

EVERYWHERE
THERE IS
A LIFE TO SAVE





Colibrì is the **lightest system**
equipped with gold standard features and unique advanced technologies
for unlimited ECLS clinical applications



GOLD STANDARD FEATURES

Equipped with state-of-
the-art technology to
improve patient outcomes

Magnetic levitation pump technology
to treat any patient size

Advanced parameters detection
for complete monitoring

**Up to 30 days validation
& fully coated surface**
for long term applications



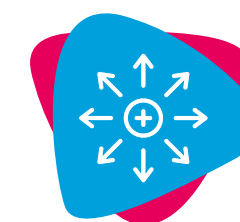
UNIQUE ADVANCED TECHNOLOGIES

Featuring unique
accessories to facilitate
patient care

Cableless accessories
for continuous remote
monitoring

Dedicated wi-fi echo
for easier emergency cannulation

Automatic priming function
for safe & user-friendly set-up



UNLIMITED ECLS THERAPEUTIC APPLICATIONS

Designed to deliver ECLS therapy
anywhere and
in every clinical setting

Minimized weight & dimension
to easily perform E-CPR
and ECLS transport

Smart transport solutions
for convenient device movement

Seamless integration with Xtreme Rescue
an innovative back-up system



GOLD STANDARD FEATURES

Equipped with state-of-the-art
technology to improve
patient outcomes

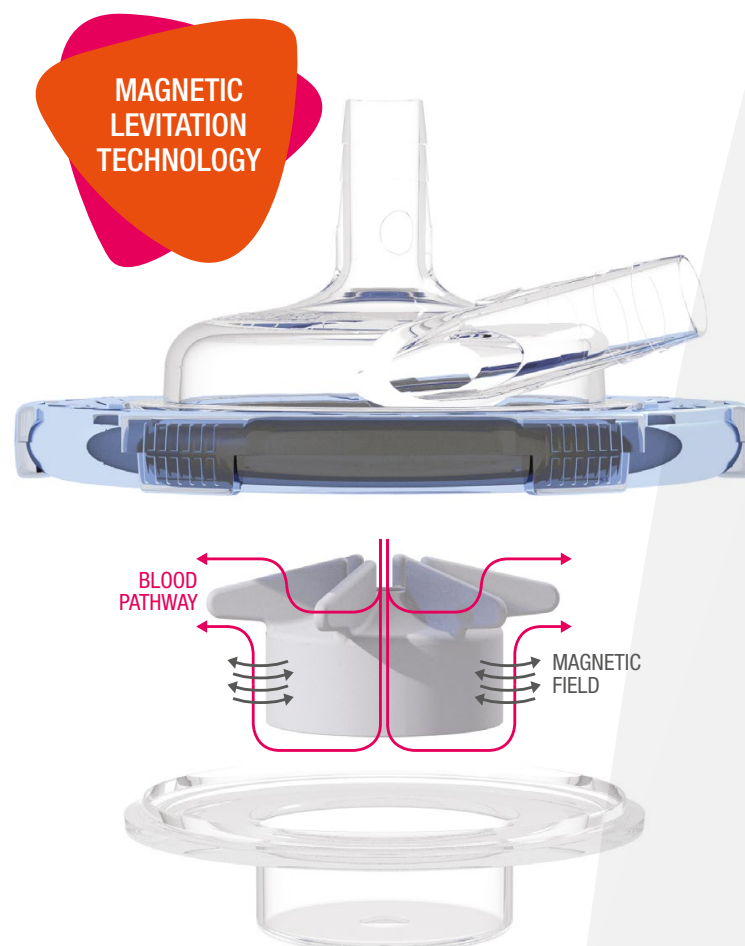


ADULT, PAEDIATRIC AND NEWBORN MAGNETIC LEVITATING PUMPS TO TREAT ANY PATIENT SIZE

Colibrì features a fully magnetic-levitated centrifugal pump.

