

RESMED

VPAP™ ST
NONINVASIVE VENTILATOR

User Guide

English



Respiratory Care Solutions
Making quality of care easy

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Making quality of care easy

Indications for use

The VPAP ST is indicated to provide noninvasive ventilation for patients weighing more than 13 kg or more than 30 kg in iVAPS mode with respiratory insufficiency or obstructive sleep apnoea (OSA). The VPAP ST is intended for home and hospital use.

Contraindications

Positive airway pressure therapy may be contraindicated in some patients with the following pre-existing conditions:

- severe bullous lung disease
- pneumothorax or pneumomediastinum
- pathologically low blood pressure, particularly if associated with intravascular volume depletion
- dehydration
- cerebrospinal fluid leak, recent cranial surgery, or trauma.

Adverse effects

Patients should report unusual chest pain, severe headache, or increased breathlessness to their prescribing physician. An acute upper respiratory tract infection may require temporary discontinuation of treatment.

The following side effects may arise during the course of therapy with the device:

- drying of the nose, mouth, or throat
- nosebleed
- bloating
- ear or sinus discomfort
- eye irritation
- skin rashes.

Masks and humidifiers

Recommended masks and humidifiers are available on www.resmed.com on the **Products** page under **Service & Support**. For more information on using your mask or humidifier, refer to the manual supplied with your mask or humidifier.

Setup

Refer to illustration A.

1. Connect the DC plug of the power supply unit to the rear of the device.
2. Connect the power cord to the power supply unit.
3. Plug the other end of the power cord into the power outlet.
4. Connect one end of the air tubing firmly onto the air outlet.
5. Connect the assembled mask system to the free end of the air tubing.

Control panel

Refer to illustration B.

The control panel of your device includes the following items:

1. Start/Stop button: Starts or stops treatment
2. LCD screen: Displays the menu, treatment and reminder screens
3. Info menu button*: Allows you to view your sleep statistics
4. Setup menu button*: Allows you to make changes to settings
5. Push dial: Turning the dial allows you to scroll through the menu and change settings. Pushing the dial allows you to enter into a menu and confirm your choice.

*The Info and Setup menus are disabled if S9 Essentials has been enabled by your clinician.

Navigating the menus

Refer to illustration C.

In general, to navigate the menus:

1. Turn  until the parameter you require is displayed in blue.
2. Press . The selection is highlighted in orange.
3. Turn  until you see the setting that you require.
4. Press  to confirm your choice. The screen returns to blue.

Getting started

1. Make sure the power is connected.
2. Adjust the ramp time if required.
3. Fit your mask as described in your mask user guide.
4. To start therapy, simply breathe into the mask and/or press .
5. Lie down and arrange the air tubing so that it is free to move if you turn in your sleep.
6. To stop treatment at any time, remove your mask and/or press .

Notes:

- *If your clinician has enabled SmartStart your device will start automatically when you breathe into the mask and stop automatically when you remove the mask.*
- *If power is interrupted during treatment, the device automatically restarts therapy when power is restored.*

Cleaning and maintenance

You should regularly carry out cleaning and maintenance as described in this section. Refer to your mask and humidifier user guides for detailed instructions regarding the care of your device.

Daily:

Remove the air tubing by pulling on the finger grips on the cuff. Hang it in a clean, dry place until next use.

Notes:

- *Do not hang the air tubing in direct sunlight as it may harden over time and eventually crack.*
- *Do not wash the air tubing in a washing machine or dishwasher.*

Weekly:

1. Remove the air tubing from the device and the mask.
2. Wash the air tubing in warm water using mild detergent.
3. Rinse thoroughly, hang, and allow to dry.
4. Before next use, reconnect the air tubing to the air outlet and mask.

Monthly:

1. Wipe the exterior of the device with a damp cloth and mild detergent.
2. Check the air filter for holes and blockage by dirt or dust. Replace the air filter if necessary.

Replacing the air filter:

Replace the air filter every six months (or more often if necessary).

1. Remove the air filter cover from the back of the device.
2. Remove and discard the old air filter.
3. Insert a new ResMed air filter ensuring that it is sitting flat in the air filter cover.
4. Replace the air filter cover.

Notes:

- *Ensure the air filter and air filter cover are fitted at all times.*
- *Do not wash the air filter. The air filter is not washable or reusable.*

SD card

An SD card has been supplied to gather therapy data from your device and provide settings updates from your clinician. When instructed to do so, disconnect the device from the power outlet, remove your SD card, insert it in the protective folder and send it to your clinician. For more information on removing and inserting your card refer to the S9 SD Card Protective Folder provided with your device. Please retain the S9 SD Card Protective Folder for future use.

