

Tri Gas Mixer - Controlled Pressure Output

Supplies Air-CO₂ or N₂-O₂-CO₂ mixture at controlled pressure

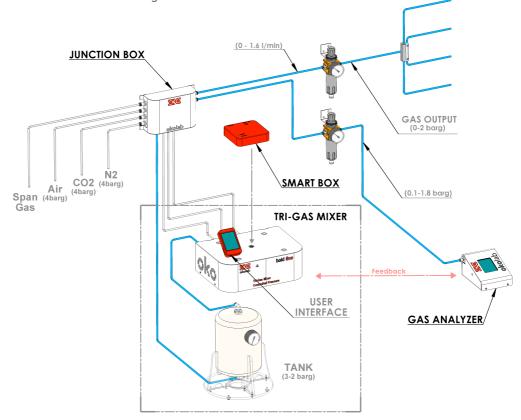
The **Tri Gas Mixer** replaces pre-mixed tanks and delivers CO_2 / O_2 / N_2 mixtures at up to 2.0 barg. One unit can deliver up to 1.6 l/min of mixed gas. The mixer is equipped with an intuitive 3.2' touch screen that can be used to define the desired gas concentration. The Tri Gas Mixer can be manually calibrated with any CO_2 and O_2 analyzer.

The Tri Gas Mixer is compatible with all the mini incubators available on the market.



COMPONENTS AND ACCESSORIES

- TRI GAS MIXER: mixing unit, pressurized tank, touch screen user interface.
- OKOLAB GAS ANALYZER: it allows to operate the TRI GAS MIXER in closed loop mode, with feedback from gas concentration and it improves mixing accuracy from 0.2% to 0.1%.
- JUNCTION BOX: it is controlled via Touch Screen and allows to perform the calibration of the GAS ANALYZER sensors and to automatically switch the feed to Span Gas if an alarm is given by the GAS MIXER or by the GAS ANALYZER.
- SMART BOX: it is a data logger, a web server, a video streaming server and a remote assistant tool. It connects to the TRI GAS MIXER through a cableless connector.





CO2 O2 UNIT BL CP2

TRI-GAS MIXER - features

- Operation mode CO₂/O₂: Adds CO₂ and Air to N₂
- Operation mode CO2: Adds CO2 to Air
- Concentration Range: CO₂: 0-10%; O₂ 0-10%
- CO₂ Accuracy: ±0.2% (0.1% with addition of GAS ANALYZER)
- O2 Accuracy: ±0.2% (0.1% with addition of GAS ANALYZER)
- CO₂ Repeatability: ±0.1%
- O2 Repeatability: ±0.1%
- Output Maximum Flow Rate: 1.6 Nl/min
- Maximum Output Pressure: 2.0 barg
- Pressurized vessel volume: 4.5 l (20 l optional)
- Input CO₂, Air and N₂ Pressure: 4.0 barg
- Input Gas connectors: 6 mm OD push in fittings
- Controller Dimensions, mm: 319 x 251 x 117
- User interface: Touch screen
- Output gas filter: VOC and HEPA filter upon request
- Communicates with CO2 O2 Okolab GAS ANALYZER via RS232 TTL
- SDK available for operation via PC

TRI-GAS MIXER + GAS ANALYZER - added features

- CO₂ Accuracy: ±0.1%
- O₂ Accuracy: ±0.1%
- Closed loop operation
- CO2 Sensor: Non Dispersive InfraRed (NDIR) dual wave length detector
- O₂ Sensor: Optical Oxygen Sensor

TRI-GAS MIXER + GAS ANALYZER + JUNCTION BOX - added features

- Switch to Span Gas on Alarm in automatic manner
- Switch between CO2/O2 and CO2 mode without disconnecting and reconnecting tubes
- Sensor Calibration via Touch Pad with Span Gas without disconnecting tubes

TRI-GAS MIXER + GAS ANALYZER + JUNCTION BOX + SMART BOX - added features

SMART BOX

USER INTERFACE

Smart box connects to Internet and is operated through a web application. Its main features are:

- Data logging
- Remote operation of the gas mixer and its accessories via Web with Computer, Tablet, SamartPhone
- Video Streaming
- Remote assistance





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code: CO2 O2 UNIT BL CP2
0-10%
0-10%
0-2.0 barg
1.6 Nl/min
± 0.1% with Okolab GAS ANALYZER (0.2% w/o)
± 0.1% with Okolab GAS ANALYZER (0.2% w/o)
0.1%
4.0 barg
319 x 251 x 117 mm
4.5 l
with any mini incubator available on the market
code: CO2 O2 GAS ANALYZER
Non Dispersive InfraRed (NDIR) dual wave length detector
Optical Oxygen Sensor
code: JUNCTION BOX
code: SM-BL



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