

DreamStar™ Product Range



Upgradeable Humidifier Option

DreamStar™ Intro

DreamStar™ Info

DreamStar™ Auto

DreamStar™ Intro Evolve

DreamStar™ Info Evolve

DreamStar™ Auto Evolve

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BEFORE YOU START

Please read this manual carefully before using your DreamStar™ device so that you fully understand the limitations of this device.

Safety precautions

WARNING

This indicates in this manual a risk of injury or accident to you or to others.

- The DreamStar™ product range devices cannot be used without a medical prescription. Under no circumstances should you attempt to adjust prescribed settings without agreement of the medical team.
- Use the device only for the recommended use as described in this manual. Advice contained in this manual should not supersede instructions of your health professional.
- This device is not intended to provide assistance for vital functions.
- The DreamStar™ product range devices must only be used with the circuits, masks, fittings and accessories recommended by a physician or provided by your health care provider. Make sure the 'Directions for Use' instructions for each accessory are in the package and read them carefully.
- If you suspect that the device or one of its accessories is defective or damaged or not working properly, please contact your health care provider.
- Do not try to open the device (risk of electric shock). Maintenance of this equipment is to be performed by skilled personnel only. Please contact your health care provider.
- Place the device on a stable horizontal surface in a clean environment. Do not use the device if it has been set next to or on top of another device.
- Be careful not to obstruct the air outlet, or any other opening of the device or respiratory circuit, either accidentally or intentionally. Avoid placing the unit too close to a wall. Do not introduce liquids or objects into the air outlet.
- Please hold the device and the power cord away from any water source (electrocution hazard). Use the device and its accessories (power cords) only if they are dry and in working order.
- Keep the cord away from heated surfaces.
- If supplemental oxygen is to be introduced, carefully follow the instructions and safety precautions for using oxygen.
- Do not use this device near flammable vapors and in particular do not use the integrated heated humidifier near flammable anesthetics, whether they are present alone or in combination with other gases (explosion hazard).
- Once the mask is in place, make sure that the device produces an air flow. Never block the mask exhalation vent, which allows air to be expelled continually. When the device is operating, the air produced flushes the exhaled air out through the mask vent hole. When the device is not operating, insufficient fresh air is produced in the mask, presenting a risk of re-breathing exhaled air, which under certain circumstances could risk patient safety within several minutes.
- If the operation of the unit is defective and if the patient uses a nasal mask, the device resistance is low enough that the patient can exhale through the machine or even open his mouth. If a full face mask is used, the mask must have an anti-asphyxia valve.
- In case of power failure or malfunction, remove the mask.
- Do not leave long lengths of tubing on the bed. They could twist round your head or your neck while you are sleeping.

If your device is equipped with a water chamber:

- When using the water chamber, take precautions to eliminate the risk of introducing water into the device since this can cause irreversible damage. The device must be placed on a stable horizontal surface and must not be tilted.
- The humidifier has a plate that, like the base of the water chamber, may become hot during normal operation. Avoid touching them.
- The water chamber must be cleaned before the first use, after any technical intervention, and regularly thereafter, following the instructions provided under "Cleaning and Maintenance", on page 29.
- Always empty the water chamber before moving or transporting the device.
- Fill the water chamber away from the device to prevent water from flowing over it.
- Do not use the device if leakage is detected in the chamber, due for example to the deterioration of the gasket.
- The heated humidification feature must not be used where the ambient temperature is higher than 35°C (95°F) because the temperature of the air delivered to the patient could exceed 43°C (109.4°F), which could pose a risk of scalding the upper airways.
- There is a risk of air leakage if the water chamber or the cover is not reassembled correctly, which could cause the applied pressure to deviate from the prescribed pressure.

CAUTION

This indicates in this manual that there is a possibility of material damage to this device or any other device.

- If your device is equipped with a cover where the water chamber should be, the heated humidification feature must be disabled. Otherwise, the heating element of the device could continue to provide heat to the device, although it would not reach dangerous temperatures. However, if it is enabled, set the heat level to the minimum value, and alert your home care provider.
- Be sure to position the device in order to prevent anyone stumbling into or tripping over the power cord.
- If the device is placed on the ground, ensure it is in a place free from dust, bedding, clothing or other objects that could block air intake.
- Like all medical electrical devices, the DreamStar™ product range device is vulnerable to interference from mobile and portable radiofrequency communication equipment (mobile phones, Wi-Fi...).

Recommended use

The DreamStar™ product range devices are intended to treat patients suffering from Obstructive Sleep Apnea Syndrome (OSA) in patients over 30 kg (66 lbs.) and breathing spontaneously. They can be used at home or in a sleep center.

Contra-indications

Studies have shown that the use of positive pressure is contra-indicated in some patients with one of the following pre-existing conditions:

- Severe bullous emphysema or emphysema previously complicated by pneumothorax.
- Pneumoencephalus, trauma or recent surgery with sequela of cranio-nasopharyngeal fistula.
- Decompensated cardiac insufficiency or hypotension, particularly in case of decreased blood volume or cardiac arrhythmia.
- Dehydration.
- Massive epistaxis or history of massive epistaxis. Acute sinusitis, otitis media, or perforated tympanic membrane.
- Derivation of the upper airway.

Adverse effects

Please contact your health care professional if while using this DreamStar™ product range device, the following symptoms appear: dry airways or nose, skin sensitivity, runny nose, ear pain, discomfort sinus, daytime sleepiness, mood changes, disorientation, irritability or memory loss.

Verification of the elements of the system

The DreamStar™ product range device is delivered with the following components:

- carrying case
- tubing
- reusable filter
- cover (optional)
- detachable power supply cord
- memory card
- patient manual
- water chamber (optional)

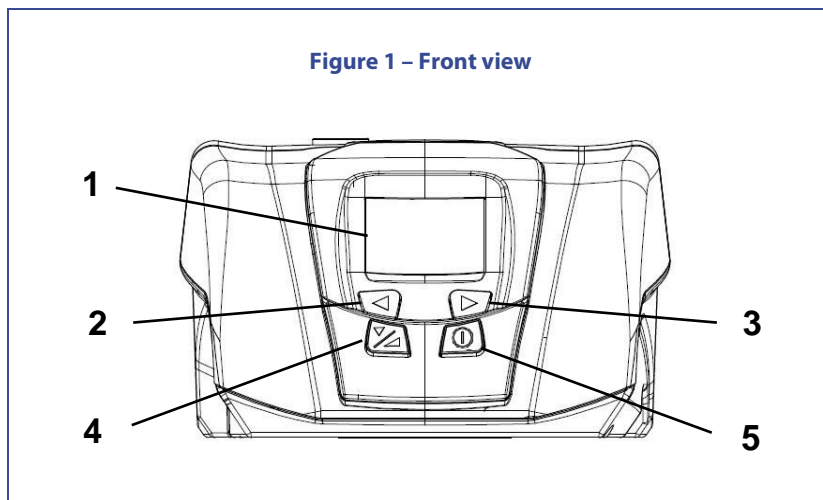
The DreamStar™ product range devices can be used with the following optional accessories. Contact your home care provider for additional information on available accessories. During use, follow the instructions provided with the accessories.

- battery cable
- filter holder kit
- cigarette-lighter cable
- optional high-efficiency filter (disposable)

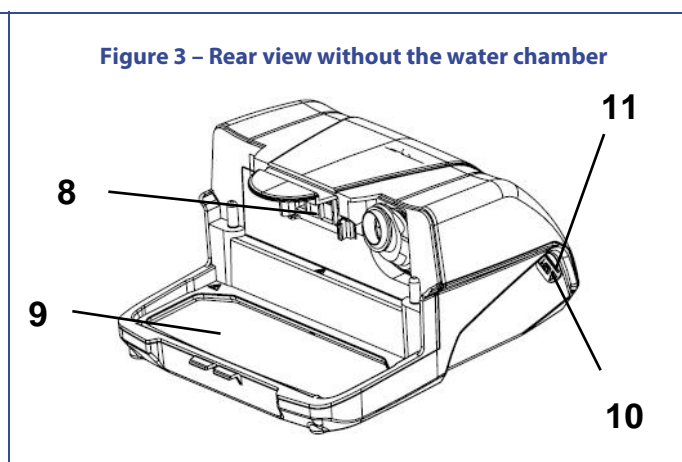
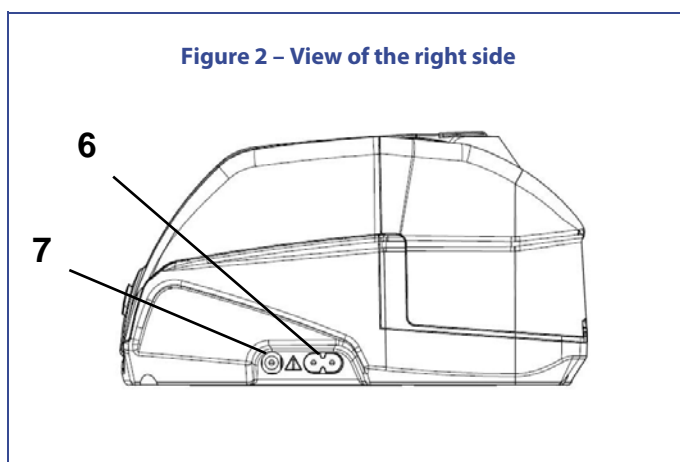
DEVICE DESCRIPTION

This DreamStar™ product range device is equipped with custom accessories and includes an integrated electrical power supply.

Views of the device



- | | | |
|----------|----------------------------------|---|
| 1 | Screen | Allows viewing the information. |
| 2 | Left control button | This allows the selection of the symbol displayed at the lower left of the screen. |
| 3 | Right control button | This allows the selection of the symbol displayed at the lower right of the screen. |
| 4 | Ramp and selection button | Provides access to ramp functions. It is also used to select the next parameter in the displayed menu during the device-settings. |
| 5 | On/off button | Turns the device on or off. It is used also to exit the device-setting menus. |



- | | | |
|-----------|-----------------------------------|--|
| 6 | Power port | This is where the power cord is connected. |
| 7 | External battery port | This allows the device to be powered by an external battery or a cigarette-lighter power cable. |
| 8 | Air intake filters | Prevent dust in the airflow from entering the device. |
| 9 | Heating element | The base of the heated humidifier is used to heat the water chamber. |
| 10 | Serial cable/USB connector | Available on Info and Auto devices, it is used by your physician or home care provider. Do not connect anything to it. |
| 11 | Memory card connector | Connector into which you can slide the memory card. |

Figure 4 - Rear view of a device with cover

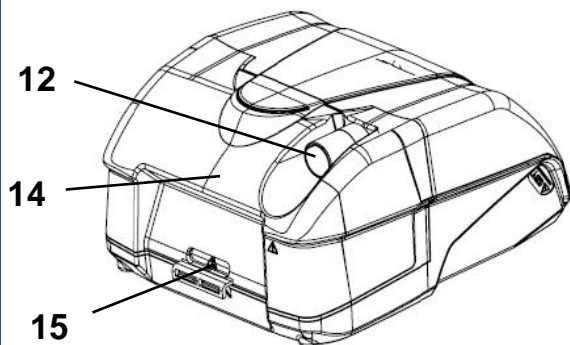
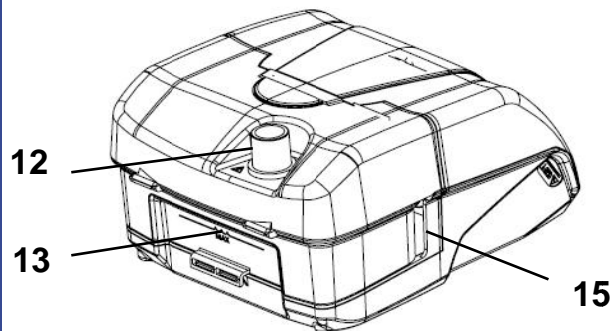


Figure 5 - Rear view of a device with water chamber



12 Outlet connector
(indicated by )

Air outlet to which the tubing will be connected.








