

PHILIPS

RESPIRONICS

E30

Ventilation solution



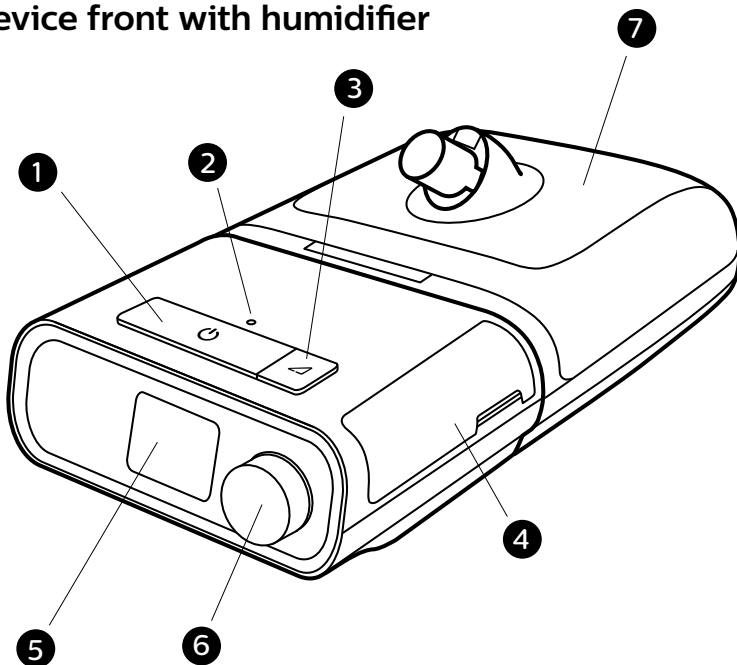
Clinician quick start guide

Emergency Use Authorization

The Philips Respironics E30 Ventilator is provided globally for use under local emergency use authorizations, such as the FDA Emergency Use Authorization for ventilators, Health Canada Interim Order for use in relation to COVID-19, and waiver of CE marking, which authorize its use for the duration of the COVID-19 public health emergency, unless terminated or revoked (after which the products may no longer be used). This device is not FDA cleared or approved.

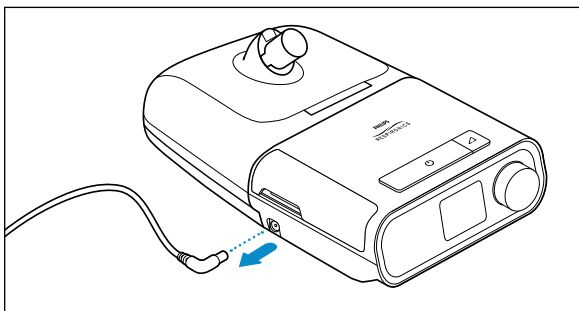
Device overview

Device front with humidifier

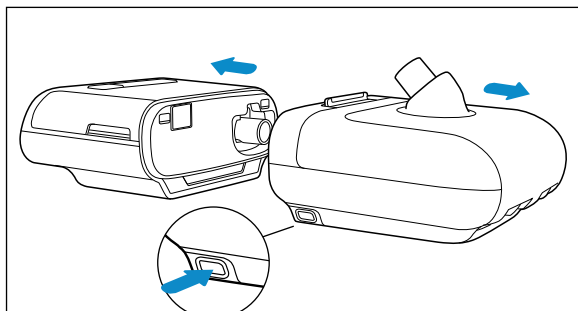


1. Therapy On/Off button
2. Ambient light sensor (not active)
3. Ramp button
4. Door, air entrainment port (filters and O₂ inlet)
5. Display screen
6. Control dial
7. Humidifier

Disconnecting the humidifier



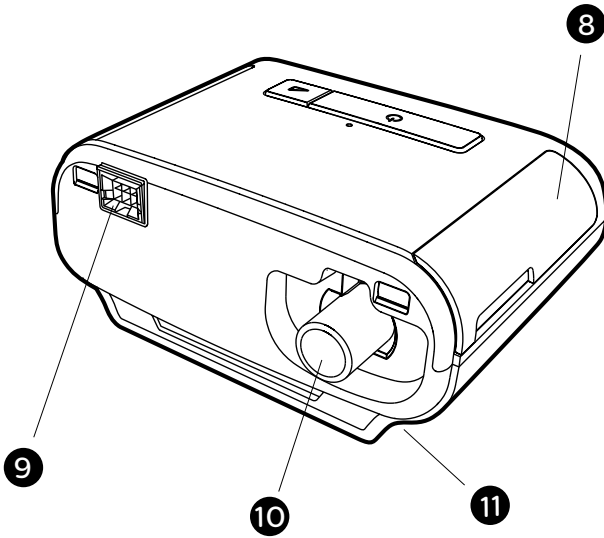
1. Ensure that the E30 is switched off before disconnecting the humidifier.



