ambient temperature                                | 5 – 40 °C                              | Ambient temperature                                | 5 – 40 °C                                                            |
| Vibration level at inlet (ISO 10816-1)             | Class 1B, $< 1.5$ mm · s <sup>-1</sup> | Vibration level at inlet (ISO 10816-1)             | Class 1B, $< 1.5$ mm · s <sup>-1</sup>                               |
| Noise level (ISO 2151)                             | 43 dB(A) (idle mode) / 60 dB(A) (max.) | Noise level (ISO 2151)                             | 43 dB(A) (idle mode) / 60 dB(A) (max.)                               |
| Weight approx.                                     | 50 kg                                  | Weight approx.                                     | 50 kg                                                                |

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|                        | FOSSA FO 0035 B                                                                                                                                                                                                                             | FOSSA FO 0035 B                                                                                                                                                                          |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions (L x W x H) | 462 x 338 x 369 mm                                                                                                                                                                                                                          | 462 x 338 x 369 mm                                                                                                                                                                       |
| Gas inlet / outlet     | DN 40 ISO-KF / DN 16 ISO-KF                                                                                                                                                                                                                 | DN 40 ISO-KF / DN 16 ISO-KF                                                                                                                                                              |
| Emissions and immunity | EN 61236-1:2013 as a class A device                                                                                                                                                                                                         | EN 61236-1:2013 as a class A device                                                                                                                                                      |
| Safety                 | EN/IEC 61010 third edition certified                                                                                                                                                                                                        | EN/IEC 61010 third edition certified                                                                                                                                                     |
| Additional information | <ul style="list-style-type: none"><li>• Integrated frequency converter</li><li>• IEC connector + M/A IP40 switch</li><li>• Sub-D 9-pin, female communication port</li><li>• ATEX II 3G Ex Ex h IIB T4 Gc X certification (inside)</li></ul> | <ul style="list-style-type: none"><li>• IP44 cable gland</li><li>• Motor without integrated thermal protection</li><li>• ATEX II 3G Ex Ex h IIB T4 Gc X certification (inside)</li></ul> |

## DO YOU WANT TO KNOW MORE?

Get in touch with us directly!  
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