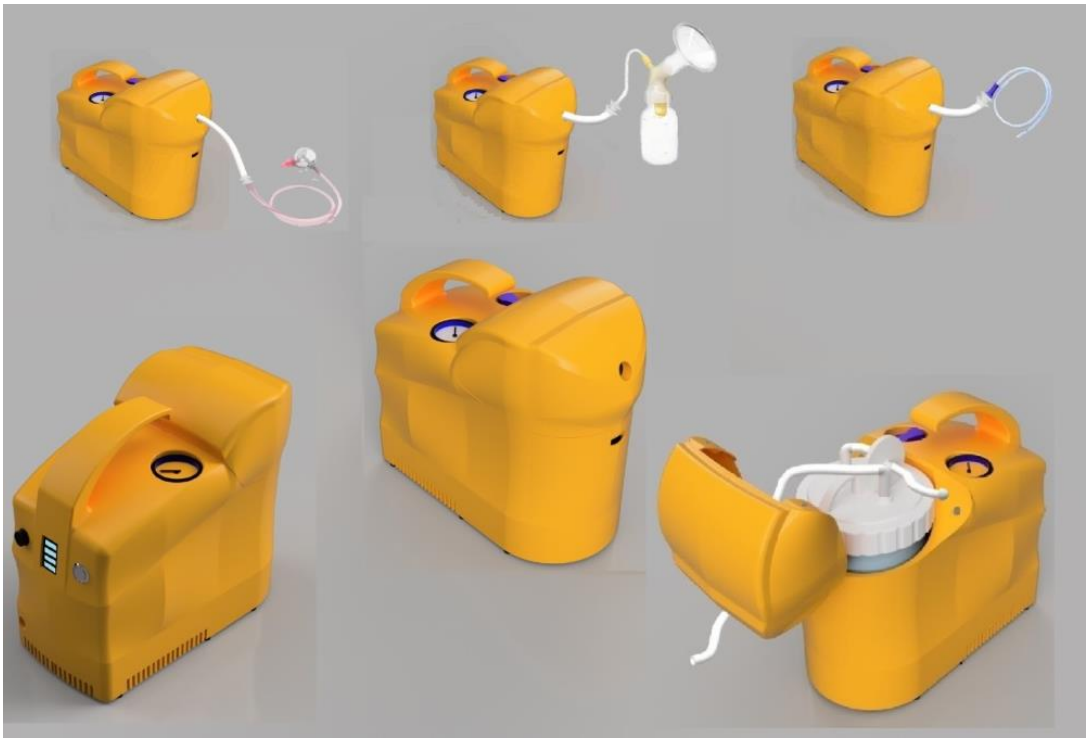
MULTI-FUNCTIONAL MEDICAL SUCTION DEVICE

SUMMARY:
Tracheostomy involves opening the area beneath the larynx, inserting into the tiny opening a properly shaped device, usually bent at right angles, and securing it to the neck in some form (often with a lumbar spine). Because the air bypasses the constriction, it provides continuous breathing and oxygenation. In the absence of appropriate environmental factors, only the most demanding medical device can provide the best treatment effect.



The efficiency of treatment can only be achieved by satisfying all medical needs. It is essential for clinicians to use a reliable, accurate and safe medical aspirator. Accurate medical aspirators provide controllable suction levels and improve safety requirements in hospital wards, surgical sites, pathology laboratories, dental wards, mortality and postmortem rooms. The device is used to remove infectious material from wounds or any fluid from the patient's airway or respiratory system. The device can be used during surgery in the operating room or near patients' beds. The impact of using a mobile device (battery operated device) on patients and their carers is invaluable. Allows safe transportation for examinations, treatments. A portable machine with the right parameters can mobilize the patient and his / her nurse and family. It provides an opportunity to break free between the four walls, to experience familiar and new places and experiences, and to maintain a healthy mental state.

TECHNOLOGY FEATURES AND SPECIFICATIONS:

All models in the technology's model range are designed and built to perform their multi-purpose functions safely in terms of practicality and user requirements, in their most basic features, while distinguishing them from the products currently known on the market. In many ways, the models are seen as a new trend in the suction device market.

