

ACCUMIXOR™

Quick Facts

The AccuMixer™ precisely controls and monitors the flows of nitrogen and methanol for the generation of synthetic endothermic gas. The system features FLO-TRONIC Plus™ and VALVE-TRONIC Plus™ flow control valves.

- Automatic flow set-point calculation
- Automatically corrects for process disturbances
- Paperless chart recording
- Easy integration with existing furnace controls
- Capable of interfacing with additive gas control systems, auxiliary alarms and data loggers or computer systems
- Ethernet communications with Modbus TCP

Specification Compliance

The Waukee AccuMixer™ provides critical process data for use with data loggers, PLC's and computer systems. Ideal for customers who need to control and data log flow rates for compliance with industry standards.

Safety

The system provides mechanical visual indication of flows as well as both manual and automatic purge for compliance with NFPA safety standards.



Comprehensive Diagnostic System

- Assists troubleshooting by providing detailed information on process deviations and alarms.
- Flows, diagnostic messages and alarms are recorded on a local USB flash drive or remotely to a SCADA system or data logger

ACCUMIXOR™

Diagnostics

The comprehensive diagnostics package alerts the operator of potential alarm conditions and can help reduce downtime when troubleshooting.

Recommended Options

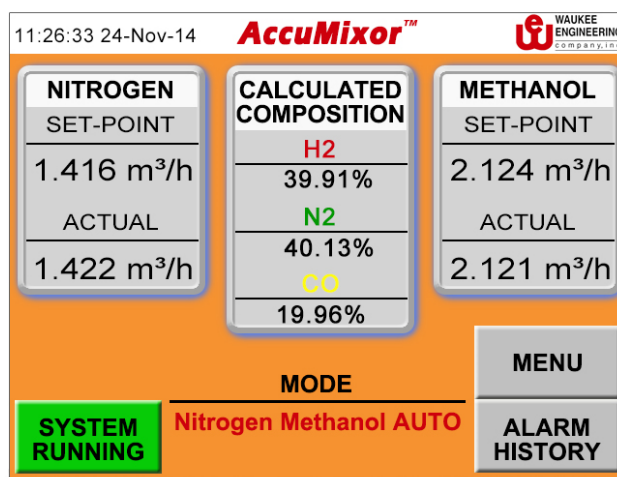
- Debubbler unit - removes nitrogen bubbles in liquid methanol. For use with nitrogen pressurized methanol supplies.
- Methanol Sparger - atomizes the methanol at the point of entry into the furnace.

Operation

The *AccuMixer™* is easy to operate and provides automatic adjustment of nitrogen and methanol flows. A dedicated nitrogen purge flow meter is automatically activated for “purge-in” of the furnace, and for safety reasons whenever process deviations occur such as power failure, methanol flow stoppage, furnace temperature drops below 427°C (800°F), etc.

The *Accumixer™* provides integration flexibility. Automatic adjustment of nitrogen/methanol may be based on a %CO set-point or flow set points, which may be set locally on the HMI, or sent from a remote device via analog or TCP connections.

The *Accumixer™* may be configured to automatically switch between “high flow” and “normal flow” of nitrogen/methanol in response to certain process events (e.g.. door opened), allowing the furnace atmosphere to be stabilized quickly.



Main Screen

Standard Specifications

Standard Flow Ranges

Process nitrogen: 1.13-42.48 m³/h
 Methanol: .95-37.85 L/h (1.7-63.7 m³/h)

System Inlet Pressure

The system is equipped with panel mounted pressure regulators for Nitrogen and Methanol

Dimensions

Panel Face - 889 mm x 1321mm (35" W x 52" H)
 Depth - 457 mm (18")
 Clearance - allow 762 mm (30") behind panel for servicing

Connections

- NPT process connections for Nitrogen and Methanol
- Modbus TCP interface for data collection via SCADA and optional CO% set-point and other control functions
- 4-20 mA inputs and outputs for optional CO% set-point and external chart recorder/data logger

Systems requiring specifications other than these are available. Please contact the factory for details.



USA	+1 414 462 8200	FRANCE	+33 03 8148 3737
Toll free N.A.	+1 800 547 1055	GERMANY	+49 7161 948880
CHINA	+86 21 3468 0719	POLAND	+48 32 296 6600

waukee.sales@group-upc.com
 www.group-upc.com