

**RESMED**

S8 Compact™ System

USER'S MANUAL

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**RESMED**

ENGLISH

# S8 Compact™ System

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USER'S MANUAL

English

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# INTRODUCTION

Thank you for choosing the **S8 COMPACT™** flow generator. The **S8 COMPACT** is an all-in-one package with an inbuilt power supply and the option of integrated humidification.

This user manual contains the information you need for the correct use of your **S8 COMPACT**.

## YOUR RESPONSIBILITY

The owner or user of this system shall have sole responsibility and liability for any injury to persons or damage to property resulting from:

- operation which is not in accordance with the operating instructions supplied
- maintenance or modifications carried out unless in accordance with authorized instructions and by authorized persons.

### **Please read this manual carefully before use.**

This manual contains special terms and icons that appear in the margins to draw your attention to specific and important information.

- Warning alerts you to possible injury.
- Caution explains special measures for the safe and effective use of the device.
- Note is an informative or helpful note.

# MEDICAL INFORMATION

## ABOUT THE S8 COMPACT

The **S8 COMPACT** continuous positive airway pressure (CPAP) system is indicated for the treatment of obstructive sleep apnea (OSA) in adult patients.

The **S8 COMPACT** CPAP system is intended for home and hospital use.



### **CAUTION**

In the US, Federal law restricts this device to sale by or on the order of a physician.

## CONTRAINDICATIONS

The S8 COMPACT is not a life support device and may stop operating during power failure or certain fault conditions. It should not be used by patients who are dependent on continuous therapy.

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

- severe bullous lung disease
- pneumothorax
- pathologically low blood pressure
- dehydration
- cerebrospinal fluid leak, recent cranial surgery, or trauma.

## WARNINGS

- Read the entire manual before using the S8 COMPACT.
- Advice contained in this manual should not supersede instructions given by the prescribing physician.
- The S8 COMPACT should only be used with masks (and connectors)\* recommended by ResMed, or by a physician or respiratory therapist. A mask should not be used unless the S8 COMPACT device is turned on and operating properly. The vent hole or holes associated with the mask should never be blocked.

**Explanation:** The S8 COMPACT 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 devices.

- In the event of power failure or machine malfunction, remove the mask.
- The S8 COMPACT can be set to deliver pressures up to 20 cm H<sub>2</sub>O. In the unlikely event of certain fault conditions, pressures up to 30 cm H<sub>2</sub>O are possible.
- If oxygen is used with this device, the oxygen flow must be turned off when the device is not operating.

If oxygen has been left on, turn off the flow generator, then wait 30 minutes before turning on the flow generator again.

**Explanation:** When the CPAP device is not in operation and the oxygen flow is left on, oxygen delivered into the air delivery tubing may accumulate within the CPAP machine enclosure and create a risk of fire. This applies to most types of CPAP machines.

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

- Oxygen supports combustion. Oxygen should not be used while you are smoking or in the presence of an open flame.
- Always ensure airflow is being generated by the device before the oxygen supply is turned on.
- Always turn the oxygen supply off before stopping the airflow from the device.

**Note:** *At a fixed rate of supplemental oxygen flow, the inhaled oxygen concentration will vary, depending on where the oxygen is introduced, the pressure settings, patient breathing pattern, mask selection, and leak rate.*

- Do not use the S8 COMPACT if there are obvious external defects or unexplained changes in performance.
- Do not open the S8 COMPACT case. There are no user serviceable parts inside. Repairs and internal servicing should only be performed by an authorized service agent.

**Note:** *The plate on the back of the device is a non removable cover. Removal of this cover voids warranty.*

- Explosion hazard—do not use in the vicinity of flammable anesthetics.

## CAUTIONS

- At low pressures, the flow through the exhalation ports of your mask may not clear all exhaled gas from the tubing. Some rebreathing may occur.
- The airflow for breathing produced by this device can be as much as 11°F (6°C) higher than the temperature of the room. Caution should be exercised if the room temperature is warmer than 90°F (32°C).

**Note:** *The above are general warnings and cautions. Specific warnings, cautions, and notes appear with the relevant instructions in the manual.*

## 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 CPAP device:

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

# THE S8 COMPACT SYSTEM

The S8 COMPACT device is part of a system that consists of four elements:

- S8 COMPACT flow generator
- Mask
- Humidifier
- Accessories.