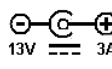


13 Water chamber (if included)

Water chamber in case of humidification, which is marked to show the maximum fill level for water.

14 Cover (if included)

15 Air inlet (indicated by )

Symbols on the device

Symbol	Description	Symbol	Description
	Symbol of On/off button.		Symbol of Ramp and selection button.
	Symbol of Left control button.		Symbol of Right control button.
IP11	Device protected against solid objects up to 50 mm (e.g. accidental touch by persons hands) and against vertically falling drops of water (e.g. condensation).		Waste device to be eliminated separately from the household waste. For further information, refer to the paragraph "Waste device elimination", page 36.
	Class II device.		Type BF device.
	DC power supply.		Consult use instructions before using this device.
CE 0459	Device complies with the requirements of European Directive 93/42/EC on medical devices.		Recording and play back.

INSTALLATION

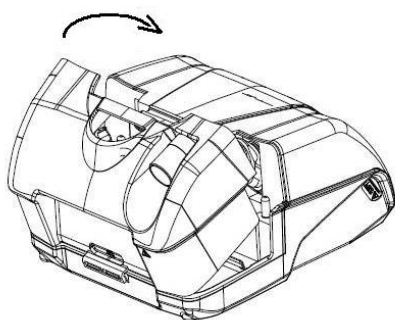
Standard installation of the device

The device is delivered with either a cover (configuration A) or with a water chamber (configuration B).

1. Installation of the cover or the water chamber

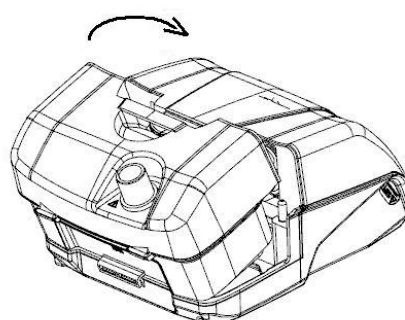
A. Device with cover

Snap the cover onto the base at the rear of the device and tilt the cover forward to lock.



B. Device with water chamber

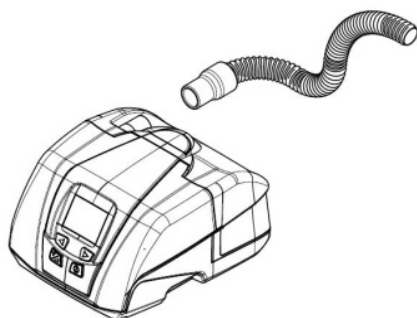
Attach the water chamber base to the heating element and tip the water chamber forward to lock it in place.



2. Connecting the patient circuit

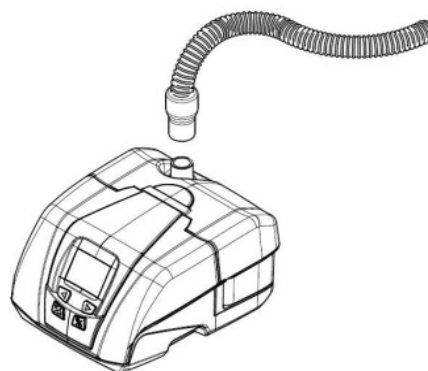
A. Device with cover

Connect one end of the patient circuit to the outlet connector on the back of the rear cover of the device.



B. Device with water chamber

Connect one end of the patient circuit to the outlet connector on the top of the water chamber cover.




3. Prepare the mask according to the instructions provided in the operating instructions that came with the mask. Connect the mask to the other end of the patient circuit.
4. Plug the end of the power cord into the power input of the device and the other end into the power source.

5. At the first power-on, the screen lights up and displays the language setting screen:



Press the right control button  or the left control button  as many times as necessary to display the desired language.

After the language is selected, press the on/off button  to return to the page header, then press this button a second time to exit the menu.

6. The display shows the time and date. The device is ready to operate.

WARNING

There is a risk of air leakage if the water chamber or the cover is not installed correctly, which could cause the applied pressure to deviate from the prescribed pressure.

Installation for use with battery power or (optional) cigarette-lighter cable

The DreamStar™ product range device can be powered by a rechargeable 12 volt optional special battery by connecting the battery cable to the inlet of the external battery of the device (item 7 of Figure 2 page 6).

The device can also be powered from a cigarette-lighter socket using an optional cable specially designed for this purpose. For this configuration, replace Step 4 of the standard installation procedure with the following step:

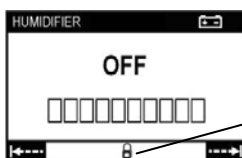
- Connect the power cable to the input of the external battery of the device (Item 7 of Figure 2 page 6) and the other end of the cable directly to the cigarette lighter socket.

Continue with steps 4 through 6 of the standard installation procedure.

CAUTION

- Do not use a battery power cable other than the one supplied with the battery.
- Do not connect the battery power cable to a 24 volt cigarette-lighter cable.
- Do not use a 24 volt battery.
- Do not connect to the DreamStar™ product range device a 12-volt power supply plugged in the mains.

Note: When the device is battery-powered, the heated humidification feature (if included) cannot be used and the following screen page is displayed after the settings button has been pressed:



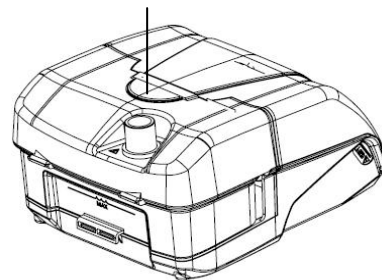
Indicates that the humidifier is not functioning because it under battery power.

OPERATION

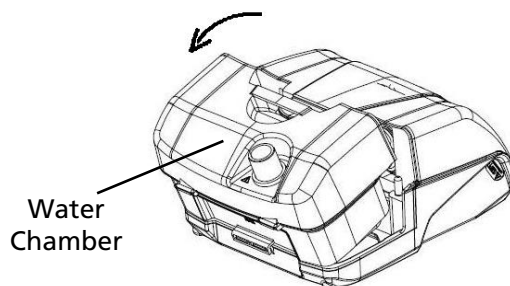
Filling the water chamber (if included)

1. Switch off the device and remove the patient tubing. Press with your fingers at the "Push" marking on the top of the unit to separate the water chamber from the device.

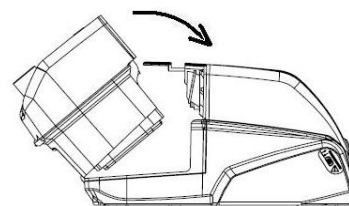
"Push" marking



2. Tip the tank back and remove the tank from the device.




3. Fill the water chamber (through the upper orifice) to the maximum level mark.
4. Reattach the water chamber to the rear of the device.



CAUTION


- Be careful not to exceed the maximum fill level.
- Do not add any other product to the water in the water chamber.
- Do not use alkaline solution (physiological saline solution).
- Use only room temperature water; do not fill the water chamber with hot or chilled water.

Starting Treatment

1. Put your mask on as described in the user instructions.
2. To start treatment, press the on/off button . The device screen displays the delivered pressure.
3. If the message "MASK UNPLUGGED" displays on the screen, this means that the mask is not connected properly. Reposition your mask correctly to eliminate the leaks, and press any of the four buttons on the front of the device. The device will restore the pressure set and the message "MASK UNPLUGGED" will disappear. Otherwise, the device will stop after 30 minutes.
4. Lie down and place the tubing so that it can follow your movements while you sleep.
5. The symbols that may be displayed on the screen are summarized in the table entitled "Description of symbols displayed on the screen" on page 12.
6. In the event that the humidification function has been activated on your device, the heated humidifier turns on automatically.

Note: Following a power supply interruption, the device is in the same mode it was in (on/off) when it was disconnected.

Stopping Treatment

1. Remove the mask.
2. Turn off the DreamStar™ product range device by pressing the on/off button  for several seconds.

Accessing the device menu

The four buttons on the front of the device allow you to access the device settings menu, scroll through different pages, or possibly modify the value of certain parameters within these pages.

The parameters are accessible when the machine is in standby or operating mode.

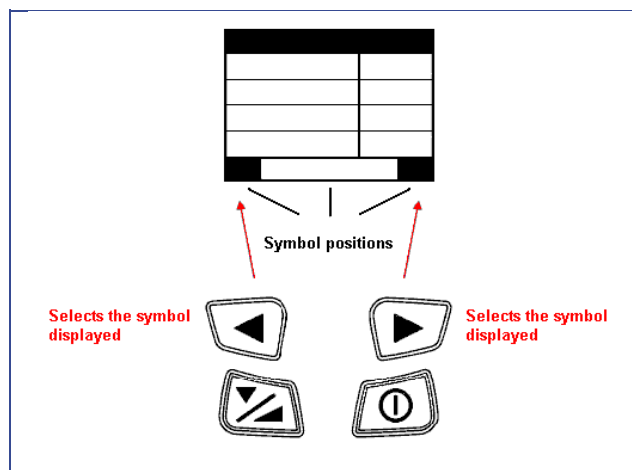
The parameters that are accessible are grouped on several screen pages indicating:

- device settings related to prescribed treatment
- general device settings, such as date and time
- recorded compliance data
- reminders
























Description of a screen page

Each screen page includes:

- a first line or page header
- up to 4 parameter lines with associated values
- a final line showing the various symbols used for such features as changing a parameter value, moving about a page, or moving from page to page (see table entitled "Description of symbols displayed on the screen").



Description of symbols displayed on the screen

Symbol	Description	Symbol	Description
	Access to device information.		Access to device settings.
	Provides access to the next page available for display on the screen.		Provides access to the preceding page displayed on the screen.
	Allows the value of the parameter displayed on the screen to be raised.		Allows the value of the parameter displayed on the screen to be lowered.
	The heated humidification feature is activated without heat or on a device connected to a battery.		Heated humidification feature enabled with heat. The symbol blinks if the heated humidifier has a problem.
	Parameters displayed on the screen can be changed.		Parameters displayed on the screen are for information and cannot be changed.
	Feature enabled.		Feature disabled.
	YES.		NO.
	Ramp feature in CPAP mode. The symbol blinks when the ramp feature is selected but still disabled.		In Auto-CPAP mode, wait time. The symbol blinks before the Auto-CPAP is activated.
C	CPAP operating mode, on the DreamStar™ Auto or DreamStar™ Auto Evolve.	A	Auto-CPAP operating mode, on the DreamStar™ Auto or DreamStar™ Auto Evolve.
	Comfort Calibration feature enabled on DreamStar™ Info or DreamStar™ Auto (or equivalent in Evolve configuration).		Indicates that compliance is being recorded.
	The symbol blinks when one or several patient reminders are about to expire.		Memory card present. The symbol blinks if the memory card is not operational.
DD/MM/YYYY	The dates displayed by the device are in the format day/month/year.		Indicates that a battery is connected.
	The device has detected an operating error. The symbol displays alternately with the error code.		Indicates that a remote control is connected.