We intend to introduce the novel design, high technical parameters, which are not yet exploited in the market, in line with the application of several functions in a wider field of application. We are conquering an area of the market that is so untapped and very large.

- ✓ 4 in 1 device: tracheal, mouth, nose and breast milk suction, by connecting to a container or accessories.
- ✓ Low production cost while maintaining quality.
- ✓ Compact-small size and lightweight.
- ✓ High-quality components - long service life and high operating capacity, reliable operation.
- ✓ Due to its functionality, design, size and capacity, it can be sold and used in a wider area.
- ✓ Discreet and comfortable shape with multi-colored cover colors to help users psychologically.
- ✓ When used for the non-exudate suction function, the container cover element conceals exudate suction functionality.
- ✓ In case of tilting or overturning, the tank does not fall out of the machine while securing the tank cover and the tank housing clamps.
- ✓ Easy service. Due to the design of the enclosure, it is not necessary to modify or change the appliance during servicing or manufacturing during the various parts (compressor, battery) replacement or installation.
- ✓ Portable device - Rechargeable Li-ion battery with high capacity, can be connected to mains, can be equipped with any standard mains connector.
- ✓ The device can also be charged and operated from a car charger, power bank.
- ✓ Compatible with other manufacturers' parts in emergency, with 1/2, 1 and 2-litre tanks
  and can be used with bacterial filters of all sizes. A tall 4-litre tank is also suitable.
- ✓ 3-stage backflow prevention system to protect the reliable operation of the device.
- ✓ 12V internal system to prevent high (220-230V) electric shocks with multi-level short circuit protection. In addition, the mains socket is protected against short circuits.

The technology family currently consists of 3 models, that is, they are classified according to their vacuum capacity:

MODEL	VACUUM CAPACITY	BATTERY
LIGHT	16 Liter/min	Li-ion can be charged in several ways, 4.4 or 20 Ah
MEDIUM	20 Liter/min	Li-ion can be charged in several ways, 4.4 or 20 Ah
MULTI STRONG	40 Liter/min	Li-ion can be charged in several ways, 4.4 or 20 Ah

POTENTIAL APPLICATIONS:

The product has a wide range of application functions, uniform design, technical and technical characteristics, and can be used and marketed in a wide variety of applications, including high potential for treating injuries, treating people traveling with treatment, suctioning phlegm and body fluids, health care, nasal aspiration, serving moms, breast milk to feed children.

- Health care institutions: hospitals, health centers, doctor's offices.
- Public, foundation or private rehabilitation institutions.
- Nursing and care institutions.
- Social facilities: nursing homes, schools, kindergartens, camps.
- Fire brigade, disaster protection, national defense.
- Transport of people: airports, air, rail and bus companies.
- Private - home use: when treating patients, traveling, staying out of the house.

The technology can also be used in hospitality, tourism, entertainment facilities, camps, campsites, beaches, sports facilities, railway stations, and means of transport. With the technology, you can easily overcome many different situations in the family, in other areas of use, and especially in health care settings, saving you time, money and space.

CUSTOMER BENEFITS:

The performance of the units can be increased on demand with 3 types of compressors and 2 types of batteries, without the need for more space. The 40 liter/min vacuum devices (even with battery) is heavy and bulky, but the product has the same dimensions. Other devices are very large, heavy and difficult to use, with such a suction power.
Portable medical aspirators are increasingly being introduced in hospitals and mobile health care units as they provide specialized care even in remote locations.

As the population grows, the pace of life increases, and the environment deteriorates, so does the need for medical equipment where suction equipment is used, and so does the need for medical equipment.
The end-use segment, the treatment of respiratory diseases, is expected to show significant growth, with the rapidly increasing incidence requiring the use of suction cleaners for the respiratory tract. The user-friendly, compact design offers benefits such as a care point and eliminates the need for trained professionals to operate these devices. These benefits increase the need for portable devices.

TYPE OF COLLABORATION:
Licensing, Distribution

If you are interested, please respond to:

Mr. Balázs Mogyorósi
Technology Transfer Manager,
Head of TT Department
LC Innoconsult International
innovacio@lcinnoconsult.com