

# F&P 850

## MR850 – RESPIRATORY HUMIDIFIER

Model: MR850GJU



### Specifications

|                            |   |
|----------------------------|---|
| <b>Intended Use</b>        | The MR850 Respiratory Humidifier is used to warm and humidify gases delivered to patients requiring mechanical ventilation, positive-pressure breathing assistance, or other medical gases. |
| <b>Clinical Procedures</b> | Invasive ventilation<br>Noninvasive ventilation<br>Nasal high flow<br>Low flow oxygen therapy   |
| <b>Use</b>                 | Multi-use   |
| <b>Service Life</b>        | 7 years (if used in accordance with the User Instructions)  |
| <b>Dimensions</b>          | 140 x 173 x 135 mm (5.5 x 6.8 x 1.4 inches) with no chamber fitted  |
| <b>Weight</b>              | 2.8 kg (6.17 lbs) with no chamber fitted<br>3.1 kg (6.83 lbs) with chamber fitted and filled with water   |
| <b>Mounting Fixture</b>    | 30 x 5 mm mounting tongue   |
| <b>Materials</b>           | Aluminum, Steel, Copper, Tin, Silver, PEEK, Silicon, PVC, Teflon, Fiberglass, Ceramic   |
| <b>Mercury Content</b>     | Not made with materials containing mercury or mercury compounds   |
| <b>Manufacturing Mode</b>  | Produced in a Controlled Working Environment  |
| <b>Disposal</b>            | At the end of service life, discard according to standard hospital procedure for electrical and electronic equipment  |

### Electrical | Specifications

|                            |                       |
|----------------------------|-----------------------|
| <b>Supply Voltage</b>      | 100 V-                |
| <b>Supply Current</b>      | 2.4 A Max             |
| <b>Rated Power</b>         | 220 VA                |
| <b>Supply Frequency</b>    | 50 / 60 Hz, Sine Wave |
| <b>Heater-wire Output</b>  | 22 V-, 2.73 A, 60 W   |
| <b>Heater-plate Output</b> | 150 W                 |

### Performance | Specifications

|  | <b>Invasive Mode</b>   | <b>Noninvasive Mode</b> |
|--|--|-------------------------|
| <b>Humidity Performance</b>  | ≥ 33 mg/L  | ≥ 10 mg/L               |
| <b>Flow Range</b><br>(refer to Breathing Circuit User Instructions for specific range) | ≤ 60 L/min   | ≤ 120 L/min             |
| <b>Chamber Outlet Control Temperature Range</b>  | 35.5 – 42 °C   | 31 – 36 °C              |
| <b>Airway Control Temperature Range</b>  | 35 – 40 °C   | 28 – 34 °C              |
| <b>Warm-up Time</b>  | < 30 mins  |                         |
| <b>Temperature Display Range</b>   | 10 – 70 °C   |                         |
| <b>Gas Temperature Measurement Accuracy</b>  | ± 2 °C (Temperature Probe accuracy: ± 0.3 °C, in 25 - 45 °C range) |                         |
| <b>Maximum Operating Pressure</b>  | Refer to chamber and breathing circuit specifications              |                         |

## Recommended Environmental Conditions | Specifications

|                           |  |
|---------------------------|--|
| Ambient Temperature Range | 18 – 26 °C (Breathing circuit kits specify operating ranges within these limits) |
| Ambient Humidity          | 10 – 95% RH  |
| Ambient Pressure          | 700 – 1060 hPa   |

## Alarm Parameters | Specifications

|                            |   |
|----------------------------|---|
| Alarm Sound Pressure Level | > 50 dBA at 1 m   |
| Audio Information Signal   | Single beep or double beep  |
| Alarm Conditions           | High Humidity<br>Low Humidity<br>Water Out<br>Temperature Probe Disconnect<br>Heater Wire Disconnect<br>Chamber Probe Out<br>Airway Probe Out<br>See Manual |
| Auditory Alarm Pause       | 120 sec   |

## Classifications | Specifications

|   |                      |
|---|----------------------|
| Electrical Classification                   | Class I, continuous  |
| Humidifier Classification                   | Category 1           |
| Ingress Classification                      | IPx1                 |
| Degree of Protection against Electric Shock | Type BF applied part |
| Classification of Installation and Use      | Portable             |

## Packaging | Specifications

|                    |   |
|--------------------|---|
| Quantity/Package   | 1 ea  |
| Packaging Material | Cardboard box                               |
| Dimensions         | 214 x 212 x 196 mm (8.4 x 8.4 x 7.7 inches) |
| Typical Weight     | 3.12 kg (6.88 lbs)                          |

## Regulatory | Specifications

|                                     |  |
|-------------------------------------|--|
| Classification                      | Japan II                                 |
| Country of Origin                   | New Zealand                              |
| Notified Body Identification Number | TÜV SÜD Product Services GmbH<br>CE 0123 |
| GTIN Number                         | 9420012407290                            |

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