## S8 COMPACT

Please refer to the illustrations in section **A** of the illustration sheet.

### FRONT VIEW (A-1)

Shows the keypad and LCD screen, and the air outlet.

### REAR VIEW (A-2)

Shows the location of the air filter and power socket.

### POWER CORD (A-3)

Power cord to attach the S8 COMPACT to the AC (mains) power.

### AIR TUBING

The 6'6" (2 m) air tubing (**A-4**) connects the S8 COMPACT to your mask. You will need medium 21" (52 cm) air tubing (see **C-2**) to connect the S8 COMPACT to the HUMIDAIRE™ and ResMed PASSOVER humidifiers.

## MASKS

You will also need a **ResMed mask system** (supplied separately).

The ResMed mask systems that are recommended for use with the S8 COMPACT are:

### NASAL MASKS

- MODULAR NASAL MASK
- MIRAGE VISTA™ NASAL MASK
- ULTRA MIRAGE™ NASAL MASK
- MIRAGE™ NASAL MASK
- PROTEGE™ NASAL MASK
- MIRAGE ACTIVA™ NASAL MASK
- PAPILLON™.

### NASAL PILLOWS SYSTEMS

- MIRAGE SWIFT™ NASAL PILLOWS SYSTEM.

### FULL FACE MASKS

- MIRAGE™ FULL FACE MASK
- MIRAGE™ FULL FACE MASK SERIES 2
- ULTRA MIRAGE™ FULL FACE MASK.





## WARNING

Only ResMed mask systems are compatible for use with the S8 Compact. Please refer to “Warnings” on page 4.

## HUMIDIFIERS

A humidifier may be required if you are experiencing dryness of the nose, throat, or mouth. The S8 COMPACT is compatible for use with:

- HUMIDAIRE 3i™ integrated heated humidifier (**Figure B** on the illustrations sheet)
- HUMIDAIRE heated humidifier (**Figure F** on the illustrations sheet)
- ResMed PASSOVER humidifier (**Figure G** on the illustrations sheet).

## ACCESSORIES

*Please refer to the illustrations in section C of the illustration sheet.*

Other accessories for use with the S8 COMPACT:

- Air tubing 9'10" (3 m) (**C-1**)
- Medium air tubing 21" (52 cm) for HUMIDAIRE and ResMed PASSOVER connection (**C-2**).

**Note:** ResMed regularly releases new products. Please check our website at [www.myresmed.com](http://www.myresmed.com).

# HOW TO USE THE S8 COMPACT

Please refer to the illustrations in section **D** of the illustration sheet.

## SET UP THE S8 COMPACT

- 1 Place the S8 COMPACT on a table near the head of your bed.



### CAUTION

Be careful not to place the device where it can be bumped or where someone is likely to trip over the power cord.

**Note:** You can also place your S8 Compact on the floor beside or underneath your bed. Ensure that the area is free from dust and clear of bedding, clothes, or any other objects that could block the air inlet.

- 2 Connect the power cord to the socket at the rear of the flow generator (**D-1**). Plug the other end of the power cord into the power outlet.



### WARNING

Make sure the power cord and plug are in good condition and the equipment is not damaged.

- 3 Connect one end of the air tubing firmly onto the air outlet (**D-2**).



### WARNING

- Only ResMed air tubing should be used with your flow generator. A different type of air tubing may alter the pressure you actually receive, reducing the effectiveness of your treatment.
- Blocking the hose while in operation could lead to overheating of the device.

## ASSEMBLE THE MASK

- 1 Assemble your mask system according to the mask user instructions.
- 2 Connect your mask system to the free end of the air tubing (**D-3**).  
The S8 COMPACT is now ready for use (**D-4**).

## START TREATMENT

- 1 Make sure the power is on.  
The product name is displayed briefly on the LCD screen, then the standby (Ramp) screen appears. The key and LCD backlights also turn on.
- 2 Lie down and arrange the air tubing so that it is free to move if you turn in your sleep.

**CAUTION**

- Do not leave long lengths of air tubing around the top of your bed. They could twist around your head or neck while you are sleeping.
- Make sure the area around the flow generator is dry and clean. It should also be clear of bedding, clothes, and other potential blockages.

