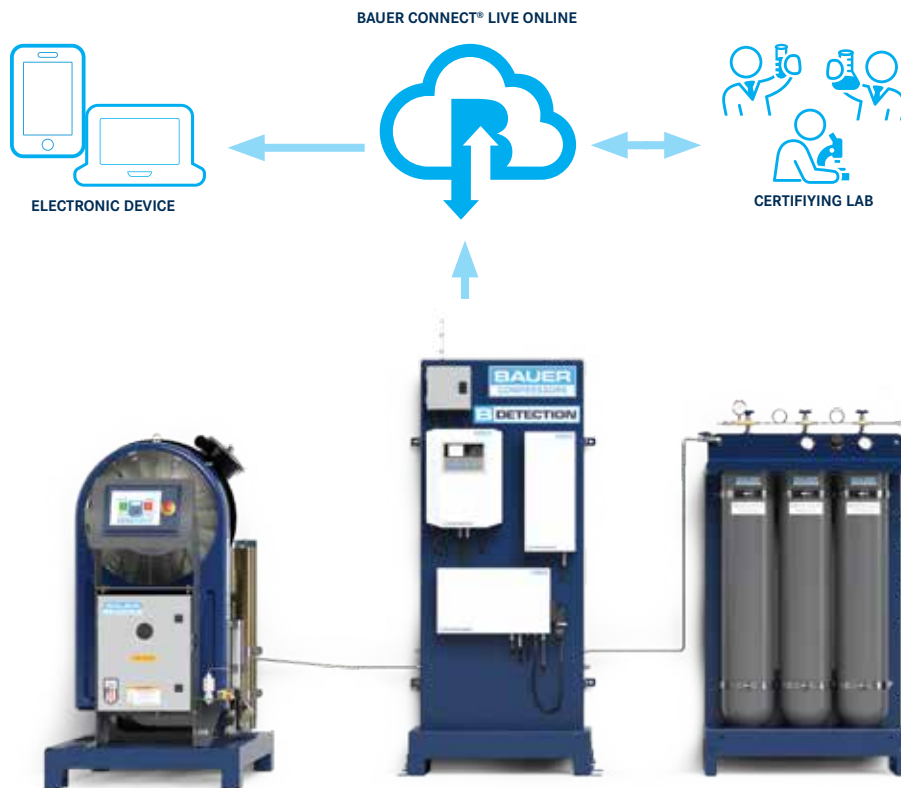




B DETECTION PLUS

CONTINUOUS ALL-IN-ONE AIR QUALITY MONITORING

Ensures 24/7 compliance with the NFPA 1989-19 Breathing Air Quality Standard. The **BAUER B-DETECTION™ PLUS** continuous air quality monitoring system measures the quality of the breathing air produced by the compressor system in real time, every time the compressor is running. The system measures CO, CO₂, O₂, N₂, Dew Point and VOC content and compares the actual values vs. NFPA Standards for Breathing Air.

BAUER's patented Bump Testing Feature assures that all B-DETECTION sensors are checked automatically for accuracy at pre-prescribed intervals. All Bump Test data is automatically logged into the BFS™ Cloud for permanent record keeping.

Prevents contaminated air from ever reaching your SCBA. If at any time the NFPA prescribed air quality values are out of spec, the B-DETECTION™ control unit displays a visual warning and prevents contaminated air from passing into the SCBA or storage cylinders. At the same time, the app automatically sends out push notifications to fire department designated personnel via SMS text and / or e-mail.

Cloud-connected with automatic record keeping. All measured air quality metrics are continuously uploaded to the BAUER B-DETECTION™ cloud-based app where they become proof of compliance with the applicable Breathing Air Standards of NFPA 1989-19. Customers are able remotely monitor their compressors air quality via the app and to run historical reports of air quality going back 5 years. Records are kept for a total of 10 years.

B-DETECTION™ PLUS is also available in a mobile version.