Troubleshooting

If there is a problem, try the following suggestions. If the problem cannot be solved, contact your equipment supplier or ResMed. Do not attempt to open the device enclosure.

Problem/Possible cause

Solution

No display

Power is not connected.

Ensure the power cord is connected and the power outlet (if available) is on.

The DC plug is partially inserted into the back of the device or inserted too slowly.

Fully insert the DC plug.

Insufficient air delivered from the device

Ramp time is in use.

Wait for air pressure to build up or change ramp time.

Air filter is dirty.

Replace air filter.

Air tubing is not connected properly.

Check air tubing.

Air tubing is blocked, pinched or punctured.

Unblock or free the air tubing. Check the air tubing for punctures.

Mask and headgear are not positioned correctly.

Adjust position of mask and headgear.

Incorrect air tubing selected.

If you are using the SlimLine, Standard or 3 m air tubing ensure that you have the correct air tubing selected via the menu.

Non-vented mask is used.

Only use a vented mask.

Mask vents might be blocked.

Check if you have sufficient venting. Unblock mask vents if necessary.

Problem/Possible cause	Solution
EPAP may be set too low.	Talk to your clinician about your settings.
Device does not start when you breathe into the mask	
Breath is not deep enough to trigger SmartStart/Stop.	Take a deep breath in and out through the mask.
SmartStart/Stop is disabled because Leak Alert is enabled.	Press Start/Stop to start therapy.
SmartStart/Stop is disabled because Confirm Stop is enabled.	A message appears on the screen. To stop therapy, select Yes and press the Push Dial.
SmartStart/Stop is disabled.	Talk to your clinician about enabling the SmartStart/Stop feature.
There is excessive leak.	Adjust position of mask and headgear. Connect the air tubing firmly at both ends.
Device does not stop when you remove your mask	
SmartStart/Stop is disabled because Leak Alert is enabled.	Press Start/Stop to stop therapy.
SmartStart/Stop is disabled because Confirm Stop is enabled.	A message appears on the screen. To stop therapy, select Yes and press the Push Dial.
SmartStart/Stop is disabled.	Talk to your clinician about enabling the SmartStart/Stop feature.
SmartStart/Stop is enabled but the device does not stop automatically when you remove your mask	
Incompatible mask system being used.	Only use equipment recommended by ResMed.
Incorrect mask setting being used.	Check the selected mask type in the Setup menu. Change it if necessary.
The patient is using a nasal pillows mask with a set pressure less than 6 cm H ₂ O.	Disable SmartStart/Stop.

Problem/Possible cause	Solution
The patient is using a paediatric mask with a set pressure less than 8 cm H ₂ O.	Disable SmartStart/Stop.
Pressure rises inappropriately	
Talking, coughing or breathing in an unusual manner.	Avoid talking with a nasal mask on, and breathe as normally as possible.
Mask cushion is buzzing against the skin.	Adjust the headgear.
Cushion seated incorrectly causing excessive leak.	Adjust headgear or re-fit cushion.
Displays message: High temperature fault, refer to user manual	
Device has been left in a hot environment.	Allow to cool before re-use. Disconnect the power cord and then reconnect it to restart the device.
Air filter is blocked.	Replace your air filter. Disconnect the power cord and then reconnect it to restart the device.
Air tubing is blocked.	Check your air tubing and remove any blockages. Disconnect the power cord and then reconnect it to restart the device.
Humidity level setting is too high, resulting in accumulation of water in the air tubing.	Turn the humidity level setting down and empty the water from the air tubing.
Displays message: Check ResMed 30/90W Power Supply Unit and fully insert the connector	
The DC plug is partially inserted into the back of the device or inserted too slowly.	Fully insert the DC plug.
A non-ResMed power supply unit is connected to the device.	Remove the power supply unit and replace with a ResMed power supply unit.
The power supply unit is being covered by bedding.	Make sure that the power supply unit is free from bedding, clothes or other objects that could cover it.

