



NaCLO Project



"About 2 billion people do not have sanitation service and about 3 billion do not have basic hand washing services with soap and water".

(WHO data)

www.naclo-plant.com



<https://www.medivac.it>

About us

MEDIVAC is specialized in the production of medical devices for the collection of EBC (condensed human exhaled breath). The device produced, called "Turbo DECCS System", is used in many countries around the world in medical research applied to the study of diseases of the respiratory system and for the prediction of lung cancer.

MEDIVAC is one of only four companies in the world that produce devices used in this field of medical research and are mainly used in Occupational Medicine, Pneumology and Allergology.

In accordance with its values, strategic decisions and Governance policy oriented towards supporting people and fragile contexts, **starting this year Medivac has undertaken and finalised the path to becoming a Benefit Company.**





What is Medivac's Naclo Project

NaCLO is a key part of the 'Hygiene and Disinfection' project, which aims to encourage and support the dissemination of the culture of hygiene and the importance of disinfection in low- and middle-income countries.

It is an ambitious and wide-ranging project that contemplates health as an essential requirement for the development of countries.

Medivac's NaCLO project has hygiene as a priority: thus, in addition to initiatives aimed at improving hygiene and health, NaCLO also embraces educational, micro-entrepreneurship and international profit-non-profit cooperation initiatives.





<https://www.naclo-plant.com/naclo-30/>

The advantages of NACLO 30 and Solar kit for NaCLO 30

Electrolytic sodium hypochlorite

- disinfectant power with a broad spectrum of efficacy and durability
- flexibility and effectiveness of use through dilution even at low concentrations
- rapid destruction of micro-organisms, fungi, viruses, bacterial spores
- wide range of use (disinfection/sanitization in hospitals, first aid clinics, communities, child hygiene, home sanitization, washing and disinfection of fruit and vegetables, prevention of Ebola and Covid 19, etc)

Production

- easy to use
- very low production costs
- facilitates skills transfer and staff training
- reduced transport costs
- environmental sustainability
- on-demand production





How did the idea for NaCLO come about?

The project is the result of long journeys in rural Africa by our friend Franco Ladavas, a former member of the Board of Directors of Industrie De Nora SpA, a world leader in the construction of electrochemical plants. Thanks also to his experience as a chemist, Ladavas realized how to tackle the serious lack of hygiene in low- and middle-income countries. A shortage made even more dramatic by largely inadequate health systems: a combination that constitutes an enormous obstacle to the overall development of those countries. Ladavas thus became aware that he could contribute to improving the sanitary situation in Africa and founded the Association "Amici di Marco ETS", in memory of his son Marco who died prematurely.

Immediately afterwards, he involved his friend Carlo Valesi and MEDIVAC Srl in the conception and construction of a small electro-chlorinator suitable for producing electrolytic sodium hypochlorite on site in a simple and low-cost way.



Ladavas and Valesi have only one goal: to equip health centers and hospitals with a system for the local and on-demand production of disinfectant. So, in 2009, they installed one of the first devices to produce electrolytic sodium hypochlorite in the hospital of Uvira (Democratic Republic of Congo), thanks to which they could also train local technicians in the management of the equipment, in the production and use of the disinfectant in its different dilutions.

Subsequently, other devices were installed in several African countries and in Bangladesh. During the years 2019-2021, MEDIVAC Srl then undertook to redesign and rationalize the production system to facilitate its transport, installation, and production start-up, also equipping it with photovoltaic panels (optional) to make it usable anywhere.

Thus, the NaCLO 30 mini-plant and the NaCLO Solar kit were born.





Mission & Vision

The mission of the NaCLO project is to promote the culture of hygiene and to participate in the development, not only of health, of communities in low- and middle-income countries.

The vision of the project is to bring NaCLO to the attention of all profit and non-profit organizations that wish to share NaCLO's mission.

“Our Mission is your Vision”

NaCLO today

Over the past year, the NaCLO project has continued to develop through new and significant collaborations.