2. Pick up the system, placing one hand on the E30 and the other on the humidifier. Press the humidifier release button and gently pull each component apart.

Warning: The DreamStation Heated Humidifier is not for use with intubated patients. For intubated patients, please use an external humidifier.

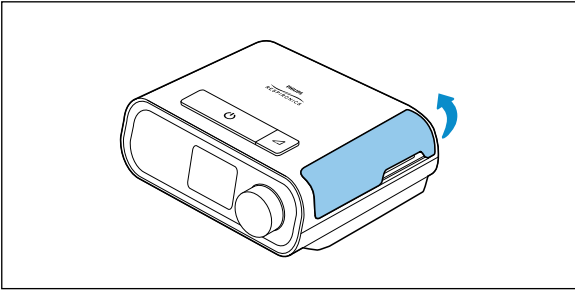
Device back



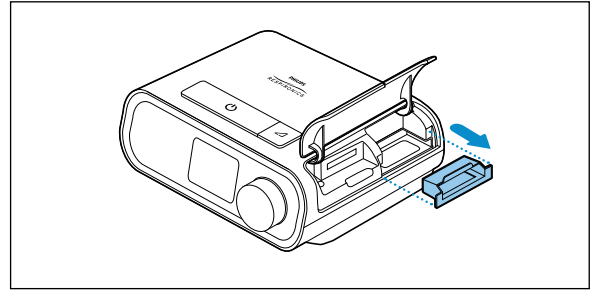
- 8. Door, accessory access (SpO₂)
- 9. Humidifier connector
- 10. Air outlet port
- 11. Power inlet

The device is shipped with a heated humidifier, power supply and cord, power monitoring solution, O₂ device inlet assembly, user manual, associated device instructions and optionally, a Quick Start Guide (QSG).

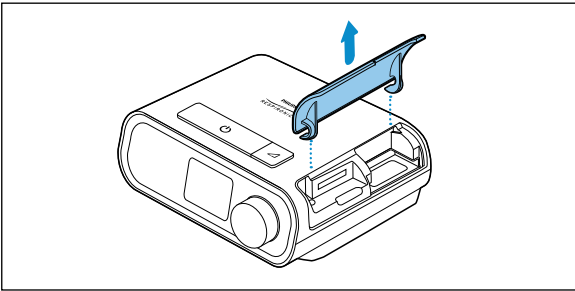
O₂ inlet port set-up



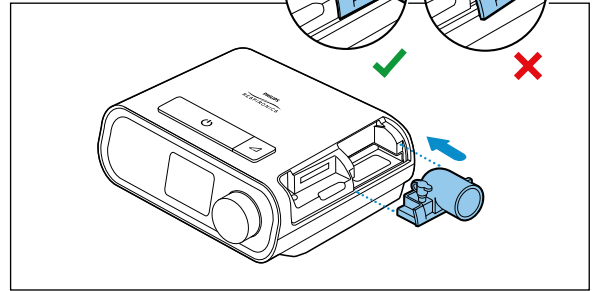
1. Set up E30 ventilator and confirm that it is powered OFF. Open the door on the right side of the unit



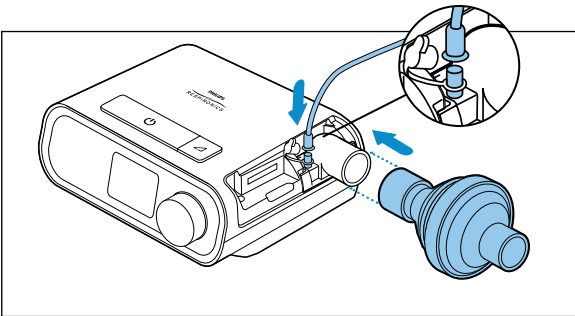
2. Remove the blue filter.