Problem/Possible cause	Solution
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Displays message: No tube, please check your tube is connected	
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Flow is high because air tubing is not connected properly.	Connect the air tubing firmly at both ends.
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Note: *The tube disconnection check may not operate when an antibacterial filter is used.*

Displays message: Tube blocked, please check your tube	
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Air tubing is blocked.	Check your air tubing and remove any blockages. Disconnect the power cord and then reconnect it to restart the device.
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Displays message: High leak, please check system setup and all connections	
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There is excessive leak.	Adjust position of mask and headgear.
Note: <i>If Leak Alert is enabled, an audible alert is activated and a high leak message is displayed.</i>	Connect the air tubing firmly at both ends.

The following message is displayed on the LCD after you try to update settings or copy data to the SD card: Card error, please remove SD card and contact service provider	
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SD card is not inserted correctly.	Ensure that the SD card is inserted correctly.
You may have removed the SD card before settings were copied to the device.	Reinsert the SD card and wait for the Home screen or the "Settings updated successfully, press any key" message to appear on the LCD.
	Note: <i>This message only appears once. If you re-insert the SD card after you have updated your settings, the message will not be re-displayed.</i>

The following message is NOT displayed on the LCD after you try to update the settings using the SD card: Settings updated successfully, press any key	
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The settings were not updated.	Contact your clinician/service provider immediately.
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General technical specifications

Power supply

90W power supply unit

Input range: 100–240V, 50–60Hz, 115V, 400Hz nominal for aircraft use
Typical power consumption: 70W (80VA)
Maximum power consumption: 110W (120VA)

30W power supply unit

Input range: 100–240V, 50–60Hz, 115V, 400Hz nominal for aircraft use
Typical power consumption: 20W (40VA)
Maximum power consumption: 36W (75VA)

90W DC/DC converter

Nominal inputs: 12V, 24V
Typical power consumption: 70W
Maximum power consumption: 110W

Environmental conditions

Operating temperature: +5°C to +35°C
Note: The air flow for breathing produced by this therapy device can be higher than the temperature of the room. Under extreme ambient temperature conditions (40°C) the device remains safe.
Operating humidity: 10 to 95% non-condensing
Operating altitude: Sea level to 2,591 m; air pressure range 1013 hPa to 738 hPa
Storage and transport temperature: -20°C to +60°C
Storage and transport humidity: 10 to 95% non-condensing

Aircraft use

ResMed confirms that the device/s meets the Federal Aviation Administration (FAA) requirements (RTCA/DO-160, section 21, category M) for all phases of air travel.

Electromagnetic compatibility

Product complies with all applicable electromagnetic compatibility requirements (EMC) according to IEC60601-1-2, for residential, commercial and light industry environments.
It is recommended that mobile communication devices are kept at least 1 m away from the device.
Information regarding the electromagnetic emissions and immunity of this ResMed device can be found on www.resmed.com, on the Products page under **Service and Support**. Click on the PDF file for your language.

IEC 60601-1 classification

Class II (double insulation), Type BF, Ingress protection IP21

VPAP ST technical specifications

Mode pressure ranges	CPAP mode Set Pressure: 4–20 cm H ₂ O S, ST, T and PAC modes IPAP: 4–25 cm H ₂ O; EPAP: 2–25 cm H ₂ O iVAPS mode PS: 0–23 cm H ₂ O; EPAP: 2–25 cm H ₂ O
Maximum single fault pressure	Maximum single fault steady state pressure: 30 cm H ₂ O—if pressure exceeded for > 6 sec; 40 cm H ₂ O—if pressure exceeded for >1 sec
Physical	Nominal dimensions (L x W x H): 153 mm x 140 mm x 86 mm Weight: 835 g Housing construction: Flame retardant engineering thermoplastic Air outlet: 22 mm conical air outlet (complies with ISO 5356-1:2004)
Air filter	Hypoallergenic air filter: Acrylic and polypropylene fibers in a polypropylene carrier Standard air filter: Polyester non-woven fiber
Sound	Pressure level (CPAP mode)
DECLARED	With SlimLine air tubing: 26 dBA with uncertainty of 2 dBA as measured according to EN ISO 17510-1:2009
DUAL-NUMBER	With Standard air tubing: 27 dBA with uncertainty of 2 dBA as measured according to EN ISO 17510-1:2009
NOISE EMISSION VALUES in accordance with ISO 4871:1996	With either SlimLine or Standard air tubing and H5i: 28 dBA with uncertainty of 2 dBA as measured according to EN ISO 17510-1:2009
	Power level (CPAP mode)
	With SlimLine air tubing: 34 dBA with uncertainty of 2 dBA as measured according to EN ISO 17510-1:2009
	With Standard air tubing: 35 dBA with uncertainty of 2 dBA as measured according to EN ISO 17510-1:2009
	With either SlimLine or Standard air tubing and H5i: 36 dBA with uncertainty of 2 dBA as measured according to EN ISO 17510-1:2009
Supplemental oxygen	Recommended maximum supplemental oxygen flow: 15 L/min (CPAP, S, ST, T, PAC); 4 L/min (iVAPS)