For settings specific to the **DreamStar™ Intro** or **DreamStar™ Intro Evolve** device, see "How to set the DreamStar™ Intro or DreamStar™ Intro Evolve device", on page 15.

For settings specific to the **DreamStar™ Info** or **DreamStar™ Info Evolve** device, see "How to set the DreamStar™ Info or DreamStar™ Info Evolve device", on page 18.

For settings specific to the **DreamStar™ Auto** or **DreamStar™ Auto Evolve** device, see "How to set the DreamStar™ Auto or DreamStar™ Auto Evolve device", on page 21.

The General Information menu for the devices is described on page 26.

Available features

The DreamStar™ Intro and DreamStar™ Info devices (and equivalent in Evolve configuration) operate in continuous mode (CPAP), i.e. the device delivers a constant pressure level throughout the night. The DreamStar™ Auto or DreamStar™ Auto Evolve device operates in either constant mode (CPAP) or in automatic mode (Auto-CPAP), the device monitors your breathing while you sleep and adjusts the pressure to suit your needs.

The device includes an integrated power supply and can be equipped with a humidification function (Evolve configuration), which can be enabled or disabled by the home care provider.

The patient reminder feature can help you remember events, such as filter and mask changes, device inspections, and memory card compliance data downloads on the memory card. This feature, which is identical on all of devices in the product range, is described under "Reminders about to expire", on page 27.

Ramp feature

If enabled by your home care provider, the Ramp feature allows for a gradual rise in pressure to help you go to sleep: the treatment begins at a reduced pressure called comfort pressure, then the pressure increases to treatment pressure. In Auto-CPAP mode, the Ramp feature allows you to delay the commands to raise or lower the pressure.

Pressure Alter

If it is enabled by the physician or home care provider, this feature provides the option to change the prescribed pressure by ± 1 cmH₂O.

Note: This feature is only available in CPAP mode.

Comfort Calibration +

If enabled by the physician or home care provider, the Comfort Calibration + feature (C.C.+) available on DreamStar™ Info and DreamStar™ Auto (and equivalent in Evolve configuration), aims to increase the treatment pressure during inspiration and to decrease it during expiration to make the breathing more comfortable during the treatment.

Transporting the device

Unplug the device and disconnect the accessories from the device. Store them in the carrying case.

DreamStar™ or DreamStar™ Evolve device with cover

You must separate the cover from the device. Detach the cover from the machine by pressing on "Push" at the top of the device. Then, lift the cover back and remove it from the device. Place the cover and the device in the separate compartments of the carrying case.

DreamStar™ Evolve device with water chamber


You must remove the water chamber from the device and drain it. Detach the water chamber from the machine by pressing on "Push" at the top of the device. Then, lift the water chamber back and remove it from the device. Disassemble it by following the instructions under "Cleaning and Maintenance", on page 29 and empty the water chamber completely. Place the chamber and the device in the separate compartments of the carrying case.

CAUTION

To eliminate any risk of introducing water into the device and thereby causing irreversible damage, the water chamber must be completely emptied before moving or transporting the device.

Using a memory card

An external storage medium can be used either to store the most recent compliance data stored in the device, or to update your device's setting parameters. Refer to the instructions given by your home care provider to use this card.

If the device is running, turn it off before you insert the memory card into the memory card connector: the symbol  appears to the right of the display header. If this symbol flashes, the card is inserted incorrectly, or inserted upside down, or it is not operational. Reinsert it correctly, and if the symbol is still flashing, contact your home care provider.

Updating Settings

If the care provider has configured the memory card to update the settings of the machine, the device will start automatically when inserting the card into it. Once the update is complete, a message appears asking to remove the card. Remove it. This operation can be performed only once.

Data Backup






Data backup starts automatically when inserting the card into the machine. An indicator allows the progress of the data downloaded to be monitored. Once the data has been recorded, a message displays on the device "DOWNLOAD FINISHED. REMOVE MEMORY CARD." The memory card can then be given to your home care provider.



Notes:





- The backup data and update settings functions are only accessible if the device is in standby.
- If the card is left inside the device, the machine cannot be turned on and no feature can be accessed.


HOW TO SET THE DREAMSTAR™ INTRO OR DREAMSTAR™ INTRO EVOLVE DEVICE

To access the device settings, press the right control button  to select the symbol  displayed on the screen. In the Settings page display:

- The symbol  at the bottom of the screen indicates that it is impossible to change the parameters displayed.
- The symbol  at the bottom of the screen indicates that the parameters displayed can be changed:
 - Select the parameter to change by pressing the ramp button as many times as it is necessary .
 - Increase  or decrease  the parameter value by pressing the control buttons.

To return to the page header, press the ramp button  at the bottom of the page or the on/off button .


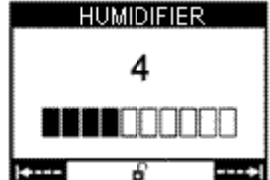

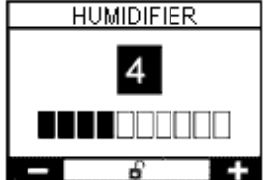


To move from one settings page to another, select the symbol  displayed on the screen by pressing the right control button . To return to the previous page, select the symbol  by pressing the left control button .



To exit the settings menu, press the on/off button  or wait 30 seconds.

Note: In the following pages, the values displayed are given by way of example.

1) Heat level (if the water chamber is included)

This page displays only when your home care provider has enabled the device's heated humidification feature.

<p>① Press  in standby mode.</p>	<p>② The page displays: </p>	<p>③ Press  to select the setting.</p>	<p>④ The page changes: </p>	<p>⑤ Increase  or decrease  the parameter value with the right or left parameter settings button.</p>
--	---	--	---	---



⑥ Press  at the bottom of the page or  to return to the page header.


⑦ Press  to move to the next page.

Note: When the device is battery-powered, the heated humidification feature cannot be used (see paragraph "Installation for use with battery power or (optional) cigarette-lighter cable page 9).

2) Settings

This page displays only if the ramp feature and (or) the Pressure Alter feature were activated by the home care provider.

<p>①</p> <p>The page displays:</p> <table border="1"> <thead> <tr> <th colspan="2">SETTINGS</th> </tr> </thead> <tbody> <tr> <td>COMFORT PRESSURE</td> <td>6.0 cmH₂O</td> </tr> <tr> <td>RAMP TIME</td> <td>20 min</td> </tr> <tr> <td>PRESSURE</td> <td>8.0 cmH₂O</td> </tr> <tr> <td colspan="2"> ←--- ---→ </td> </tr> </tbody> </table>	SETTINGS		COMFORT PRESSURE	6.0 cmH ₂ O	RAMP TIME	20 min	PRESSURE	8.0 cmH ₂ O	←--- ---→		<p>②</p> <p>Press</p>  <p>as many times as necessary to access the desired parameter setting.</p>	<p>③</p> <p>The page changes:</p> <table border="1"> <thead> <tr> <th colspan="2">SETTINGS</th> </tr> </thead> <tbody> <tr> <td>COMFORT PRESSURE</td> <td>6.0 cmH₂O</td> </tr> <tr> <td>RAMP TIME</td> <td>20 min</td> </tr> <tr> <td>PRESSURE</td> <td>8.0 cmH₂O</td> </tr> <tr> <td colspan="2"> ←--- ---→ </td> </tr> </tbody> </table>	SETTINGS		COMFORT PRESSURE	6.0 cmH ₂ O	RAMP TIME	20 min	PRESSURE	8.0 cmH ₂ O	←--- ---→		<p>④</p> <p>Increase + or decrease - the parameter value with the right or left parameter settings button.</p> <p>Then press  to access the next menu parameter.</p>
SETTINGS																							
COMFORT PRESSURE	6.0 cmH ₂ O																						
RAMP TIME	20 min																						
PRESSURE	8.0 cmH ₂ O																						
←--- ---→																							
SETTINGS																							
COMFORT PRESSURE	6.0 cmH ₂ O																						
RAMP TIME	20 min																						
PRESSURE	8.0 cmH ₂ O																						
←--- ---→																							

⑤ Press  at the bottom of the page or  to return to the page header.

⑥ Press  to move to the next page.

Comfort pressure: Level of pressure produced by the device when the ramp feature starts up.

Ramp time: Time the device takes to reach the prescribed pressure when starting from the comfort pressure.

Set pressure: Level of pressure prescribed, which may be altered by ± 1 cmH₂O.

Note: Adjusting the ramp time is also accessible by pressing the ramp button when the device is in standby only.

3) Set Parameters Display

<p>①</p> <p>The page displays:</p> <table border="1"> <thead> <tr> <th colspan="2">PARAMETERS</th> </tr> </thead> <tbody> <tr> <td>PRESCRIBED P</td> <td>8.0 cmH₂O</td> </tr> <tr> <td>PRESSURE ALTER</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>MAX RAMP TIME</td> <td>45 min</td> </tr> <tr> <td colspan="2"> ←--- ---→ </td> </tr> </tbody> </table>	PARAMETERS		PRESCRIBED P	8.0 cmH ₂ O	PRESSURE ALTER	<input checked="" type="checkbox"/>	MAX RAMP TIME	45 min	←--- ---→		<p>Prescribed P.: Level of pressure prescribed by your physician.</p> <p>Pressure Alter: The <input checked="" type="checkbox"/> symbol shows that the feature has been enabled by the home care provider.</p> <p>Max ramp time: Maximum ramp time set by the home care provider.</p>
PARAMETERS											
PRESCRIBED P	8.0 cmH ₂ O										
PRESSURE ALTER	<input checked="" type="checkbox"/>										
MAX RAMP TIME	45 min										
←--- ---→											

② Press  to move to the next page.

4) Set Patient Reminders display

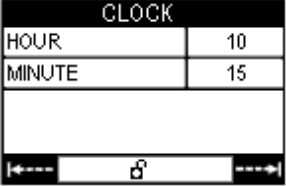

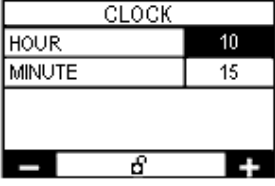

This page displays only if the home care provider has activated a reminder to remind you for example to replace the filter or the mask.



