# **AtmoMix**<sup>®</sup>

Innovative gas mixers for almost any application





www.atmocheck.com www.atmomix.com

AtmoMix<sup>®</sup> is a Registered Trade Mark of HiTec Systems Ltd.

Product Overview\_AtmoMix\_R2\_en



With the AtmoMix<sup>®</sup> series, we offer you an innovative product range of gas mixers for up to 3 different gases. The range is designed for different pressure and flow rates, with either fixed or variable gas mixture ratios that are precisely controlled for high process reliability, tailored to meet the exact requirements of your particular processes.

- Cost savings through the use of individual gases
- Safe and easy application due to preset gas mixtures
- Purely pneumatic operating principle, no power supply necessary
- Safety interlock for gas mixing ratios in case of supply failure of a gas

#### **Application areas**

- Metalworking
- Welding and cutting
- Food industry
- Biotechnology



Welding & cutting

Food technology

y Beveraç

Beverage technology

Laser technology

Glass processing

#### Key facts

#### Gas types

- Argon
- Nitrogen
- Carbon dioxide
- Oxygen
- Helium
- Flammable gases

#### Flow ranges

- SF Series up to 50 l/min.
- ❑ LF Series up to 200 ltr/min
- ➡ HF Series up to 100 m<sup>3</sup>/hr
- ⇒ XF Series up to 200 m<sup>3</sup>/hr

Mixing precision

- Standard +/- 1%
- ⇒ High Performance +/- 0.5%

Safe for use in virtually all application areas

Numerous options available

Robust, compact design

- Glass industry
- Medical technology
- Laser technology



#### All highlights at a glance

- Excellent mixing accuracy and consistency
- High process reliability
- High dynamic range, buffer tank no longer necessary
- Independent of pressure fluctuations at the gas inlet
- No electrical power supply required
- Very robust and compact design
- Table-top and wall-mounted panel units available
- Low maintenance

#### Options

- Inlet pressure monitoring
- Outlet pressure control
- Buffer tank
- Integrated analysis unit
- Stainless steel housing
- Touch display for operation and gas mixture switching

All gas mixers in the AtmoMix<sup>®</sup> series can be combined with inlet pressure and outlet pressure control in conjunction with a buffer tank, in-line analysis and flow control. Proven sensor technology, simple operation and an integrated data logger ensures the quality of your production and helps you to avoid costly malfunctions and production downtime.

Suitable for use with virtually all technical and flammable gases and different flow rates, plus optional state-of-the-art pressure and analysis monitoring. Depending on your particular requirements and application, we offer you either an individual or central gas supply solution for the consistent production of high-precision gas mixtures.

Gas mixers in our AtmoMix<sup>®</sup> series are based on decades of experience. Our in-house development and production of gas mixing valves guarantees you optimum performance modern compact gas mixing systems for 2 or more gases.

Consistent gas mixture quality is therefore assured; whether for very low and for high consumption, for continuous and highly fluctuating withdrawal quantities, without the use of buffer tanks.

Whilst fixed gas mixtures prevent quality problems due to incorrect operation and thus ensures a consistent quality in your production, your AtmoMix<sup>®</sup> gas mixer can alternatively be supplied with an adjustable mixing valve should you prefer.





# **AtmoMix**<sup>®</sup> SF Series

Our compact AtmoMix<sup>®</sup> SF series is optimally suited for use in the production of up to 3 component gas mixtures for the relatively small flow ranges used in welding gas applications, beverage industry, life science, Biotechnology etc..

A special feature is the availability of up to 3 fixed gas mixture outlets in one compact gas mixer unit, giving maximum flexibility. Once set, no more adjustment of the gas mixture is necessary, giving you consistent quality and high accuracy. Optionally, the AtmoMix<sup>®</sup> SF gas mixer can optionally be equipped with an adjustable gas mixture valve.

The AtmoMix<sup>®</sup> SF gas mixer is available for all common industrial gases: CO2, N2, Ar, He, O2, H2, and special gases can be accommodated on request. Depending on the inlet and outlet pressures, the AtmoMix<sup>®</sup> range is available for different flow rates.