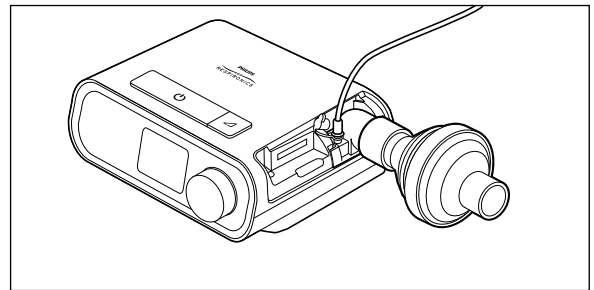
3. Removing the door is optional. If this is desired, pinch the hinges inward and lift the door up and off.



4. Install the O₂ assembly into the slot where the filter was. Push the assembly completely in to ensure a tight flush to the surface of the unit.



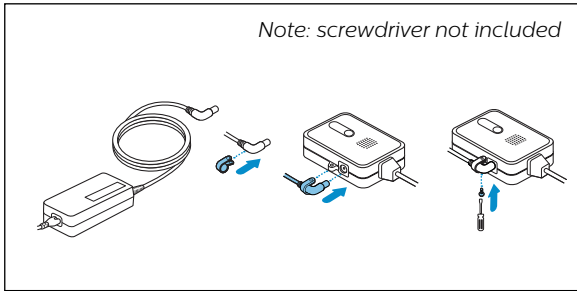
5. Attach the air filter to the O₂ assembly. Remove the cap of the O₂ inlet port and connect the tubing from your oxygen source.



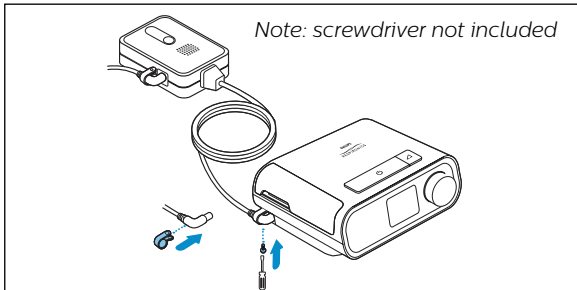
6. The unit is ready.

Setting up the device - power

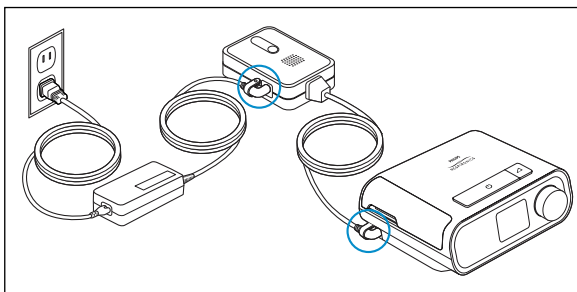
Setting up using an External Alarm Module (EAM)



1. Ensure the E30 ventilator is turned off. To prevent accidental disconnection, route the power supply cord through the cord clamp.

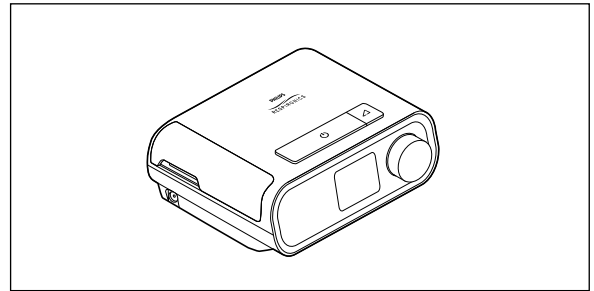


2. Plug the external alarm module connector into the power inlet on the E30 ventilator. Clamp the cord securely to the E30 ventilator enclosure.

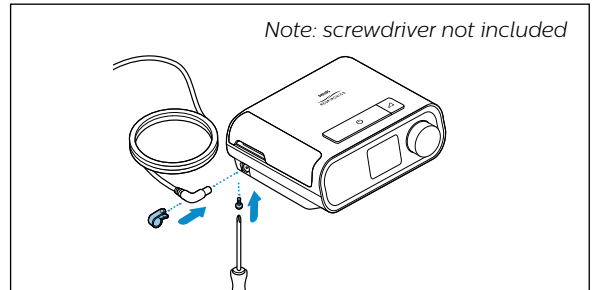


3. Plug in the power supply to supply power to the E30 ventilator. Ensure both cables are secured with cord clamps and verify that the E30 ventilator and External Alarm Module are operating properly.