- 3 Alter the ramp time if required (see "How to Change the Ramp Time" on page 14).
- 4 To start treatment, press the **Start/Stop** key.
- 5 Fit your mask as described in the mask user instructions.

**WARNING**

A mask should not be used unless the S8 Compact device is turned on and operating properly.

- 6 When ramping begins the LCD will display the word "RAMPING", with the current pressure indicated as dashes. Each dash is approximately equivalent to 2 cm H<sub>2</sub>O. For example, 6 dashes represents approximately 12 cm H<sub>2</sub>O pressure.

**STOP TREATMENT**

To stop treatment at any time, remove your mask and press the **Start/Stop** key.

# HOW TO ATTACH A HUMIDIFIER

## ATTACH A HUMIDAIRE 3i HUMIDIFIER

Please refer to the illustration in section **E** of the illustration sheet, and your HumidAire 3i manual.

The HUMIDAIRE 3i attaches to the front of the S8 COMPACT to provide heated humidification. No other accessories are required for its use.

### Notes:

- a. Make sure the water chamber of the HumidAire 3i is empty before you attach or detach the humidifier.
- b. Remove the connector plug on the S8 Compact (see section **A** of the illustrations sheet) before you attach the HumidAire 3i. Reattach the connector plug firmly after you detach the HumidAire 3i.

## ATTACH A HUMIDAIRE HUMIDIFIER

Please refer to the illustrations in section **F** of the illustration sheet.

To connect your S8 COMPACT to a HUMIDAIRE humidifier you need medium sized 21" (52 cm) air tubing.

- 1 Fill the HUMIDAIRE water chamber and place inside the HUMIDAIRE. Connect the medium 21" (52 cm) and long 6'6" (2 m) air tubing (**F-1**), and close the humidifier lid.
- 2 Place the S8 COMPACT on top of the HUMIDAIRE (**F-2**) and connect the free end of the medium air tubing to the air outlet (**F-3**).

**Note:** To avoid water spilling into the S8 Compact, do not put it underneath the humidifier.

- 3 Assemble your mask system and connect it to the free end of the long air tubing (**F-4**).
- 4 Plug the HUMIDAIRE power cord into a power outlet. Connect the S8 COMPACT power cord to the socket at the rear of the S8 COMPACT and plug the other end into a power outlet.

Please refer to the *HumidAire User's Manual* for further details.



### WARNING

Make sure that the power cord and plug are in good condition and the equipment is not damaged.

The S8 COMPACT is now ready for use with the HUMIDAIRE.

## ATTACH A RESMED PASSOVER HUMIDIFIER

Please refer to the illustrations in section **G** of the illustration sheet.

To connect your S8 COMPACT to a ResMed PASSOVER humidifier you need medium sized 21" (52 cm) air tubing.

- 1 Fill the PASSOVER with water and connect the medium 21" (52 cm) and long 6'6" (2 m) air tubing (**G-1**).
- 2 Place the S8 COMPACT on top of the PASSOVER (**G-2**) and connect the free end of the medium air tubing to the air outlet (**G-3**).

**Note:** To avoid water spilling into the S8 Compact, do not place it underneath the humidifier.

- 3 Assemble your mask system and connect it to the free end of the long air tubing (**G-4**).
- 4 Connect the power cord to the socket at the rear of the S8 COMPACT and plug the other end into a power outlet.

Please refer to the *ResMed Passover User's Manual* for further details.



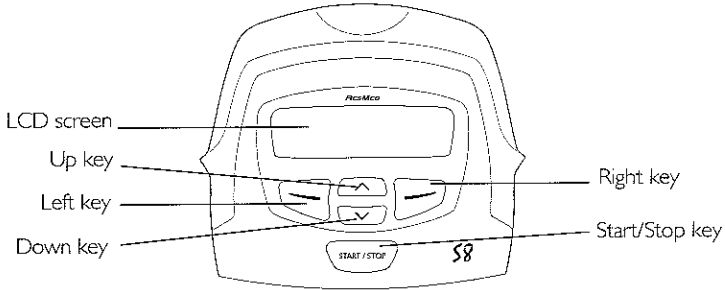
### **WARNING**

Make sure that the power cord and plug are in good condition and the equipment is not damaged.

The S8 COMPACT is now ready for use with the PASSOVER.