All gas mixers in the AtmoMix<sup>®</sup> Series operate as purely pneumatic gas mixers and therefore do not require any additional power supply. When using the optionally available inlet and outlet pressure monitoring and integrated analysis technology, an external voltage supply is required for this addition.

Due to a new type of valve technology, the use of a buffer tank can be dispensed with in most instances. In the case of highly fluctuating withdrawal quantities, e.g. when supplying several withdrawal points, the AtmoMix<sup>®</sup> gas mixers can be equipped with a buffer tank and a pressure control.

#### All highlights at a glance

- Standard and High Performance mixing accuracy available
- Cost savings through the use of individual gases
- Integrated gas inlet filters protect against contamination
- Purely pneumatic operating principle, no electrical power supply required
- Robust, compact design
- Table-top and wall-mounted panel units available
- Wall-mounted panel unit available
- Low maintenance
- Easy operation due to preset gas mixtures

- Suitable for fluctuating withdrawal quantities
- Safety interlock in case of omission of an input gas

#### Options

- Inlet pressure monitoring
- Outlet pressure control
- ⇒ Flow regulator
- In-line analysis
- Stainless steel housing

# Application areas

- Welding shield gases according to DIN EN ISO 14175
- Biotechnology

Beverage dispensing systems

Technical data		
Туре	AtmoMix® SF	
Gases	Ar, CO2, N2, O2, He, H2, other gases on request	
Gas mixing range	Preset, depending on customer requirement	
Gas mixture outlet	1-3 possible	
Flow range	See table	
Inlet pressure	min. 3 bar, max. 10 bar gauge	
Outlet pressure	1.5 8 bar (depending on inlet pressure)	
Flow range	0.5- 50 l/min. (depending on the inlet pressure)	
Temperature	-10°C +50°C	
Gas inlet	Push-in connection or compression fitting	
Gas outlet	Push-in connection or compression fitting	
Housing	Anodised aluminium or brass	





# AtmoMix<sup>®</sup> LF Series

The AtmoMix<sup>®</sup> LF is a powerful and versatile unit that is optimally suited for the production of 2-component mixed gas where the mix ratio is set in advance. It is alternatively available with a freely adjustable variant. with operator adjustable gas mixture valves.

Decades of experience and modern production techniques, together with safe handling and highly precise mixing results make our AtmoMix<sup>®</sup> LF a powerful system in your processes, e.g. in the food industry, welding gas applications, beverage industry, life science and biotechnology.

Our AtmoMix<sup>®</sup> LF gas mixer is available for all common industrial gases: CO2, N2, Ar, He, O2, H2, special gases can be

accommodated on request. Depending upon the inlet and outlet pressures, the AtmoMix<sup>®</sup> LF gas mixer is available for small to medium flow ranges.

All gas mixers of the AtmoMix<sup>®</sup> LF series operate as purely pneumatic gas mixers, and therefore do not require any additional electrical supply. When using the optionally available inlet and outlet pressure monitoring and integrated analysis technology, an external voltage supply is required for this addition.

Due to a new type of valve technology, the use of a buffer tank can be dispensed with in most instances. In the case of highly fluctuating withdrawal quantities, e.g. when supplying several withdrawal points, our AtmoMix<sup>®</sup> gas mixers can be equipped with a buffer tank and a pressure control.

In the event of a gas failure at the gas inlet, an integrated safety interlock ensures that no gas mixture is released. This increases the quality and safety of your production process. For superior control of the inlet and outlet pressures, pressure gauges are integrated in the gas mixer housing as standard. The gas mixer can be supplied as a wall-mounted panel.

