



Product Catalog

Monnal T60

Options - Accessories - Consumables

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Air Liquide Medical Systems

Air Liquide Medical Systems is the subsidiary of Air Liquide Healthcare dedicated to Medical Devices.

We are committed to working alongside those who fight for life by creating devices that are very simple to use and by transforming standards of care. We are committed to offering patients a better quality of life.



Monnal T60 ventilator

Presentation



Monnal T60 was designed for mobile medical interventions in extra- and intra-hospital intensive care environments (land and air transport standards), as well as in post-operative care rooms.

Monnal T60 is capable of ventilating critically ill patients, adults, children and infants as from 3 kg. Care for these patients can be adapted thanks to its many different modes and non-invasive ventilation.

The large color touch screen makes it easy and quick to use. Combined with a complete monitoring system (etCO₂, plateau pressure, etc.), it contributes to the patient's safe ventilation.

[Download the Monnal T60 brochure](#)



Ventilation

Types	Controlled volume, Controlled pressure, Inspiratory assistance, Spontaneous
Modes	<ul style="list-style-type: none"> • (A)VCV, (A)VCV – NIV • (A)PCV, (A)PCV – NIV • VSIMV, VSIMV – NIV • PSV, PSV – NIV • CPAP – NIV • Option: PS-Pro, Duo-Levels, PSIMV / PSIMV-NIV, PRVC
CPV (option)	<p>Cardio-Pulmonary Ventilation:</p> <ul style="list-style-type: none"> • CPV start parameters pre-set in accordance with international recommendations. • Applies from mask ventilation until endotracheal intubation.
“Emergency” mode	<ul style="list-style-type: none"> • Automatic preselection of ventilation parameters with a height/gender setting (PBW*) for an infant, child and adult. • Choice of ratio ml/kg
Function	High-flow oxygen therapy

Screen

Technology	<ul style="list-style-type: none"> • LCD 262k color screen (18 bits) • Resistive touch screen
Size	8.4 inches
Resolution	640x480 pixels
Brightness	<ul style="list-style-type: none"> • 800 cd/m² • LED backlight • Brightness adjustment • Day/night screen display

Physical features

Dimensions	29 x 25 x 11 cm (W x H x D)
Weight	3.7 kg (4 kg with 2 batteries)

Alarms

Adjustable by the user (non-exhaustive list)	<ul style="list-style-type: none"> • Low/high pressure, • High plateau pressure, • Low/high VTi, • Low/high MVi, • Low/high MVe, • Low/high VTe, • Low/high respiratory rate, • Low/high FiO2, • Low/high etCO₂,
Specific alarms	<ul style="list-style-type: none"> • Patient disconnection, • Expiratory obstruction, • Flow sensor, • Power supply, batteries • Gas inlet, • Patient pre-oxygenation • Mains cable unplugged
Characteristics	Adjustable volume, 5 criticality levels

Specific functions

Apnea ventilation	Adjustable apnea tidal volume, frequency and duration
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Monitoring parameters

Parameters measured	Measurements	Trend
Exhaled minute volume (MVe)	0 to 99 l/min	Yes
Exhaled tidal volume (VTe)	20 to 3000 ml	Yes
Inhaled minute volume (MVi)	0 to 99 l/min	Yes
Inhaled tidal volume (VTi)	20 to 3000 ml	Yes
Respiratory rate (RR)	1 to 120 Bpm	Yes
Peak airway pressure (Ppeak)	0 to 100 cmH ₂ O	Yes
Positive expiratory pressure (PEP)	0 to 100 cmH ₂ O	Yes
Mean pressure (Pmean)	0 to 100 cmH ₂ O	Yes
Plateau pressure (Pplat)	0 to 100 cmH ₂ O	Yes
Leak index	0 to 100%	Yes
TI/Ttot	1 to 50%	Yes
I/E ratio	1/1 to 1/9	Yes

Parameters measured	Measurements	Trend
FiO ₂	21 to 100%	Yes
EtCO ₂ (optional)	0 to 100 mmHg	Yes

Curves

- Pressure
- Flow (inspiratory flow in all modes, CPV included)
- Volume
- CO₂ (optional)
- Adjustable scales

Loop curves (optional): Pressure/Volume, Pressure/Flow rate, Flow rate/Volume, Volume/CO₂

Trends

80 h

Pneumatic specifications

Type of gas connector (high pressure)	<ul style="list-style-type: none"> • NF • DISS • NIST
O ₂ high pressure supply	2.8 - 6 bar / 280 - 600 kPa / 40 - 86 psi (HP)
O ₂ low pressure supply	0 - 1.5 bar / 0 - 150 kPa / 0 - 22 psi (LP)
Air supply	Integrated turbine Turbine: autonomous, ambient air supply via through HEPA filter

Accessories and consumables

Solutions and options

CPV solution

CPV (Cardio Pulmonary Ventilation) is a ventilation solution dedicated to managing patients in cardiac arrest. CPV provides technological innovations for carers at every stage of the Cardiopulmonary Resuscitation (CPR) process. It is designed for mobile emergency units and intra- or inter-hospital transport.

i Note: The software program and the accessories for the monitoring of CO₂ are optional and do not form part of this product reference.

