

OMEGA AIR | Breathing Air Solutions

B-AIR PLUS SERIES

Technical Datasheet & Specification Sheet

SYSTEM OVERVIEW & DESCRIPTION

The **B-AIR PLUS system** is engineered specifically for industrial and professional applications requiring certified high-quality breathing air combined with continuous gas monitoring. The system integrates the robust **B-AIR 0106 breathing air filter set** with high-precision gas concentration analysers, an integrated pressure regulator, and quick couplings, housed within a portable or wall-mountable housing (standard colour: yellow).

Gas concentration analysers continuously monitor **Carbon Monoxide (CO)**, **Carbon Dioxide (CO²)**, and **Oxygen (O²)** concentrations, triggering immediate visual and audible alarms if gas levels breach values specified by **EN 12021** and **BS 4275:1997** compliance standards. The system safely supplies purified breathing air for up to **5 people simultaneously**.

PRODUCT VARIANTS & CONFIGURATIONS

Model Variant	Installation Style	Controller & HMI Integration
B-AIR PLUS W	Wall-Mounted	Without controller
B-AIR PLUS WH	Wall-Mounted	Includes integrated controller & HMI
B-AIR PLUS P	Portable (on wheels)	Without controller
B-AIR PLUS PH	Portable (on wheels)	Includes integrated controller & HMI

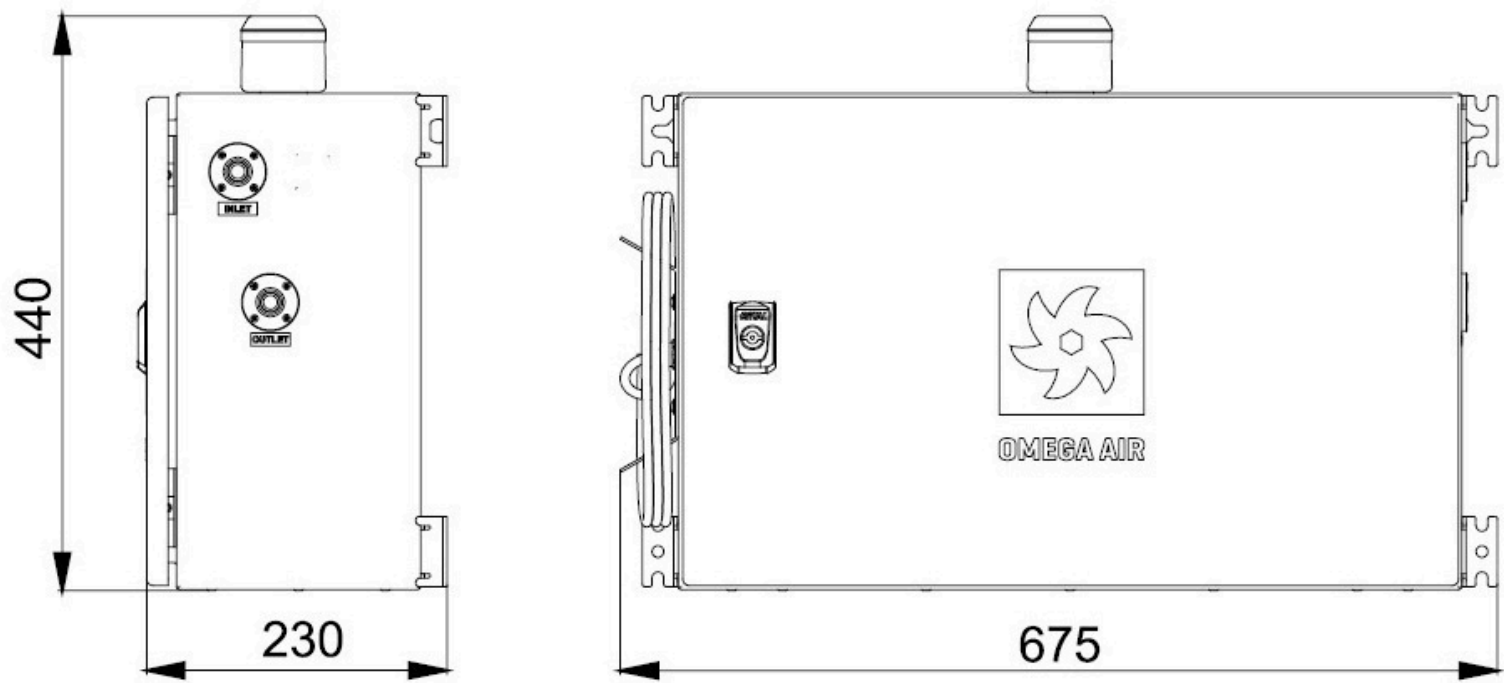
TECHNICAL SPECIFICATIONS

Parameter / Characteristic	Specification & Value
Operating Pressure Range	0 - 16 bar (0 - 232 psi)
Operating Temperature Range	1.5 - 40 °C (35 - 104 °F)
Connection (Inlet / Outlet)	G ½
Volume Flow Rate (7 bar, 20 °C)	120 Nm³/h (71 scfm)
Maximum Capacity	Up to 5 people simultaneously
Quality Class - Solids	ISO 8573-1
Quality Class - Oils	ISO 8573-1
Filtration Stage S	Solid and liquid particle filtration down to 0,01 µm
Filtration Stage H²	CO removal (Catalytic)
Filtration Stage A²	Oil filtration down to <0.005 mg/m³

GAS ANALYSERS & ELECTRONIC MONITORING

Gas Analyser Parameter	Operational Threshold & Specification
Electrical Connection	230 VAC, 50/60 Hz
Power Consumption	<10 W
CO Monitoring Limits	Warning: 3 ppm Alarm: 5 ppm
CO ² Monitoring Limits	Alarms (increasing intensity): at 500 ppm / 1500 ppm
O ² Monitoring Limits	Alarm trigger at O ² concentration <19.5%
Protection Class of Sensors	IP 65
Analyser Approval Standards	<ul style="list-style-type: none">• EN 50270:1999• EN 61000-6-3:2001+A11• EN / IEC 61010-1• AS 61610.1 (Australia & New Zealand)

PHYSICAL DIMENSIONS & MECHANICAL SPECIFICATIONS



Dimension / Weight Property	Value
Dimensions (H x W x D)	440 mm x 675 mm x 230 mm
Total Unit Weight	12 kg
Standard Casing Colour	Yellow (High-visibility protective housing)