#### All highlights at a glance

- Standard and High Performance mixing accuracy available
- Cost savings through the use of individual gases
- Integrated gas inlet filters protect against contamination
- Purely pneumatic operating principle, electrical power supply is required
- Robust, compact design
- Wall-mounted panel unit available
- Low maintenance
- Easy operation due to preset gas mixtures

- Suitable for fluctuating withdrawal quantities
- Safety interlock in case of omission of an input gas

Options

- Inlet pressure monitoring
- Outlet pressure control
- ⇒ Flow regulator
- In-line analysis
- Additional input filters
- Pressure regulator

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### Application areas

- ⇒ Welding shield gases according to DIN EN ISO 14175
- Coating and surface treatment
- Heat treatment
- Controlled and modified atmospheres
- Food packaging (MAP)

- ➡ Inerting, process chemistry
- Water treatment
- Hydrogen technology
- Siotechnology, Oxygenation & Fermentation

Technical data		
Туре	AtmoMix <sup>®</sup> LF	
Gases	Ar, CO2, N2, O2, He, H2, other gases on request	
Gas mixing range	Preset, flexible, depending on customer requirement	
Flow range	see table	
Inlet pressure	min. 3 bar, max. 16 bar gauge	
Outlet pressure	1.5 13 bar (depending on inlet pressure)	
Flow range	See table	
Temperature	-10°C +50°C	
Gas inlet	Selectable according to customer requirements	
Gas outlet	Selectable according to customer requirements	
Housing	Stainless steel	





tmoMix®



The AtmoMix<sup>®</sup> HF / XF is a powerful and versatile gas mixer that is optimally suited as a central gas mixing unit for the supply of production lines with several extraction points and with fluctuating extraction requirements.

It is available for producing mixtures from up to 3 component gasses, either as a fixed gas ratio preset, or alternatively with adjustable gas mixing valves to produce any desired variant. Safe handling plus highly precise and consistent mixing, together with modern manufacturing methods and decades of experience, makes our AtmoMix<sup>®</sup> HF / XF a truly powerful system in your process. E.g. in the food industry, welding gas applications, laser applications, burner control, life science and biotechnology.

The AtmoMix<sup>®</sup> HF / XF gas mixer is available for all common industrial gases: CO2, N2, Ar, He, O2, H2, and other special gases can be accommodated on request. Depending on the inlet and outlet pressures, the gas mixer AtmoMix<sup>®</sup> HF / XF is available for medium to high flow ranges.

All gas mixers in the AtmoMix<sup>®</sup> series operate as purely pneumatic gas mixers, and therefore do not require any additional electrical power supply. When using the optionally available inlet and outlet pressure monitoring and integrated analysis technology, an external voltage supply is required for this addition.

Due to a new type of valve technology, the use of a buffer tank can be dispensed with in most instances. In the case of highly fluctuating withdrawal quantities, e.g. when supplying several withdrawal points, the AtmoMix<sup>®</sup> gas mixers can be equipped with a buffer tank and a pressure control.

An integrated safety interlock ensures that, in the event of a gas failure at the gas inlet, gas mixing stops immediately. This increases both the quality and safety of your production process.

Pressure gauges are integrated into the gas mixer housing as standard, to give better control of the inlet and outlet pressures. The gas mixer can optionally be supplied as a wall-mounted panel.

# All highlights at a glance

- Standard and High Performance mixing accuracy available
- Cost savings through the use of individual gases
- Integrated gas inlet filters protect against contamination
- Purely pneumatic operating principle, no electrical power supply required
- Robust, compact design
- Wall-mounted panel unit available
- Low maintenance
- Easy operation due to preset gas mixtures
- Suitable for fluctuating withdrawal quantities
- Safety interlock in case of omission of an input gas

#### Options

- Inlet pressure monitoring
- Outlet pressure control
- Flow regulator
- In-line analysis
- Additional input filters
- Pressure regulator