Monnal T60 CPV solution

KA015700

Contains: CPV label, CPV start guide.



Capnography option

EtCO₂ software option

KA010700

IRMA™ CO₂ probe

Designed to be connected to a patient circuit to monitor inhaled/exhaled gases. Connect the probe to the adapter and then to the machine and the patient.

Probe supplied following the purchase of the option, etCO₂.



KB020400

IRMA™ CO₂ adapters (adult/child)

Specific adult and child adapter.

Pack of 25.

Enables the connection of the IRMA probe to the patient circuit.

Single use, non-autoclavable.



KB020300

IRMA™ CO₂ adapters (infant/newborn)

Specific infant adapter.

Pack of 10.

Enables the connection of the IRMA probe to the patient circuit.

Single use, non-autoclavable.



KB032800

Additional monitoring and ventilation option

Duo-Levels mode	KA012300
PSIMV / PSIMV-NIV mode	KA014900
PS-Pro mode	KA015000
PRVC mode	KA015100
PSIMV / PS-Pro / PRVC / Duo-Levels pack modes	KA015200
Loop curves: Pressure/Volume, Pressure/Flow rate, Flow rate/Volume, Volume/CO ₂	KA012400

High-flow oxygen therapy

Latest-generation humidifier FR MR850



VD341100

Probe + adapter + RT380

Kit associated with reference VD341100. Fisher & Paykel solution.



Comprising one adapter for heated circuit, one double temperature probe and two RT380 single-use dual limb patient circuits with humidification chamber.

VD340900

Compatible with use on adults.

Pack of 2.

Optiflow nasal nozzle

Nasal nozzles associated with the MR850 humidifier.



Interface comprising two nasal nozzles, a supple and flexible hose and an adjustable head strap.

Pack of 20.

VD341000 - Not Available in Canada

Transport and securing systems

Transport

Carrying case Monnal T60

Optimizes the device's outdoor use while providing protection. Can be tilted up to 45° to improve visibility of the screen. Can be attached at the rear and used to store consumables. The device's touch screen is protected by a transparent plastic flap.



KF007800

Removable protective screen for carrying case.

KF008000

Note: For carrying cases manufactured as from 2015.

Mobile stand

Mobile stand **Monnal T60**

Five-caster mobile stand specially designed for the **Monnal T60**. Can carry a humidifier, gas cylinder, articulated arm and autoclavable basket.



KA010100

Table top stand **Monnal T60**

For rapid fastening of the **Monnal T60** to a horizontal table top stand.



KA012600

Articulated arm with quick central fastening and rail holder 1 m

KB019200

Total length: 100 cm. Quick central fastening.

Contains a tightening nut and a rail holder.

Comprises 3 joints.

Articulated chromed arm with three clamps and a flexible end 1.43 m

Total length: 143 cm.

Does not contain a tightening nut.

Comprises 3 joints.



KB005200

Articulated chromed arm with three clamps and a flexible end 1.43 m

Total length: 100 cm.

Quick central fastening.

Contains a tightening nut. Does not contain a rail holder.

Comprises 3 joints.



KA017105

Securing systems

Wall-mounted charging station

Allows the **Monnal T60** to be installed in a mobile land vehicle, on medical arms, on rails or on a bracket. Charges the batteries of the **Monnal T60**. Unlocking of the **Monnal T60** with the red lever under the ventilator.

Materials: stainless steel.

Compatible with the carrying case of the **Monnal T60**.



KA010300

Universal rail holder

Compatible with the wall-mounted charging station for the **Monnal T60**. Serves to connect the station to a rail.



PE750003

Wall-mounted charging station kit

Kit comprising the wall-mounted charging station for the **Monnal T60** and the universal rail holder.

Serves to connect the station to a rail.



KA011100

Collet fixture for charging mount on vertical tube

Serves to secure the wall-mounted charging station for the **Monnal T60** to a rail. Pack of 2.



KB016800

Snap hooks for the Monnal T60

Serves to hook the **Monnal T60** in its carrying case for travel by helicopter.

Pack of 2.



KA013300

Intra-hospital universal support

Comprises fold-away hooks. Serves to install the **Monnal T60** on a hospital bed or a stretcher while the patient is being transferred.

Compatible with the **Monnal T60** carrying case.



