

SPECIFICATIONS

Characteristics

Mode of operation :
Bi-level, constant pressure

Pressure output :
EPAP : from 3 cm H₂O to IPAP or 20 cm H₂O (+/-0.5 cm H₂O)
IPAP : from EPAP or 3 cm H₂O to 25 cm H₂O (+/-0.5 cm H₂O)
Comfort pressure : from 3 cm H₂O to EPAP

Ramp duration : 0 to 45 minutes adjustable by 5 minutes

Advanced setting parameters :
Inspiratory & Expiratory Sensitivity : from 1 to 10
Pressure Rise Time : from 1 to 5
Back-up rate (DuoST) : de 0 à 25 bpm
I/E ratio (DuoST) : from ¼ to 1/0.5

Max. flow for 1 cmH₂O pressure drop at the patient output :
200 lpm at 20 cmH₂O without humidifier

Noise level : <30 dB measured with an uncertainty of 2 dB according to ISO 17510-1:2002

Humidifier chamber capacity :
300 ml at the maximum water level

Heater adjustable range and wattage :
0 to 10 adjustable (40 Watts at setting 10)

ORDERING INFORMATION

Products and accessories

	Reference
DreamStar Duo (includes patient circuit 1,8 m and carrying case)	M-115503-UK
DreamStar Duo Evolve w/ water chamber (includes patient circuit 1,8 m and carrying case)	M-115523-UK
DreamStar Duo Evolve w/ cover (includes patient circuit 1,8 m and carrying case)	M-115513-UK
DreamStar DuoST (includes patient circuit 1,8 m and carrying case)	M-115504-UK
DreamStar DuoST Evolve w/ water chamber (includes patient circuit 1,8 m and carrying case)	M-115524-UK
DreamStar DuoST Evolve w/ cover (includes patient circuit 1,8 m and carrying case)	M-115514-UK
Water chamber DreamStar (includes base, cover and gasket)	M-315510-14
DreamStar CPAP cover	M-315530-19
Filter holder kit	M-314820-02
Air intake reusable filter / 96 pcs	M-414840-06
High efficiency disposable filter / 100 pcs	M-414841-07

Physical Characteristics

Size : 20 cm wide X 23 cm deep X 12 cm high

Weight : 1,5 kg with humidifier; 1,4 kg without humidifier

Filter : Cleanable standard or disposable HEPA

Power characteristics

Power supply : Input range 100-240 V, 50-60 Hz

Power supply on battery : 13 V

Power consumption :
50 VA max without humidifier; 90 VA with humidifier at maximum setting

IEC 60601-1 classification :
Class II (double isolation) Type BF

Environmental requirements

Operating temperature
5°C to 35°C, 10% to 95% relative humidity (RH), non-condensing

Storage temperature :
-20°C to 60°C, relative humidity (RH) ≤95%, non-condensing

Operating altitude : from sea level to 2700 meters

Compliant Standards

ISO 17510-1; IEC 60601-1-2 ; ISO 8185; IEC 60601-1-4; IEC 60601-1-6

Carrying case DreamStar	M-815505-00
Power supply cord DreamStar-UK	M-660601-40
DreamStar cigarette lighter cable	M-214530-01
DreamStar battery cable	M-214530-00
Patient circuit 1,80 m for CPAP (X 10)	M-261000-04
Patient manual DreamStar range	M-155DFU00-30
Practitioner manual DreamStar Evolve	M-155DFU00-70
Data Management	
DreamStar Analyze software	M-215630-00
Clinical kit DreamStar range	M-215630-01
Memory card	M-215530-00
Memory card reader	M-214830-03
User manual	M-156DFU00-20

For more information contact us at the following addresses :
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DreamStar™ Duo & Duo Evolve

DreamStar™ DuoST & DuoST Evolve

Bi-Level Device



DreamStar™ Duo

DreamStar™ Duo & DreamStar DuoST are designed to maximize comfort and patient compliance with the therapy. The technological innovations allow an easy adaptation and follow up of the treatment.

Both DreamStar™ Duo & DreamStar DuoST detect apneas, hypopneas, inspiratory flow limitation and snoring. The differentiation between obstructive and central events and the leak level detection allow the clinician to evaluate the effectiveness of the therapy treatment.

CONFIGURATIONS

The DreamStar™ Duo & DreamStar DuoST have a configuration without humidifier and the DreamStar™ Duo & DreamStar DuoST *Evolve* with an integrated heated humidifier. The *Evolve* configurations may be used either with a water reservoir for humidification or without humidification by replacing the water reservoir with a cover.



DreamStar™ DuoST Evolve w/ water reservoir



Specific AUTO-CALIBRATION function ensures that the prescribed pressure is delivered at the patient's interface. This makes the device compatible with almost any combination of mask and patient circuit of 22mm or 15mm diameter.

Algorithme Flow Sens The unique "FlowSens" feature allows Dreamstar Duo & Duo ST devices to adjust automatically the triggering levels of inspiratory and expiratory phases of the patient breathing and to answer instantaneously to any patient respiratory changes. FlowSens detects and compensates mask or patient circuit leaks but also adjust the device parameters to ensure optimal therapy performances in presence of leaks. In addition, to be able to answer to other special patient needs, the advance setting menu gives access to customized sensitivity setting for these inspiratory and expiratory trigger levels and the pressure rise time settings.



COMPLIANCE DATA MANAGEMENT

Compliance data are stored for 365 days in the internal memory of the device. The last 16 hours of the patient's actual flow data provides in addition extra useful information about the effectiveness of the therapy.

The **DreamStar™ Analyze software** is a user friendly software which enables downloading, analyzing and printing the compliance data to a fully configurable report. The data can be retrieved either entirely by using the mini USB DreamStar cable or through the DreamStar memory card for the last 40 eight-hour sessions.

DREAMSTAR WATER & HUMID CONTROL TECHNOLOGY

The innovative design of the water reservoir "DreamStar Water Control" and the automatic humidification system "Humid Control" provide a new concept in water management. This prevents the risk of water return to the devices and minimizes condensation in the patient circuit to maintain a stable level of humidification overnight, for a therapy combining comfort and optimal efficiency.

FUNCTIONALITIES

Ease of use

- Front-facing screen
- Auto reminder settings
- Large, backlit buttons
- Multilingual menu
- Can run on external battery (by-pass humidification option)
- Download compliance data via DreamStar™ card
- Upload settings via the DreamStar™ card
- Complete software analysis DreamStar™ Analyze

Technologies

- Specific Auto-calibration function
- Algorithme FlowSens
- DreamStar Water & Humid Control+ in the Evolve configuration

Fully integrated

- Integrated HC humidifier
- Single electrical connection for both device and heated humidifier

Automated

- Automatic altitude and barometric pressure change compensation
- Universal internal power supply
- Automatic leak compensation

EASE OF USE

The design features of DreamStar™ Duo & DuoST facilitate the easy use of the devices. They include automatic reminders, quiet operation and front screen illuminated retro buttons with automatic extinction of the backlight. The settings can be uploaded to the device via the DreamStar data card.

The result is a device easily adaptable to everyday users, ensuring performance, comfort and ease of use.

COMPACT DESIGN

DreamStar™ Duo & DuoST in the *Evolve* configuration have a fully integrated heated humidifier for enhanced breathing comfort, while remaining one of the most compact devices in the market. The humidifier is located at the rear of the devices with its water reservoir. The reservoir and the air inlet filter are easy to remove for cleaning.

The fully integrated power supply and heated humidifier makes DreamStar™ Duo & DuoST *Evolve* one of the lightest devices in the market. This ensures maximum comfort while using the device, either when travelling or being at home.