

BREATHING AIR SYSTEM BRAIRFC PLUS

DESCRIPTION

BRAIRFC PLUS system has been specifically designed for applications where high quality breathing air and monitoring of breathing air supply are needed. BRAIRFC PLUS is a combination of our BRAIRFC 0106 breathing air filter set combined with gas concentration analysers, fitted with pressure regulator and quick couplings, all packed in a compact and robust casing.

Gas concentration analysers constantly monitor CO, CO₂ and O₂ concentrations and trigger an alarm if concentrations exceed the EN12021 and BS4275:1997 standard compliant values. In this way BRAIRFC PLUS can safely provide high quality breathing air for up to 5 people⁽¹⁾.

Small dimensions and low weight enable the use of BR-AIRFC PLUS in many applications as it can be transported and set up with ease.



FEATURES

BRAIRFC PLUS has the following features:

- High quality breathing air for up to 5 people⁽¹⁾;
- Air quality monitoring (EN 12021, BS 4275:1997)⁽²⁾;
- Compact;
- Light weight;

(1) Inlet air supply 7 bar, 20°C at peak inhalation rate 8,9 cfm (very high peak inhalation rate by BS 4275:1997)

(2) Monitoring concentrations of CO, CO₂ and O₂ for compliance with EN 12021 and BS 4275:1997

TECHNICAL SPECIFICATION

Electrical connection	230 VAC / 110 VAC / 9 VDC to 24 VDC
Power consumption	< 10W
Operating pressure range	0 - 16 bar (0 - 232 psi)
Operating temperature range	1,5 – 40°C (35 – 104°F)
Connection (Inlet, Outlet)	Quick coupling DN 7,2 (inlet-male , outlet-female)
Flow rate (7bar, 20°C)	120 Nm ³ /h (71 scfm)
Outlet quality class – solids (ISO 8573-1)	1
Outlet quality class – oils (ISO 8573-1)	1
Filtration stage S	solid and liquid particle filtration down to 0,01 µm
Filtration stage H ²	CO removal
Filtration stage A ²	oil particle filtration down to < 0,005 mg/m ³
Sensor warm up time	120 s
Response time	90 s
CO monitoring	warning 3 ppm, alarm 5ppm
CO ₂ monitoring	alarms (increasing intensity) at 500 ppm/1500 ppm
O ₂ monitoring	alarm at O ₂ concentration <19,5%
Analyser approvals	EN 50270:1999 EN 61000-6-3:2001+A11:2004 BS EN 61010-1:2001 IEC 61010-1(2ed) AS 61610.1-2003 (Australia & New Zealand)
Protection class of analysers	IP65
Weight	12 kg



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PRESSURE EQUIPMENT DIRECTIVE PED 97/23/CE (Fluid group 2)

BRAIRFC PLUS is constructed according to PED 97/23/CE but certification for this product is not required.

MAINTENANCE

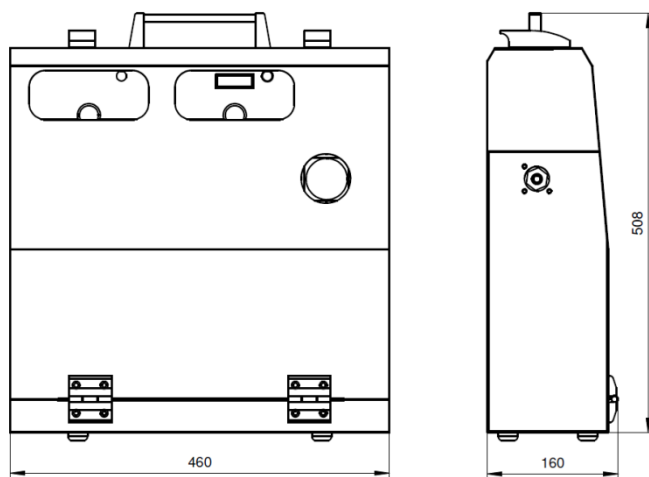
Replace filter element S at least once per year or when pressure drop reaches 350 mbar.

Replace filter elements A² and H² at least every 3 months or sooner if it is required for a specific application.

Replace CO sensor element every 24 months. Calibrate CO sensor after replacing CO sensor element.

Replace O₂ sensor element every 12 months.

CO₂ sensor element does not need to be replaced.



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Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2008
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