KA010400

Standardized assembly on sliding rail

Sliding rail arm 30.5 cm long



KA016900

Assembly on vertical tube

Tube arm 20.3 cm long (tube diameter 38 mm)



KA017000

Tube arm 20.3 cm long (tube diameter 38 mm) with clamp diameter 19-51 mm



KA017100

Assembly on vertical rail (thickness: 10 x width: 25-40 mm)

Vertical rail arm 30.5 cm long



KA016500

Assembly on horizontal rail (thickness: 10 x width: 25-40 mm)

Horizontal rail arm 30.5 cm long



KA016700

Double horizontal rail arm 30.5 x 30.5 cm



KA016800

VESA plate interface (100 x 100) MT60 for articulated arm



KA016400

Power supply

Removable battery

Removable battery: essential if intentionally used on the **Monnal T60** battery.

Lithium-ion battery.

Weight: 0.3 kg



KY692800

Monnal T60 EU battery charger with EU power cord

Monnal T60 battery charger kit comprising: 1 EU power cord, 1 lithium battery charger unit and 1 charging socket.

The battery charger functions with one **Monnal T60** removable battery.

The indicator light on the charger shows the battery's status.



KA012700

EU power cord 2.5 m

Grid-power cord adapted to the European market. For the complete list, see [Country kits](#).

Length: 2.50 meters



YR094100

External power supply 2.5 m

Comprises a cable + power unit with four-pin plug.

Plugs into the power supply socket of the **Monnal T60**.

Length: 2.50 meters



YR115700

Cigar lighter lead for ambulance or helicopter 12-24V (2.5 m)

Cable with four-pin plug.

Serves to plug the **Monnal T60** into an ambulance or helicopter with a 12V or 24V power supply.



Length: 2.50 meters

YR123700

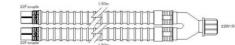
Single-use consumables

Single-use patient circuits

Adult patient circuits

Single use dual limb adult patient circuit (without water trap)

Dual limb patient circuit without water trap, smooth interior, single use.



Made by Intersurgical.

KG501516

Length: 1.6 m / Diameter: 22 mm / Connection: 22F at outlet.

Designed for adult patients.

Pack of 12.

Child patient circuits

Single use dual limb pediatric patient circuit 1.5 m (without water trap)

Dual limb patient circuit without water trap, smooth interior, single use.



Length: 1.5 m / Diameter: 15 mm / Connection: 22F at outlet.

KG020200

Designed for pediatric patients.

Pack of 20.

Single use dual limb pediatric patient circuit 1.6 m (with water trap)

Dual limb patient circuit with water trap, ribbed interior, single use.



Length: 1.6 m / Diameter: 15 mm / Connection: 22F at outlet.

Designed for pediatric patients.

Pack of 10.

VD317600

Single-use valves



Equipped with expiratory valve body. Single use.

Color: transparent.

Combine with the single-use expiratory flow sensor to create a complete assembly.

Single-use Monnal Eva expiratory valve (with membrane)

KY694800

Pack of 5.

Single-use Monnal Eva expiratory valve (with membrane)

KY694900

Pack of 20.



Expiratory flow sensor. Single use.

Color: transparent

Combine with the single-use expiratory valve KY694800 or KY694900 to create a complete assembly.

Single-use expiratory flow sensor

KY664500

Pack of 5.

Single-use expiratory flow sensor

KY664600

Pack of 20.

Single-use masks

Non-vented face masks



Supplied with: 1 cushion + headgear (fitted)

Mask supplied with dual-wall cushion and adjustable headgear.

Single use.

Composition: biocompatible silicone

Respireo Hospital NV Disposable - S KM222100

Single use mask size S.

Respireo Hospital NV Disposable - M KM222200

Single use mask size M.

Respireo Hospital NV Disposable - L KM222300

Single use mask size L.

Single-use filters

Bacteriological filter for inspiratory output KV103300

Pack of 50.

Monnal Clean'In filter **Monnal T60** (HEPA filter)



KY691400

Reusable consumables

Reusable valves

Expiratory valves

Monnal Eva autoclavable expiratory valve (with membrane)

Equipped with expiratory valve body. Autoclavable.

Color: blue

Combine with the autoclavable expiratory flow sensor to create a complete autoclavable assembly.



KY694500

Single-unit pack.

The membrane is a single-use product.

Autoclavable expiratory flow sensor

Color: blue

Combine with the autoclavable expiratory valve body to create a complete autoclavable assembly.



Single-unit pack.

KY632200

Single-use membrane

Single-use membrane for the Monnal EVA range.

Pack of 5.

New membrane to be inserted into the expiratory valve assembly.



KY665300

Reusable masks

Non-vented face masks



Compatible with Monnal and eXtend ventilators, and all valve ventilators.

Mask supplied with dual-wall cushion and adjustable headgear.

