

Other Issues

- **Power** - The device is activated when the power cord is connected. It does not have an internal battery.
- **Dry Mouth**; caused by drying from ventilator airflow - have a drink by the bed, drinking plenty can help. If dryness continues to be a problem contact the medical team and a humidifier can be provided.
- **Sore / dry eyes**; caused by air leak from mask – reposition mask. If ongoing contact medical team for advice as a different mask may help.

Cleaning and Maintenance of circuits

- Masks should be washed daily in warm soapy water, rinsed thoroughly in clean water and left to air dry. Masks should last for 6–12 months.
- Headgear should be washed as required following the same instructions
- Circuits should be inspected regularly and replaced every 6–12 months
- The bacterial filter should be replaced monthly

Cleaning and Maintenance of Wet (Humidified) circuits

- The humidifier chamber should be emptied, washed and refilled daily with fresh tap water. The chamber should be replaced every 12 months.

Air Filters / Servicing



- The blue pollen filter should be checked regularly and replaced 6 monthly. Do not run the machine without the filter in place.
- The ventilator should be serviced yearly. Contact the LTV team if you notice it is due a service.

If you have any problems with your device or any questions please contact the Children's Long Term Ventilation team on;

0115 924 9924 ext.: 82207.

Out of hours please contact the Critical Care unit on;

0115 9709232

Feedback

We appreciate and encourage feedback. If you need advice or are concerned about any aspect of care or treatment please speak to a member of staff or contact the Patient Advice and Liaison Service (PALS):

Freephone: 0800 183 0204

From a mobile or abroad: 0115 924 9924 ext 65412 or 62301

E-mail: pals@nuh.nhs.uk

Letter: NUH NHS Trust, c/o PALS, Freepost NEA 14614,

Nottingham NG7 1BR

www.nuh.nhs.uk

Phillips Resironics DreamStation CPAP device



This document can be provided in different languages and formats. For more information please contact:

Children's Long Term Ventilation Team

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Derby Road, Nottingham

NG7 2UH

Tel: 0115 924 9924 ext.: 82207

LTVteam@nuh.nhs.uk

What is the DreamStation?

The DreamStation CPAP is a **Continuous Positive Airway Pressure** therapy device designed for the treatment of Obstructive Sleep Apnoea (OSA) and children or young people experiencing difficulty in breathing particularly during sleep. The CPAP machine delivers a constant flow of air through a circuit (tubing) and a mask which creates enough pressure in the airway to hold the tissue open, so the airway doesn't collapse. The soft, steady jet of air from the CPAP machine creates enough pressure to keep the airway open.

Indications for use.

The device is not intended for life support. It will support the child / young person's own breathing by gently keeping the airway open. The device will be issued and serviced by the Children's Long Term Ventilation (LTV) team.

Settings on the ventilator

The settings on the ventilator will have been set by LTV team. These settings will have been locked in so it doesn't matter if you accidentally press any of the buttons. Start the device by pressing the therapy button shown below. The display will show the set pressure in cm of water.



Ramp Feature

The ramp feature allows you to lower the pressure when your child is trying to fall asleep. The pressure will gradually increase over a set time until the prescription pressure is reached. This will be set by the LTV team if required.



Alarms

It's important to note the device is not fitted with an alarm system.

Circuits

The DreamStation device has a single limb circuit. Air flows continuously from the machine, through a bacterial filter, along the tubing (red arrow) to the child where different interfaces (masks) connect to the child. You can entrain oxygen into the circuit if required. This will be prescribed by your doctor.



Expiratory Ports

On breathing in, air flows from the circuit into the lungs. On breathing out the gases disappear from the child and the circuit into the room through holes in the mask or an expiratory port in the circuit.

It is important that the holes of the mask / expiratory port of the circuit are never blocked as this is where the child breathes out.

Humidification

There is an optional humidifier which can be attached to the device. If required the device should be positioned below the child to prevent condensation running into the mask. It may help with nasal or oral dryness or for children who have difficulty with secretion management.

If humidification is required to support your child's breathing then the humidifier attachment and separate humidified circuit will be issued from the LTV team.



Masks

There are many different masks available to use with the DreamStation. Some cover just the nose, some nose and mouth and some total face masks. The LTV team will advise on the most appropriate mask for your child.

Fitting the mask; The mask should be attached tightly enough to minimise any air from leaking out around the edges of the mask, but not so tight that it causes pain or pressure sores to develop.

Use the Velcro straps to tighten or loosen the mask in order to get the correct fit. This may take some practice and some trial and error.