<p>①</p> <p>The page displays:</p> <table border="1"> <thead> <tr> <th colspan="2">REMINDER</th> </tr> </thead> <tbody> <tr> <td>FILTER</td> <td>15.05.2012</td> </tr> <tr> <td>MASK</td> <td>15.09.2012</td> </tr> <tr> <td>MAINTENANCE</td> <td>10.03.2013</td> </tr> <tr> <td>MEMORY CARD</td> <td>10.06.2012</td> </tr> <tr> <td colspan="2"> ←--- ---→ </td> </tr> </tbody> </table>	REMINDER		FILTER	15.05.2012	MASK	15.09.2012	MAINTENANCE	10.03.2013	MEMORY CARD	10.06.2012	←--- ---→		<p>The reminder activation date is shown opposite the corresponding reminder.</p>
REMINDER													
FILTER	15.05.2012												
MASK	15.09.2012												
MAINTENANCE	10.03.2013												
MEMORY CARD	10.06.2012												
←--- ---→													

② Press  to move to the next page.

5) Setting the clock

The time can be set when the device is in standby only.

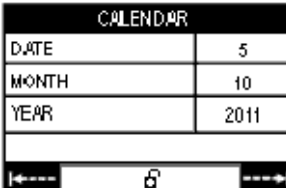

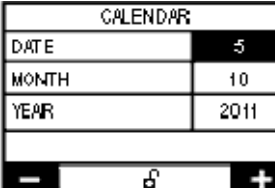

<p>①</p> <p>The page displays:</p> 	<p>②</p> <p>Press</p>  <p>as many times as necessary to access the desired parameter setting.</p>	<p>③</p> <p>The page changes:</p> 	<p>④</p> <p>Increase + or decrease - the parameter value with the right or left parameter settings button.</p> <p>Then press  to access the next menu parameter.</p>
--	---	---	---



⑤ Press  at the bottom of the page or  to return to the page header.

⑥ Press  to move to the next page.

6) Setting the date



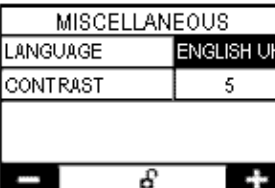

The date can be set when the device is in standby only.



<p>①</p> <p>The page displays:</p> 	<p>②</p> <p>Press</p>  <p>as many times as necessary to access the desired parameter setting.</p>	<p>③</p> <p>The page changes:</p> 	<p>④</p> <p>Increase + or decrease - the parameter value with the right or left parameter settings button.</p> <p>Then press  to access the next menu parameter.</p>
--	---	---	---


⑤ Press  at the bottom of the page or  to return to the page header.

⑥ Press  to move to the next page.


7) Miscellaneous Settings






<p>①</p> <p>The page displays:</p> 	<p>②</p> <p>Press</p>  <p>as many times as necessary to access the desired parameter setting.</p>	<p>③</p> <p>The page changes:</p> 	<p>④</p> <p>The language can be selected by successive presses on the left or right parameters settings button.</p> <p>Then press  to access the contrast.</p> <p>Increase + or decrease - the contrast with the right or left parameter settings button.</p>
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⑤ Press  at the bottom of the page or  to return to the page header.





⑥ Press  to exit the menu.


HOW TO SET THE DREAMSTAR™ INFO OR DREAMSTAR™ INFO EVOLVE DEVICE

To access the device settings, press the right control button  to select the symbol  displayed on the screen. In the Settings page display:

- The symbol  at the bottom of the screen indicates that it is impossible to change the parameters displayed.
- The symbol  at the bottom of the screen indicates that the parameters displayed can be changed:
 - Select the parameter to change by pressing the ramp button as many times as it is necessary .
 - Increase  or decrease  the parameter value by pressing the control buttons.

To return to the page header, press the ramp button  at the bottom of the page or the on/off button .


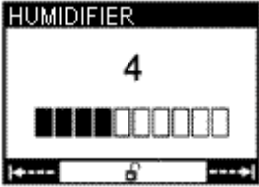

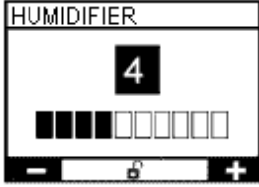


To move from one settings page to another, select the symbol  displayed on the screen by pressing the right control button . To return to the previous page, select the symbol  by pressing the left control button .



To exit the settings menu, press the on/off button  or wait 30 seconds.

Note: In the following pages, the values displayed are given by way of example.

1) Heat level (if the water chamber is included)

This page displays only your home care provider has enabled the device's heated humidification feature.

① Press  in standby or operating mode.	② The page displays: 	③ Press  to select the setting.	④ The page changes: 	⑤ Increase  or decrease  the parameter value with the right or left parameter settings button.
--	--	---	--	--





⑥ Press  at the bottom of the page or  to return to the page header.



⑦ Press  to move to the next page.

Note: When the device is battery-powered, the heated humidification feature cannot be used (see paragraph "Installation for use with battery power or (optional) cigarette-lighter cable page 9).

2) Settings

This page displays only if the ramp feature and (or) the Pressure Alter feature and (or) the Comfort Calibration + feature were activated by the home care provider.

<p style="text-align: center;">①</p> <p>The page displays:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="2" style="background-color: #333; color: white;">SETTINGS</th></tr> <tr><td>C.C.+</td><td style="text-align: right;">OFF</td></tr> <tr><td>COMFORT PRESSURE</td><td style="text-align: right;">6.0 cmH₂O</td></tr> <tr><td>RAMP TIME</td><td style="text-align: right;">15 min</td></tr> <tr><td>PRESSURE</td><td style="text-align: right;">8.0 cmH₂O</td></tr> <tr><td colspan="2" style="text-align: center;">←----- -----→</td></tr> </table>	SETTINGS		C.C.+	OFF	COMFORT PRESSURE	6.0 cmH ₂ O	RAMP TIME	15 min	PRESSURE	8.0 cmH ₂ O	←----- -----→		<p style="text-align: center;">②</p> <p style="text-align: center;">Press</p> <p style="text-align: center;"></p> <p>as many times as necessary to access the desired parameter setting.</p>	<p style="text-align: center;">③</p> <p>The page changes:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="2" style="background-color: #333; color: white;">SETTINGS</th></tr> <tr><td>C.C.+</td><td style="text-align: right;">OFF</td></tr> <tr><td>COMFORT PRESSURE</td><td style="text-align: right;">6.0 cmH₂O</td></tr> <tr><td>RAMP TIME</td><td style="text-align: right;">15 min</td></tr> <tr><td>PRESSURE</td><td style="text-align: right;">8.0 cmH₂O</td></tr> <tr><td colspan="2" style="text-align: center;">←----- -----→</td></tr> </table>	SETTINGS		C.C.+	OFF	COMFORT PRESSURE	6.0 cmH ₂ O	RAMP TIME	15 min	PRESSURE	8.0 cmH ₂ O	←----- -----→		<p style="text-align: center;">④</p> <p>If the Comfort Calibration (C.C.+) is disabled (OFF), you can enable it (ON) by pressing the left or right parameter settings button.</p> <p>Then press  to access the next menu parameter.</p> <p>Increase  or decrease  the parameter value with the right or left parameter settings button.</p>
SETTINGS																											
C.C.+	OFF																										
COMFORT PRESSURE	6.0 cmH ₂ O																										
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PRESSURE	8.0 cmH ₂ O																										
←----- -----→																											

⑤ Press  at the bottom of the page or  to return to the page header.

⑥ Press  to move to the next page.

C.C. +: Comfort Calibration +.

Comfort pressure: Level of pressure produced by the device when the ramp feature starts up.

Ramp time: Time the device takes to reach the prescribed pressure when starting from the comfort pressure.

Pressure: set pressure, level of pressure prescribed, which may be altered by ±1 cmH₂O.

Note: Adjusting the ramp time is also accessible by pressing the ramp button when the device is in standby only.

3) Set Parameters Display

<p style="text-align: center;">①</p> <p>The page displays:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="2" style="background-color: #333; color: white;">SETTINGS</th><th style="background-color: #333; color: white;">CPAP</th></tr> <tr><td>PRESCRIBED P.</td><td style="text-align: right;">8.0 cmH₂O</td><td></td></tr> <tr><td>PRESSURE ALTER</td><td style="text-align: right;"><input checked="" type="checkbox"/></td><td></td></tr> <tr><td>C.C.+</td><td style="text-align: right;"><input checked="" type="checkbox"/></td><td></td></tr> <tr><td>MAX RAMP TIME</td><td style="text-align: right;">45 min</td><td></td></tr> <tr><td colspan="3" style="text-align: center;">←----- -----→</td></tr> </table>	SETTINGS		CPAP	PRESCRIBED P.	8.0 cmH ₂ O		PRESSURE ALTER	<input checked="" type="checkbox"/>		C.C.+	<input checked="" type="checkbox"/>		MAX RAMP TIME	45 min		←----- -----→			<p>Prescribed P.: Level of pressure prescribed by your physician.</p> <p>Pressure Alter: The <input checked="" type="checkbox"/> symbol shows that the feature has been enabled by the home care provider.</p> <p>C.C. +: Comfort Calibration +. The <input checked="" type="checkbox"/> symbol shows that the feature has been enabled by the home care provider.</p> <p>Max ramp time: Maximum ramp time set by the home care provider.</p>
SETTINGS		CPAP																	
PRESCRIBED P.	8.0 cmH ₂ O																		
PRESSURE ALTER	<input checked="" type="checkbox"/>																		
C.C.+	<input checked="" type="checkbox"/>																		
MAX RAMP TIME	45 min																		
←----- -----→																			

② Press  to move to the next page.

4) Set Patient Reminders display



This page displays only if the home care provider has activated a reminder to remind you for example to replace the filter or the mask.

<p style="text-align: center;">①</p> <p>The page displays:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="2" style="background-color: #333; color: white;">REMINDER</th></tr> <tr><td>FILTER</td><td style="text-align: right;">15.05.2012</td></tr> <tr><td>MASK</td><td style="text-align: right;">15.09.2012</td></tr> <tr><td>SERVICE</td><td style="text-align: right;">10.03.2013</td></tr> <tr><td>MEMORY CARD</td><td style="text-align: right;">10.06.2012</td></tr> <tr><td colspan="2" style="text-align: center;">←----- -----→</td></tr> </table>	REMINDER		FILTER	15.05.2012	MASK	15.09.2012	SERVICE	10.03.2013	MEMORY CARD	10.06.2012	←----- -----→		<p>The reminder activation date is shown opposite the corresponding reminder.</p>
REMINDER													
FILTER	15.05.2012												
MASK	15.09.2012												
SERVICE	10.03.2013												
MEMORY CARD	10.06.2012												
←----- -----→													

② Press  to move to the next page.

5) Setting the clock

The time can be set when the device is in standby only.