Approved decontamination, disinfection and sterilization protocols.

Composition: polycarbonate, polypropylene, nylon, biocompatible silicone, polyurethane.

Respireo Hospital NV Reusable - S

KM218800

Multi-patients mask size S.

Respireo Hospital NV Reusable - M

KM218900

Multi-patients mask size M.

Respireo Hospital NV Reusable - L

KM219000

Multi-patients mask size L.

Non-vented face mask accessories - reusable

Disposable headgear

Compatible with autoclavable masks.



Composition: nylon, polyurethane.

Pack of 10.

KM222400

Respireo Primo cushion F - S

Cushion size S associated with autoclavable masks KM218800.



Composition: biocompatible silicone

Pack of 10.

KM218500

Respireo Primo cushion F - M

KM218600

Cushion size M associated with autoclavable masks KM218900.

Pack of 10.

Respiro Primo cushion F - L

KM218700

Cushion size L associated with autoclavable masks KM219000.

Pack of 10.

Nebulization

Reusable

Aéroneb Pro autoclavable nebulizer solution France

Comprises the nebulizer (aerosol generator and filling cap), a T piece with cap, the control module and its cable, the AC/DC adapter and mounting brackets. The T piece enables the connection to the respiratory circuit.



KB028600 - Not Available in Canada

Single use

Aéroneb Solo single-use nebulizer solution France

KB029300 - Not Available in Canada

Test lungs

Test lung 1 liter (adult/child)

Used to check the functions and accuracy of the ventilator when disconnected from a patient.



Simulates the resistance and elasticity of a lung.

Category: adult and child.

VS206103

Test lung 0.3 liter (infant)

Used to check the functions and accuracy of the ventilator when disconnected from a patient.

Simulates the resistance and elasticity of a lung.

Category: infant.



KV103500

Information transfer

Information transfer

2GB USB key

YR112900

2GB USB key intended for the **Monnal T60**.

Enables information to be transferred with the **Monnal T60**.

MT60 connectivity dongle

Serves to connect **Monnal T60** to a computer.

An RS232 point (for the computer) and a USB point (for the **Monnal T60**).



YR135600

Other accessories and consumables

Oxygen cell

Serves to measure the O₂ concentration inhaled by the patient.



YR049700

Monnal T60 plate and fastener kit

KA015400

Cardboard box **Monnal T60**

YH100004

MR850 humidifier holder for MT50/MT60/MT75 mobile stand

KY664100

Country kits

Country	Ref.CK	U.M.Language	Gas	Plug	Ref.powercord
Algeria • Overseas French departments and territories • France • Morocco • Syria • Tunisia • Turkey	KA010200	French	NF	EUR	YR094100
Anglophone Africa • Egypt • Indonesia • Iraq • Iran • Israel • Jordan • Kuwait • Lebanon •	KA011300	English	NF	EUR	YR094100
Pakistan					
Spain	KA011500	Spanish	NF	EUR	YR094100
Italy	KA010800	Italian	NF	EUR	YR094100
Poland	KA011600	Polish	NF	EUR	YR094100
Portugal	KA011700	Portuguese	NF	EUR	YR094100
Czech Republic	KA011800	Czech	NF	EUR	YR094100
Russia	KA012200	Russian	NF	EUR	YR094100
Chile • Ecuador • Peru	KA013900	Spanish	NF	US	KY485100
India	KA011000	English	NF	INDIA	KY647300
Belgium	KA011900	French • German	NF	EUR	YR094100
		Dutch			
Argentina	KA013100	Spanish	DISS	EUR	YR094100
Philippines • Thailand	KA014400	English	DISS	US	KY485100
Colombia • Mexico • Uruguay • Venezuela	KA014000	Spanish	DISS	US	KY485100
UK	KA010900	English	DISS	BS	KY128501
Saudi Arabia	KA014100	English	DISS	EUR	YR094100
Saudi Arabia	KA014200	English	NIST	EUR	YR094100
Germany	KA011400	German	NIST	EUR	YR094100
The Netherlands	KA012500	Dutch	NIST	EUR	YR094100
Switzerland	KA012000	French	NIST	EUR	YR094100
		German • Italian			
Switzerland	KA013600	French	NIST	CH	YR128901
		German • Italian			

Contact

INTERNATIONAL:

Parc de Haute Technologie
6 rue Georges Besse
92 182 Antony Cedex, France www.device.airliquidehealthcare.com

CANADA:

Air Liquide Healthcare Canada
6990 Creditview Rd., Unit 6
Mississauga, ON L5N 8R9 Canada
airliquidehealthcare.ca
cs.vitalaire@airliquide.com Tel: 1-888-629-0202
Or find your sales representative here: www.airliquidehealthcare.ca/about/find-a-rep