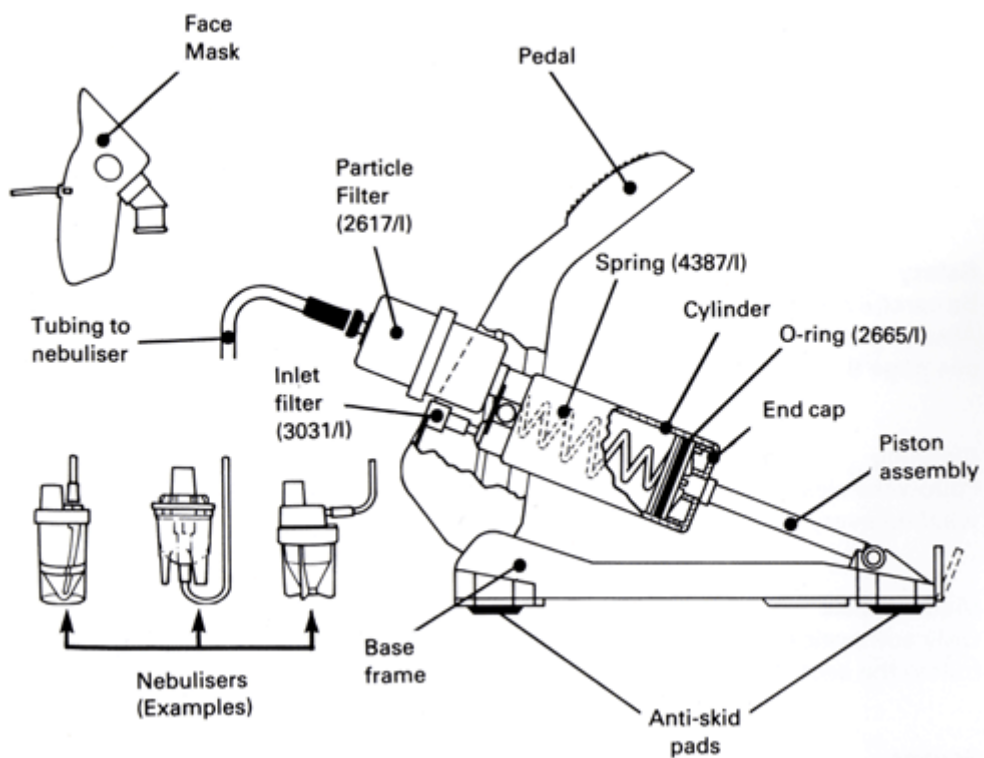


## PNF Nebuliser Foot Pump

### How does the Foot Pump Nebuliser work?

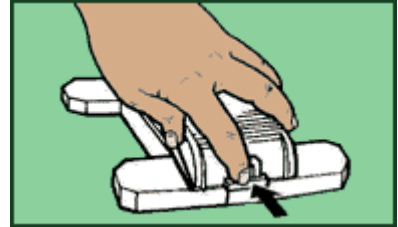


## Preparation for Use

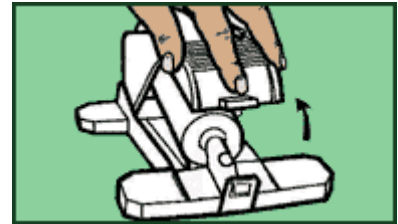
On delivery remove the pump from the packaging and check the contents against the Packing List enclosed.

### The pump

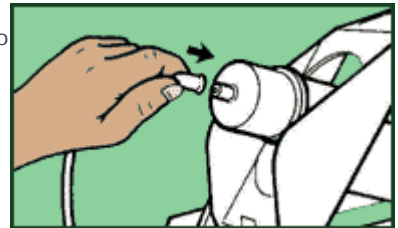
When delivered, the pump is completely assembled but the pedal is locked to the base frame. Release the lock by pressing with a finger.



Allow the pedal to rise into the operating position.



Push the tubing onto the pump outlet on the particle filter. If this is difficult to do, hold the tubing under hot running water for about a minute. Do not allow water to run into the tubing.



### The nebuliser

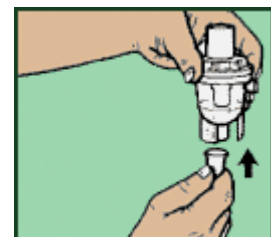
The general instructions given below may not apply to all nebulisers, so always follow the specific instructions for use provided with each nebuliser.



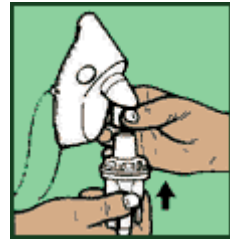
Check that the nebuliser is clean and dry.

Pour the prescribed dose of medicament into the liquid container as directed by the physician. Only do this immediately before use.

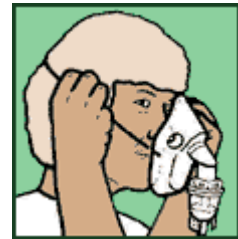
Push the tubing onto the connector which is in a different position on different nebulisers as shown.



Attach the nebuliser to the mask and put the mask on the face.



A mouthpiece may be used instead of a mask.



## Operation

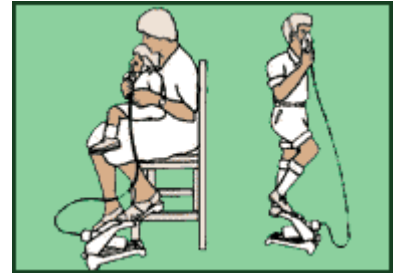
Pump either by hand or by foot.



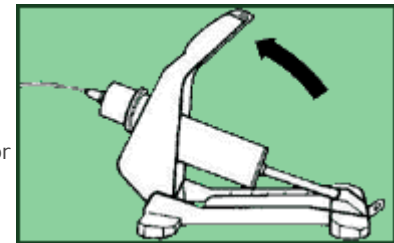
When pumping by hand place the palm of the hand on the pedal. Keep the fingers horizontal so that they cannot be trapped under the pedal.

The pump can be operated by foot from a standing or a sitting position.

When sitting, make sure that the chair is high enough. If it is too low pumping will be uncomfortable.



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 medicament has been delivered.



## Other information

### FOR YOUR SAFETY

#### Read This Section

Read the "Instructions for Use" booklet before using the pump and always observe its recommendations.

#### Safety

Be careful not to trap fingers or toes in the frame when the pump is being operated. Always put the driving hand or foot on top of the pedal with all fingers well clear - see page 6.

#### Cleaning

Follow the cleaning instructions exactly. The nebuliser used with the pump must be washed every time it is used and allowed to dry.

#### Maintenance

Only authentic Cameron-Price spare parts may be used for maintenance. Read and follow the section on Maintenance on page 9.

#### Service

The pump does not require service.

### INTENDED USE

The nebuliser pump is designed to provide filtered air to drive a nebuliser which delivers a medicament for inhalation. This medicament must be prescribed for the user by a qualified medical practitioner.

The pump is intended for use in adverse climatic conditions at temperatures from +5deg C to +35 deg C, and at up to 65% relative humidity.

#### Do not use the pump:

- for liquids;
- without an inlet filter and a particle filter;
- for inflating pneumatic equipment such as bicycle or car tyres.

## Technical Data

### Environmental Conditions

	For operation	For storage
Temperature	+5degC to +35degC	-5degC to +50degC
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 25degC 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 35degC 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 25degC. The work required per stroke is 80N at a stroke rate of 30/min. Maximum recommended stroke rate, 50 strokes/min.

#### 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 25degC & 35degC 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

Reference: <http://www.asthmarelief.co.uk/>