#### **Application areas**

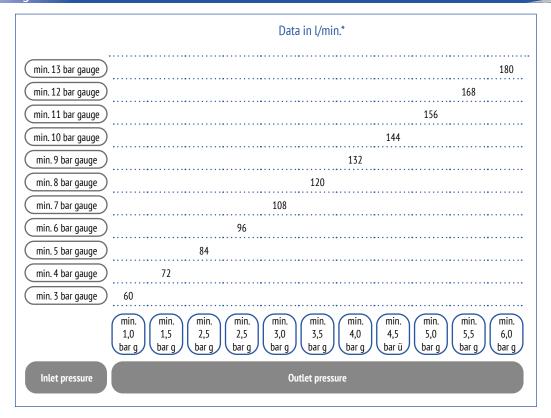
- Welding shield gases according to DIN EN ISO 14175
- Coating and surface treatment
- Heat treatment
- Controlled and modified atmospheres
- Food packaging (MAP)

- Inerting, process chemistry
- Water treatment
- Hydrogen technology
- Diotechnology, Oxygenation & Fermentation

Technical data		
Туре	AtmoMix® HF / XF	
Gases	Ar, CO2, N2, O2, He, H2, other gases on request	
Gas mixing range	preset, flexible, depending on customer requirement	
Flow range	see table	
Inlet pressure	min. 3 bar, max. 16 bar gauge	
Outlet pressure	1.5 13 bar (depending on inlet pressure)	
Flow range	see table	
Temperature	-10°C +50°C	
Gas inlet	Selectable according to customer requirements	
Gas Outlet	Selectable according to customer requirements	
Housing	Stainless steel	



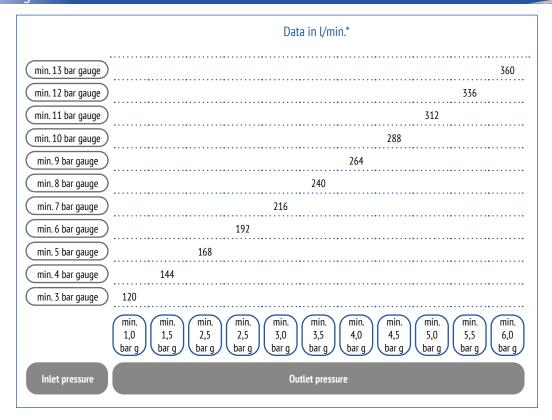
# Flow ranges AtmoMix<sup>®</sup> SF Series



# Flow ranges AtmoMix<sup>®</sup> LF Series - 1

	Data in l/min.*
min. 13 bar gauge	180
min. 12 bar gauge	168
(min. 11 bar gauge)	156
(min. 10 bar gauge)	144
min. 9 bar gauge	132
min. 8 bar gauge	120
min. 7 bar gauge	108
min. 6 bar gauge	96
min. 5 bar gauge	84
min. 4 bar gauge	72
min. 3 bar gauge	60
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Inlet pressure	Outlet pressure

Flow ranges AtmoMix<sup>®</sup> LF Series - 2

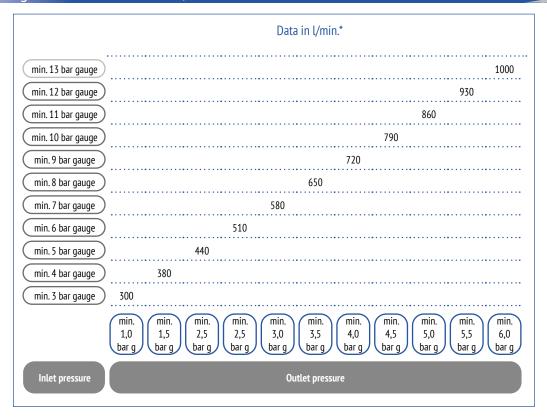


# Flow ranges AtmoMix<sup>®</sup> HF Series / AtmoMix<sup>®</sup> HF Series - 1

	Data in l/min.*
min. 13 bar ü	500
min. 12 bar gauge	465
(min. 11 bar gauge)	430
min. 10 bar gauge	395
(min. 9 bar gauge).	360
min. 8 bar gauge	325
min. 7 bar gauge	290
min. 6 bar gauge	255
(min. 5 bar gauge)	220
min. 4 bar gauge	185
(min. 3 bar gauge)	150
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Inlet pressure	Outlet pressure



