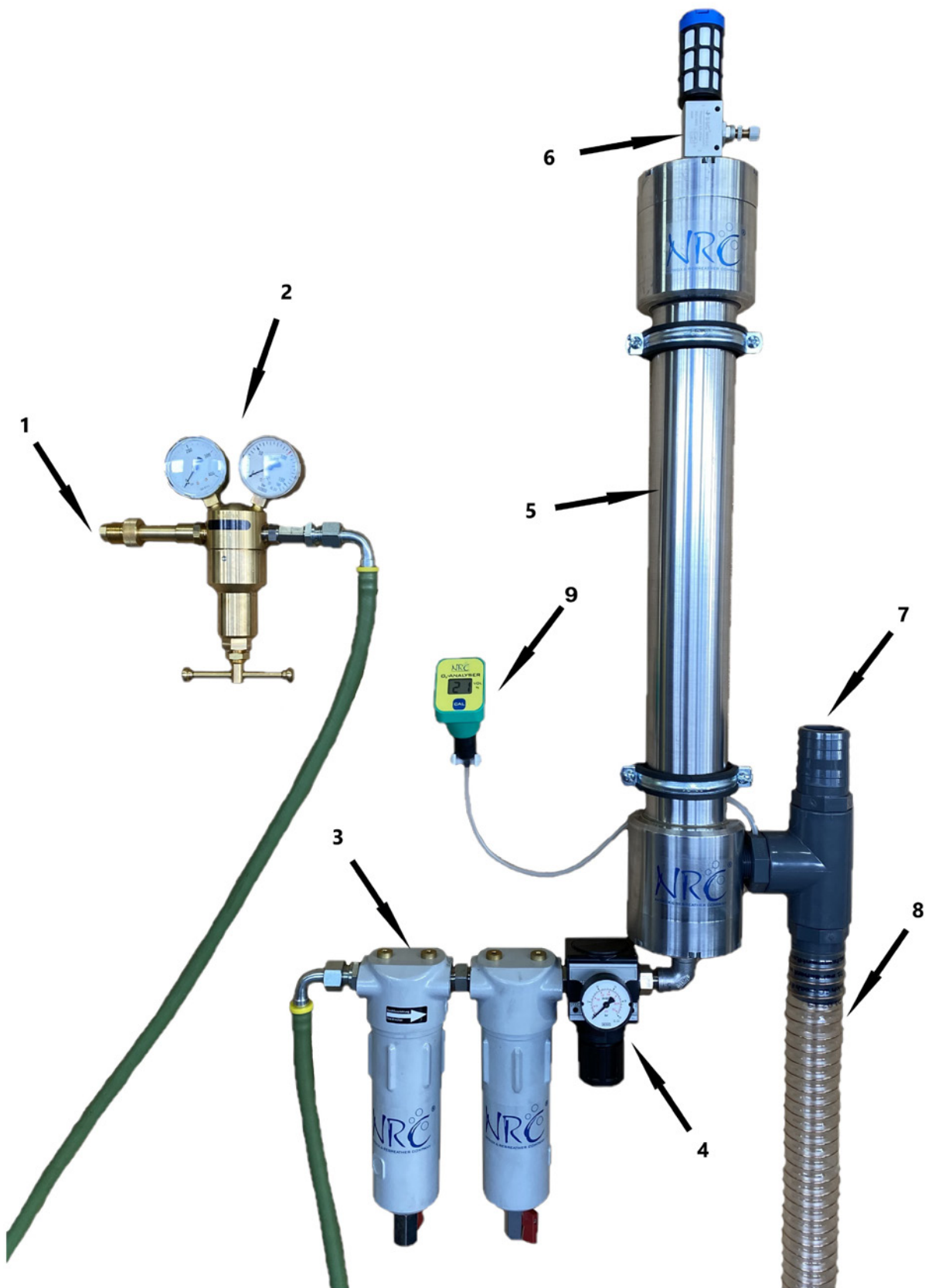


USER MANUAL

NRC PG Light



NRC
NITROX & REBREATHING COMPANY



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|--|---|
| <p>1. Pressure input of storage bottles (max. 300 bar)</p> <p>2. Pressure reducer with safety valve set pressure 15 bar (fixed setting)</p> <p>3. Filter section 0.01 my filter and activated carbon filter</p> <p>4. Pressure regulator for fine adjustment</p> | <p>5. Oxygen membrane</p> <p>6. O₂ % needle valve</p> <p>7. Intake pipe to the outside</p> <p>8. Connection to intake filter high pressure compressor</p> <p>9. NRC Nitrox Analyzer</p> |
|--|---|

Delivery:

The NRC PG Light membrane unit consists of the following components:

- Inlet pressure reducer 300 bar
- 2-fold filter oil-free (with replaceable cartridges)
- Nitrogen membrane
- Needle valve
- NRC oxygen analyzer

Functionality:

- Nitrox mixtures of 28% - 40% oxygen
- No pure oxygen is needed
- No separate pre-compressor
- No additional electricity consumption
- Little need for space required
- Can also be operated at high ambient temperatures
- Easy to use
- Extremely easy to maintain
- Reliable

A downstream high-pressure compressor compresses the Nitrox and fills it in the diving bottle. If you want to change the mixing ratio, adjust the needle valve to accomplish this.

Wear on the oxygen membrane does not take place during operation and guarantees an extreme long life span. The service for the NRC PG Light series is reduced to a minimum and is limited to the replacement of the prefilter cartridges.

The NRC PG Light series can be upgraded to the Professional series at any time by retrofitting a low pressure compressor.

Options:

- Membrane lining
- Compressed air storage

FEATURES	PG 400 Light
Dimensions D x W x H in mm	150 x 930 x 600
Nitrox delivery performance at 32% O ₂	up to 309 l / min Consumption from storage: 495 l / min at 8 bar * measured at 20 ° C
Nitrox delivery performance at 36% O ₂	up to 297 l/min Consumption from storage: 692 l/min at 8 bar * measured at 20 ° C
Nitrox delivery performance at 40% O ₂	up to 285 l/min Consumption from storage: 1190 l/min at 8 bar * measured at 20 ° C
Weight	ca. 25 kg

Installation:

1. Mount the PG light vertically on the wall, protected from vibration
2. Mount the pressure reducer (pos. 2) on the storage bottles
3. Connect the connecting hose from the pressure reducer (pos. 2) to the filter section (pos. 3)
4. Make sure that the filter (pos. 3) drainage (lever below) is closed
5. Calibrate the Nitrox analyzer (press and hold CAL for 3 seconds until the display flashes), unless 21% is shown on its display
6. Open the filled memory bank
7. Set the pressure on the fine pressure regulator (pos. 4) to 10 bar for the first time
8. Close / open the O₂ needle valve (pos. 6) until the Nitrox Analyzer shows 32% (or the desired%) *
9. Route the outlet (pos. 7) into the open or into the existing intake section
10. Connect the outlet (pos. 8) to the desired high-pressure compressor intake air filter
11. Start the high pressure compressor and fill the empty diving bottle
12. Measure the oxygen content of the diving bottle again with the Nitrox Analyzer
13. If O₂% in the filled diving bottle deviates from the set O₂% on the oxygen membrane, the pressure on the pressure reducer (pos. 4) must be readjusted

* Adjustment valve (pos. 6):

Increase nitrox% = unscrew adjusting screw counterclockwise = emerging volume becomes smaller

Lower nitrox% = screw in adjusting screw clockwise = exiting volume increases



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