Quality&**Precise**

MAXWELLON MX-WVG

0 ~ 1g/min; 1 ~ 10g/min; ≥10g/min

High Precision Water Vapor Generator

2024

Maxwellon Water Vapor Generator is customizable according to user experimental conditions. This model features stable and adjustable steam flow rates, controllable temperatures, heated control of the outlet steam pipeline to prevent condensation during steam transport.

Key Feature

- Customized to meet customer requirements
- 100% vaporization
- Allows adjustable temperature and controllable flow rate
- Ensures smooth, simple, and safe operation with reliability
- Provides rapid response, automatic liquid feeding, and easy installation

Specifications

Model	MX-WVG Series
Feedstock	Deionized Water/Distilled Water
Vaporization Temperature	100-180 (°C)
Steam Temperature	100-600 (°C)
Control Method	PID Temperature Controller/Touch Screen Control
Flow Rate	0-1 g/min; 1-10 g/min; ≥10 g/min

Water Vapor Generator

Auto Water Vapor Generator

High-Temperature Superheated Water Vapor Generator

Application

- Scientific Research Experiments
- Environmental Protection
- Chemical Industry
- Petroleum
- New Energy
- Coal Combustion And Other Industries

Quality&**Precise**

MAXWELLON MX-HG

0 ~ 99%RH

High Precision Humidity Generator

2024

Maxwellon

Maxwellon Humidity Generator is adjustable according to experimental requirements, such as relative humidity (absolute water content), with controllable gas flow rate and humidity range. It ensures stable humidity control and adjustable temperature, with temperature control of the outlet pipeline.

The Maxwellon Humidity Generator can be customized to meet experimental requirements, providing either a proportion of water vapor content in gas under high temperature or a dew point temperature with low water vapor content in the generator.

Key Feature

- Customization for specific experimental needs
- Real-time humidity data monitoring
- Precise humidity control within the adjustment range
- Touchscreen control for convenient operation
- Outlet trace heating temperature control to prevent steam condensation

Specifications

Model	MX-HG Series
Humidity Range	0-99%
Vaporizer Material	Aluminum Alloy / SUS316L
Vaporization Temperature	120°C
Outlet Humidity Fluctuation Range	±1%

Dew Point Generator

Auto Humidity Generator

Precision Humidity Generator

Application

- Fine Chemicals
- Catalytic Materials
- Pharmaceuticals
- Steel Coal
- Instrument Calibration

Quality&**Precise**

MAXWELLON MX-VG

1ppm ~ 20000ppm

VOC Generator

2024

Maxwellon

Maxwellon VOC Generator is a gas generation device that precisely controls the emission of volatile organic compounds such as formaldehyde, toluene, ethyl acetate, acetone, and more. The outlet gas VOC concentration is stable and adjustable, and the vaporization temperature can be adjusted according to the boiling point of different media.

Key Feature

- Adjustable temperature control
- Stable and adjustable outlet gas concentration
- Adjustment based on different media boiling points
- Utilization of Maxwellon-developed vaporizer for uniform vaporization
- Customization for specific experimental needs

Specifications

Model	MX-VG Series
Flow Rate Range	0.1-200 μl/min; 1-1000 μl/min; ≥1 ml/min
Concentration Range	1 ppm-20000 ppm
Metering Method	Precision syringe pump
Carrier Gas	Air, Nitrogen
Carrier Gas Flow Rate	0-10 L/min; ≥10 L/min
Temperature	100-180°C

Concentration Stability VOC Generator

Multi-Channel VOC Generator

PPM-Level Multi-Channel VOC Generator

Application

- Air Purifier Testing
- VOCs Material Performance Testing
- Duct Testing
- Filter Purification Ability Testing
- VOC Gas Sampling

Quality&**Precise**

MAXWELLON MX-CES

Honeycomb/ Particles/ Powder

Catalyst Evaluation System

2024

MAXWELLON

Maxwellon Catalyst Evaluation System is designed to meet various needs in catalyst material screening and performance assessment. It offers integrated designs tailored to different experimental requirements. The system can simulate the mixing of multiple gases as well as liquids (steam and VOC organic solvents), allowing for thorough analysis and evaluation of material performance when introduced into the reaction chamber.

Key Feature

- Customizable gas flow rate (0-100L range).
- Flexible media channels (1-20 routes).
- Compatible with various catalyst styles: honeycomb, particles, powder.
- Wide pressure range (atmospheric to 3 MPa).
- Programmable temperature control with adjustable ramp rates.
- Comprehensive control over flow rate, temperature, and pressure.
- User-friendly design for easy operation.
- Multiple control options: digital display, touchscreen, computer software.