# Flow ranges AtmoMix<sup>®</sup> HF Series / AtmoMix<sup>®</sup> HF Series - 2



# Flow ranges AtmoMix<sup>®</sup> HF Series / AtmoMix<sup>®</sup> HF Series - 3

	Data in l/mi	in.*
(min. 13 bar gauge)		2000
min. 12 bar gauge		1860
min. 11 bar gauge		1720
min. 10 bar gauge		1580
min. 9 bar gauge	1440	
min. 8 bar gauge	1300	
min. 7 bar gauge	1160	
min. 6 bar gauge	1020	
min. 5 bar gauge	880	
min. 4 bar gauge	760	
min. 3 bar gauge 6	00	
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Inlet pressure	Outlet press	sure

Flow ranges AtmoMix<sup>®</sup> HF Series / AtmoMix<sup>®</sup> HF Series - 4

	Data in l/min.*
min. 13 bar gauge	4000
min. 12 bar gauge	3720
min. 11 bar gauge	3440
min. 10 bar gauge	3160
min. 9 bar gauge	2880
min. 8 bar gauge	2600
min. 7 bar gauge	1320
min. 6 bar gauge	2040
min. 5 bar gauge	1760
min. 4 bar gauge	1520
min. 3 bar gauge	1200
	$ \begin{array}{c} {{\rm min.}}\\ {1,0}\\ {{\rm bar}g} \end{array} \begin{pmatrix} {{\rm min.}}\\ {1,5}\\ {{\rm bar}g} \end{array} \begin{pmatrix} {{\rm min.}}\\ {2,5}\\ {{\rm bar}g} \end{array} \begin{pmatrix} {{\rm min.}}\\ {3,0}\\ {{\rm bar}g} \end{array} \begin{pmatrix} {{\rm min.}}\\ {3,0}\\ {{\rm bar}g} \end{array} \begin{pmatrix} {{\rm min.}}\\ {3,0}\\ {{\rm bar}g} \end{array} \begin{pmatrix} {{\rm min.}}\\ {4,0}\\ {{\rm bar}g} \end{array} \begin{pmatrix} {{\rm min.}}\\ {5,0}\\ {{\rm bar}g} \end{array} \end{pmatrix} \begin{pmatrix} {{\rm min.}}\\ {5,0}\\ {{\rm bar}g} \end{array} \begin{pmatrix} {{\rm min.}}\\ {5,0}\\ {{\rm bar}g} \end{pmatrix} \begin{pmatrix} {{\rm min.}}\\ {5,0}\\ {{\rm bar}g} \end{array} \begin{pmatrix} {{\rm min.}}\\ {5,0}\\ {{\rm bar}g} \end{array} \end{pmatrix} \begin{pmatrix} {{\rm min.}}\\ {5,0}\\ {{\rm bar}g} \end{array} \begin{pmatrix} {{\rm min.}}\\ {5,0}\\ {{\rm bar}g} \end{array} \begin{pmatrix} {{\rm min.}\\ {5,0}\\ {{\rm bar}g} \end{array} \end{pmatrix} \begin{pmatrix} {{\rm min.}}\\ {5,0}\\ {{\rm bar}g} \end{array} \begin{pmatrix} {{\rm min.}\\ {5,0}\\ {{\rm bar}g} \end{array} \end{pmatrix} \begin{pmatrix} {{\rm min.}\\ {5,0}\\ {{\rm bar}g} \end{array} \begin{pmatrix} {{\rm min.}\\ {5,0}\\ {{\rm bar}g} \end{array} \end{pmatrix} \begin{pmatrix} {{\rm min.}\\ {5,0}\\ {{\rm bar}g} \end{array} \begin{pmatrix} {{\rm min.}\\ {5,0}\\ {{\rm bar}g} \end{array} \end{pmatrix}$
Inlet pressure	Outlet pressure

\*All flow rates are based on air/nitrogen and may vary depending on the gas mixture setting.