



EASY-AIR CLINICAL NEBULISER FOOT PUMP

The **Easy-Air** Clinical Nebuliser Foot Pump is designed to provide filtered air to drive a nebuliser which delivers a medication for inhalation. This medication must be prescribed for the user by a qualified medical practitioner.

Low cost nebuliser designed for use where there is no power source available, the manually operated nebuliser pump delivers filtered air to drive a nebuliser which delivers prescribed medication for inhalation.

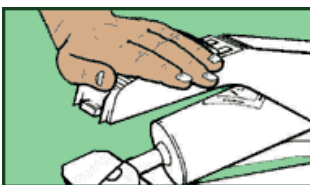
This self contained unit is easy to use, washable after use and can be operated by hand or foot. This nebuliser is light weight, easy to carry and is excellent as a back-up to electrical nebulisers.

Features

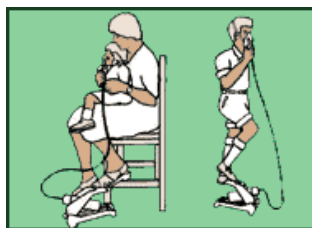
- 100% portable and independent
- No batteries or power packs required
- Lightweight (700 gm)
- Small (111 x 190 x 306 mm)
- High capacity (9.4 litres/min @ 50 strokes/min)
- Wide range of operating temperatures (5-35°C)
- Robust
- Complete with 1 Adult Mask and Carry Case



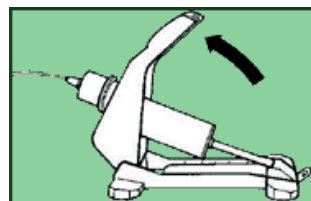
Operation



Pump either by hand or by foot.



When pumping by hand place the palm of the hand on the pedal. Keep the fingers horizontal so that they cannot be trapped under the pedal. When pumping by hand place the palm of the hand on the pedal. Keep the fingers horizontal so that they cannot be trapped under the pedal.



The pump may be operated with bare feet but be careful not to trap the toes. For maximum efficiency always allow the pump to rise fully before beginning a new pumping stroke, and, if this is done, a rate of about 40 strokes per minute will be achieved. Pump as instructed as by the doctor or until most of the medication has been delivered.

CODE
PNF

DESCRIPTION
EASY-AIR CLINICAL NEBULISER FOOT PUMP



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Technical Data

Environmental Conditions

	For operation	For storage
Temperature	+5°C to +35°C	-5°C to +50°C
Atmospheric pressure	850 to 1070 hPa	550 to 1100 hPa
Humidity	0 to 65% r.H	0 to 65% r.H.



Performance data

Flow of free air

The free air delivered by the pump at various stroke rates is as follows:-

Strokes/min	Free air delivered (litres/min)
30	6.3 litres/min
40	7.7 litres/min
50	9.4 litres/min

Performance under load

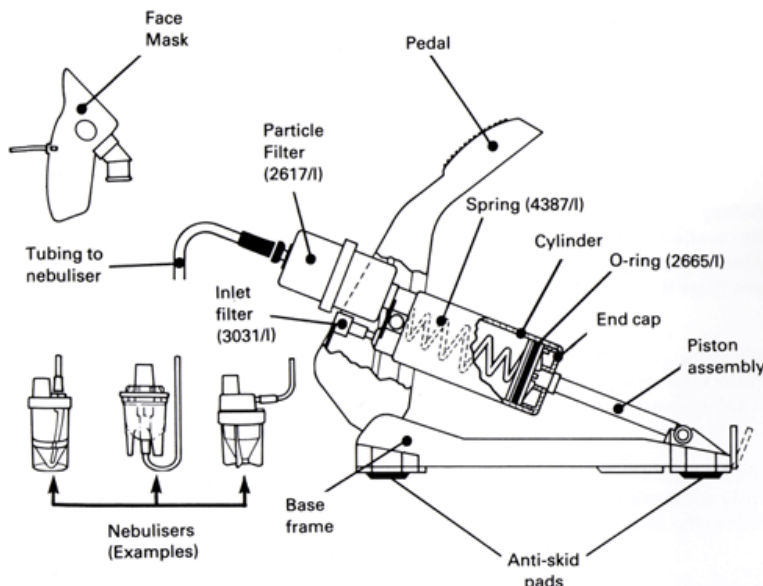
The flow and average pressure against an Amal jet no.45 at various stroke rates at 25°C are as follows:-

Strokes/min	Free air delivered (litres/min)	Average Pressure upstream of Jet (kPa)	Peak Pressure upstream of Jet (kPa)
20	3.7	36	69
30	5.2	68	115
40	6.2	98	144
50	7.1	127	175
50*	6.0	102	139

* at 35°C and 65% relative humidity.

The stroke rate required to maintain a flow of 4 litres against resistance of Amal jet No. 45 is 23 strokes/min at 25°C. The work required per stroke is 80N at a stroke rate of 30/min. Maximum recommended stroke rate, 50 strokes/min.

How does the Foot Pump Nebuliser work?



Effect of ambient temperature

The volume of free air delivered by the pump and the average and peak pressures will decrease with increasing temperature. Typical results at 25°C & 35°C are given in the table above.

Particle filter

Filter structure: polyamide monofilament, woven fabric, mesh aperture 10 micro; disposable; maximum life 12 months.

Weight: 700g

Dimensions (h x w x d) - Packed 111 x 190 x 306 mm