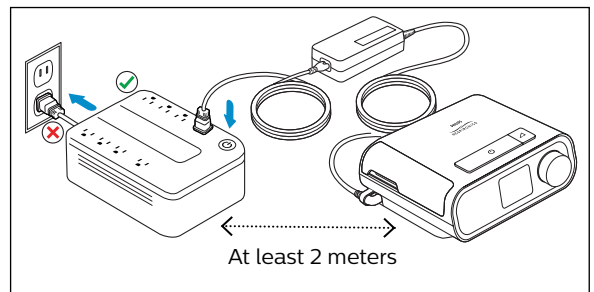
Setting up using an Uninterrupted Power Supply (UPS)



1. Ensure the therapy device is turned off.



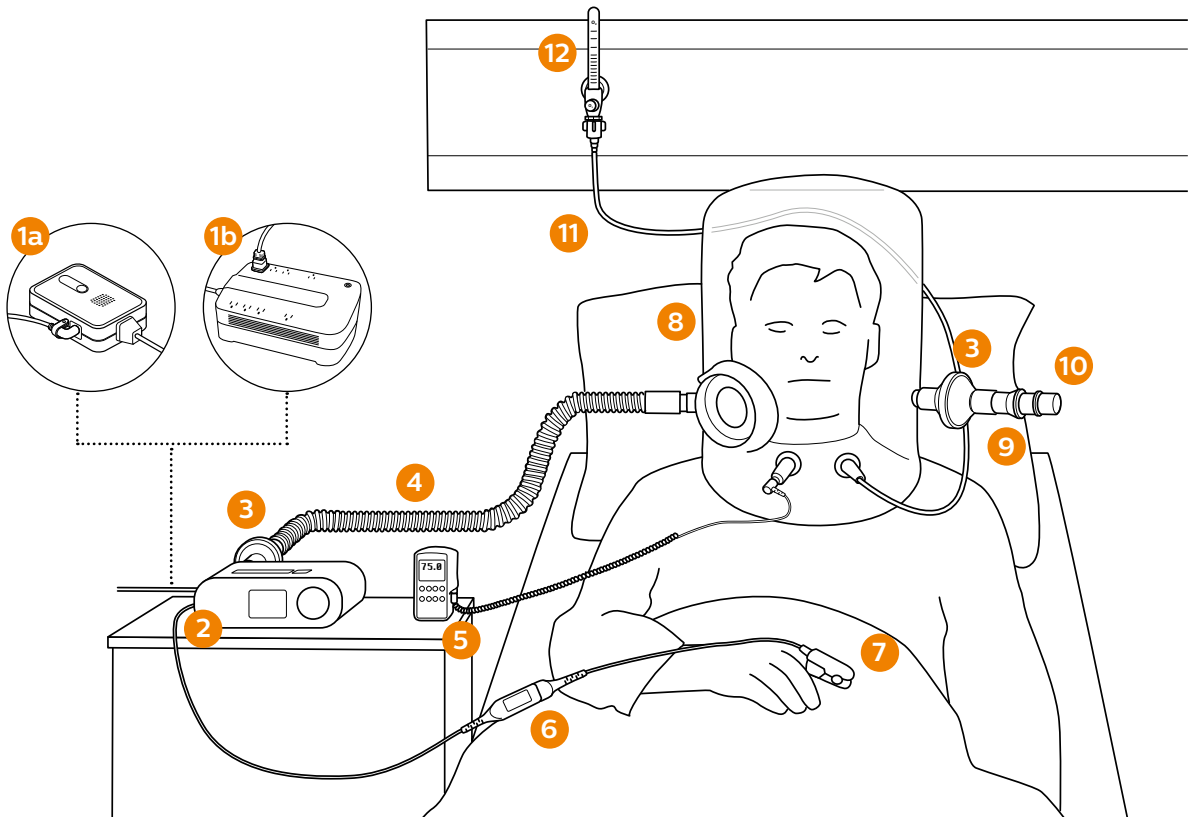
2. Plug in the AC-DC adaptor into the E30 ventilator. Clamp the cord securely to the E30 ventilator enclosure.