The pump is available both in Adult/Paediatric and Newborn configurations and is characterized by an impeller's contact-free environment that ensures:

- Optimal flow dynamics
- Reduced blood stagnation areas
- Minimal friction and shear stress
- Minimized hemolysis¹



1. Condello et al. Magnetic levitation pump versus constrained vortex pump: a pilot study on the hemolysis effect during minimal invasive extracorporeal circulation, Journal of Cardiothoracic Surgery, 2021

Technical Features

Limitations

Blood flow range:
Centrifugal pump speed:
Blood pathway volume:
Max blood pathway pressure

Adult and Paediatric

0-10 l/min
0-5000 rpm
39 ml
800 mmHg (107 kPa)

New Born

0-3.0 l/min
0-4500 RPM
22 ml
800 mmHg (107kPa)

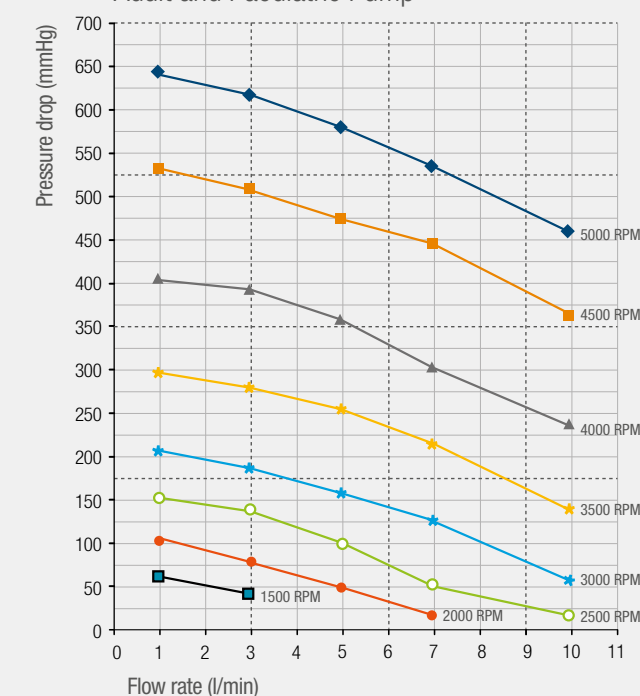
Ports

Blood inlet: 3/8" (9.53 mm)
Blood outlet: 3/8" (9.53 mm)

1/4" (6.35 mm)
1/4" (6.35 mm)

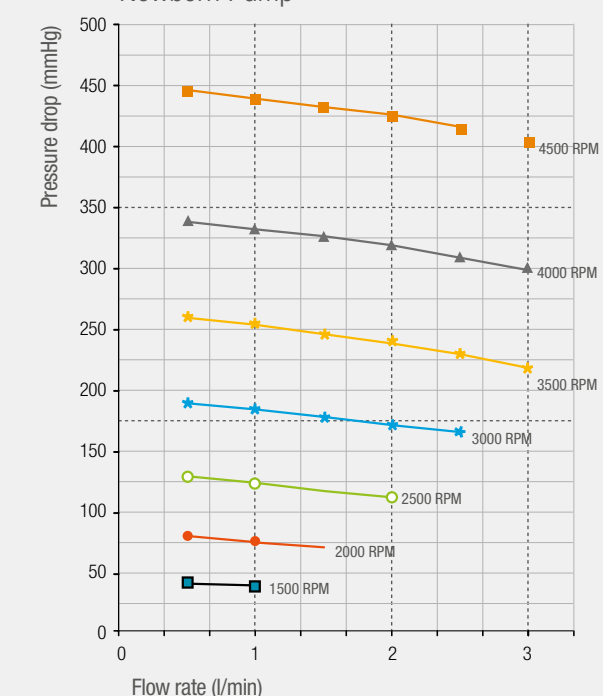
PERFORMANCE GRAPH¹

Adult and Paediatric Pump



PERFORMANCE GRAPH²

Newborn Pump



Hydraulic performance data: PERFORMANCE GRAPH

1 Pressure differential vs. flow rate (average of TIME 0 samples data). Data gathered from test in accordance with ISO 18242 standard. Conditions: Anticoagulated Bovine Blood, Hb = 12±1 g/dL, Temp. 37±1°C.

