

B-BLENDING

BLENDING NITROX – SAFELY AND SECURELY

BAUER B-BLENDING system combines easy operation with TÜV-certified safety.

Use B-BLENDING with our Nitrox series compressors to produce nitrox blends with up to 40 % O₂ at low cost – even when space is at a premium. B-BLENDING is available as an integrated compressor unit or wall-mounted external unit. Keeping you flexible.

The B-BLENDING system is particularly suitable for diving centres with low or medium nitrox needs seeking a simple, yet safe nitrox production system.

Fittable to HP-compressors with charging rate:

› **260 - 450 l/min**

FEATURES

- › Nitrox blends with up to 40% O₂¹
- › Compact footprint
- › BAUER PureAir Certification available
- › The B-CONTROL II compressor control unit can easily be switched between nitrox and breathing air production

¹ Variable settings from 21 - 40 % possible.



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TECHNICAL SPECIFICATIONS

Charging rate HP-compressor ^{1, 2}		B-BLENDING Panel		HIGH PRESSURE MODULE	Total System	
l/min.	cfm	kg	cm		kg	cm
260	9.2	19	16 x 40 x 62	V12.14-OX-5.5-5	approx. 325	130 x 83 x 152 ⁴
320	11.5	19	16 x 40 x 62	MARINER-OX-320-E	approx. 200	130 x 82 x 75 ⁴
320	11.5	19	16 x 40 x 62	V12.14-OX-7.5-5	approx. 330	130 x 83 x 152 ⁴
450	16	19	16 x 40 x 62	V15.1-OX-11-5	approx. 410	130 x 83 x 152 ⁴

¹ Measured by cylinder filling from 0 - 200 bar, ± 5 %.

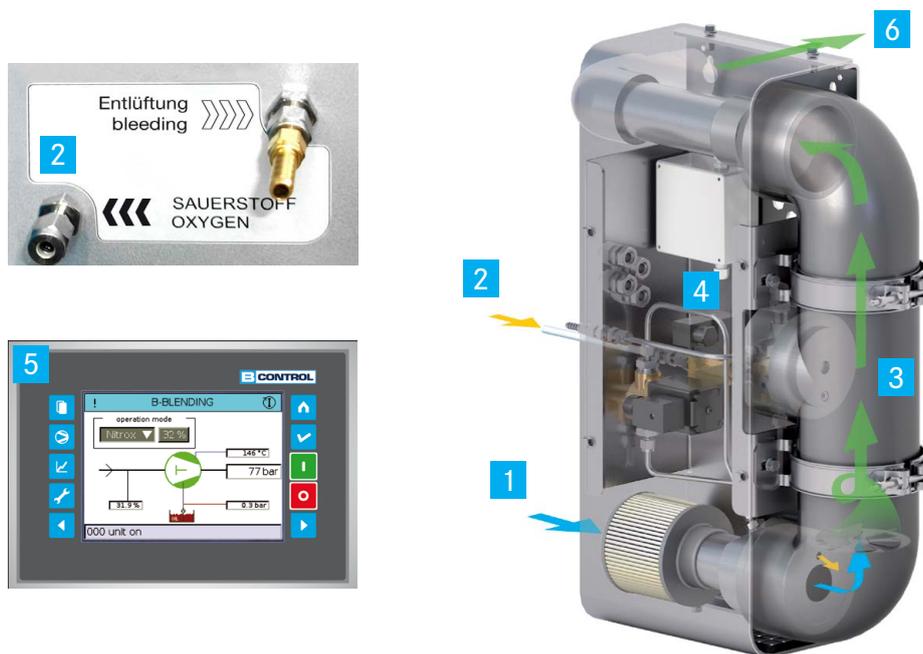
² For further data see page 16.

³ Super Silent models weight 90 kg more.

⁴ Dimensions Silent version: 165 x 83 x 152 cm.

HOW B-BLENDING WORKS

Uncompromising safety was our top priority in the development of B-BLENDING. By combining mechanical and electronic safety systems, we ensure that the oxygen content of the gas blend complies precisely with your settings at all times – independent of external factors. We focused on designing a clear, easy-to-operate user interface to eliminate operating errors.



- 1 Through the air filter, ambient air is drawn in and fed through a particle filter for pre-cleaning before it is directed into the blending duct.
- 2 Pure oxygen in breathing air quality is fed into the blending duct from an external oxygen cylinder. Quantities are precisely controlled by a proportional valve.
- 3 In the blending duct the pre-cleaned ambient air and oxygen are combined in the proportion previously set by the user. The blending duct interior is designed to ensure homogeneous blending.
- 4 A sensor at the mid-point of the blending duct measures the oxygen content of the nitrox blend and sends feedback to the control unit.
- 5 The B-CONTROL II compressor control unit is the control centre of the B-BLENDING system. It monitors the oxygen content of the nitrox blend in real time and regulates the oxygen feed via the proportional valve. The BAUER Nitrox Compressor shuts down immediately if a deviation from the setting is detected.
- 6 The nitrox blend is now compressed to its final pressure by the BAUER Nitrox Compressor.