<p>① The page displays:</p> <table border="1"> <tr><th colspan="2">CLOCK</th></tr> <tr><td>HOUR</td><td>10</td></tr> <tr><td>MINUTE</td><td>15</td></tr> <tr><td colspan="2"> </td></tr> <tr><td colspan="2"> ←--- ---→ </td></tr> </table>	CLOCK		HOUR	10	MINUTE	15			←--- ---→		<p>② Press</p>  <p>as many times as necessary to access the desired parameter setting.</p>	<p>③ The page changes:</p> <table border="1"> <tr><th colspan="2">CLOCK</th></tr> <tr><td>HOUR</td><td>10</td></tr> <tr><td>MINUTE</td><td>15</td></tr> <tr><td colspan="2"> </td></tr> <tr><td colspan="2">- +</td></tr> </table>	CLOCK		HOUR	10	MINUTE	15			- +		<p>④</p> <p>Increase + or decrease - the parameter value with the right or left parameter settings button.</p> <p>Then press  to access the next menu parameter.</p>
CLOCK																							
HOUR	10																						
MINUTE	15																						
←--- ---→																							
CLOCK																							
HOUR	10																						
MINUTE	15																						
- +																							



⑤ Press  at the bottom of the page or  to return to the page header.

⑥ Press  to move to the next page.

6) Setting the date



The date can be set when the device is in standby only.



<p>① The page displays:</p> <table border="1"> <tr><th colspan="2">CALENDAR</th></tr> <tr><td>DATE</td><td>5</td></tr> <tr><td>MONTH</td><td>11</td></tr> <tr><td>YEAR</td><td>2011</td></tr> <tr><td colspan="2"> </td></tr> <tr><td colspan="2"> ←--- ---→ </td></tr> </table>	CALENDAR		DATE	5	MONTH	11	YEAR	2011			←--- ---→		<p>② Press</p>  <p>as many times as necessary to access the desired parameter setting.</p>	<p>③ The page changes:</p> <table border="1"> <tr><th colspan="2">CALENDAR</th></tr> <tr><td>DATE</td><td>5</td></tr> <tr><td>MONTH</td><td>11</td></tr> <tr><td>YEAR</td><td>2011</td></tr> <tr><td colspan="2"> </td></tr> <tr><td colspan="2">- +</td></tr> </table>	CALENDAR		DATE	5	MONTH	11	YEAR	2011			- +		<p>④</p> <p>Increase + or decrease - the parameter value with the right or left parameter settings button.</p> <p>Then press  to access the next menu parameter.</p>
CALENDAR																											
DATE	5																										
MONTH	11																										
YEAR	2011																										
←--- ---→																											
CALENDAR																											
DATE	5																										
MONTH	11																										
YEAR	2011																										
- +																											


⑤ Press  at the bottom of the page or  to return to the page header.

⑥ Press  to move to the next page.

7) Miscellaneous Settings






<p>① The page displays:</p> <table border="1"> <tr><th colspan="2">MISCELLANEOUS</th></tr> <tr><td>LANGUAGE</td><td>ENGLISH UK</td></tr> <tr><td>CONTRAST</td><td>5</td></tr> <tr><td colspan="2"> </td></tr> <tr><td colspan="2"> ←--- ---→ </td></tr> </table>	MISCELLANEOUS		LANGUAGE	ENGLISH UK	CONTRAST	5			←--- ---→		<p>② Press</p>  <p>as many times as necessary to access the desired parameter setting.</p>	<p>③ The page changes:</p> <table border="1"> <tr><th colspan="2">MISCELLANEOUS</th></tr> <tr><td>LANGUAGE</td><td>ENGLISH UK</td></tr> <tr><td>CONTRAST</td><td>5</td></tr> <tr><td colspan="2"> </td></tr> <tr><td colspan="2">- +</td></tr> </table>	MISCELLANEOUS		LANGUAGE	ENGLISH UK	CONTRAST	5			- +		<p>④</p> <p>The language can be selected by successive presses on the left or right parameters settings button.</p> <p>Then press  to access the contrast.</p> <p>Increase + or decrease - the contrast with the right or left parameter settings button.</p>
MISCELLANEOUS																							
LANGUAGE	ENGLISH UK																						
CONTRAST	5																						
←--- ---→																							
MISCELLANEOUS																							
LANGUAGE	ENGLISH UK																						
CONTRAST	5																						
- +																							



⑤ Press  at the bottom of the page or  to return to the page header.





⑥ Press  to exit the menu.

HOW TO SET THE DREAMSTAR™ AUTO OR DREAMSTAR™ AUTO EVOLVE DEVICE

To access the device settings, press the right control button  to select the symbol  displayed on the screen. In the Settings page display:

- The symbol  at the bottom of the screen indicates that it is impossible to change the parameters displayed.
- The symbol  at the bottom of the screen indicates that the parameters displayed can be changed:
 - Select the parameter to change by pressing the ramp button as many times as it is necessary .
 - Increase  or decrease  the parameter value by pressing the control buttons.

To return to the page header, press the ramp button  at the bottom of the page or the on/off button .


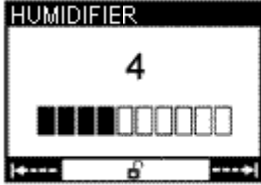

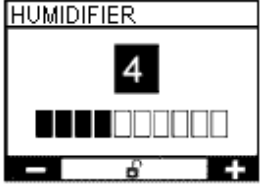


To move from one settings page to another, select the symbol  displayed on the screen by pressing the right control button . To return to the previous page, select the symbol  by pressing the left control button .



To exit the settings menu, press the on/off button  or wait 30 seconds.

Note: In the following pages, the values displayed are given by way of example.

1) Heat level (if the water chamber is included)

This page displays only your home care provider has enabled the device's heated humidification feature.

<p>① Press  in standby or operating mode.</p>	<p>② The page displays: </p>	<p>③ Press  to select the setting.</p>	<p>④ The page changes: </p>	<p>⑤ Increase  or decrease  the parameter value with the right or left parameter settings button.</p>
---	---	--	---	---

⑥ Press  at the bottom of the page or  to return to the page header.



⑦ Press  to move to the next page.



Note: When the device is battery-powered, the heated humidification feature cannot be used (see paragraph "Installation for use with battery power or (optional) cigarette-lighter cable page 9).

2) Settings

In CPAP mode

This page displays only if the ramp feature and (or) the Pressure Alter feature and (or) the Comfort Calibration + feature were activated by the home care provider.

①	②	③	④																				
<p>The page displays:</p> <table border="1"> <thead> <tr> <th>SETTINGS</th> <th>CPAP</th> </tr> </thead> <tbody> <tr> <td>C.C.+</td> <td>OFF</td> </tr> <tr> <td>COMFORT PRESSURE</td> <td>6.0 cmH₂O</td> </tr> <tr> <td>RAMP TIME</td> <td>15 min</td> </tr> <tr> <td>PRESSURE</td> <td>8.0 cmH₂O</td> </tr> </tbody> </table>	SETTINGS	CPAP	C.C.+	OFF	COMFORT PRESSURE	6.0 cmH ₂ O	RAMP TIME	15 min	PRESSURE	8.0 cmH ₂ O	<p>Press</p>  <p>as many times as necessary to access the desired parameter setting.</p>	<p>The page changes:</p> <table border="1"> <thead> <tr> <th>SETTINGS</th> <th>CPAP</th> </tr> </thead> <tbody> <tr> <td>C.C.+</td> <td>OFF</td> </tr> <tr> <td>COMFORT PRESSURE</td> <td>6.0 cmH₂O</td> </tr> <tr> <td>RAMP TIME</td> <td>15 min</td> </tr> <tr> <td>PRESSURE</td> <td>8.0 cmH₂O</td> </tr> </tbody> </table>	SETTINGS	CPAP	C.C.+	OFF	COMFORT PRESSURE	6.0 cmH ₂ O	RAMP TIME	15 min	PRESSURE	8.0 cmH ₂ O	<p>If the Comfort Calibration (C.C.+) is disabled (OFF), you can enable it (ON).by pressing the left or right parameter settings button.</p> <p>Press  to access the next menu parameter.</p> <p>Increase + or decrease - the parameter value with the right or left parameter settings button.</p>
SETTINGS	CPAP																						
C.C.+	OFF																						
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PRESSURE	8.0 cmH ₂ O																						

⑤ Press  at the bottom of the page or  to return to the page header.

⑥ Press  to move to the next page.

C.C. +: Comfort Calibration +.

Comfort pressure: Level of pressure produced by the device when the ramp feature starts up.



Ramp time: Time the device takes to reach the prescribed pressure when starting from the comfort pressure.



Pressure: set pressure, level of pressure prescribed, which may be altered by ± 1 cmH₂O.

Note: Adjusting the ramp time is also accessible by pressing the ramp button when the device is in standby only.

In Auto-CPAP mode

This page displays only if the ramp feature and (or) the calibration feature were activated by the home care provider.

①	②	③	④																
<p>The page displays:</p> <table border="1"> <thead> <tr> <th>SETTINGS</th> <th>AUTO</th> </tr> </thead> <tbody> <tr> <td>C.C.+</td> <td>OFF</td> </tr> <tr> <td>COMFORT PRESSURE</td> <td>6.0 cmH₂O</td> </tr> <tr> <td>LATENCY TIME</td> <td>15 min</td> </tr> </tbody> </table>	SETTINGS	AUTO	C.C.+	OFF	COMFORT PRESSURE	6.0 cmH ₂ O	LATENCY TIME	15 min	<p>Press</p>  <p>as many times as necessary to access the desired parameter setting.</p>	<p>The page changes:</p> <table border="1"> <thead> <tr> <th>SETTINGS</th> <th>AUTO</th> </tr> </thead> <tbody> <tr> <td>C.C.+</td> <td>OFF</td> </tr> <tr> <td>COMFORT PRESSURE</td> <td>6.0 cmH₂O</td> </tr> <tr> <td>LATENCY TIME</td> <td>15 min</td> </tr> </tbody> </table>	SETTINGS	AUTO	C.C.+	OFF	COMFORT PRESSURE	6.0 cmH ₂ O	LATENCY TIME	15 min	<p>If the Comfort Calibration (C.C.+) is disabled (OFF), you can enable it (ON).by pressing the left or right parameter settings button.</p> <p>Press  to access the next menu parameter.</p> <p>Increase + or decrease - the parameter value with the right or left parameter settings button.</p>
SETTINGS	AUTO																		
C.C.+	OFF																		
COMFORT PRESSURE	6.0 cmH ₂ O																		
LATENCY TIME	15 min																		
SETTINGS	AUTO																		
C.C.+	OFF																		
COMFORT PRESSURE	6.0 cmH ₂ O																		
LATENCY TIME	15 min																		

⑤ Press  at the bottom of the page or  to return to the page header.

⑥ Press  to move to the next page.

C.C. +: Comfort Calibration +.

Comfort pressure: Level of pressure produced by the device when the ramp feature starts up or when the device detects that there has been no respiratory cycle for more than 2 minutes.

Latency time: Time the device takes to reach the comfort pressure upon which Auto-CPAP mode is activated.

Note: Adjusting the latency time is also accessible by pressing the ramp button when the device is in standby only.

