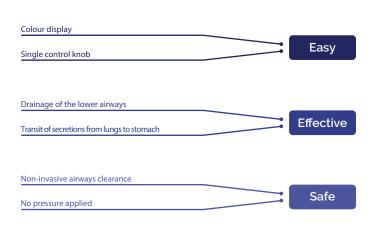


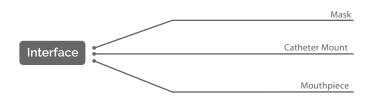
FREE ASPIRE ADVANCED

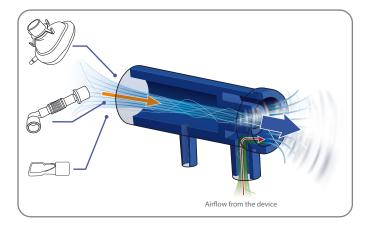
Operating principle

FREE ASPIRE ADVANCED employs EFA® (Expiratory Flow Accelerator) patented technology. Through an acceleration of the expiratory flow, the tracheo-bronchial secretions reach the upper airways, in complete safety and without any contraindications, so allowing the patient to expel them or ingest them if unable to eject them spontaneously.

Therapy with FREE ASPIRE ADVANCED is comfortable and respects the patient's natural breathing pattern. Patients feel no unpleasant sensation during the therapy.







Clinical evidences

Expiratory Flow Accelerator (EFA) technique on mucus hypersecretion of COPD patients with reduced cough efficiency after a severe exacerbation.

E. Zampogna, E. Crisafulli, M. D'Andria, C. Gregorini, G. Bellelli, E. Lucini, S. Faverzani, D. Visca, A. Spanevello, N. Schiavone, A. Chetta, A. Zanini Integrative Clinical Medicine, 2019; 3: 1-6

Airway Clearance with Expiratory Flow Accelerator Technology: Effectiveness of the "Free Aspire" Device in Patients with Severe COPD.

G. Patrizio, M. D'Andria, F. D'Abrosca, A. Cabiaglia, F. Tanzi, G. Garuti, A. Nicolini Turkish Thoracic Journal 2019: 20(4): 209-15

A pilot study on the non-invasive management of tracheobronchial secretions in tracheostomised patients

S. Belli, D. Cattaneo, F. D'Abrosca, I. Prince, G. Savio, B. Balbi ClinicalRespiratoryJournal2019;13.10: 637-642

Airway clearance management with vakum technology in subjects with ineffective cough: A pilot study on the efficacy, acceptability evaluation, and perception in children with cerebral palsy. L.Bertelli, G. Bardasi, S. Cazzato, E. Di Palmo, M. Gallucci, G. Ricci, A. Pession Pediatric Allergy, Immunology, and Pulmonology, 2019, 32.1: 23-27

Free aspire: a new device for the management of airways clearance in patient with ineffective cough

L. Bertelli, G. Di Nardo, S. Cazzato, G. Ricci, A. Pession, Pediatric Reports 2017; volume 9:7270

Management of bronchial secretions with Free Aspire in children with cerebral palsy: impact on clinical outcomes and healthcare

G. Garuti, E. Verucchi, I. Fanelli, M. Giovannini, J.C. Winck, M. Lusuardi Italian Journal of Pediatrics (2016) 42:7

Airways Clearance Techniques in Cystic Fibrosis: Physiology, Devices and the Future

A. H. Kendrick

Cystic Fibrosis - Renewed Hopes Through Research - Edited by Dinesh Sriramulu 2012 |cap 22 | 493-518

"One of the other ways of removing excess sputum from the airways is by increasing airflow along the airways.

During normal tidal breathing the airflow can be artificially increased by applying a venturi effect within a breathing circuit, and this increase in the velocity of the air can enhance the movement of sputum. This is achieved because the movement of air above a layer of mucus develops a shearing force over the surface of this liquid layer. When the shearing force exceeds the surface tension in the mucous layer, the mucus starts to move in the direction of the air flow.

(Cystic Fibrosis - Renewed Hopes Through Research)

Clinical applications

COPD

Neuromuscular diseases

Cerebral palsy Dysphagia Post Stroke

Cystic Fibrosis Bronchiolitis

Post-surgery rehabilitation

ICU Neonatology

Technical Data

C€₁₉₃₆

Power supply: 100-240V AC - 50-60 Hz Electrical absorption: 25W Electrical protection class: Class II

Applied part type: Type BF IP protection grade: IP21

Dimensions and weight: 20,5 x 22 x 15 cm - 1,08 Kg

Medical Products Research Srl states that Free Aspire Advanced is compliant with the DM 93/42/CEE directive, class IIa.

The safety of the device is verified in accordance with the issued international standards.

This technical specification is updated at the printing time and may change according to our policy of continuous improvement @MPR srl

