

Kuhner shaker

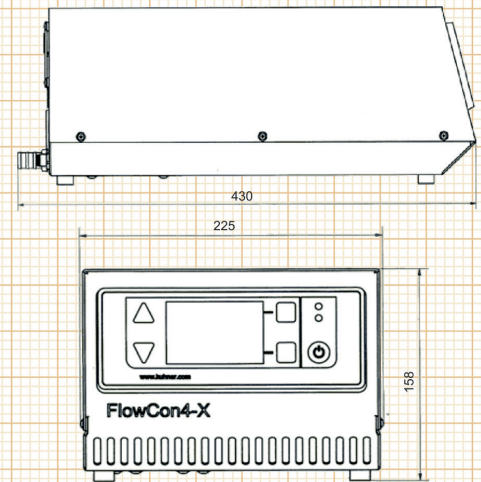
FlowCon 2/3/4

Stand-alone gas mixing device



FlowCon 4

mixing up to 4 gases

Dimensions

FlowCon 2/3/4

The Kuhner FlowCon has been developed for the R&D environment and initial production steps in bioreactors with disposable bags. Whether stabilizing pH in cell cultivations with CO₂ or reducing oxygen concentration for microaerophilic organisms, the FlowCon gas mixer meets all user needs. The FlowCon can be used as a stand-alone device or can be integrated with the Kuhner equipment family (incubator shakers, disposable bioreactors).

Reproducibility

Up to four mass flow controllers ensure high accuracy and reproducibility of the gas mixture. The number of mass flow controllers can be adapted to individual requirements (FlowCon 2/3/4). An integrated pressure sensor prevents over pressure in the connected bioreactor by reducing the gas flow in the first step and shutting off the gas flow in the second step. Step limits can be freely programmed by the user. Integrated air filters and back pressure valves ensure interference free and long operating times for the FlowCon.

The Kuhner Insight software provides data logging, programming, controlling and calibration.

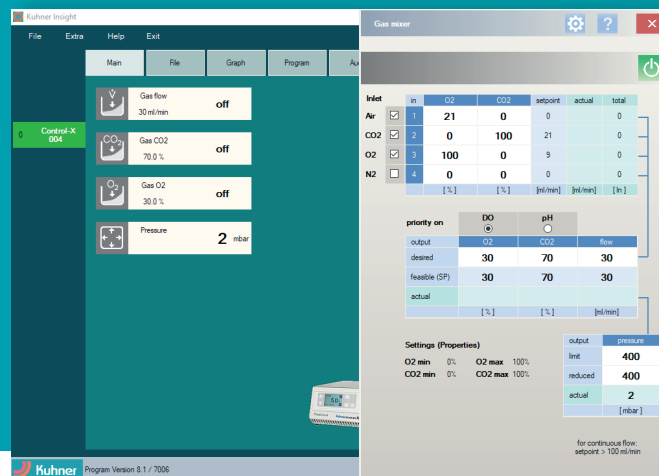
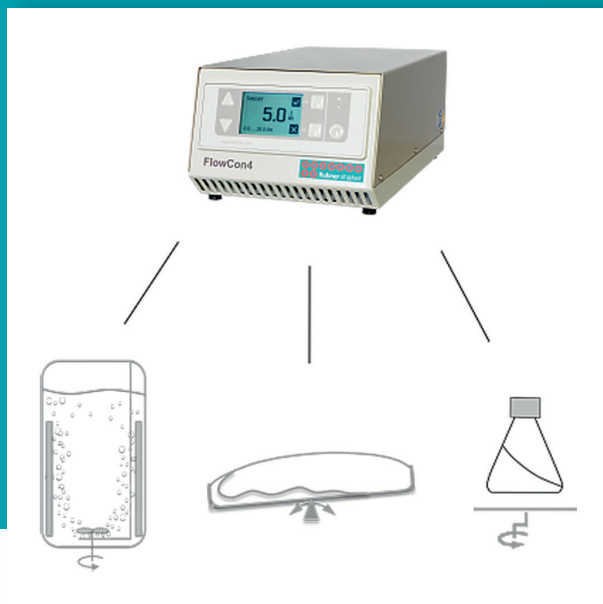
- + Mixing up to four gases (gas mixtures can also be connected)
- + Flow rates:
0 - 1 [sL/min]
0 - 20 [sL/min]
- + Integration in Kuhner shakers
- + Kuhner Insight Software control
- + Integrated pressure sensor

FlowCon 2/3/4

can be used for different types of bioreactors

Kuhner Insight Software

provides data logging, programming,
controlling & calibration



Technical data

- Number of mass flow controllers**

2, 3 or 4

- Dimensions**

430x225x158 (DxWxH) [mm]

- Ambient conditions**

5-40 [°C], max. 85 [% rH]

- Input**

up to 4 gases, push connector 6 [mm]
+ air
+ oxygen
+ nitrogen
+ carbon dioxide
(also gas mixtures can be connected)

- Input pressure**

1-2 bar

- Output**

1, (tube fitting for tube ID 13 [mm])

- Flow rates**

• 0-1 [sL/min]
• 0-20 [sL/min]

- Accuracy**

±1.5% from the end value

- Stand-alone operation**

yes

- Software**

Kuhner Insight (optional):
data logging, programming,
controlling, calibration

- Interface, standard**

CAN-Bus

- Interface, optional**

USB, Ethernet, digital, analogue

- Pressure sensor**

integrated,
0-400 [mbar],
programmable, prevents over pressure
in the connected vessel

- Air filter**

integrated, prevents blocking
of the mass flow controllers

- Back pressure valve**

integrated,
prevents reflux into the mass flow controllers

Technical data subject to change



Mixing up to 4 gases

www.kuhner.com

Kuhner

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