2 Pressure differential vs. flow rate (average of TIME 0 samples data). Data gathered from test in accordance with ISO 18242 standard. Conditions: Blood analogue with 3.5 cP dynamic viscosity, Temp. 37±1°C.

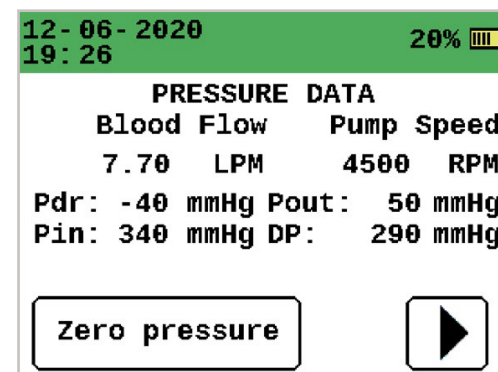
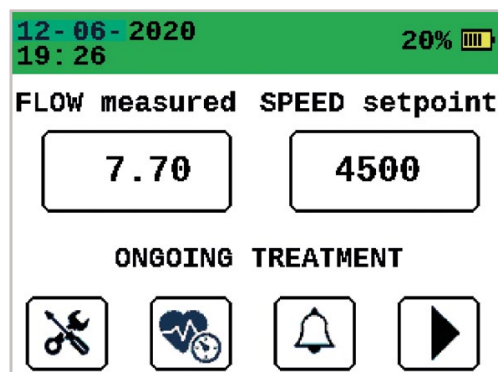


ADVANCED PARAMETERS DETECTION FOR COMPLETE MONITORING

Despite its minimized footprint, Colibrì is equipped with 2 non invasive sensors that ensure continuous monitoring of 7 parameters displayed in real time and provide the operator with full control during the procedure.

With only two short cables to manage, the monitoring is effective even during transport, ensuring safety for patient and comfort for healthcare professionals running the device.

- ① Blood flow (LPM)
- ② Pump speed (RPM)
- ③ Bubble detection



④ Drainage pressure (P_{DRAIN})

⑤ Pre oxygenator pressure (P_{IN})

⑥ Post oxygenator pressure (P_{OUT})

⑦ Oxygenator Pressure drop (DP)



UP TO 30 DAYS VALIDATION & FULLY COATED SURFACE FOR LONG TERM APPLICATIONS

The circuits for ECMO and MCS come completely pre-connected and assembled in a kit.

Oxygenator and pump are located on a dedicated bracket ensuring:

- Easy and quick disposable set up
- Clear view of circuits integrity
- Minimized encumbrance

Dedicated ECMO Oxygenator Module

The circuits feature Adult, Paediatric or Newborn modules, clinically proven to be efficient and highly biocompatible solutions for prolonged cardio-respiratory support¹.



ADULT MODULE



NEWBORN MODULE



PAEDIATRIC MODULE

1. Pieri et al., A new phosphorylcholine-coated polymethylpentene oxygenator for extracorporeal membrane oxygenation: a preliminary experience, Perfusion, 2013

Phosphorylcholine coated circuit for reduced platelets consumption

Phosphorylcholine is the predominant lipid headgroup found within the outer layer of cell membranes.

