**PRODUCT SPECIFICATIONS**

**Size:** 5.4 cm high x 13.2 cm x 14.6 cm (2.1”x 5.2”x 5.7”)

**Weight:** 0.7 kg (1.5 lbs)

**Electrical Ratings:**
- **Electrical Supply Frequency:** 50 - 60 Hz
- **Power Consumption:** 92 W maximum
- **Voltage and Current:**
  - 230 V model: 230 V ± 20 V, 0.4 A maximum at 230 V
  - 115 V model: 115 V, 0.8 A maximum at 115 V
  - 100 V model: 100 V ± 10 V, 0.9 A maximum at 100 V

**Suitable for use with a DC to AC inverter:**
- 150W minimum

**Heaterplate Cutout:**
- 93°C (199°F) ± 5°C (9°F)

**Power/Temperature Control:**
- Settings of 1 (minimum) - 4 (maximum)
- Heater Plate Temperature from approx. 30°C to approx. 65°C (86°F to 149°F)
- Continuous Mode of operation.

**Heaterplate Temperature**

**Standards Compliance:**
- Designed to conform to requirements of:
  - IEC 60601.1
  - CAN/CSA-C22.2 No.68
  - EN 60601-1
  - UL 1431
  - AS/NZS 3200.1.0

**NOTE:** Models labeled as Class II (Double Insulated) are marked with the symbol and do not require grounding. The following applies to Class I (three wire) models only.

**GROUNDING INSTRUCTIONS**

**Grounding Pin**

**Grounded Outlet**

**Grounded Outlet Box**

**Temporary Adaptor**

**Metal Screw**

**Tab for grounding screw**

If repair or replacement of the cord or plug is necessary, do not connect the grounding wire to either flat blade terminal. The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire.

The HC150 respiratory humidifier is used to warm and humidify gases delivered to patients requiring continuous positive airway pressure (CPAP) therapy or mask ventilation.

**CAUTION:** FEDERAL LAW RESTRICTS THIS DEVICE TO SALE BY OR ON THE ORDER OF A PHYSICIAN.

Part number 185042258 Rev C

**Patents Pending in Principal Countries of the World**

International: PO Box 14-348, Panmure, Auckland 6, New Zealand  Email: info@fphcare.com  Web Site: www.fphcare.com

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*UK and Ireland: Unit 16, Cordwallis Park, Chiverton Road, Maidenhead, SL6 7BU, United Kingdom* Tel: +44-1628-626-136 Fax: +44-1628-626-146

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*European Authorised Representative*
When using electrical products, especially when children are present, basic safety precautions should always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USE

**DANGER - TO REDUCE THE RISK OF ELECTROCUTION:**
* Always unplug the HC150 immediately after use.
* Do not use the HC150 while bathing.
* Do not place or store the HC150 where it can fall, or be pulled into a tub or sink.
* Do not place or drop the HC150 into water or other liquid.
* If the HC150 does fall into water, do not attempt to retrieve it. Unplug the HC150 immediately.

**WARNING - TO REDUCE THE RISK OF BURNS, ELECTROCUTION, FIRE OR INJURY:**
* The HC150 should never be left unattended when plugged in.
* Close supervision is necessary when the HC150 is used by, on, or near children or invalids.
* Take care to avoid dropping any items on the HC150.
* If any damage occurs to the unit, immediately unplug the HC150 and call your Fisher & Paykel Healthcare dealer for assistance.
* Use the HC150 only for its intended use as described in this manual. Use only accessories recommended by Fisher & Paykel Healthcare.
* Never operate the HC150 if it has a damaged cord or plug, if it is not working properly, or if any part of either the HC150 or the humidification chamber is dropped or damaged, or dropped into water.
* Auto titrating devices may not operate correctly when used with a humidifier. Consult the Auto titrating clinical/operating manuals.
* Keep the cord away from heated surfaces.
* Never block the air openings of the HC150 or place it on a soft surface such as a bed or couch, where the air openings may be blocked. Keep the air openings free of lint, hair and the like.
* Never drop or insert any object into any opening or hose.
* Remove the humidification chamber from the HC150 before filling.
* The function of this humidifier may be adversely affected by operation of high frequency apparatus or shortwave or microwave equipment in the vicinity. This equipment may radiate radio frequency energy. If interference occurs, try the following:
  - Reorient or relocate the HC150 device.
  - Increase the separation between the equipment and HC150.
  - Connect the equipment into an outlet on a circuit different from that to which the other devices are connected.
* Do not use the HC150 in the presence of flammable or explosive materials.
* Equipment not suitable for use in the presence of flammable anaesthetic mixture with air or with oxygen or nitrous oxide.
* Be sure to comply with all the safety instructions contained in your CPAP or mask ventilator system operating manual.
* Disconnect supply before servicing.
* Not for use with patients whose upper airways are bypassed.

DO NOT DISCARD

The HC150 contains no user serviceable parts. If you believe your unit is not working properly, please take a few moments to check the following table. If the problem persists, please contact your local Fisher & Paykel office.

**SYMPTOMS**

**POSSIBLE CAUSES**

**REMEDIES**

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**Symptoms**

**Possible Causes**

**Remedies**

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**Unit does not switch on: Power-on indicator not lit.**

1. Unit not plugged into live power socket.
2. Unit not correctly plugged in, switched on at the socket and the ON/OFF switch set to ON.
3. Blown fuse or tripped thermal cutout.

1. Plug power cord into a live power socket.
2. Check that the unit is plugged firmly into the socket and that the switches are turned on.
3. Contact your Fisher & Paykel service centre or dealer.