Air tubing technical specifications

Air tubing	Material	Length	Inner diameter
ClimateLine heated air tubing	Flexible plastic and electrical components	2 m	15 mm
ClimateLine ^{MAX} heated air tubing	Flexible plastic and electrical components	1.9 m	19 mm
SlimLine air tubing	Flexible plastic	1.8 m	15 mm
Standard air tubing	Flexible plastic	2 m	19 mm
3 m air tubing	Flexible plastic	3 m	19 mm
Heated air tubing temperature cut-out: ≤ 41°C			

Notes:

- *The manufacturer reserves the right to change these specifications without notice.*
- *The temperature and relative humidity settings displayed for Climate Control are not measured values.*
- *Check with your clinician/service provider before using the SlimLine air tubing with devices other than the S9 or H5i.*
- *The electrical connector end of the heated air tubing is only compatible with the H5i air outlet and should not be fitted to the device or mask.*
- *When using the SlimLine or ClimateLine above 20 cm H₂O, the device optimum performance may not be reached if used with an antibacterial filter. The device performance must be checked prior to prescribing the SlimLine for use with an antibacterial filter.*
- *The ClimateLine or ClimateLine^{MAX} is designed only for use with the H5i.*

Humidifier performance

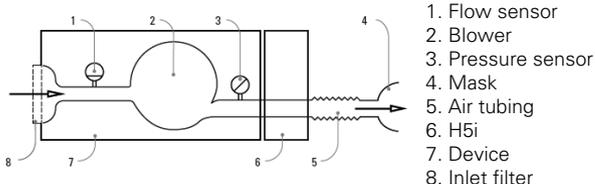
The following settings have been tested at 22°C ambient temperature:

Mask pressure cm H ₂ O	RH output %		Nominal system output AH ^a , BTPS ^b	
	Setting 3	Setting 6	Setting 3	Setting 6
3	90	100	10	18
10	95	100	11.5	21
20	95	100	11	18
25	100	100	12	13.5

a. AH - Absolute Humidity in mg/L.

b. BTPS - Body Temperature Pressure Saturated.

Pneumatic flow path



1. Flow sensor
2. Blower
3. Pressure sensor
4. Mask
5. Air tubing
6. H5i
7. Device
8. Inlet filter

Flow (maximum) at set pressures

The following are measured at the end of the specified air tubing:

Pressure, cm H ₂ O	VPAP ST and Standard, L/min	VPAP ST, H5i and Standard, L/min	VPAP ST and SlimLine, L/min	VPAP ST, H5i and ClimateLine, L/min
4	200	170	195	170
8	200	170	190	170
12	200	170	184	170
16	200	170	175	170
20	190	170	168	161
25	180	161	144	125

Displayed values

Value	Range	Display resolution
Pressure sensor at air outlet		
Mask pressure	4-20 cm H ₂ O (CPAP); 2-25 cm H ₂ O (S, ST, T, PAC, iVAPS)	0.1 cm H ₂ O
Flow derived values		
Leak	0-200 L/min	1 L/min
Tidal volume	0-4000 mL	1 mL
Respiratory rate	0-50 BPM	1 BPM
Minute ventilation	0-30 L/min	0.1 L/min
Ti	0.1-4.0 sec	0.1 sec
I:E ratio	1:50-2:1	0.1

Value	Accuracy ^a
Pressure measurement^a	
Mask pressure	±0.5 cm H ₂ O (+4% of measured value)
Flow measurements^a	
Leak ^b	±12 L/min or 20% of reading, whichever is greater, at 0 to 60 L/min
Tidal volume ^{b,c}	±20%
Respiratory rate ^{b,c}	±1 BPM
Minute ventilation ^{b, c}	±20%

a. Results are expressed at ATPD (Ambient Temperature and Pressure, Dry).

b. Accuracy may be reduced by the presence of leaks, supplemental oxygen, tidal volumes <100 mL or minute ventilation <3 L/min.

c. Measurement accuracy verified as per EN ISO 10651-6:2009 for Home Care Ventilatory Support Devices (Figure 101 and Table 101) using nominal ResMed mask vent flows.