3. Plug the AC-DC adaptor into the UPS unit and then in the power supply. **Ensure that the Uninterruptible Power Supply remains a minimum of 2 meters from the E30 ventilator and patient.**

Circuit set-up example for helmet

These circuit set-ups and accessories are examples provided for information purposes only as not all have been validated for use with the Philips Respironics E30 ventilator. The use of oxygen entrainment in the patient circuit up to 30 lpm or through the dedicated device inlet up to 60 lpm has been verified through engineering testing.

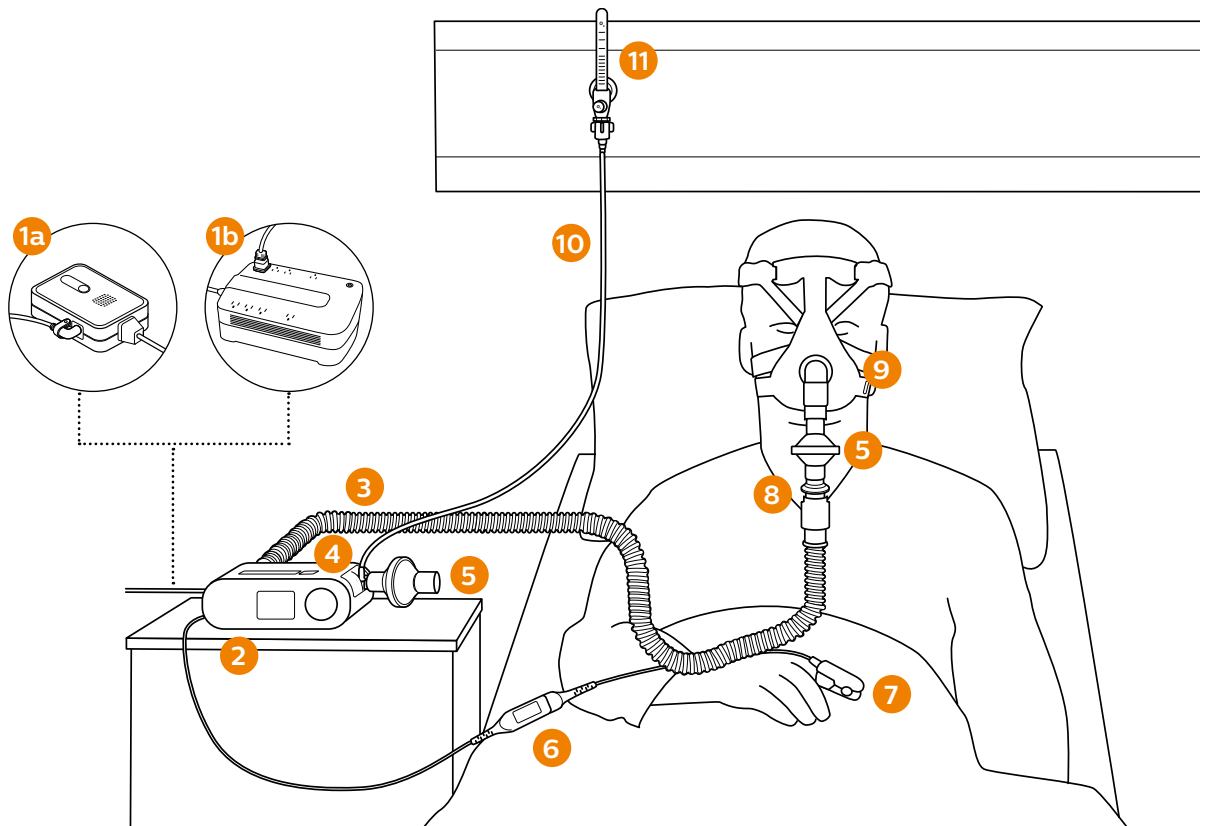


- 1a. External Alarm Module; or
- 1b. Uninterrupted Power Supply
(see page 5 for more details)
2. E30 ventilator
3. Bacteria/viral filter
4. Tubing
5. Oxygen analyzer (optional)

6. SpO₂ module
7. SpO₂ sensor
8. Helmet
9. Exhalation valve
10. Cap end
11. Oxygen tubing
12. Oxygen flow meter

Circuit set-up example for non-vented mask

These circuit set-ups and accessories are examples provided for information purposes only as not all have been validated for use with the Philips Respironics E30 ventilator. The use of oxygen entrainment in the patient circuit up to 30 lpm or through the dedicated device inlet up to 60 lpm has been verified through engineering testing.

