

# DATASHEET W-102A

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## CEM Evaporator W-102A

3-Way Mixing Valve and Evaporator



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### 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 H<sub>2</sub>O (32 g/h IPA) 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 (thermal or Coriolis) 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
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Heater capacity	10 W
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Max. Kv-value	$6,6 \times 10^{-2}$
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### Mechanical parts

Material (wetted parts)	Stainless steel 316L or comparable
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Pressure rating (PN)	100 bar a
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Max. $\Delta P$	5 ... 40 bar (depends on Kv-value; contact your distributor for details)
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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
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Seals	Metal-to-metal
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Protection class	IP40
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Plunger	Kalrez®; other on request
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Connector	Amphenol 6-pin male
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### Electrical properties

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

#### デジタル表示設定システム

明瞭、広角の1.8" TFTディスプレイ  
4つのボタンによるユーザーフレンドリーな操作

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## Related products



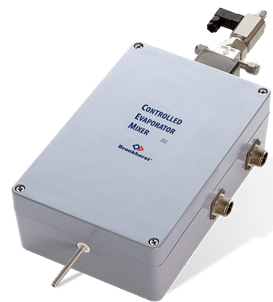
CEM EVAPORATOR W-101A

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