3) Set Parameters Display

In CPAP mode

①	<p>The page displays:</p> <table border="1"> <thead> <tr> <th>SETTINGS</th> <th>CPAP</th> </tr> </thead> <tbody> <tr> <td>PRESCRIBED P.</td> <td>8.0 cmH₂O</td> </tr> <tr> <td>PRESSURE ALTER</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>C.C.+</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>MAX RAMP TIME</td> <td>45 min</td> </tr> </tbody> </table>	SETTINGS	CPAP	PRESCRIBED P.	8.0 cmH ₂ O	PRESSURE ALTER	<input checked="" type="checkbox"/>	C.C.+	<input checked="" type="checkbox"/>	MAX RAMP TIME	45 min	<p>Prescribed P.: Level of pressure prescribed by your physician.</p> <p>Pressure Alter: The <input checked="" type="checkbox"/> symbol shows that the feature has been enabled by the home care provider.</p> <p>C.C. +: Comfort Calibration +. The <input checked="" type="checkbox"/> symbol shows that the feature has been enabled by the home care provider.</p> <p>Max ramp time: Maximum ramp time set by the home care provider.</p>
SETTINGS	CPAP											
PRESCRIBED P.	8.0 cmH ₂ O											
PRESSURE ALTER	<input checked="" type="checkbox"/>											
C.C.+	<input checked="" type="checkbox"/>											
MAX RAMP TIME	45 min											

② Press  to move to the next page.

In Auto-CPAP mode

①	<p>The page displays:</p> <table border="1"> <thead> <tr> <th>SETTINGS</th> <th>AUTO</th> </tr> </thead> <tbody> <tr> <td>C.C.+</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>MAX LATENCY TIME</td> <td>45 min</td> </tr> <tr> <td>MIN. PRESSURE</td> <td>4.0cmH₂O</td> </tr> <tr> <td>MAX. PRESSURE</td> <td>20.0cmH₂O</td> </tr> </tbody> </table>	SETTINGS	AUTO	C.C.+	<input checked="" type="checkbox"/>	MAX LATENCY TIME	45 min	MIN. PRESSURE	4.0cmH ₂ O	MAX. PRESSURE	20.0cmH ₂ O	<p>C.C. +: Comfort Calibration +. The <input checked="" type="checkbox"/> symbol shows that the feature has been enabled by the home care provider.</p> <p>Max latency time: Maximum latency time set by the home care provider.</p> <p>Min. Pressure: minimum pressure level.</p> <p>Max. Pressure: maximum pressure level.</p>
SETTINGS	AUTO											
C.C.+	<input checked="" type="checkbox"/>											
MAX LATENCY TIME	45 min											
MIN. PRESSURE	4.0cmH ₂ O											
MAX. PRESSURE	20.0cmH ₂ O											

② Press  to move to the next page.

③	<p>The page displays:</p> <table border="1"> <thead> <tr> <th>PARAMETERS</th> <th></th> </tr> </thead> <tbody> <tr> <td>COMMAND ON IFL</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>MAX P. ON APNOEA</td> <td>10.0cmH₂O</td> </tr> <tr> <td>PRES. DECREASE</td> <td>FAST</td> </tr> </tbody> </table>	PARAMETERS		COMMAND ON IFL	<input checked="" type="checkbox"/>	MAX P. ON APNOEA	10.0cmH ₂ O	PRES. DECREASE	FAST	<p>Command on IFL: this command raises the pressure if the flow is restricted. The <input checked="" type="checkbox"/> symbol shows that the the feature has been enabled by the home care provider.</p> <p>Max. P on apnea: maximum pressure on apnea command.</p> <p>Pres. decrease: decrease in pressure, either Fast or Slow, set by the home care provider.</p>
PARAMETERS										
COMMAND ON IFL	<input checked="" type="checkbox"/>									
MAX P. ON APNOEA	10.0cmH ₂ O									
PRES. DECREASE	FAST									

④ Press  to move to the next page.

4) Set Patient Reminders display



This page displays only if the home care provider has activated a reminder to remind you for example to replace the filter or the mask.

①	<p>The page displays:</p> <table border="1"> <tr> <th colspan="2">REMINDER</th> </tr> <tr> <td>FILTER</td> <td>15.05.2012</td> </tr> <tr> <td>MASK</td> <td>15.09.2012</td> </tr> <tr> <td>SERVICE</td> <td>10.03.2013</td> </tr> <tr> <td>MEMORY CARD</td> <td>10.06.2012</td> </tr> <tr> <td colspan="2" style="text-align: center;">←--- 8 ---→</td> </tr> </table>	REMINDER		FILTER	15.05.2012	MASK	15.09.2012	SERVICE	10.03.2013	MEMORY CARD	10.06.2012	←--- 8 ---→		<p>The reminder activation date is shown opposite the corresponding reminder.</p>
REMINDER														
FILTER	15.05.2012													
MASK	15.09.2012													
SERVICE	10.03.2013													
MEMORY CARD	10.06.2012													
←--- 8 ---→														

② Press  to move to the next page.

5) Setting the clock

The time can be set when the device is in standby only.



①	②	③	④																
<p>The page displays:</p> <table border="1"> <tr> <th colspan="2">CLOCK</th> </tr> <tr> <td>HOUR</td> <td>10</td> </tr> <tr> <td>MINUTE</td> <td>15</td> </tr> <tr> <td colspan="2" style="text-align: center;">←--- 8 ---→</td> </tr> </table>	CLOCK		HOUR	10	MINUTE	15	←--- 8 ---→		<p>Press</p> <p></p> <p>as many times as necessary to access the desired parameter setting.</p>	<p>The page changes:</p> <table border="1"> <tr> <th colspan="2">CLOCK</th> </tr> <tr> <td>HOUR</td> <td>10</td> </tr> <tr> <td>MINUTE</td> <td>15</td> </tr> <tr> <td colspan="2" style="text-align: center;">- 8 +</td> </tr> </table>	CLOCK		HOUR	10	MINUTE	15	- 8 +		<p>Increase + or decrease - the parameter value with the right or left parameter settings button.</p> <p>Then press  to access the next menu parameter.</p>
CLOCK																			
HOUR	10																		
MINUTE	15																		
←--- 8 ---→																			
CLOCK																			
HOUR	10																		
MINUTE	15																		
- 8 +																			



⑤ Press  at the bottom of the page or  to return to the page header.

⑥ Press  to move to the next page.

6) Setting the date



The date can be set when the device is in standby only.



①	②	③	④																				
<p>The page displays:</p> <table border="1"> <tr> <th colspan="2">CALENDAR</th> </tr> <tr> <td>DATE</td> <td>5</td> </tr> <tr> <td>MONTH</td> <td>11</td> </tr> <tr> <td>YEAR</td> <td>2011</td> </tr> <tr> <td colspan="2" style="text-align: center;">←--- 8 ---→</td> </tr> </table>	CALENDAR		DATE	5	MONTH	11	YEAR	2011	←--- 8 ---→		<p>Press</p> <p></p> <p>as many times as necessary to access the desired parameter setting.</p>	<p>The page changes:</p> <table border="1"> <tr> <th colspan="2">CALENDAR</th> </tr> <tr> <td>DATE</td> <td>5</td> </tr> <tr> <td>MONTH</td> <td>11</td> </tr> <tr> <td>YEAR</td> <td>2011</td> </tr> <tr> <td colspan="2" style="text-align: center;">- 8 +</td> </tr> </table>	CALENDAR		DATE	5	MONTH	11	YEAR	2011	- 8 +		<p>Increase + or decrease - the parameter value with the right or left parameter settings button.</p> <p>Then press  to access the next menu parameter.</p>
CALENDAR																							
DATE	5																						
MONTH	11																						
YEAR	2011																						
←--- 8 ---→																							
CALENDAR																							
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MONTH	11																						
YEAR	2011																						
- 8 +																							


⑤ Press  at the bottom of the page or  to return to the page header.

⑥ Press  to move to the next page.

7) Miscellaneous Settings

<p>① The page displays:</p> <table border="1"> <tr><td colspan="2">MISCELLANEOUS</td></tr> <tr><td>LANGUAGE</td><td>ENGLISH UK</td></tr> <tr><td>CONTRAST</td><td>5</td></tr> <tr><td colspan="2"> </td></tr> <tr><td colspan="2">←--- ---→</td></tr> </table>	MISCELLANEOUS		LANGUAGE	ENGLISH UK	CONTRAST	5			←--- ---→		<p>② Press</p>  <p>as many times as necessary to access the desired parameter setting.</p>	<p>③ The page changes:</p> <table border="1"> <tr><td colspan="2">MISCELLANEOUS</td></tr> <tr><td>LANGUAGE</td><td>ENGLISH UK</td></tr> <tr><td>CONTRAST</td><td>5</td></tr> <tr><td colspan="2"> </td></tr> <tr><td colspan="2">- --- ---+</td></tr> </table>	MISCELLANEOUS		LANGUAGE	ENGLISH UK	CONTRAST	5			- --- ---+		<p>④ The language can be selected by successive presses on the left or right parameters settings button.</p> <p>Then press  to access the contrast.</p> <p>Increase + or decrease - the contrast with the right or left parameter settings button.</p>
MISCELLANEOUS																							
LANGUAGE	ENGLISH UK																						
CONTRAST	5																						
←--- ---→																							
MISCELLANEOUS																							
LANGUAGE	ENGLISH UK																						
CONTRAST	5																						
- --- ---+																							

⑤ Press  at the bottom of the page or  to return to the page header.

⑥ Press  to exit the menu.

OTHER INFORMATION

General Information

On the DreamStar™ Intro or DreamStar™ Intro Evolve device

When the device is in standby, press the left  parameters settings button to select the  symbol on the screen: the General Information menu appears.

①

The page displays:

GLOBAL INFO.	
HOUR COUNTER	106 h 15
TOTAL USE	67 h 32
TOT.SESSIION NBR.	11

Hour counter: Device operating time.
Total use: Total duration during which the patient was actually breathing in the mask.
Tot. Session Nbr.: Number of on/off sessions in the device memory.

② Press  to move to the next page.

③

The last session is displayed:



SESSION	
DATE	4.07.2011
TOTAL DURATION	8 h 15
USAGE DURATION	6 h 37
AVERAGE PRESSURE	9.2 cmH2O

Date: Date of the last on/off session.
Total duration: Total duration of the last session.
Usage duration: duration during which the patient was actually breathing in the mask during the last session.
Average pressure: Average pressure delivered during the last session.

④ Press the on/off button  to exit the menu.

Note: The Session page is only available if the device is in standby and if at least one session was recorded.

On the DreamStar™ Info, DreamStar™ Auto, DreamStar™ Info Evolve and DreamStar™ Auto Evolve devices

Press the left  parameters settings button to select the  symbol on the screen: the General Information menu appears.

①

The page displays:

GLOBAL INFO.	
HOUR COUNTER	94 h 15
TOTAL USE	48 h 32
TOT.SESSIION NBR.	10

Hour counter: Device operating time.
Total use: Total duration during which the patient was actually breathing in the mask.
Tot. Session Nbr.: Number of on/off sessions in the device memory.

② Press  to move to the next page.

③

The last session is displayed:

SESSION	11/08/11-11h25
USAGE DURATION	6 h 27
AVERAGE PRESSURE	6.1 cmH2O
AVERAGE LEAK	OK
A.H. INDEX	10.0

Date: Date and start hour of the last on/off session.
Usage duration: duration during which the patient was actually breathing in the mask.
Average pressure: Average pressure delivered during the session.
Average leak: Indicates the average leak, displaying OK, +, ++, +++, or +++++.
A.H. index: Index of obstructive apneas and hypopnoeas.
 The session date and time are displayed in the upper right of the screen.