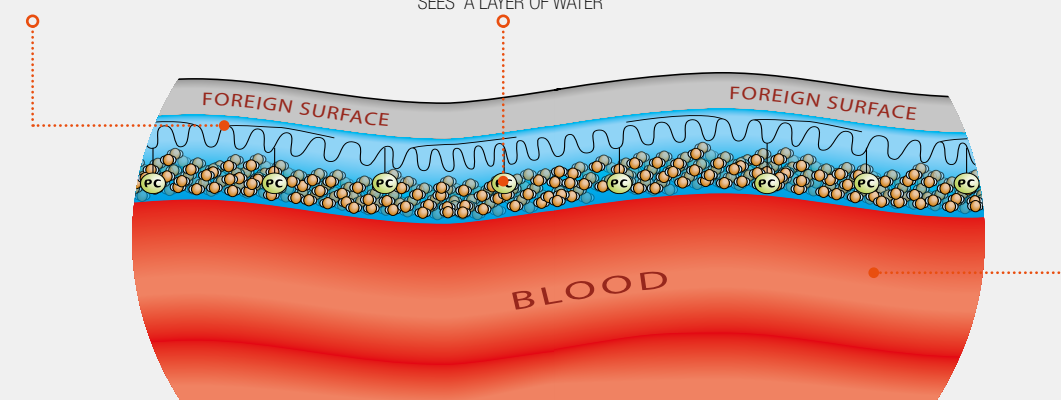
Phosphorylcholine has a natural affinity for water and binds water tightly around itself.

- Reduces platelet consumption remarkably.¹
- Phosphorylcholine coating is suitable for patients with acute HIT (Heparine Induced Thrombocytopenia)².

ALKALINE CHAINS SPREAD ACROSS THE SURFACE YIELDING A STABLE COATING THROUGH HYDROPHOBIC INTERACTIONS

LAYER OF HYDRATION AROUND PC
- WITH A COATED SUBSTRATE THE BLOOD THEREFORE "SEES" A LAYER OF WATER

ZWITTERIONIC PC GROUPS EXPRESSED OUTWARDS FROM THE SURFACE



1. R. Lorusso et al. Effects of phosphorylcholine coating on extracorporeal circulation management and postoperative outcome: a double-blind randomized study. Interactive CardioVascular and Thoracic Surgery 8 (2009) 7–11.
2. F. Pappalardo et al. Bioline® heparin-coated ECMO with bivalirudin anticoagulation in a patient with acute heparin-induced thrombocytopenia: the immune reaction appeared to continue unabated. Perfusion 2009; 24: 135–137



UNIQUE ADVANCED TECHNOLOGIES

Featuring unique accessories
to facilitate patient care



CABLELESS ACCESSORIES FOR CONTINUOUS REMOTE MONITORING

Colibrì is the first ECLS transportable device with integrated Wi-Fi Module that allows the connection to a dedicated Medical Tablet for:

- ♥ Mirroring of all parameters measured by the device
- ♥ List of alarms and device status
- ♥ Trending graphs of all parameters



Wi-Fi Probes for dedicated monitoring of arterial and venous parameters

- ♥ Directly speaking with the Medical Tablet
- ♥ Can be connected to the Colibrì circuits with or without cuvettes
- ♥ Able to measure SV_{O_2} , Hb, Hct, TV_{en} in the venous side and SaO_2 and TA_{rt} in the arterial side
- ♥ 3+ Hours autonomy and the possibility to be wired to a recharge station during use

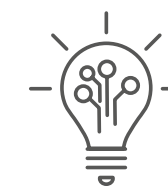


DEDICATED WI-FI ECHO FOR EASIER EMERGENCY CANNULATION

With the same tablet it is possible to **visualize and perform wireless echo** thanks to a dedicated wi-fi probe (e.g. during cannulation or for control of cannula positioning).

The echo probe employs selected, faster and more energy-efficient components.

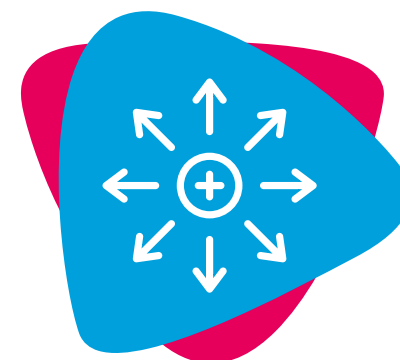
The patented **Parallel Beamforming technology**, allows a **crystal clear image** with amazing detail and **high frame rates**, both for surface and deeper structures.



