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Emono

Innovative mobile system for evacuation



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The analgesic therapy with equimolar mixtures of Oxygen and Nitrous oxide (50% O₂ – 50 % N₂O) is used since a long ago for the prevention and control of pain.

For analgesic therapy equimolar mixtures ready to use in cylinders, typically used in treatment of pain from painful procedures.

Even if present in lower percentage than anaesthetic therapy, nitrous oxide present in the analgesic mixture described above requires to pay attention to the hygiene issues associated with its use, to guarantee the health of the work environment, in order to protect healthcare professional from the risk of occupational exposure arising from possible pollution.

The scientific literature, norms and guidelines report values for occupational exposure to nitrous oxide, therefore means that prevent from accumulation in the working environment of high levels of N₂O during therapy are required.

Since the administration of analgesic mixture can occur most of the times in rooms where a centralized anaesthetic gas scavenging system (AGSS) is not present, an alternative device for the evacuation of this gas shall be provided.

Fully engineered and developed by SolWelding, the Company of the Group where high technology hardware is developed, EMONO is the Group's response to the need to reduce the risk of environmental pollution from nitrous oxide, to guarantee the safety of healthcare professionals.



The heart of the device: EMONO is a device for evacuation of the gas exhaled by the patient undergoing the therapy with Equimolar Mixture of Oxygen and Nitrous Oxide (50 % O₂ – 50 % N₂O).

The device consists of a unit for exhaust evacuation, connected to the patient's mask, inside which there is a turbine whose speed is regulated by a differential pressure sensor, in order to maintain constant the negative pressure level in the circuit of evacuation of evacuation.

Using the touch screen monitor it is possible to adjust the feedback and the turbine speed (5 different levels for response and 5 for speed), to adapt as much as possible the evacuation to the patient's respiratory profile creating the best feeling of comfort.



The user interface of the device consists of a touch-screen display where the trend of patient's breathing profile is graphically displayed.

From the display all the functions and options of the device are set, and values, trends, and alarms are shown.



The evacuation device is isolated with soundproof materials that drastically reduce the noise generated by the turbine, making the device really quiet. All the connections are grouped in the rear part, each one clearly identified, included the power cable.

The device can be connected to any standard of electrical socket of the European Union at 230VAC.



The lower part of the trolley is equipped with 5 antistatic swiveling rubber wheels, specific for the hospital environment. Its structure allows the user the storage of:

- the monitor, that will be securely positioned on the top of a pedestal with a hollow;
- two gas cylinders in the rear part, not visible from the front;
- consumables, demand valve, evacuation hoses and fittings, masks and other devices in the front cabinet.

The presence of two cylinder allows, when the first one is empty, the prosecution of the therapy thanks to the connection of the probe to the second one in a few seconds.



Technical data

Power supply	230 VAC
Frequency	50 Hz
Rated maximum power	0,1 KW
Environmental temperature min-max	10 - 40 °C
Relative humidity of use	25 - 75 %
Height above sea level	1000 mt
Maximum load	400 l/min
Noise level	< 50 dB
Classification according to EN 60601-1	Class I - Type BF
Maximum dimensions of the cylinder Ø x H	176 x 900 mm
Dimensions of the evacuation unit L x W x H	400x250x330 mm
Dimensions of the trolley L x W x H	630x950x650 mm
Weight of the evacuation unit	8,5 Kg
Weight of the trolley (without cylinders)	40 Kg
Manufacturer	Sol Welding S.r.l. - Italy

SOL Group, a leading manufacturer of medical, technical, special gases and mixtures since over 80 years makes of continuous innovation its flag, always keeping great sensitivity to the safety of the environments where these products find their applications.