

Boussignac CPAP kit with nebulizer



Code produit: **5577.013**

Respiratory assistance device for patients with spontaneous ventilation allowing maintenance in the airways of a pressure greater than atmospheric pressure during the entire respiratory cycle.

The CPAP mode of ventilation allows:

- ✓ to recruit collapsed alveoli,
- ✓ to restore a satisfactory level of functional residual capacity,
- ✓ to improve gas exchange at the level of the alveolocapillary membrane,
- ✓ to decrease pulmonary resistance,
- ✓ to decrease the work of breathing,
- ✓ to redistribute the alveolar liquid to the interstitial space in case of acute pulmonary oedema.

The Boussignac CPAP and its manometer connector is a device for connection to a face mask with its 22 mm male connector, the crenellated upper part remaining open to the air.

This device comprises 2 lateral ports:

- ✓ the upper port is preconnected to an extension tube (length 200 cm) for connection to an air or oxygen source,
- ✓ the bottom port (colourless translucent) allows:

- . controlling pressure (use manometer code 527.01),
- . an additional oxygen supply if the gas administered to the patient via the upper port is air,
- . CO2 monitoring.

How it works:

The gases administered to the patient (air, air-oxygen mixture or pure oxygen) pass through the extension tube and arrive in a circular chamber where the gases can only escape into the central zone passing through 4 micro-channels. At that moment, the injection speed of the gases is greatly increased. Deflectors at the exit site of the micro-channels eject the gases arriving at high speed towards the opposite wall.

The collision of gas molecules between themselves generates a turbulence which creates a virtual valve and simultaneously the speed of gases is transformed in pressure. This pressure depends directly on the flowrate: if the flowrate (the amount of gas injected) is increased, the pressure will increase; if the flowrate is decreased, the pressure will decrease.

The Boussignac CPAP kit with nebulizer is supplied with the following items:

- ✓ A Boussignac CPAP code 5570.13 with oxygene extension tube (200cm long) and a connecting tube to the manometer,
- ✓ A nebulizer with "T" piece adaptor and oxygene extension tube (200cm long) code VBBNB31193.

The nebulizer can be used concomitantly with the CPAP for drug nebulization coupled to noninvasive ventilation. [« Hide](#)