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**Air not flowing through mask.**

1. CPAP or mask ventilator system not switched on or working correctly.
2. Tubes not connected properly to humidification chamber.
3. Tubes blocked.
4. Humidification chamber overfilled.

1. Consult CPAP or mask ventilator system operating manual.
2. Connect as described in section in Directions for Use.
3. Unblock tubes.
4. Empty excess water from chamber so the level is at the maximum level mark.

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**Excessive condensation in tube.**

1. Heater control setting too high.
2. Ambient sensor near heat source.

1. Reduce heater control setting.
2. Move HC150, or move the heat source away from the ambient sensor.

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**ACCESSORIES AVAILABLE**

900HC105: Starter Kit (recommended) 900HC007: Mounting Tray
900HC008: Tube (61cm/24")      HC325D: 2 x HC325 Chamber
900HC221: Tube (183cm/72")      HC300: 1 x HC300 Dishwashable Chamber

For more information, please consult the Fisher & Paykel Healthcare Product Catalog or go to our website: www.fphcare.com
The HC150 Heated Respiratory Humidifier is designed for home use with a CPAP or mask ventilator system prescribed by a physician. The HC150 features Ambient Tracking™, which automatically adjusts the heaterplate temperature as the room temperature changes, minimizing condensation.

When not in use, the HC150 should be stored in a cool dry place away from direct sunlight.

**DIRECTIONS FOR USE**

**CONTROLLING THE HUMIDITY**

1. If a Heater Control setting has been recommended by your physician, you should start with this. Under “normal” conditions, a setting of 3 is satisfactory.
2. When the HC150 has been in use for 20 minutes or more, check that there is fine misting in the last 15cm (6”) of the tube closest to the mask. If this is the case, the HC150 is set to the optimal humidity setting for that environment.
3. If there is more misting in the tube than necessary, reduce the setting on the Heater Control.
4. If there is not enough misting in the tube, increase the setting on the Heater Control.

**NOTE:** Ambient Tracking™ minimizes the need to re-adjust the heater control.

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**CLEANING & MAINTENANCE**

**NOTE:** The HC150 should be cleaned as needed.
1. Switch off the HC150 and unplug from the power socket.
2. Detach the HC150 from the ventilator system and allow to cool.
3. Wipe the exterior of the HC150 with a clean, damp (not wet) cloth and mild dishwashing detergent.
4. See Humidification Chamber operating instructions for information on cleaning and filling.

**WARNING**

* Refer Maintenance to qualified service personnel.
* Always switch off the HC150 and unplug the power cord from the power socket before cleaning.
* Never rinse or place the unit in water or allow water to get into the interior of the unit.
* Ensure that the unit is dry before plugging into the power socket.

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**SET UP**

1. It is recommended that the HC150 and the CPAP or mask ventilator system are mounted on a Fisher & Paykel Mounting Tray 900HC007 (also supplied with 900HC105 starter kit).
2. The CPAP or mask ventilator system and HC150 should be positioned on the floor beside the bed rather than on a table.

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**IMPORTANT PARTS OF YOUR HC150**

- Chamber Guard
- Heater Plate
- Ambient Sensor
- Power Cord
- Power-On Indicator
- Humidification Chamber (Supplied separately)
- ON/OFF Switch
- Delivery Tube
- Inlet Tube

**Typical HC150 Humidifier Setup.**
3. A clean **Humidification Chamber** should be filled with distilled water to the maximum water level mark. See Humidification Chamber operating instructions for information on cleaning and filling.

**CAUTION:** Use only Fisher & Paykel Humidification Chambers which are designed for use with the HC150 Humidifier.

4. Without touching the **Heater Plate** (which may be hot), hold the **Chamber Guard** down and slide the **Humidification Chamber** onto the top of the HC150.

5. Attach the inlet tube between the air outlet of the CPAP or mask ventilator system and the air inlet of the **Humidification Chamber**.

6. A long length of tube (delivery tube) is supplied with your CPAP or mask ventilator system. Attach one end to the mask and the other end to the air outlet of the **Humidification Chamber**.

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### CAUTION

- Switch the HC150 humidifier off when not in use.
- **Power Cord** into a power socket. The power supply must be the same voltage as that specified on the underside label.

**CAUTION:** Your HC150 is designed to work on one voltage power supply. If you are travelling to a different country you may need an appropriate power transformer or a different HC150.

2. Plug in and switch on the CPAP or mask ventilator system following the instructions in the operating manual.

3. Check that there is a flow of air through the tubing and out from the mask.

**NOTE:** If there is no airflow, either the tubing and humidifier are not connected correctly or the CPAP or mask ventilator unit is not functioning.

4. Switch on the HC150 using the **ON/OFF Switch**. The **Power-On Indicator** will be lit continuously while the unit is powered and switched on.

5. Turn the **Heater Control** to the setting required.

6. Allow at least 20 minutes for the HC150 to stabilise after adjustment of the **Heater Control**.

7. Apply mask and use as directed by your physician and according to the instructions in your CPAP or mask ventilator system operating manual.

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**WARNING**

* Should the airflow be stopped or interrupted, take off the mask and turn off the HC150. When the airflow is resumed, switch on the HC150 and allow 20 minutes for it to stabilise.
* Do not touch the **Heater Plate**. The **Heater Plate** temperature may exceed 65°C (149°F).
* Do not touch the base of the chamber when it is removed from the hot **Heater Plate**. The base will take some time to cool.
* Ensure the airflow does not splash water from the Humidification Chamber into the delivery tube.
* Ensure the tubes are not kinked or otherwise obstructed.