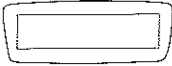
# HOW TO USE THE KEYPAD

The control panel of the S8 COMPACT includes an LCD screen and keypad for navigating through the menus and delivering treatment.








## LCD SCREEN

The LCD screen displays the menus and treatment screens.



## KEYPAD KEYS

The S8 COMPACT keypad has the following keys:

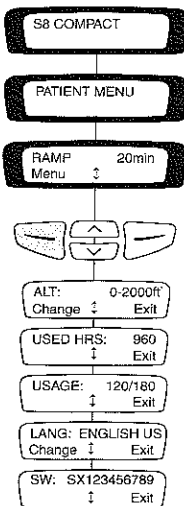
Key	Function
<b>Start/Stop</b> 	<ul style="list-style-type: none"> <li>Starts or stops treatment.</li> </ul>
<b>Up</b> 	<ul style="list-style-type: none"> <li>Allows you to increase settings options and scroll through the S8 COMPACT menu.</li> </ul>
<b>Down</b> 	<ul style="list-style-type: none"> <li>Allows you to decrease settings options and scroll through the S8 COMPACT menu.</li> </ul>
<b>Left</b> 	<ul style="list-style-type: none"> <li>Performs the function indicated by the guiding text displayed above it on the LCD screen. Guiding text includes <b>menu</b>, <b>change</b>, and <b>apply</b>.</li> </ul>
<b>Right</b> 	<ul style="list-style-type: none"> <li>Performs the function indicated by the guiding text displayed above it on the LCD screen. Guiding text includes <b>exit</b> and <b>cancel</b>.</li> </ul>

## BACKLIGHTS

The keypad and LCD are equipped with backlights that come on when the device is powered. The LCD backlight turns off after two minutes of inactivity, and comes back on when you press a key. Once the **Start/Stop** key has been pressed to start treatment, the LCD backlight stays on for two minutes. The keypad backlight is always on while the S8 COMPACT is on.

## HOW TO CHANGE THE SETTINGS ON YOUR S8 COMPACT

You can change settings (such as Ramp Time, Altitude) on the S8 COMPACT by using the keypad and LCD. When the S8 COMPACT is in standby mode you can display a series of screens (a menu) on the LCD screen in order to view and change the settings for a particular function.



Use the menu screens to change the ramp time, altitude compensation, and language. You can also view details about the usage and software version of your S8 COMPACT.

### HOW TO ENTER THE MENU SCREENS

When the S8 COMPACT standby screen is displayed you will see the word "Menu" in the left-hand corner. To select the S8 COMPACT menu, press the **Left** key.

### HOW TO SCROLL THROUGH THE MENU

When you are in the menu, scroll through items by pressing the **Up** or **Down** keys.

## HOW TO CHANGE A SETTING OPTION

When you have scrolled to the item you require:

1. Press the **Left** key (Change).
2. Press the **Up** or **Down** keys until you see the setting option that you require.
3. Press the **Left key** (Apply) to select the setting option.

If you wish to exit without changing the option, press the **Right** key (Cancel).

## HOW TO EXIT OUT OF A MENU

Press the **Right** key (Exit). This will take you back to the Patient Menu screen.

## HOW TO EXIT OUT OF AN ITEM WITHIN THE MENU

Press the **Right** key (Exit).

## HOW TO CHANGE THE RAMP TIME

During ramp time, the pressure increases from a low pressure to the prescribed treatment pressure. You can set the ramp time in 5-minute intervals, from 0 minutes (OFF) up to a maximum ramp time set by your clinician.

The standby screen displays the current ramp time in the right-hand corner. To change the ramp time, press the **Up** or **Down** key until the desired ramp time appears.

Once a ramp time is selected, begin therapy by pressing the **Start/Stop** key.

When ramping begins the LCD will display the word "RAMPING", with the current pressure indicated as dashes. Each dash is approximately equivalent to 2 cm H<sub>2</sub>O. For example, six dashes represents approximately 12 cm H<sub>2</sub>O pressure.

## HOW TO CHANGE THE ALTITUDE SETTING

If you move or travel with your S8 COMPACT to areas of different altitude, you will need to adjust the altitude compensation setting. Changes in altitude will affect the pressure delivered by the S8 COMPACT.