Pressure accuracy

Maximum static pressure variation at 10 cm H₂O according to EN ISO 17510-1:2009

	Standard air tubing	SlimLine air tubing
Without H5i	9.89 cm H ₂ O to 9.97 cm H ₂ O	9.76 cm H ₂ O to 9.87 cm H ₂ O
With H5i	9.82 cm H ₂ O to 9.98 cm H ₂ O	9.78 cm H ₂ O to 9.88 cm H ₂ O

Maximum dynamic pressure variation according to EN ISO 17510-1:2009

Pressure (cm H ₂ O)	10 BPM	15 BPM	20 BPM
	VPAP ST and Standard air tubing without H5i / VPAP ST and Standard air tubing with H5i		
4	0.18 / 0.18	0.30 / 0.30	0.51 / 0.51
8	0.21 / 0.20	0.26 / 0.24	0.38 / 0.36
12	0.21 / 0.20	0.26 / 0.23	0.34 / 0.31
16	0.22 / 0.21	0.27 / 0.26	0.36 / 0.33
20	0.23 / 0.22	0.26 / 0.28	0.38 / 0.35
25	0.30 / 0.31	0.54 / 0.50	0.74 / 0.71
Pressure (cm H ₂ O)	10 BPM	15 BPM	20 BPM
	VPAP ST and SlimLine air tubing without H5i / VPAP ST and SlimLine air tubing with H5i		
4	0.22 / 0.20	0.28 / 0.29	0.47 / 0.53
8	0.23 / 0.19	0.32 / 0.29	0.41 / 0.42
12	0.22 / 0.21	0.35 / 0.29	0.41 / 0.45
16	0.22 / 0.23	0.41 / 0.33	0.44 / 0.50
20	0.24 / 0.27	0.37 / 0.34	0.48 / 0.50
25	0.31 / 0.31	0.50 / 0.54	0.78 / 0.84

Symbols

The following symbols may appear on your product or packaging.

 Caution;
  Read instructions before use;
 IP21 Protection against insertion of fingers and against vertically dripping water;
  Type BF equipment;
  Class II equipment;
  Start/Stop;
  Manufacturer;
  European RoHS;
 LOT Batch code;
 REF Catalogue number;
 SN Serial number;

 Direct current;  Lock/unlock;  China pollution control logo 1;  China pollution control logo 2;  European Authorised Representative;  IP20 Not drip proof;  Keep dry;



Environmental information

WEEE 2002/96/EC is a European Directive that requires the proper disposal of electrical and electronic equipment. This device should be disposed of separately, not as unsorted municipal waste. To dispose of your device, you should use appropriate collection, reuse and recycling systems available in your region. The use of these collection, reuse and recycling systems is designed to reduce pressure on natural resources and prevent hazardous substances from damaging the environment.

If you need information on these disposal systems, please contact your local waste administration. The crossed-bin symbol invites you to use these disposal systems. If you require information on collection and disposal of your ResMed device please contact your ResMed office, local distributor or go to www.resmed.com/environment.

Servicing

The VPAP ST device is intended to provide safe and reliable operation when operated in accordance with the instructions provided by ResMed. ResMed recommends that the VPAP ST device be inspected and serviced by an authorised ResMed Service Centre if there is any sign of wear or concern with device function. Otherwise, service and inspection of the devices generally should not be required during the five year design life of the device.

Limited warranty

ResMed Pty Ltd (hereafter 'ResMed') warrants that your ResMed product shall be free from defects in material and workmanship from the date of purchase for the period specified below.

Product	Warranty period
<ul style="list-style-type: none">• Mask systems (including mask frame, cushion, headgear and tubing)—excluding single-use devices• Accessories—excluding single-use devices• Flex-type finger pulse sensors• Humidifier water tubs	90 days
<ul style="list-style-type: none">• Batteries for use in ResMed internal and external battery systems	6 months

Product	Warranty period
<ul style="list-style-type: none"> • Clip-type finger pulse sensors • CPAP and bilevel device data modules • Oximeters and CPAP and bilevel device oximeter adapters • Humidifiers and humidifier cleanable water tubs • Titration control devices 	1 year
<ul style="list-style-type: none"> • CPAP, bilevel and ventilation devices (including external power supply units) • Battery accessories • Portable diagnostic/screening devices 	2 years

This warranty is only available to the initial consumer. It is not transferable.