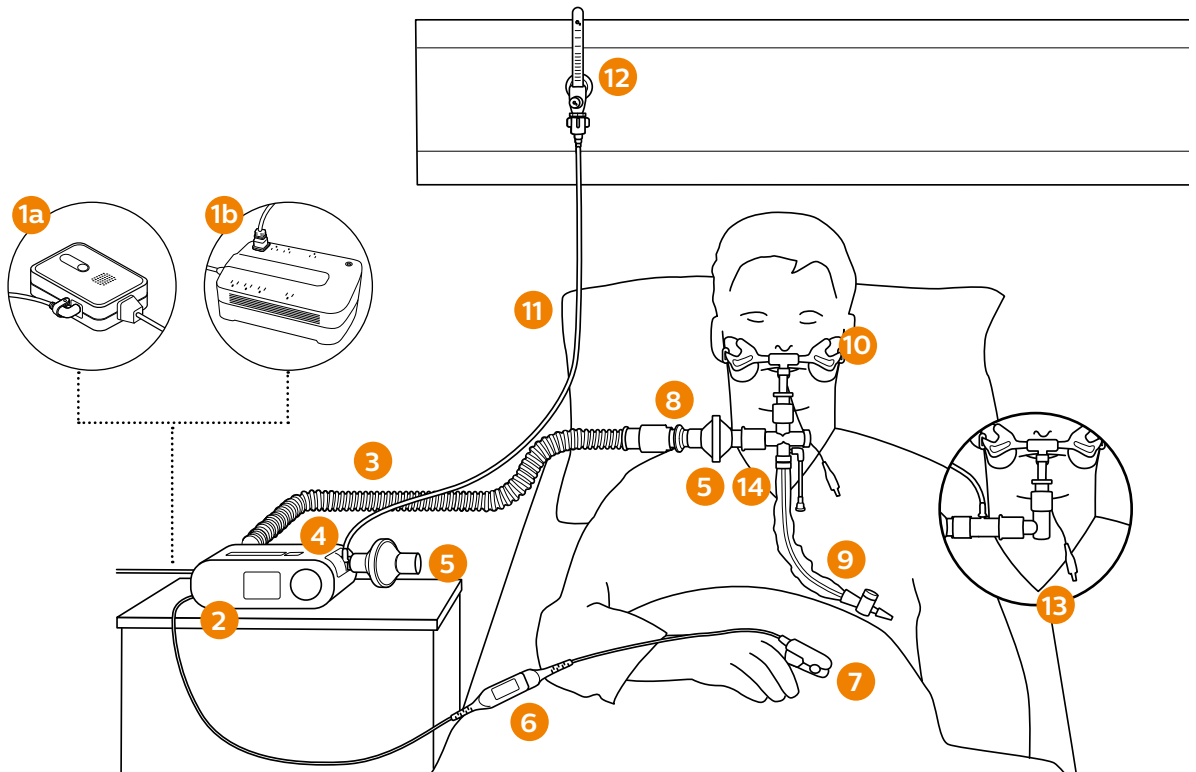


- 1a. External Alarm Module; or
- 1b. Uninterrupted Power Supply
(see page 5 for more details)
- 2. E30 ventilator
- 3. Tubing
- 4. O₂ inlet port
- 5. Bacteria/viral filter

- 6. SpO₂ module
- 7. SpO₂ sensor
- 8. Exhalation valve
- 9. Non-vented mask
- 10. Oxygen tubing
- 11. Oxygen flow meter

Circuit set-up example for invasive use

These circuit set-ups and accessories are examples provided for information purposes only as not all have been validated for use with the Philips Respiroics E30 ventilator. The use of oxygen entrainment in the patient circuit up to 30 lpm or through the dedicated device inlet up to 60 lpm has been verified through engineering testing.