You can use the Altitude setting (ALT) to specify the altitude range at which you are using your S8 COMPACT. Select the S8 COMPACT menu by pressing the **Left** key in the standby (RAMP) screen. Scroll to ALT and select Change (**Left** key). Press the **Up** or **Down** keys until you see the setting option that you require.

There are four altitude settings to choose from:

- 0–2000 ft (0–609 m)
- 2001–4000 ft (610–1219 m)
- 4001–6000 ft (1220–1828 m)
- 6001–8500 ft (1829–2591 m).

For example, if you are at an altitude of 3107' (947 m), your altitude compensation setting would be 2001–4000 ft (610–1219 m), as 3107' (947 m) falls within that range.

Press the **Left key** (Apply) to select the correct setting.



## HOW TO CHANGE THE LANGUAGE SETTING

To display menus and messages in a different language, select the **S8 COMPACT** menu by pressing the **Left** key in the standby (RAMP) screen. Scroll to LANG and select Change (**Left** key). Press the **Up** or **Down** keys until you see the language that you require.

## OTHER VIEWABLE INFORMATION

You can also view the total number of hours of treatment (USED HRS); the number of sessions that the **S8 COMPACT** was used in a usage period (USAGE); and the current software version installed on your unit (SW). Access to all of these screens is provided via the menu. See "How to enter the menu screens" on page 13.

## MESSAGES ON THE S8 COMPACT LCD

Your clinician may have set your **S8 COMPACT** to remind you about important events, such as when to replace your mask.

The reminder message is displayed on the LCD and is visible if the device is not delivering therapy. The backlight on the LCD flashes when a message is displayed.

Your clinician can set any of the following reminders on your LCD:

Message	Description	Action
REPLACE MASK	May appear when your mask is due for replacement.	Press the <b>Left</b> (Ok) key to remove the message from your LCD, and replace your mask with a new one.
CALL PROVIDER	May appear as a reminder to contact your clinician; for example to discuss how your therapy is going.	Press the <b>Left</b> (Ok) key to remove the message from your LCD, and contact your clinician.
REPLACE FILTER	May appear as a reminder to replace the air filter on your device.	Press the <b>Left</b> (Ok) key to remove the message from your LCD, and replace the air filter.
SERVICE DUE	May appear as a reminder to return your device for service.	Press the <b>Left</b> (Ok) key to remove the message from your LCD.
INSERT CARD	This feature is not available.	

# CLEANING AND MAINTENANCE

You should regularly carry out the cleaning and maintenance described in this section. Refer to your mask manual for detailed instructions.

## DAILY CLEANING

### Mask

Clean the mask according to the instructions supplied with the mask.

### Air tubing

Disconnect the air tubing from the S8 COMPACT (and humidifier, if used) and hang the tubing and mask in a clean, dry place until next use.

### Humidifier

If you are using a humidifier, clean it according to the instructions in the humidifier user's manual.

## WEEKLY CLEANING

1. Remove the air tubing from the S8 COMPACT and the mask.
2. Wash the air tubing in warm water using mild detergent. Rinse thoroughly, hang, and allow to dry.
3. Before next use, assemble the mask and headgear according to the user instructions.
4. Reconnect the air tubing to the air outlet and mask.

## PERIODIC CLEANING

1. Clean the exterior of the S8 COMPACT with a damp cloth and mild detergent.
2. Check the air filter for blockage or holes (see "Replacing the Air Filter" on page 17).



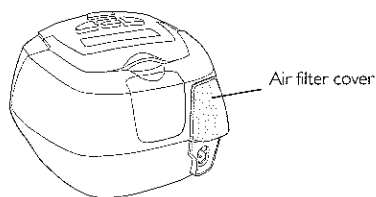
### WARNING

- Beware of electric shock. Do not immerse the unit or power cord in water. Always unplug the unit before cleaning and be sure it is dry before plugging back in.
- The mask system and air tubing are subject to normal wear and tear. Inspect them regularly for damage.

## REPLACING THE AIR FILTER

To replace the air filter:

1. Remove the air filter cover at the back of the S8 COMPACT.



2. Remove and discard the old air filter.
3. Insert a new filter with the blue tinted side facing out from the device.
4. Replace the air filter cover:

Inspect the air filter every month to check if it is blocked by dirt or contains holes. With normal use of an S8 COMPACT, the air filter needs to be replaced every six months (or more often if your device is in a dusty environment).

