



Medicinal gases everywhere, always on time

EMU Emergency Mobile Unit service consider a full management of medicinal gases emergency situations inside hospitals in different steps:

Training of hospital's personnel

Delivery of emergency units

Complete management and maintenance service



EMU
Emergency Mobile Unit

SOL Group, leader in innovation and new technologies for hospital applications, give birth to a new service (EMU) to ensure the best safety in the use of medicinal gases inside hospitals even in emergency situation that may occur, regarding also patient's life.

EMU, Emergency Mobile Unit

The service ensure the availability of a mobile unit, as an emergency and always available backup of medicinal gases inside critical hospital's department.

If any failures or breakdowns occur on the main distribution line drastically reducing, or even shutting off altogether, the supply of gas, hospital's personnel, through the mobile unit, can ensure the supply of medicinal gases to operating theatres, resuscitation rooms and intensive care departments.

The mobile unit, employed to perform the service, is a Medical Device as stated in European Directive 93/42/CEE.

The Mobile unit is equipped with 4 terminal outlets for medicinal gases and vacuum, an electrical wire housed in a dedicated box section.

The handle ensure moving and operate braking.



Items in “medicinal gases” section

- Pressure regulator for medicinal oxygen and air bottles manufactured in conformity to statements of EN 738-1 (*Pressure regulators for use with medical gases - Part 1: Pressure regulators and pressure regulators with flow metering devices*).
- Two high and two low pressure manometers assembled before and after the pressure regulators.



- Flexible high pressure piping.
- Copper piping in conformity to statements of EN 13348:2001 (*Copper and copper alloys - Seamless, round copper tubes for medical gases or vacuum*).
- Flexible low pressure piping for medicinal gases in conformity to statements of EN 739 (*Low-pressure hose assemblies for use with medical gases*).
- Oxygen and medicinal air terminal units in conformity to statements of EN 737-1 (*Medical gas pipeline systems - Part 1: Terminal units for compressed medical gases and vacuum*).

Items in “vacuum” section

- Vacuum pump equipped with noise suppressor and vacuum regulator.
- Hardness vacuum sensor.
- Bactericidal filtration.
- Trappola per la raccolta dei secreti.
- Two vacuum terminal units, equipped with non return security valve.
- Electrical winding wire for vacuum pump engine supply.
- Flexible vacuum piping.
- Copper piping in conformity to statements of EN 13348:2001 (*Copper and copper alloys - Seamless, round copper tubes for medical gases or vacuum*).
- Vacuum terminal units in conformity to statements of EN 737-1 (*Medical gas pipeline systems - Part 1: Terminal units for compressed medical gases and vacuum*).



EMU service ensures your safety

The service ensure one's safety thanks to the adoption of technical solutions

- All items do not burn under oxygen pressure either in working or failure conditions.
- Terminal units equipped with non return safety valves.
- Security brake.
- A maintenance program, specifically drawn up by SOL for the safety needs required while handling the emergency units, to ensure medical device's performances through time.

Medicinal gases section: technical characteristics

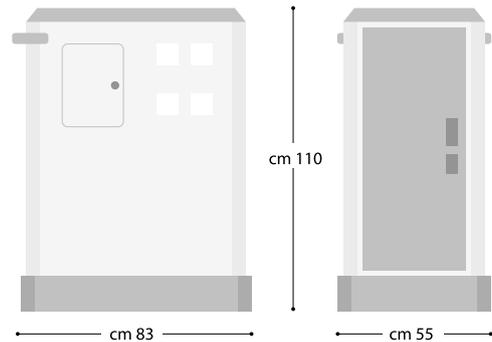
- 1 cylinder for **medicinal oxygen**
- 1 cylinder for **medicinal air**
- Cylinder's capacity **14 liters (approx 3 m³ gas form)**
- Filling up pressure **200 bar**
- Cylinder's dimensions **168 x 807 mm (diameter x height)**
- Working pressure after pressure regulators **4 bar**
- Working flow **35 Nm³/h**
- Security valve setting **12 bar**

Vacuum section: technical characteristics

- 1 vacuum **pump**
- Electrical feed **230V monophase - 50 Hz**
- Final pressure **max 25 mbar (-975 mbar rel)**
- Rotation rate **2850 r/min (50 Hz)**
- Noise level **63 dB**
- Lubricating oil **0.40 liters**
- Vacuum terminal unit working pressure **< -400 mbar (rel)**



unloaded weight 100 kg





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