The pages for the last 5 sessions can be displayed, from the most current to the oldest.



④ Press the right control button  to access the next page.

⑤ Press the on/off button  to exit the menu.






Note: The Session page is only available if at least one session was recorded.



Reminders about to expire


This functionality is identical on all devices in the DreamStar™ product range.

When one or several reminders are about to expire, the information access symbol  in the lower left of the screen changes to the blinking envelope symbol .

Pressing the button located opposite the symbol brings up a window with a list of the reminders involved, as the following example shows.

① Press 	② The page displays: <table border="1"> <tr> <td colspan="2">REMINDER</td> </tr> <tr> <td>FILTER</td> <td>DONE?</td> </tr> <tr> <td>MASK</td> <td>DONE?</td> </tr> <tr> <td>SERVICE</td> <td>DONE?</td> </tr> <tr> <td>MEMORY CARD</td> <td>DONE?</td> </tr> </table>	REMINDER		FILTER	DONE?	MASK	DONE?	SERVICE	DONE?	MEMORY CARD	DONE?	③ Press  as many times as necessary to access the desired reminder.	④ The page changes: <table border="1"> <tr> <td colspan="2">REMINDER</td> </tr> <tr> <td>FILTER</td> <td>DONE?</td> </tr> <tr> <td>MASK</td> <td>DONE?</td> </tr> <tr> <td>SERVICE</td> <td>DONE?</td> </tr> <tr> <td>MEMORY CARD</td> <td>DONE?</td> </tr> </table>	REMINDER		FILTER	DONE?	MASK	DONE?	SERVICE	DONE?	MEMORY CARD	DONE?	⑤ Answer YES  or NO  with the right or left parameter settings button. Press  to access the next reminder.
REMINDER																								
FILTER	DONE?																							
MASK	DONE?																							
SERVICE	DONE?																							
MEMORY CARD	DONE?																							
REMINDER																								
FILTER	DONE?																							
MASK	DONE?																							
SERVICE	DONE?																							
MEMORY CARD	DONE?																							

⑥ Press  at the bottom of the page or  to return to the page header.

⑦ Press  to exit the menu.

HOW TO USE WHEN ADDING OXYGEN (OPTIONAL)

WARNINGS

- When using oxygen, always follow the instructions of the medical team or home care provider.
- Do not smoke in the presence of oxygen.
- Do not inject oxygen into the device's air intake.
- Carefully follow the instructions for starting and stopping treatment.
- If you use an oxygen concentrator or liquid oxygen unit, stop the flow of oxygen when the device is not operating. If the oxygen concentrator remains on when the device is turned off, the oxygen delivered into the patient circuit could accumulate inside the device, creating a fire hazard.

CAUTION

For a given oxygen flow, the concentration of oxygen inhaled varies as a feature of the pressure settings, your breathing, the type of mask used and the leak rate. This precaution applies to most Continuous Positive Airway Pressure devices.

Installing an oxygen adapter (optional)

When using an additional oxygen supply, you must use an oxygen adapter equipped with a specific valve designed to prevent the accumulation of oxygen in the device.

Refer to manufacturer's instructions for installation, cleaning and maintenance of the specific valve.

To install the oxygen adapter, replace Step 3 of the standard installation procedure with the following step:

- Connect one end of the oxygen adapter to the free end of the patient circuit and the other end to the mask.

Continue with steps 4 through 6 of the standard installation procedure.

Starting and stopping the treatment

1. It is essential that the DreamStar™ device be turned on and generate air flow before the oxygen flow is started so that oxygen does not accumulate in the device.
2. Likewise, you must stop the oxygen flow before turning off the device so that oxygen does not accumulate in the device.

CLEANING AND MAINTENANCE

Please refer to the user instructions for your mask and tubing for details on their maintenance.

Daily

WARNING

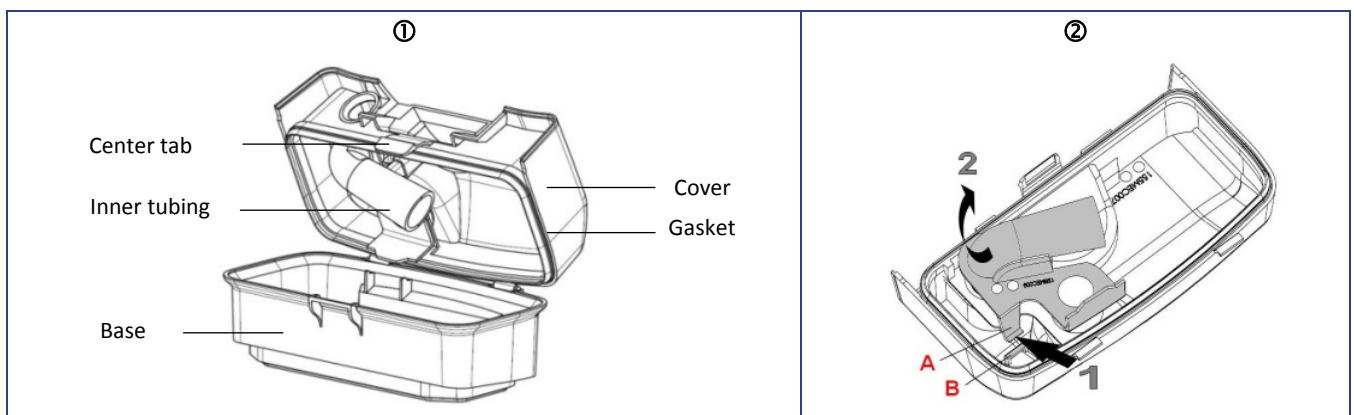
Unplug the device from the power source and always detach the breathing circuit and the water chamber from the device before cleaning them.

CAUTION

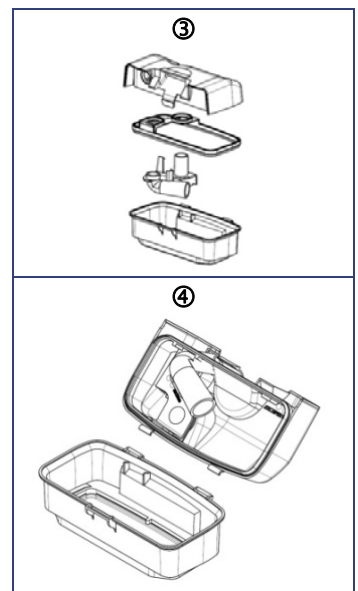
- Use for the cleaning material intended for this purpose.
- Do not use strong detergent, abrasive sponge or stiff brush.

Water chamber (if included)

- Disassemble the water chamber.
 - Remove the water chamber from the device.
 - Unlock the cover by pressing the center tab and rotating it backwards ①.
 - Empty any water remaining in the chamber.
 - Separate the cover from the base of the water chamber.
 - To remove the inner tubing ②:
 - 1: Gently press the clip (A) to release it from the locking system (B).
 - 2: Then pull carefully the tubing to extract it from the cover.
 - Next remove the cover gasket.



- Clean the various parts of the water chamber ③ with warm water and mild detergent (for example 3 drops of dishwashing liquid diluted in water).
- Rinse well with water to eliminate any trace of detergent.
- Allow to dry naturally.
- Once dry, reassemble the water chamber.
 - First, attach the gasket to the groove of the cover and ensure that it is well seated.
 - Insert the inner tubing into the hole of the gasket and ensure it is clipped.
 - Place the cover on the water chamber base ④ and tilt it forward to lock the chamber with the center tab.
 - Fill the water chamber before replacing it into the device.

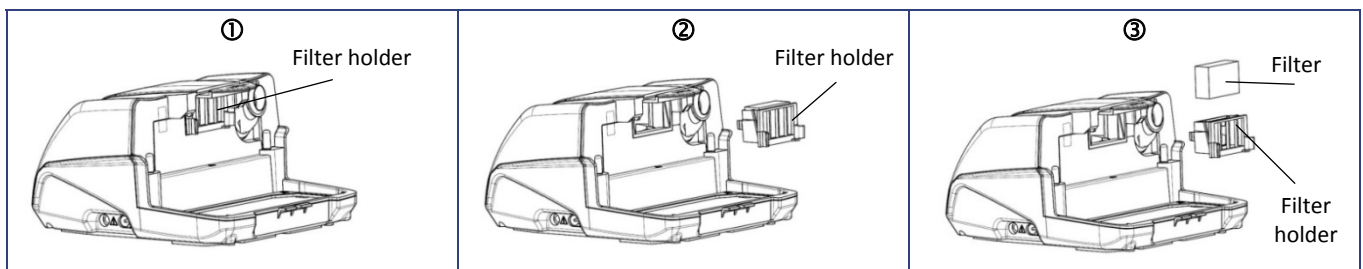


Notes:

- The different parts of the water chamber may also be washed in a dishwasher (at 60°C maximum during 2 hours).
- To prevent micro-organisms growth, do not allow water in the chamber to stagnate.

Weekly

- Unplug the device from the power source.
- Disconnect the breathing circuit and remove the cover or water chamber (if included).
- Washable filter:
 - Pull the filter holder ① towards you to remove it ②.
 - Remove the filter from the filter holder ③.
 - Wash the filter and the filter holder with warm water and mild detergent (for example one drop of dishwashing liquid on the filter and the filter holder, then rub...)
 - Rinse well to eliminate any trace of detergent.
 - Allow to dry :
 - Pad the filter dry using a clean absorbent towel, then allow it to dry thoroughly naturally.
 - Allow the filter holder to dry naturally.
 - Once dry, place the filter into the filter holder, then the assembly at the back of the device. Do not use a filter which is not completely dry.



- Reinstall the cover or the water chamber.

Monthly

- Device
 - Clean the outside of the unit using a damp tissue (cloth, paper towel) with a little water and one drop of mild detergent.
 - Eliminate any trace of detergent in repeating this operation with a new tissue (cloth, paper towel) moistened with water only.
 - Wipe the device thoroughly using a dry tissue (cloth, paper towel).
- Air intake filters:
 - The high-efficiency filter, which is offered as an option, cannot be washed. It must be changed once a month or more frequently if visibly dirty.
 - Change the filters systematically, as soon as they are torn or soiled or when the device displays a reminder to do so.
- Water chamber (if included):
 - After the water chamber has been disassembled and cleaned, you can let it soak for 15 minutes in a solution of 1 part white vinegar to 9 parts water.
 - Rinse well with water to eliminate any trace of vinegar.
 - Allow to dry naturally.

WARNINGS

- Do not use spray detergent. Harmful product residue could enter the air outlet, the air intake filter, or the device interior, causing airway irritation.
- Never use bleach at a concentration higher than 0.1%. For example: pour 200 ml of 2,6 % bleach into 5 liters of cold water.
- Never use the device without making sure that an air intake filter is installed.
- Check that the heating element is completely dry before reconnecting the device to the power supply.