### **WARNING**



- Do not wash the air filter. The air filter is not washable or reusable.
- The air filter cover protects the device in the event of accidental liquid spillage onto the device. Ensure the air filter and air filter cover are fitted at all times.

## SERVICING

### **CAUTION**



- Do not attempt to open the S8 Compact case. There are no user serviceable parts inside.
- Inspection and repair should only be performed by an authorized agent. Under no circumstances should you attempt to service or repair the flow generator yourself.

This product (S8 COMPACT) should be inspected by an authorized ResMed Service Center five years from the date of manufacture. Prior to this, the device is intended to provide safe and reliable operation provided that it is operated and maintained in accordance with the instructions provided by ResMed. Applicable ResMed warranty details are provided with the device at the time of original supply. Of course, as with all electrical devices, if any irregularity becomes apparent, you should exercise caution and have the device inspected by an Authorized ResMed Service Center.

If you feel that your flow generator is not performing properly, see "Troubleshooting" on page 20.

## FREQUENTLY ASKED QUESTIONS

### **HOW WILL IT FEEL WHEN I AM BREATHING WITH THE S8 COMPACT?**

When you first use your S8 COMPACT, you may feel uncomfortable breathing against the airflow. This is normal. You will continue to breathe normally while you sleep. Take time to adjust to this new sensation.

### **WHAT DO I DO WHEN I WANT TO GET UP IN THE NIGHT?**

If you need to get up during the night, remove your mask and stop therapy. Always remember to restart therapy and put your mask on when you return to bed.

### **WHAT DO I DO IF I FEEL AIR LEAKING OUT OF THE MASK?**

The flow generator delivers the most effective treatment when the mask is well fitted and comfortable. Treatment can be affected by leaks, so it is important to eliminate any leaks that may arise. For example, try repositioning the mask and adjusting the straps.

If you are using a nasal mask, try to keep your mouth closed during treatment. Air leaks from your mouth can decrease the effectiveness of your treatment. If mouth leaks are a problem, a full face mask or chin strap may help. Contact your clinician or equipment supplier for further details.

If you are using a full face mask and you have problems trying to get a comfortable mask fit, contact your sleep clinic or equipment supplier. You may benefit from a different size or style of mask.

### **ANYTHING SPECIAL I SHOULD DO BEFORE PUTTING THE MASK ON?**

Before wearing your mask, wash your face to remove excess facial oils. This will allow a better fit and prolong the life of the mask cushion.

Do not use moisturizer when wearing a mask.

### **MY MOUTH FEELS DRY DURING TREATMENT—WHAT CAN I DO?**

You may experience dryness of the nose, mouth, and/or throat during the course of treatment, especially during winter. In many cases, a humidifier may resolve this discomfort. Contact your clinician for advice.

### **MY NOSE IS IRRITATED DURING TREATMENT—WHAT CAN I DO?**

You may experience sneezing and/or a runny or blocked nose during the first few weeks of treatment. In many cases, nasal irritation can be resolved with a humidifier. Consult your clinician or equipment supplier for advice.

### **CAN I TRAVEL WITH THE S8 COMPACT?**

#### **International use**

Your S8 COMPACT flow generator has an internal power supply that enables it to operate in other countries. It will operate on power supplies of 100–240V and 50/60Hz. No special adjustment is necessary, but you may need a plug adapter for the power outlet.

**Altitude changes**

If you are moving or traveling to a higher or lower altitude, see “How to change the Altitude setting” on page 14.

**On an aircraft**

Please consult the medical services department of your carrier if you intend to use your S8 COMPACT on an aircraft. The S8 COMPACT complies with US FCC Part 15, Class B requirements.

**Note:** *Do not use your S8 Compact while the aircraft is taking off or landing.*

## 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.

<b>Problem</b>	<b>Possible Cause</b>	<b>Solution</b>
<i>No display.</i>	Power not connected.	Ensure the appropriate power cord is connected to your S8 Compact and the power switch (if available) is on.
<i>Insufficient air delivered from S8 Compact.</i>	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 kinked or punctured.	Straighten or replace tubing.
	Air tubing not connected properly.	Check air tubing.
	Mask and headgear not positioned correctly.	Adjust position of mask and headgear.
	Cap(s) missing from access port(s) on mask.	Replace cap(s).
	Altitude compensation setting is incorrect.	Adjust altitude compensation setting to the correct altitude range.
Pressure required for treatment may have changed.	See your clinician to adjust the pressure.	