Specifications

Model	MX-CES Series
Gas Flow Rate	Customizable within the range of 0-100L
Number of Media Channels	Customizable from 1 to 20 routes (various media can be accommodated)
Catalyst Type	Honeycomb; Particles; Powder
Pressure	Atmospheric pressure to 3 MPa
Programmable temperature ramp-up with adjustable ramp rate	
Control over flow rate, temperature, and pressure for ease of operation	
Digital display meters, touchscreen interface, computer software	

Hydrothermal Aging Evaluation System

Fixed-Bed Catalyst Performance Evaluation System

High-Temperature Aqueous Oxygen Corrosion Evaluation System

Application

- Fixed-Bed Catalyst Experimentation
- Hydrothermal Aging Device
- VOCs Catalyst Materials
- Automotive Exhaust Catalyst Evaluation
- Small-Scale Material Evaluation
- Catalyst Material Testing and Evaluation for Desulfurization and Denitrification

Quality&**Precise**

MAXWELLON MX-GDS

0 ~ 800l/min

Gas Distribution System

2024

Maxwellon

Maxwellon's gas distribution system provides multi-component gas delivery solutions for areas such as material performance evaluation, gas analysis, instrument calibration, and concentration detection. The dynamic gas distribution system from Maxwellon allows for the mixing of different gases according to customer requirements, with tailored solutions designed to adjust gas concentrations at various stages of experimentation. This system offers adjustable and stable gas concentrations along with controlled flow rates, ensuring reliable gas supply for experiments.

Key Feature

- **Gas Dilution and Mixing**: Accommodates standard gas dilution ratios and multi-component gas mixing.
- **Customizable Medium:** Allows customization with liquid mediums, like volatile organic compounds (VOCs), for blending.
- **Intelligent Operation:** Operates intelligently for user-friendly functionality.
- **High Precision:** Provides precise blending of gases or liquids.
- **Stable Output:** Ensures stable output of the blended substances.

Specifications

Model	MX-GDS Series
Gas Types	Multi-component mixing with ≥2 components
Concentration Adjustment Range	0-100%
Mixing Accuracy	±1%
Flow Rate	Customizable from 0 to 800 L/MIN based on client requirements
Power Supply	AC220V, 50Hz
Control Mode	Manual/Automatic

Automatic Gas Dilution System

Dynamic Gas Distribution System

Multi-Component VOC Gas Distribution System

Application

- Instrument Calibration
- Electronics Industry Gas Mixing
- Suitable for University Laboratories, Research Institutes, Gas Analysis Instrument Development, and Gas Detection Fields

Quality&**Precise**

MAXWELLON MX-VTF

1200℃

Vacuum Atmosphere Tube Furnace

2024

MAXWELLON

Find the right tube furnace for your application at Maxwellon! Our tube furnaces are available in multiple configurations with operating temperatures ranging up to 1200°C. Every model provides precise temperature control, uniform heat distribution, and enhanced performance quality. If you require a specialized heating solution, our team of engineers can design a custom tube furnace to your exact specifications to help reduce costs in laboratory and production environments.

Key Feature

- Integrated Design for Easy Operation
- Furnace Chamber Constructed with High-Purity Alumina Fiber Material, Minimizing Heat Loss
- High Temperature Control Precision, Display Accuracy of 1°C
- Fully Automatic Programmable Controller with 30 Segment Program Temperature Control
- Optional 485 Communication/PC Software, Enabling Data Storage
- Equipped with Portable and Detachable Quartz Tube Adapter
- Supported by a Professional Technical Team, Capable of Designing Various Gas Atmosphere Ratios

Specifications

Model	MX-VTF Series
Furnace Chamber Material	Alumina
Reaction Tube Diameter	20mm/ 40mm/ 60mm/ 80mm/ 100mm/ 120mm/ 140mm
Temperature Uniformity Zone	100mm/ 200mm
Maximum Temperature	1200℃
Interface	Customizable specifications such as flanges, KF flanges, and other forms of interfaces are available.
Note	Customization available according to customer's experimental requirements

Expansion Options

- Supports 485 communication, providing PC software for operation, real-time data display, and tracking, as well as storage of historical records.
- Capable of various gas atmosphere ratios, including nitrogen, argon, and mixed gases.
- Specialized design for gas atmosphere simulation, such as water vapor, humidity, and organic VOC gas, with effective prevention of steam condensation through professionally designed gas piping interfaces.
- Ability to create a vacuum environment for tube furnace reactors.

Application

- Chemical Engineering
- Bio-ceramics
- Specialty Alloys
- Atmosphere Reduction
- CVD Experiments
- High-Temperature Atmosphere Sintering