- 1a. External Alarm Module; or
- 1b. Uninterrupted Power Supply
(see page 5 for more details)
2. E30 ventilator
3. Tubing
4. O₂ inlet port
5. Bacteria/viral filter
6. SpO₂ module
7. SpO₂ sensor
8. Exhalation valve
9. Closed suction catheter
10. ETT holder
11. Oxygen tubing
12. Oxygen flow meter
13. Trach adaptor without closed suction catheter
14. Optional HME (not shown)

Navigating the menu

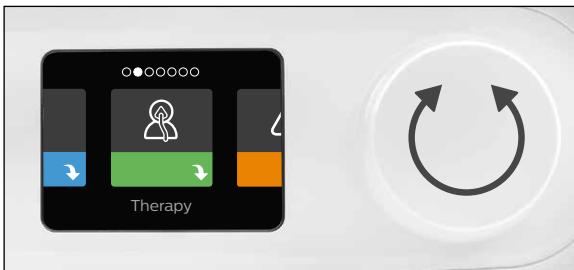


1. Therapy On/Off button

During therapy, holding this button for 2 seconds will stop therapy but leave the device in standby mode. To turn the E30 off, unplug the power adaptor.

2. Display screen

3. Control dial



1. When powering up the device, the menu screen will be shown. Turn the dial clockwise to navigate to the 'Therapy' tile. Press the control dial to begin editing the settings.

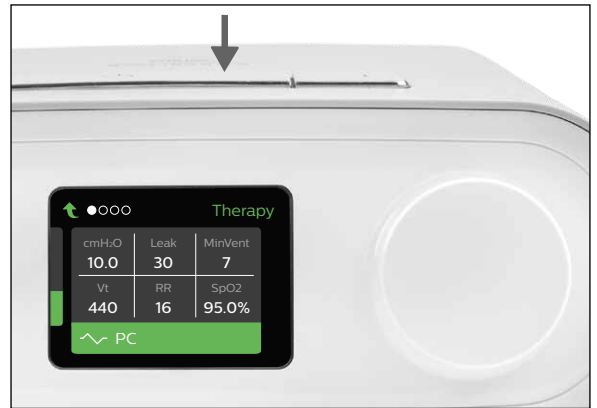
2. Before editing the settings you must chose a therapy mode. Ensure that the mode tile is highlighted green and then press the dial.

Navigating the menu (cont.)



3. Rotate the control dial to select the mode you intend to use for therapy. Press the dial to make the selection.

4. Once you've selected the therapy mode, rotate the control dial to navigate to the therapy setting you wish to adjust. Press the dial to make a selection and then rotate the dial to adjust the selected setting.



5. Once you've finished adjusting the therapy settings, press the 'Therapy on/off button' to start therapy.

6. Press the 'Therapy on/off button' again to review the ventilation data for this therapy session.

Monitoring visual indicators



Leak is less than MinVent

Situation

When leak is less than minute ventilation the two cells on the data screen will be highlighted yellow. The leak in the circuit should be equal to or greater than the volume of air exhaled by the patient (MinVent) to adequately remove CO₂ enriched air.

Action and resolution

Verify that the exhalation port isn't blocked. If the indicator still remains and oxygen is entrained through the patient circuit you can reduce the O₂ flow or increase the leak in the circuit. Once the balance is adequately restored the yellow highlights will disappear.



Leak is less than 0

Situation (only applicable when oxygen is entrained directly into the patient circuit)

When leak is less than 0 the cell will be highlighted orange. As per the indication above, MinVent will be highlighted yellow because the minute ventilation is greater than the leak. Tidal volume will also be highlighted yellow because the negative leak reduces tidal volume accuracy. A negative leak indicates extra oxygen in the circuit that is being wasted and not utilized by the patient.

Action and resolution

Reduce the O₂ flow or if unable to reduce the O₂ flow then increase the leak. Once the balance is adequately restored the color highlights will disappear.



Excessive leak

Situation

When leak is excessive the leak and tidal volume cells will be highlighted yellow. The patient's mask may be too loose or disconnected possibly leading to unfiltered exhaled gases. Tidal volume is highlighted yellow because the excessive leak reduces tidal volume accuracy.

Action and resolution

Take appropriate steps to ensure the patient's mask is connected and there is an appropriate seal. Once leak returns to a stable value the yellow highlights will disappear.



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