Problem	Possible Cause	Solution
<i>Excessive air delivered from the S8 Compact.</i>	Altitude compensation setting is incorrect.	Adjust altitude compensation setting to the correct altitude range.
<p><i>Display error message:</i>  <b>Exxxxx</b>  <b>Call Service</b>  <i>(where xxxxx defines an error)</i>  <i>or</i>  <b>MOTOR FAULT</b>  <b>Call Service</b>  <i>or</i>  <b>UPLOAD LANGUAGES</b>  <b>Call Service</b>  <i>or</i>  <b>DATA LOST</b>  <b>Call Service</b></p>	Component failure.	Call Service.

# SYSTEM SPECIFICATIONS

## S8 COMPACT

**Performance:** Operating pressure range: 4 to 20 cm H<sub>2</sub>O

**Dimensions (H x W x D):** 4.6" x 6.5" x 5.7" (112 mm x 164 mm x 145 mm)

**Weight:** 2.9 lb (1.3 kg)

### Power Supply

Input range for S8 COMPACT with HUMIDAIRE 3i: 100–240V, 50/60Hz; 110V, 400Hz; 2.5A < 140VA (110W) (maximum power consumption). Instantaneous peak power consumption <340 VA.

Actual power consumption will vary, depending on factors such as the use of accessories, height above sea level, and ambient temperature. Power consumption values for typical treatment conditions (using a breathing machine set to 0.5 L and 15 breaths/min with 6'6" (2 m) air tubing and an ULTRA MIRAGE mask) are given in the following table.

Device	Pressure (cm H <sub>2</sub> O)	Power (VA)	Power (W)
S8 COMPACT	5	17	8
	10	23	12
	15	29	16
	20	34	20

### Power outlet for HumidAire 3i

Outlet range: 100–240V, 50/60Hz; 110V, 400Hz; 2.0A

**Air Filter:** Two-layered, powder-bonded, polyester non-woven fiber

**Air Tubing:** Flexible plastic, 6'6" (2 m)

**Air Outlet:** The 22 mm conical outlet complies with EN 1281-1

**IEC 60601-1 Classifications:** Class II (double insulation), Type CF

**Noise Level:** Radiated sound pressure is measured at <30dBA at 10 cm H<sub>2</sub>O and 3'3.36" (1 m) according to ISO17510-1.

**Housing Construction:** Flame retardant engineering thermoplastic

### Environmental Conditions

Operating Temperature: +41°F to +104°F (+5°C to +40°C)

Operating Humidity: 10%–95% non-condensing

Storage and Transport Temperature: -4°F to +140°F (-20°C to +60°C)

Storage and Transport Humidity: 10%–95% non-condensing

Operating Altitude: sea level to 8500' (2591 m)



## Electromagnetic Compatibility

Product complies with all applicable electromagnetic compatibility requirements (EMC) according to IEC60601-1-2, for residential, commercial, and light industry environments. For further details, see "Guidance and Manufacturer's Declaration - Electromagnetic Emissions and Immunity" on page 24.

**Note:** *The manufacturer reserves the right to change these specifications without notice.*

### SYMBOLS WHICH APPEAR ON THE DEVICE



Attention, consult accompanying documents



Type CF equipment



Class II equipment



Drip proof



Dangerous voltage



Start/Stop

## GUIDANCE AND MANUFACTURER'S DECLARATION - ELECTROMAGNETIC EMISSIONS AND IMMUNITY

### Guidance and manufacturer's declaration—electromagnetic emissions

The S8 series of devices is intended for use in the electromagnetic environment specified below. The customer or the user of the S8 device should assure that the device is used in such an environment.

Emissions test	Compliance	Electromagnetic environment—guidance
RF emissions CISPR11	Group 1	The S8 device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The S8 device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage network that supplies buildings used for domestic purposes.
Harmonic Emissions IEC 61000-3-2	Class A	
Voltage Fluctuations/Flicker Emissions IEC 61000-3-3	Complies	

Medical Electrical Equipment needs special precautions regarding EMC and needs to be installed and put into service according to EMC information provided in this document.