Among others:

Sierra Leone, 2023: the humanitarian organisation **Bambini nel deserto ONLUS** from Modena, with the collaboration of the local **CARITAS** and the **Madrugada Campus** in Bissau, has equipped thirteen hospitals in the area with devices **NaCLO 30** complete with Solar kit and trained local staff in the use and maintenance of the system.

Benin, 2023: at the **Hopital Saint Jean de Dieu** in Tanguietà, two **NaCLO 30** devices donated by the **Chiesi Foundation** have been installed. With a view to collaboration between the companies, staff training was carried out at the Chiesi company headquarters in Parma by Medivac technicians.

Democratic Republic of Congo, 2023: **MEDIVAC** donated a **NaCLO 30** equipment to the **Agostiniani nel Mondo ONLUS** foundation, which has been installed at the Saint Augustine Vicariate in Kinshasa, in support of the project "Sanitation: a need but also an opportunity". The aim is to guarantee economic support to women, and therefore to families, as a deterrent to the exploitation of child labour; not forgetting the aim of spreading the culture of hygiene and disinfection.

Tanzania, 2023: a **NaCLO 30** device donated by **Medivac** was installed at the **Sumbawanga Regional Hospital**. The aim is to involve the health centre in a pilot project to spread the culture of hygiene and disinfection in the Rukwa region, one of the poorest in the country. This operation is also part of MEDIVAC's CSR programme.

Other activities are being determined in: **South Sudan, Burkina Faso, Senegal and Guinea Bissau.**





The event

“NaCLO for Africa second edition - Hygiene as an essential health requirement for the development of low- and middle-income countries - Challenges and Achievements.

This is an institutional scientific symposium to address the health challenges brought to Africa by: the impoverishment of health systems, the resurgence of endemic diseases or those that were considered eradicated and that may become a real threat even for high-income countries.

In order to meet these challenges, one will also look at how scientific dissemination, skills transfer and the grounding of disinfection practices can be part of the solution. In this context, it must be taken into account how the difficulties of operating in extremely different cultural and social environments can affect.



The location

Labirinto della Masone

#nacloforafrica

It is the largest existing labyrinth in the world, composed entirely of bamboo plants. In total there are about 300 thousand of them, between 30 centimetres and 15 metres tall and belonging to twenty different species. A path in which to wander and get lost, to fantasise and reflect. Evocative plant galleries frame the corridors of the labyrinth, offering visitors shelter and the feeling of being immersed in a suspended dimension. Speckled, striped or unusually coloured bamboo unusual colours reveal surprising views also thanks to the different sizes reached by the various species.

Strada Masone, 121
Fontanellato, Parma (PR) - Italy



Complementarity with the SDG's

“Companies are the only institution that can efficiently meet the needs of consumers on a large scale and address social, environmental and economic changes” (Michael Porter – Harvard Business School)

Sustainability and the creation of shared value are concepts deeply embedded in the DNA of MEDIVAC Srl. Although not yet certified as a Benefit Company or B Corp, in fact, the future impact of production, the social value of the company and the responsibility for the choices made in the business have been points of reference for the ownership since the establishment of MEDIVAC Srl.

Those values and commitments were translated into practice first in the MEDIVAC Srl devices and later in the realization of the NaCLO project.

The NaCLO project acts directly on 2 priority Goals: **SDG 3** ('Good health and wellbeing') and **SDG 6** ('Clean water and sanitation'), it also strongly impacts on **SDGs 4** ('Quality education'), **5** ('Gender equality'), **8** ('Decent work and economic growth'), **10** ('Reducing inequalities'), **11** ('Sustainable Cities and Communities'), **12** ('Responsible Consumption and Production'), **13** ('Climate action') and considers **SDG 17** ('Partnership for the Goals') as a Goal instrument, since it is a means to achieve all the others.

Prioritari



Secondari





MEDIVAC Srl Società Benefit

Via Robert Kock 46/A , Località Pilastrello
43123 Parma - Italy

ph. +39 0521 1815968
naclo@naclo-plant.com

Visit our website for more
information

www.naclo-plant.com

