SEFAM

SPECIFICATIONS :

Characteristics :

Mode of operation :
Bi-level, constant pressure

Pressure ouput :
EPAP : from 3 cm H20 to IPAP or 20 cm H20 (+/-0.5 cm H_2O)
IPAP : from EPAP or 3 cm H20 to 25 cm H20 (+/-0.5 cm H_2O)
Comfort pressure : from 3 cm H20 to EPAP

Ramp duration : 0 to 45 minutes adjustable by 5 minutes

Advanced setting parameters :
ISENS & ESENS : from 1 to 10
Pressure Rise Time : from 1 to 5
Back-up rate (DuoST) : from 0 to 25 bpm
I/E ratio (DuoST) : from ¼ to $^1/_{0.5}$

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

Noise level (with reservoir): 27 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)

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 setting 10

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

ORDERING INFORMATIONS

Products and accessories :	References :
DreamStar™ Duo (includes patient circuit 1,8 m and carrying case)	M-115503– UK
DreamStar™ Duo Evolve w/reservoir (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/reservoir (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
DreamStar™ Water Reservoir (includes base, cover and gasket)	M-315510-14
DreamStar™ Cover	M-315530-19
Filter holder kit (27x42)	M-314820-02
96 Inlet Air filter (27x42)	M-414840-06
100 High efficiency air filter (27x42) Carrying case DreamStar™	M-414841-07 M-815505-00
Power cord 2 poles - UK	M-660601-40
Cigarette lighter cable 3A	M-214530-01
Battery cable 3A ring term	M-214530-00
Patient circuit 1,80 m / diam 15mm	M-261000-00
Patient circuit 1,80 m / diam 22mm	M-261000-04
Patient manual DreamStar™ Duo / DuoST	M-155DFU00-30
Practitioner manual DreamStar™ Duo / DuoST Evolve	M-155DFU00-70

Data Management :

DreamStar™ Analyze software	M-215630-00
DreamStar™ Analyze clinical kit	M-215630-01
Memory card DreamStar™	M-215530-00
Memory card reader	M-214830-03
User manual	M-156DFU00-20

DreamStar™ Duo & Duo *Evolve*
DreamStar™ DuoST & DuoST *Evolve*

Bi-Level Devices

DreamStar™ Duo

The very latest innovations of the DreamStar™ Duo & DreamStar™ DuoST support optimum function of these devices used for non-invasive ventilation of patients suffering from Sleep Apnea Syndrome or respiratory failure but who are not dependant on venti-latory assistance.

These technological innovations are designed to maximize comfort and patient compliance with the therapy allowing an easy treatment adaptation and follow up.

Both DreamStar™ Duo & DuoST detect residual apneas and hypopneas, provide the estimated tidal volume and the leak level to easily evaluate the effectiveness of

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.

Quick and simple setting of the humidifier from the main screen of the device.

DreamStar™ DuoST *Evolve* w/ water reservoir

The AUTO ON function enables patients to begin their treatment by simply breathing into their mask. They still have the option of activating the device by pressing the on/off button.

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.

Settings ADAPT feature. The activation of this function, when the device is operational, allows to display a page of main screen indicating the values of tidal volume, respiratory rate, average leak and inspiratory time of the last cycle. This feature allows the practitioner to define optimum treatment parameters in a simpler and fastest way.

Flow Sens Algorithm 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 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 or mini USB cable
• Upload settings via the DreamStar™ card or mini USB cable
• Complete software analysis DreamStar™ Analyze

Technologies :
• Auto ON function
• Settings ADAPT feature
• Specific Auto-calibration function
• FlowSens Algorithm
• DreamStar™ Water & Humid Control+ technology 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

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.