

# DATASHEET W-101A

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## CEM Evaporator W-101A

3-Way Mixing Valve and Evaporator



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### 3-way Mixing Valve and Evaporator

Bronkhorst® model W-101A CEM 3-way Mixing Valve and Evaporator is suited for precise vapor flow delivery, composed by mixing up to 2 g/h liquid with max. 4 l<sub>n</sub>/min of carrier gas at operating pressures between vacuum and 100 bar. The temperature controlled mixing device is used in combination with a μ-FLOW liquid flow meter and an MFC for carrier gas, together forming a Controlled Evaporation and Mixing (CEM) System.

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## Technical specifications

### Measurement / control system

Max. heating temperature	200 °C
Heater capacity	10 W
Max. Kv-value	$6,6 \times 10^{-2}$

### Mechanical parts

Material (wetted parts)	Stainless steel 316L or comparable
Pressure rating (PN)	100 bar a
Max. $\Delta P$	5 ... 40 bar (depends on Kv-value; contact your distributor for details)
Process connections	Gas and liquid inlet: compression type or face seal couplings; Vapour outlet: 1/8" tube (other options on request); Purge connection: 1/8" OD or 1/8" face seal
Seals	Metal-to-metal
Protection class	IP40
Plunger	Kalrez®; other on request
Connector	Amphenol 6-pin male

### Electrical properties

Power supply	Mixing valve: +15...24 Vdc +/-10%; Heater: 44 Vac
Max. power consumption	Mixing valve: 4 W (max.); Heater: 150 W (nominal)

### Electrical connection

### Control valve options

### External actuator options to be connected to the controller

### Ex-proof specifications

### Approvals / certificates

Technical specifications subject to change without notice.

For dimensional drawings and hook-up diagrams please visit the [product page](#) on our [website](#)

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## Recommended accessories



### E-8000 SERIES

#### Digital Readout / Control Systems

Bright, wide angle, 1.8" display (TFT technology)

User friendly operation, menu driven with 4 push buttons

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## Related products



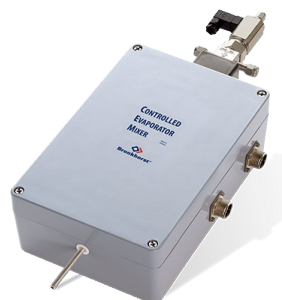
CEM EVAPORATOR W-102A

Max. 30 g/h liquid;  
Max. 4 l/min gas  
Pressure rating 100 bar  
Very stable vapor flow  
Flexible gas/liquid ratio



CEM EVAPORATOR W-202A

Max. 120 g/h liquid;  
Max. 10 l/min gas  
Pressure rating 100 bar  
Very stable vapor flow  
Flexible gas/liquid ratio



CEM EVAPORATOR W-303B

Max. 1200 g/h liquid;  
Max. 100 l/min gas  
Pressure rating 100 bar  
Very stable vapor flow  
Flexible gas/liquid ratio