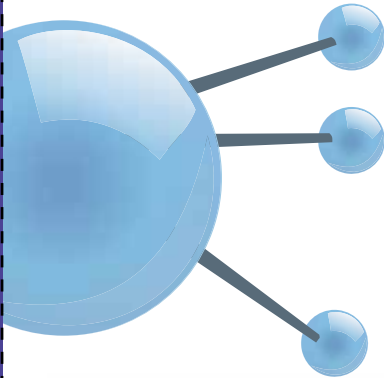


# FabStream™ Gas Mixer



Dynamic Gas Mixer is a full automatic system generating high accuracy gas mixtures.

Best in class integrated analyzer for real time gas monitoring.



## → Applications

Cylinder replacement for gas mixture supply by onsite mixture generation.

## → Operation

Filling of an integrated gas buffer with a precise gas mixture generated by MFC and ready to be supplied at the POU. The generated mixture concentration is continuously monitored by gas analyzer. MFC are driven by advanced algorithm chosen for dedicated flow ranges.



• Better RSD and process stability compared to cylinder supply.

- Increased safety by eliminating manual handling of cylinder
- Increased user tool availability by eliminating re-calibration
- Cost saving allowing ROC lower than 6 months

## Product description

### Features

- Fully automatic equipment with PLC 10" color touch screen and user friendly HMI with dynamic real-time information: schematic, pressure and alarms
- Real time analyzers and automatic analyzers re-calibration
- Automatic control of MFC drift
- Automatic MFC and analyzers purge for maintenance
- TCP/IP Ethernet communication for SCADA monitoring
- Buffer

### Options

- MFC redundancy
- Back-up connection
- Analyzer redundancy
- Mass flow meter on outlet
- Quality Check Valve
- Dual AC source
- Venturi for efficient purge when component changeout
- Buffer size

### Safety features

- Operator's intervention reduced to a minimum
- (Optional) fire and gas detection
- Standard exhaust flow alarm
- Easy and permanent survey of the alarm status
- Multi-level password protection to restrict access to critical functions
- Individual relief valve on buffer vessel
- Inboard-helium-leak tested

### Reliability

- MTBF\*: 2 years
  - MTTR\*\*: <2 hours
  - Uptime: 99.999%
- \*Mean Time Between Failure \*\* Mean Time To Repair

## Technical specifications

### Utilities requirements

|                              |  |
|------------------------------|--|
| Inlet gases                  | Doping gases, Forming gases, Air gases |
| Gas to Mix inlet             | Min pressure outlet pressure +1.5 bar  |
| Gas to Mix flow rate         | On request                             |
| Venturi Service Nitrogen     | 6 bar, 50 slpm                         |
| Clean Dry Air                | 6 bar, 10 slpm                         |
| Vent / Exhaust               | Connected to scrubber                  |
| Electricity (power & ground) | 110-240 VAC, 50/60 Hz                  |

### Dimensions

|                | Height | Width | Depth |
|----------------|--------|-------|-------|
| Mixer Cabinet* |        |       |       |

\*Following configuration

### Certifications

CE Mark [Including PED 97/23 for pressure vessels]  
Other on request

## Contacts

### Air Liquide

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The world leader in gases, technologies and services for Industry and Health, Air Liquide is present in 80 countries with approximately 68,000 employees and serves more than 3 million customers and patients\*. Oxygen, nitrogen and hydrogen are essential small molecules for life, matter and energy. They embody Air Liquide's scientific territory and have been at the core of the company's activities since its creation in 1902.

\* Following the acquisition of Airgas on 23 May 2016