TROUBLESHOOTING

Helpful hints

Problem	Possible cause	Suggestion
Your nose is cold.	The room temperature is too low. The delivered air is too cold.	Raise the room temperature. Place patient circuit under a cover and run next to your body to reduce heat loss.
Runny nose.	Reaction to air flow and to pressure levels.	Contact your medical technical team or your attending physician.
Nose or throat is dry or irritated.	The air is too dry. There is no water in the water chamber (if included).	Use the humidification feature if your device is equipped with a water chamber. Increase the heat level by following the instructions in the parameter settings procedure of the corresponding device. Check the water level in the water chamber. If necessary, raise the water level following the instructions under "Filling the water chamber (if included)", on page 10.
Nose, sinus or ear pain.	Sinus infection or nasal congestion.	Contact the attending physician immediately.
Redness of skin in contact with the mask.	Possible pressure sores indicating the headgear is too tight or the size is too small. Allergic reaction to mask components.	Adjust the headgear. Contact the attending physician or home care provider to try another size mask. Stop using the mask. Contact the attending physician or home care provider.
Dry or irritated eyes.	Air leakage around the mask.	Reposition the mask. Ask the attending physician or home care provider to try another size mask.
The air delivered by the device is too hot.	Air intake filters may be dirty. Air intake is clogged. Room temperature is too high.	Clean or replace filters as necessary (see "Cleaning and Maintenance", on page 29). Move away from all bedclothes and clothing. Lower the room temperature. Make sure that the DreamStar product range device is well away from any source of heat. Remove patient circuit from under the cover.
Discomfort from feeling that the pressure is too high.	Device pressure. The DreamStar™ Auto or DreamStar™ Auto Evolve device is set to Auto-CPAP mode.	Getting use to the nasal pressure takes some time. Use the pressure ramp when you go to sleep (see "Ramp feature", on page 10). Relax and breathe slowly through the nose. If the pressure delivered by the device seems to have changed, contact the home care provider to have the device pressure checked. The pressure may vary during use. If you are dissatisfied with the pressure, ask your home care provider to check the device.
The device does not display the correct pressure.	The ramp is enabled. The Pressure Alter feature is enabled in CPAP mode.	Confirm that the ramp indicator is displayed. Disable the ramp feature referring to the setting procedure for the device concerned. Disable the Pressure Alter feature referring to the setting procedure for the device concerned.

Problem	Possible cause	Suggestion
Symptoms of sleep apnea syndrome recur.	The device is not set to the correct pressure or is not operating properly. Your physical condition or pressure needs may have changed.	Ask your home care provider to check the device operation. Contact your attending physician.
The DreamStar™ product range device does not turn on (no display).	The power supply cord is not correctly plugged into the power port. No power. The device's internal fuse is defective.	Check the connections between the device, the power cord, and the power source. Plug another device (e.g., lamp, radio, etc.) into the power source to confirm that current is available at the source. Contact your home care provider.
The DreamStar™ product range device appears to be experiencing interference and does not work correctly.	Very high electromagnetic interference.	Move the device away from sources of interference, such as halogen lamps, cordless phones, etc.
Humidifier does not seem to heat water.	The heat level is set at 0. The heating element is defective.	When the device is battery-powered, the heated humidification feature cannot be used. Set the heat level between 1 and 10, by following the instructions in the parameter settings procedure of the corresponding device. Confirm that the heated humidifier indicator is displayed on the screen and is not blinking. If the indicator is blinking or is not present, contact your home care provider.
Water spilled into the device.		Unplug the device and allow it to dry at least 24 hours. Re-apply power and then check for proper operation.
Excessive droplets of water appear in the patient circuit or in the mask.	The water level in the water chamber (if included) is too high. A small amount of water droplets are normal, especially during winter months. Excessive condensation of water vapor.	Check that the water level is not above the water chamber maximum fill level; if it is, pour out the excess water. Adjust the heating power to a lower level by following the instructions of the procedure for setting the corresponding device. Route the patient circuit under your blanket.
White, powdery deposits appear in the water chamber.	Traces of scale from the tap water.	Rub the traces with a sponge and mild detergent. Soak the water chamber in a solution of 1 part white vinegar to 9 parts water as described under "Cleaning and Maintenance", on page 29. Rinse well with tap water. Dry the exterior with a clean cloth.

Device messages

Code	Description	Corrective action
MASK UNPLUGGED is displayed on the screen.	The mask is disconnected.	Check the connections between the mask, the patient circuit, and the device. This message disappears when any of the four buttons on the front of the device is pressed or when you breathe in your mask well reconnected. Otherwise, the device will stop after 30 minutes.
The  symbol blinks alternately with the error code at the center of the display.	The device has detected an operating error.	Unplug the device from all sources of electrical power. Plug it in again and turn on. If the error persists, contact your home care provider.
The  symbol blinks alternately with the error code at the center of the humidifier heat level page.	The device has detected a humidifier operating error.	Unplug the device from all sources of electrical power. Plug it in again and turn on. If the error persists, contact your home care provider.

TECHNICAL CHARACTERISTICS

Performance of the device

Device pressure range:	4 cmH ₂ O to 20 cmH ₂ O Device adjustable in increments of 0.5 cmH ₂ O
Maximum steady limiting pressure at the patient connection port under single fault condition:	30 cmH ₂ O
Maximum pressure that can be set:	20 cmH ₂ O
Ramp duration:	0 to 45 minutes ± 1 minute Device adjustable in increments of 5 minutes.
Sound pressure level measured in accordance with NF EN ISO 17510-1 : 2002:	< 30 dBA without humidifier
Sound pressure level measured in accordance with NF EN ISO 17510-1:2007:	33 dBA without humidifier 34 dBA with humidifier
Patient-side connection aperture:	Tubing with diameter of 22 mm.
Air intake filter efficiency:	Optional high-efficiency filter. Disposable fabric HEPA paper, which is 90% effective for particles > 3 microns. High Density Foam (reusable) and is 90% effective with particles > 20 microns.

Integrated Humidifier performance

Humidification rate:	> 10 mg H ₂ O/l at the maximum setting for a leak flow < 60 l/min
Heating time:	≤ 45 minutes
Pressure loss as a function of flow:	0,59 cmH ₂ O at 1 l/sec
Compliance of the water chamber :	14,2 ml/kPa (chamber empty) 12,2 ml/kPa (chamber full)
Maximum service pressure:	20 cmH ₂ O
Maximum gas temperature delivered from patient tubing:	43°C (109.4°F)

Device electrical characteristics

Universal internal electrical power with the detachable electrical power cord (which varies by country).

Input voltage (auto-ranging):	100, 115, 120, 230 and 240 VAC (-15%, +10%), at 50 or 60Hz
Maximum power consumption:	90VA at maximum setting.*
Current consumed at 20cmH ₂ O with a 4mm leak:	130 mA eff. at 230 VAC
DC power supply (13 V)	Voltage range allowed: 13V (-15%, +25%).

*Power consumption is based on the type of model. The DreamStar™ Auto™ Evolve with heated humidification enabled is the highest-consumption device.

Transportation and storage conditions

Pressure range:	500 hPa to 1060 hPa
Temperature:	-20°C to +60°C (-4 °F to +140 °F)
Relative humidity:	Up to 95% without condensation

Operating conditions for the device and humidifier

Pressure range:	730 hPa to 1060 hPa
Temperature:	+5 °C to + 40 °C (41 °F to 104 °F) without humidifier +5° C to + 35 °C (41 °F to 95 °F) with humidifier
Relative humidity:	between 10% and 95% without condensation
Altitude range:	0 – 2 700 m (0–9,000 ft) approximately

Physical characteristics

Dimensions (D x W x H):	200 x 230 x 120 mm (7.8 x 9.0 x 4.7 in) approximately with water chamber
Carrying case Dimensions (D x W x H):	260 x 350 x 150 mm (10.2 x 13.7 x 5.9 in) approximately
Weight:	1,5 kg (3.3 lbs) approximately with water chamber 1,4 kg (3.1 lbs) approximately with cover
Operational volume (minimal gas volume in water chamber):	811 ml
Useful volume of water chamber:	300 ml
Maximum liquid fill level:	Indicated on water chamber

Standards compliance

Risks pertaining to this medical equipment were assessed in accordance with the ISO 14971:2007 standard, specifically with reference to global residual risk.

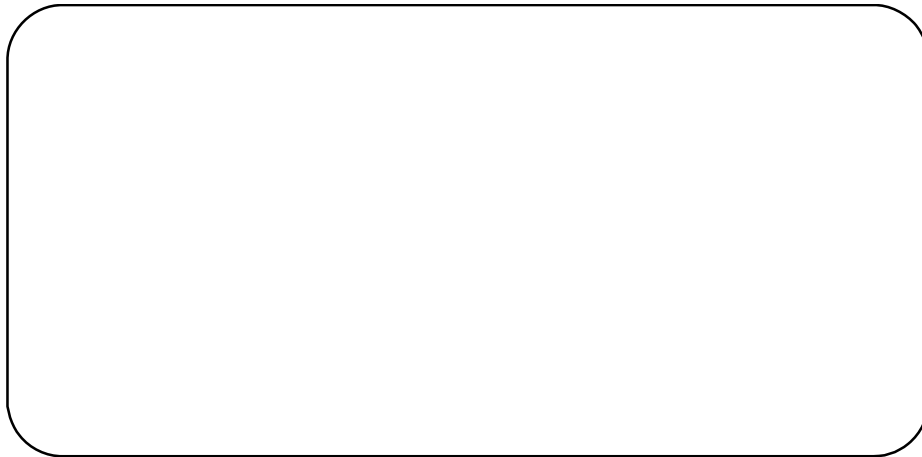
The DreamStar™ product range device complies with the following standards.

- IEC 60 601-1:1988 + A1:1991 + A2:1995 + US/CAN deviations: Medical electrical equipment. Part 1: General requirements for safety.
- IEC 60 601-1-2:2007: Medical electrical equipment. Part 1: General requirements for safety. Collateral standard: Electromagnetic compatibility – Requirements and tests.
- EN ISO 17510-1:2009: Sleep Apnea Breathing Therapy Devices.
- EN ISO 8185:2009: Respiratory tract humidifiers for medical use -- Particular requirements for respiratory humidification systems.
- Directive 93/42/EEC of the Council concerning medical devices.
- Directive 2002/95/EC of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS).
- Directive 2002/96/EC of the European Parliament and of the Council on waste electrical and electronic equipment (WEEE).

End-of-Life disposal of device

According to the European directive 2002/96/EC, this device represents an electrical and electronic equipment which should be collected and treated separately from the household waste. The crossed-out wheeled bin symbol (see paragraph "Symbols on the device" page 7) informs you that you have to use a separate disposal, which should be adapted for the collect and the treatment of this equipment. Inappropriate disposal of the waste could have negative consequences on the environment. Please contact your homecare provider.

Homecare Provider Information



CE 0459

Manufacturer:

HEALTHC'AIR
144 AV CHARLES DE GAULLE
92200 NEUILLY SUR SEINE
FRANCE

Manufacturing plant:

HEALTHC'AIR
10 ALLÉE PELLETIER DOISY
54600 VILLERS-LES-NANCY
FRANCE

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