

MiniCapt® Compressed Gas Kit

Microbial Monitoring Accessory



The MiniCapt® Compressed Gas kit allows the MiniCapt Mobile Microbial Sampler to perform microbiological monitoring of compressed gases. The compressed gas kit is designed to work with either the 25 LPM, 50 LPM, or 100 LPM MiniCapt systems.

This compressed gas kit uses a special diffusion chamber mounted directly to the MiniCapt inlet, the other end of which is connected directly to the high pressure gas distribution line. For safety reasons and to regulate the flow rate of the gas into the diffusion chamber, a pressure regulator is installed in the sampling line between the high pressure gas source and the inlet to the kit. A solenoid valve is connected downstream of regulator and allows the MiniCapt to synchronize the flow of the gas with the start of a sample.

The flow of the gas to be sampled is controlled using the principle of the critical orifice. Under operating pressures, the critical orifice regulates the flow rate into the diffusion chamber and the exhaust.

BENEFITS

- Small size for easy access to sampling points
- Economical monitoring of pressurized gases with atmospheric pressure
- Accessory to an already validated instrument
 - Does not need additional qualification
- Relatively low weight compared to competitive instruments
- HEPA air filter for overpressure air and inversion from low pressure/flow prevents contamination

FEATURES

- Measures gases with pressures of 0.5 to 10 bar (7.2 - 145 psi) with the range dependent on the model
- Can be used with Clean Dry Air (CDA), argon, nitrogen, carbon dioxide or other non-toxic inert gases
- No external flow meters needed
- Three different versions: 25, 50 and 100 LPM flow rates
- No moving parts to wear
- Autoclavable stainless steel construction (removable solenoid valve)
- Ease of cleaning with Isopropyl Alcohol 70/30, Sodium Hypochlorite 1%, and Hydrogen Peroxide 3%

APPLICATIONS

- MiniCapt Mobile (25, 50, 100 LPM)

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Specifications

	MiniCapt Mobile
Pressure	0.5 – 10 bar (7.2 – 145 psi) for 25 LPM flow rate 1.0 – 10 bar (14.5 – 145 psi) for 50 LPM flow rate 1.5 – 10 bar (21.7 – 145 psi) for 100 LPM flow rate
Flow rate	Options for 25 LPM, 50 LPM, or 100 LPM
Material	316L stainless steel expansion chamber, regulator, adaptor and solenoid valve
Sample gas	Dry, inert, non-toxic, non-flammable gases (CDA, nitrogen, argon, carbon dioxide) NOTE: For carbon dioxide sampling, contact Particle Measuring Systems.
Inlet fitting	G1/8 BSPP threaded 0.236 in (6 mm) outer diameter tubing
Exhaust fitting	316L stainless steel 0.875 in (22 mm) connection to filter
ISO class	ISO Class 5, 6, 7 and 8
Dimensions (h, w, d)	8.5 x 6 x 4 in (21.6 x 15.2 x 10.2 cm)
Weight	4.1 lb (1.86 kg)
Compatible instruments	MiniCapt Mobile (25, 50, 100 LPM)

System components included: diffusion chamber, dual connection impactor, absolute filter, solenoid valve and cable, pressure regulator, and pressure tubing

Not included: MiniCapt sampling device

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