**Warnings:** The S8 device should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, the S8 device should be observed to verify normal operation in the configuration in which it will be used.

The use of accessories (eg humidifiers) other than those specified in this manual is not recommended. They may result in increased emissions or decreased immunity of the S8 device.

### Guidance and manufacturer's declaration—electromagnetic immunity


The S8 series of devices is intended for use in the electromagnetic environment specified below. The customer or the user of the S8 device should assure that the device is used in such an environment.

Immunity test	IEC60601-1-2 test level	Compliance level	Electromagnetic environment—guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	±2 kV Not Applicable	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV differential mode ±2 kV common mode	±1 kV differential mode ±2 kV common mode	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines. IEC 61000-4-11	<5% Ut (>95% dip in Ut) for 0.5 cycle  40% Ut (60% dip in Ut) for 5 cycles  70% Ut (30% dip in Ut) for 25 cycles  <5% Ut (>95% dip in Ut) for 5 sec	< 12V (>95% dip in 240V) for 0.5 cycle  96V (60% dip in 240V) for 5 cycles  168V (30% dip in 240V) for 25 cycles  <12V (>95% dip in 240V) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the S8 device requires continued operation during power mains interruptions, it is recommended that the S8 device be powered from an uninterruptible power source.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE: Ut is the AC mains voltage prior to application of the test level.

## Guidance and manufacturer's declaration—electromagnetic immunity

The S8 series of devices is intended for use in the electromagnetic environment specified below. The customer or the user of the S8 device should assure that the device is used in such an environment.

Immunity test	IEC60601-1-2 test level	Compliance level	Electromagnetic environment—guidance
<p>Conducted RF IEC 61000-4-6</p> <p>Radiated RF IEC 61000-4-3</p>	<p>3 Vrms 150 kHz to 80 MHz</p> <p>10 V/m 80 MHz to 2.5 GHz</p>	<p>3 Vrms</p> <p>10 V/m</p>	<p>Portable and mobile RF communications equipment should be used no closer to any part of the S8 device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p><b>Recommended separation distance</b></p> <p><math>d = 1.17 \sqrt{P}</math></p> <p><math>d = 0.35 \sqrt{P}</math> 80 MHz to 800 MHz</p> <p><math>d = 0.70 \sqrt{P}</math> 800 MHz to 2.5 GHz</p> <p>where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,<sup>a</sup> should be less than the compliance level in each frequency range.<sup>b</sup></p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> <div style="text-align: center;">  </div>

NOTE 1: At 80 MHz and 800MHz, the higher frequency range applies.

NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

<sup>a</sup> Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the S8 device is used exceeds the applicable RF compliance level above, the S8 device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the S8 device.

<sup>b</sup> Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 10 V/m.

### Recommended separation distances between portable and mobile RF communications equipment and the S8 series of devices

The S8 series of devices is intended for use in an environment in which radiated RF disturbances are controlled. The customer or the user of the S8 device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the S8 device as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150kHz to 80MHz $d = 1.17 \sqrt{P}$	80 MHz to 800 MHz $d = 0.35 \sqrt{P}$	800MHz to 2.5 GHz $d = 0.7 \sqrt{P}$
0.01	0.17	0.04	0.07
0.1	0.37	0.11	0.22
1	1.17	0.35	0.7
10	3.69	1.11	2.21
100	11.70	3.50	7.0

For transmitters rated at a maximum output power not listed above, the recommended separation distance  $d$  in metres (m) can be determined using the equation applicable to the frequency of the transmitter, where  $P$  is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

# LIMITED WARRANTY

ResMed warrants that your ResMed product shall be free from defects in material and workmanship for the period specified below from the date of purchase by the initial consumer. This warranty is not transferable.

Product	Warranty Period
ResMed humidifiers, ResControl™, ResLink™	1 Year
ResMed flow generators	2 Years
Accessories, mask systems (including mask frame, cushion, headgear and tubing). Excludes single-use devices.	90 Days

**Note:** Some models are not available in all regions.

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;
- d) any damage caused by water being spilled on or into a flow generator.

To make a warranty claim, the initial consumer must return the defective product to the point of purchase, freight prepaid.

This warranty is in lieu of all other express 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 occurred as a result of 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.

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