

# CH580<sup>®</sup> RESPIRATORY HUMIDIFIER

... for Artificial Respiration 



- **Easy to Operate and Adaptable with any Respirator / Ventilator**  
Compact, Easy to operate, having all the functionality required for respiratory humidification. It can be attached with any respirator / ventilator requiring optimal humidification of gases for Adult, Pediatric and Neonate patients.
- **Servo Control**  
Fully Servo control provides the accurate feedback for proper monitoring and delivery of the correct temperature of the inspiratory gases.
- **Heater Wire Function**  
The unit supports single as well as dual heater wire patient circuits, thus reducing the circuit condensate.
- **Easy to read Airway & Chamber Temperature with Alarms**  
The temperature probe measures the airway temperature as well as chamber temperature and shows on the LED display, along with any alarm conditions.

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## SPECIFICATIONS

### Electrical Characteristics:

Power Supply	230 VAC $\pm$ 10%, 50/60 Hz, Sine Wave
Heater Plate Capacity	150W (at nominal mains voltage)
Heater-Wire Rating	22 $\pm$ 5 VAC; 2.75 Amp. (Max)
Fuse:	2 x 2 Amp, 250V, Fast blow – for Main Unit 1 x 4 Amp, 250V, Fast Blow – for heater Wires

### Physical Characteristics:

Dimensions (L x W x H)	165 x 135 x 155 mm <sup>3</sup>
Weight	3.0 kg (without Chamber)
Operating Temperature Range	18 ~ 26 °C
Over Temperature Thermal Cutout	120 $\pm$ 6 °C
Warm-up Period	< 30 minutes

### Temperature Measurements:

Temperature Display Type	Three Digit LED Display (7 Segment)
Temperature Display Range	10.0 ~ 70.0 °C
Temperature Accuracy	$\pm$ 0.5 °C (within the temperature range of 25 ~ 45 °C) Default display is the lower of the Airway OR Chamber Temperature

### Heater Wire Mode

Invasive Mode	Airway Set Point @ 40 °C; Chamber Set Point @ 37 °C
Non Invasive Mode	Airway Set Point @ 34 °C; Chamber Set Point @ 31 °C

### Non Heater Wire Mode

Invasive Mode	Airway Set Point @ 37 °C; Chamber temperature limited to 66°C
Non Invasive Mode	Airway Set Point @ 31°C; Chamber temperature limited to 66°C

### Alarms (Heater-Wire Mode):

High Temperature Alarm	if the displayed temperature > 42 °C OR if airway temperature exceeds > 43 °C
Low Temperature Alarm:	if the displayed temperature is < 34.5 °C (in Invasive Mode), OR if the displayed temperature < 29 °C (in Non-Invasive Mode)

### Alarms (Non Heater-Wire Mode):

High Temperature Alarm	if the displayed temperature OR airway temperature > 41 °C
Low Temperature Alarm:	if the displayed temperature is < 29.5 °C (in Invasive Mode), OR if the displayed temperature < 26 °C (in Non-Invasive Mode)

### Visual Indicators:

Airway Temperature Alarm	Indicates Airway Alarm condition OR Airway Temperature
Chamber Temperature Alarm	Indicates Chamber Alarm condition OR Chamber Temperature
Power ON	Indicates the unit is ON and connected to the power supply.
Invasive Mode	If the Invasive mode is selected
Non-Invasive Mode	If the Non-invasive mode is selected.
Heater-Wire	If Heater-wire is connected OR heater-wire alarm condition

### Manual Buttons / Switches:

Mute Switch	For silencing the alarm for 3 minutes
Mode Switch	For making selection between Invasive & Non-Invasive mode.

### Compliance & Certifications:

CE, IEC 60601-1, IEC 60601-1-2

**NOTE:** Product specifications, part / model numbers, accessories are subject to change without prior notice.

An ISO 13485 Certified Company

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