SYSTEM FOOTPRINT

DIMENSIONS L X W X H inches (mm)

› 32.59" x 15.88" x 82.69"
(827.79mm x 403.35mm x 2100.33mm)

WEIGHT pounds (kg)

› 375 lb (170.10 kg)



TECHNICAL DATA

B-DETECTION PLUS

B-DETECTION PLUS i/s

B-DETECTION PLUS m

MEASUREMENT VALUES

Carbon dioxide (CO₂), carbon monoxide (CO), oxygen (O₂), absolute humidity¹, VOC¹

Carbon dioxide (CO₂), carbon monoxide (CO), oxygen (O₂), absolute humidity¹, VOC¹

MEASUREMENT METHOD

CO₂ Nondispersive infrared spectroscopy (NDIR)

Nondispersive infrared spectroscopy (NDIR)

CO, O₂ Electrochemical

Electrochemical

Absolute humidity Via dew point

Via dew point

VOC (oil) Photoionization detector (PID)

Photoionization detector (PID)

MEASUREMENT VALUES AND MEASUREMENT ACCURACY ²

CO₂ 0- 2.000 ppm ± 2.5 % Full scale

0- 2.000 ppm ± 2.5 % Full scale

CO 0-25 ppm ± 2 % of measurement range final value

0-25 ppm ± 2 % of measurement range final value

O₂ 0 %-40 % O₂ ± 1 % of measurement range final value

0 %-40 % O₂ ± 1 % of measurement range final value

Dew-point -94°F to 140°F/ 10-40,000 ppm ± 35.6°F/ 1 ppm + 20% of displayed value

-94°F-140°F/ 10-40,000 ppm ± 35.6°F/ 1 ppm + 20% of displayed value

VOC (oil) 0 -1 ppm (based on isobutene as calibration gas)

0-1 ppm (based on isobutene as calibration gas)

TECHNICAL SPECIFICATIONS

Permissible operating temp 41°F-113°F

41°F-113°F

Operating voltage Integrated: 24 VDC; stand-alone: 100-250 VAC, 50/60 Hz

90 - 260 VAC, 50/60 Hz

Flow rate 0.018-.053 cfm; dew point sensor: 0.071-0.071 cfm

0.018-.053 cfm; dew point sensor: 0.071-0.071 cfm

Weight Integrated: 4.5lbs ; stand-alone without AIRBOX: 15.65 lbs. ; AIRBOX (450 bar): 30.86 lbs (41.89 lbs.); Test gas box (with cylinder): 15.21 lbs. (26.23 lbs.)

17.36 lbs (standard version)
20.50 lbs (full version excluding adapter)

Dimensions W × H × D (inches) Integrated: 8.74 × 11.73 × 3.35;
Stand-alone: 18.19 × 13.94 × 7.24

18.27 in x 14.04 x 7.09 in

Max system pressure Optional: 6526 psig

-

Max permissible compressor charge rate³ 30 cfm

Permissible operating pressure: 58 - 6090 psig

SYSTEM TEST/CALIBRATION

Visual inspection and leak test Monthly

Monthly

Functions check ⁴ Min. Quarterly

Min. Quarterly

System check Annually

Annually

Calibration CO, CO₂, O₂, VOC sensor: As required and after replacing sensor; dew point sensor: every 24 months

CO, CO₂, O₂, VOC sensor: As required and after replacing sensor; dew point sensor: every 24 months

¹ Optional extra

² Accuracy valid at max. +/- 10 ° C deviation from calibration temperature.

³ Higher charging rate on request

⁴ Includes test with test gas; kit with test gas cylinders and pressure reducer (flow meter) available from BAUER COMPRESSORS

**SCAN TO
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U.S. HEADQUARTERS:

BAUER COMPRESSORS, INC.

1328 Azalea Garden Road
Norfolk, VA 23502
Tel. +1 (757) 855-6006
Fax +1 (757) 857-1041
SLS@BauerComp.com
www.BauerComp.com

BAUER MIAMI

Tel. +1 (954) 746-2504
Fax +1 (954) 746-2510
BFLSales@BauerComp.com

U.S. BRANCHES:

BAUER SAN FRANCISCO

1216 Stealth Street
Livermore, CA 94551
Tel. +1 (925) 449-7210
Fax +1 (925) 449-7201
BauerSF@BauerComp.com

BAUER NORTHEAST

2124 State Route 89
Seneca Falls, NY 13148
Tel. +1 (315) 568-5520
Fax +1 (315) 568-5520
Tim.Burgess@BauerComp.com