

DATASHEET W-102A

CEM Evaporator W-102A

3-Way Mixing Valve and Evaporator



3-way Mixing Valve and Evaporator

Bronkhorst® model W-102A CEM 3-way Mixing Valve and Evaporator is suited for precise vapour flow delivery, composed by mixing up to 30 g/h H₂O (32 g/h IPA) with max. 4 l_n/min of carrier gas at operating pressures between vacuum and 100 bar. The temperature controlled mixing device is used in combination with a (thermal or Coriolis) liquid flow meter and an MFC for carrier gas, together forming a Controlled Evaporation and Mixing (CEM) System.

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. ΔP	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](#)

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

Related products



CEM EVAPORATOR W-101A

Max. 2 g/h liquid;
Max. 4 l/min gas
Pressure rating 100 bar
Very stable vapour 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 vapour 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 vapour flow
Flexible gas/liquid ratio