If the product fails under conditions of normal use, ResMed will repair or replace, at its option, the defective product or any of its components.

This Limited Warranty does not cover: a) any damage caused as a result of improper use, abuse, modification or alteration of the product; b) repairs carried out by any service organization that has not been expressly authorized by ResMed to perform such repairs; c) any damage or contamination due to cigarette, pipe, cigar or other smoke; and d) any damage caused by water being spilled on or into an electronic device.

Warranty is void on product sold, or resold, outside the region of original purchase.

Warranty claims on defective product must be made by the initial consumer at the point of purchase.

This warranty replaces all other expressed or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose. Some regions or states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

ResMed shall not be responsible for any incidental or consequential damages claimed to have resulted from the sale, installation or use of any ResMed product. Some regions or states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from region to region. For further information on your warranty rights, contact your local ResMed dealer or ResMed office.

WARNINGS

- Read the entire manual before using the device.
- Use the device only as directed by your physician or healthcare provider.
- Use the device only for the intended use as described in this manual. Advice contained in this manual should not supersede instructions given by the prescribing physician.
- If you notice any unexplained changes in the performance of the device, if it is making unusual or harsh sounds, if the device or the power supply are dropped or mishandled, if water is spilled into the enclosure, or if the enclosure is broken, discontinue use and contact your ResMed Service Center.
- Beware of electrocution. Do not immerse the device, humidifier, power supply or power cord in water. In the event of a spill, disconnect the device from the power supply and let the parts dry. Always unplug the device before cleaning and make sure that all parts are dry before plugging in the device.
- Explosion hazard—do not use in the vicinity of flammable anesthetics.
- Make sure the power cord and plug are in good condition and the equipment is not damaged.
- Keep the power cord away from hot surfaces.
- The device should only be used with masks (and connectors¹) recommended by ResMed, or by a physician or respiratory therapist. A mask should not be used unless the device is turned on. Once the mask is fitted, ensure that the device is blowing air. The vent hole or holes associated with the mask should never be blocked.

Explanation: The device is intended to be used with special masks (or connectors) which have vent holes to allow continuous flow of air out of the mask. When the device is turned on and functioning properly, new air from the device flushes the exhaled air out through the mask vent holes. However, when the device is not operating, insufficient fresh air will be provided through the mask, and the exhaled air may be rebreathed. Rebreathing of exhaled air for longer than several minutes can, in some circumstances, lead to suffocation. This applies to most models of CPAP or bilevel devices.

- Oxygen supports combustion. Oxygen must not be used while smoking or in the presence of an open flame.
- Always ensure that the device is turned on and airflow generated before the oxygen supply is turned on. Always turn the oxygen supply off before the device is turned off, so that unused oxygen does not accumulate within the device enclosure and create a risk of fire.

¹ Ports may be incorporated into the mask or in connectors that are near the mask.

- Do not leave long lengths of air tubing around the top of your bed. It could twist around your head or neck while you are sleeping.
- Do not use electrically conductive or antistatic air tubings.
- Do not use the air tubing if there are any visible signs of damage.
- Only ResMed air tubing and accessories should be used with the device. A different type of air tubing or accessory may alter the pressure you actually receive, reducing the effectiveness of the treatment.
- Only use the ResMed 90W or 30W power supply unit. Use the 90W power supply unit to power the system comprising the device, H5i, air tubing, DC/DC converter and battery pack. The 30W power supply unit is designed to power the device only and recommended for travelling.
- Only ResMed products are designed to be connected to the module connector port. Connecting other devices could damage the device.
- Blocking the air tubing and/or air inlet of the device while in operation could lead to overheating of the device.



CAUTIONS

- Do not open the device enclosure. There are no user serviceable parts inside. Repairs and servicing should only be performed by an authorised ResMed service agent.
- Do not use bleach, chlorine, alcohol, or aromatic-based solutions, moisturizing or antibacterial soaps or scented oils to clean the device, humidifier or air tubing. These solutions may cause damage and reduce the life of these products.
- Incorrect system setup may result in incorrect mask pressure reading. Ensure the system is correctly set up.
- Be careful not to place the device where it can be bumped or where someone is likely to trip over the power cord.
- Make sure that the area around the device is dry and clean and clear of bedding, clothes or other objects that could block the air inlet or cover the power supply unit.
- Ensure that the device is protected against water if used outdoors. Enclose the device in the S9 travel bag for transport.

Respiratory Care Solutions
Making quality of care easy

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