

Breathing for the most critical patients



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MonnalTM T60 Advanced is a class IIb air turbine medical device for the treatment of infants (from 3 kg), children and adults, intended for hospital use in intensive care, emergency and intra/extra-hospital transport - The acts carried out with Monnal™ T60 Advanced are covered by the health insurance bodies in certain situations.

Manufactured by Air Liquide Medical Systems - Conformity assessment: GMED 0459 - Commercial code: R.C.S. Nanterre 348 921 735 - Please read the user manual carefully.

Air Liquide Medical Systems is committed to an environmental approach with a quality-environment management system certified ISO 14001:2015. For more information, go and visit our website https://www.device.airliquidehealthcare.com/our-commitments

Designed for the most critical patients



Functions adapted to each department



Monnal[™] T60 Advanced is the solution designed to meet caregivers needs and most critical patient management.

Monnal[™]T60 Advanced is designed to provide invasive or non-invasive ventilatory support to all patients with acute respiratory distress, and is adaptable to specific environments and situations.

Monnal[™] T60 Advanced adapts to all intrahospital environments (from bedside to patient transfers):

- in the intensive care, post-resuscitation and post-operative monitoring departments
- in emergency departments, in the emergency resuscitation room
- during Inter-hospital transfers

Monnal[™] T60 Advanced is also suitable for outof-hospital transport, meeting the requirements of emergency situations:

• in land and air mobile units, helicopters, airplanes, and long distance medical transport



Integration of the APRV mode

Monnal[™] T60 Advanced mode integrates the APRV (Airway Pressure **Release Ventilation**) mode, enabling invasive ventilation at two asynchronous pressure level

Allows the patient to breathe spontaneously in a pressurecontrolled mode

1. Habashi. Other approaches to open-lung ventilation: airway pressure release ventilation 10.1097/01.ccm.0000155920.11893.37

O Advanced monitoring: the partner of secure ventilation

MonnalTM T60 Advanced provides comprehensive and advanced monitoring, which is crucial for monitoring and adapting the care of the most critical patients. Thanks to its monitoring functions, the Monnal[™] T60 Advanced provides:

Orall Protective ventilation monitoring

- VTe/PBW: monitoring of tidal volume exhaled according to the patient's predicted weight (gender and height entered)
- Pplateau: measurement of plateau pressure with alarm thresholds
- **PEEP:** measurement of total PEEP, allowing the estimation of autoPEEP
- Driving Pressure: monitoring of the patient's elastic pressure (PPlateau – PEEP)
- Static and dynamic compliances: measurement of static compliance (Cstat) and estimation of dynamic compliance (DynC)





- Expiratory minute volume (Spont MVe): evaluation of the patient's spontaneous breathing level.
- Spontaneous respiratory rate (Spont RR): assessment of the patient's spontaneous breathing rate level

The companion of health care teams

• A simple and intuitive interface

Monnal[™] T60 Advanced is an intuitive ventilator that allows teams to quickly become familiar with the ventilator and focus on other aspects of patient management.

The customizable interface allows to adapt according to each department's protocols.



cardiopulmonary arrest

The CPV solution offers technical innovations for each stage of cardiopulmonary resuscitation (CPR) that are specifically designed for rescuers². It is intended for mobile emergency units, intra- or inter-hospital transport, and specialized departments.

The CPV solution with EtCO₂ (optional) allows monitoring of the patient's capnography while deducing a prognostic factor of spontaneous return of circulation³.

O ECLS environment

circulation.

2. D Perkins. European Resuscitation Council Guidelines for Resuscitation 2015 10.1016/j. resuscitation.2015.07.015 3. Touma et al. The prognostic value of end tidal carbon dioxide during cardiac arrest 10.1016/j. resuscitation.2013.07.011



◎ Integration of the CPV solution to manage

The ECLS (ExtraCorporeal Life Support) function is a dedicated environment that supports the clinician in changing ventilation procedures while setting up extracorporeal



Mobile, autonomous and versatile

Seasily transportable

• Light and compact: 4 kg

- **Self-powered:** 5 hours in total (internal battery + removable battery, in standard configuration on adult ventilation). The internal battery is only a backup power supply.
- Built-in accessories: fixing and protection systems for optimal patient configuration and movement: wall-mounted charging station, carrying bag, universal intra-hospital support, rolling stand

◎ Self-contained air device

- Turbine technology
- Peak flow: 230 l/min for effective NIV breathing assistance
- Rapid pressurization (max of 120 cmH₂0/s): to best meet the patient's inspiratory demand
- Quiet operation: to preserve the noise environment (48 dBA at 1 m)

Health crisis and extreme situations

\odot Beyond department walls

In a congested ICU situation, **Monnal[™] T60 Advanced** extends allows ventilatory management beyond the ICU and recovery room alone.

Monnal[™] T60 Advanced does not require a compressed air supply. Only (high or low pressure) oxygen, to enrich the mixture.

Thanks to its electrical autonomy and turbine, ventilation is maintained in case of a loss of oxygen.

O Nasal high flow oxygen therapy

Monnal[™] T60 Advanced incorporates the Hflow function that allows caregivers to perform high flow nasal oxygen therapy.

The Hflow function is available for **all patient** categories directly on the **Monnal[™] T60 Advanced** start screen.

For most critical ill patients ARDS, COVID+, ECMO...



Specific environments Medical evacuation Inter-hospital transport In land and air mobile units (train, airplane, helicopter)





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Monnal[™] T60 Advanced For the most critical patients, in extreme situations



Extreme situations Emergencies Health crisis