

# VAPOUR 2

## Electronic humidifier

Cod.: 03010

Rev.00 - 09/12/2022



### GENERAL DESCRIPTION

The Vapour 2 electronic humidifier for medical use is used to add water vapor content to therapeutic gases administered to patients. The gases available for medical use not containing enough moisture can damage or irritate the respiratory airways or dry the secretions of the patients. The Vapour 2 electronic humidifier for medical use has been expressly designed for use on breathing circuits for resuscitation equipment.

<b>Application</b>	Breathing circuits for anesthesia, resuscitation
<b>Patients</b>	Adult, paediatric and newborn

### STANDARDS

<b>Class and type according to EN 60601-1</b>	Class I Type B
<b>Electromagnetic Compatibility (EMC) Standards</b>	Complies with the requirements of the EN 60601-1-2 standard, latest revision and following updates. EN 60601-1:2006/A1:2011/A1:2013/A12:2014; UNI EN ISO 80601-2-74:2020; EN 60601-1-2:2015; IEC60601-1-2/A1:2020; IEC 60601-1-6:2010+AMD1:2013 + AMD2:2020; ISO 18562-2:2017; ISO 18562-3:2017; ISO 18562-4:2017; EN ISO 14971:2019; EN ISO 13485:2016/A11:2021; DIR. 2011/65/UE RoHS e ss.mm.ii; D.Lgs 49/2014 RAEE e ss.mm.ii., EN ISO 15223-1:2021 ISO 20417:2021

### ENVIRONMENTAL CONDITIONS

<b>Operations</b>	Relative humidity: 30 - 95% Temperature: from -10 to + 40 ° C Atmospheric pressure: from 600hPa to 1200hPa
<b>Storage</b>	Relative humidity: 0% to 95% Temperature: from -20 ° to + 60 ° C Atmospheric pressure: from 200hPa to 1200hPa

### TECHNICAL DATA

<b>Dimension (L x A x P)</b>	14 x 18 x 30 cm (included "MONOPAK" column)
<b>Weight</b>	2 Kg (circa)
<b>Control mode</b>	Electronic
<b>Measured parameters</b>	Patient circuit temperature
<b>Setting</b>	Heating power (included between 28-39 ° C - adjustable in 1 ° C steps)
<b>Checks</b>	Temperature of the heating element
<b>Heating element</b>	Tubular; internal diameter 50 mm
<b>Supply voltage</b>	200 - 240 Vac / 50 * 60 Hz 110 Vac optional
<b>Current consumption</b>	0.5 A
<b>Power</b>	100 W
<b>Safety</b>	Double limit of the temperature of the heating element
<b>User Interface</b>	LED signals Lever and button controls

**TABLE: HUMIDIFICATION OUTPUT**

Flow rate setting (l/min)	Set Temperature (°C)	Measured humidification power (mg/l)	Remarks
10	34	>35	Over the 12 mg / L limit for non-invasive ventilation
60	34	>35	

**TABLE: MONITORING OF THE MEASURED GAS TEMPERATURE**

Accuracy	< ± 3%
----------	--------

**ALARMS**

<b>Probe Failure</b>	Heating element temperature sensor alarm
<b>Low Temp</b>	Patient temperature alarm
<b>High Temp</b>	Patient temperature alarm

**ACCESSORIES**

<b>Accessories supplied</b>	<ul style="list-style-type: none"> <li>▪ Monopak – water column</li> <li>▪ Probe</li> </ul>
-----------------------------	---

SIARE applica il Sistema Qualità UNI EN ISO 13485:2016  
**SIARE ENGINEERING INTERNATIONAL GROUP s.r.l.**  
 Via Pastore, 18 - Località Crespellano, 40053 Valsamoggia (BO), ITALY  
 Tel.: +39 051 969802 - Fax: +39 051 969809  
 Email: mail@siare.it - Web: http://www.siare.it