AUTOMATIC PRIMING FUNCTION FOR SAFE & USER-FRIENDLY SET-UP

Colibrì features an optional, unique and fully automated priming function. In just few minutes, the system will be automatically de-bubbled while the operator can focus on any other clinically relevant tasks, saving time in critical situations, such as E-CPR procedures.





UNLIMITED THERAPEUTIC APPLICATIONS

Designed to deliver ECLS therapy
anywhere and in every
clinical setting



MINIMIZED WEIGHT & DIMENSION TO EASILY PERFORM E-CPR AND ECLS TRANSPORT

Colibrì is the lightest system in the market ensuring convenient transport in every clinical environment.

Battery Life
> **200** min



Dim:
28 x 50 x
34 cm



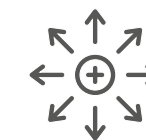
Weight:
< **9** Kg



SMART TRANSPORT SOLUTIONS FOR CONVENIENT DEVICE MOVEMENT

Colibrì features unique transport solutions to facilitate device movimentation, including:

FOIL is the only carbon-fiber device in the market that is **certified and validated to carry Eurosets ECLS devices on a stretcher** between the patient's legs.



FOIL

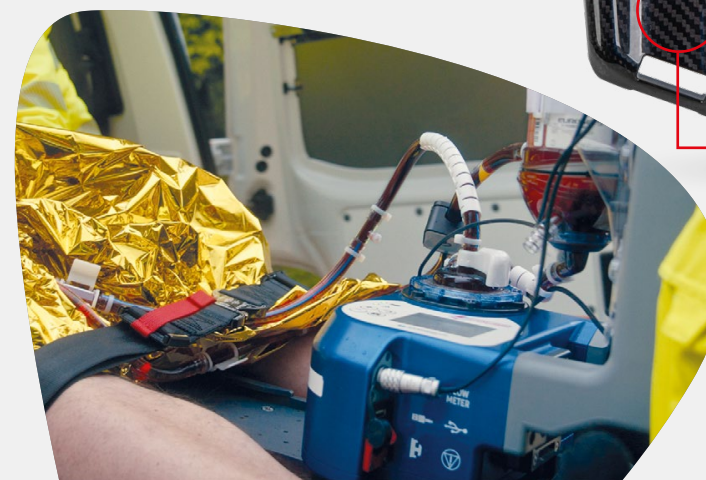


Ensures **convenient positioning** of Colibrì on any type of stretcher

Can be **safely attached** to any stretcher

High-quality carbon-fiber design for minimized weight

Ergonomic tailored wings that increase comfort for patients and operators





SMART TRANSPORT SOLUTIONS FOR CONVENIENT DEVICE MOVEMENT

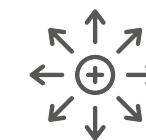
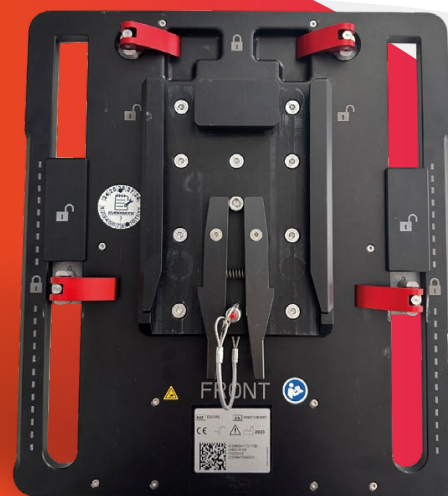
BACKPACK

A unique, dedicated backpack that can host Colibrì easily inserted and fixed inside. An external which slot allows proper fixation and movimentation of the backpack including table tray, circuit and Colibrì accessories.



COLIBRI AVION IC PLATE HOLDER

A unique transport accessory that allows avionic extra-hospital transport of Colibrì.

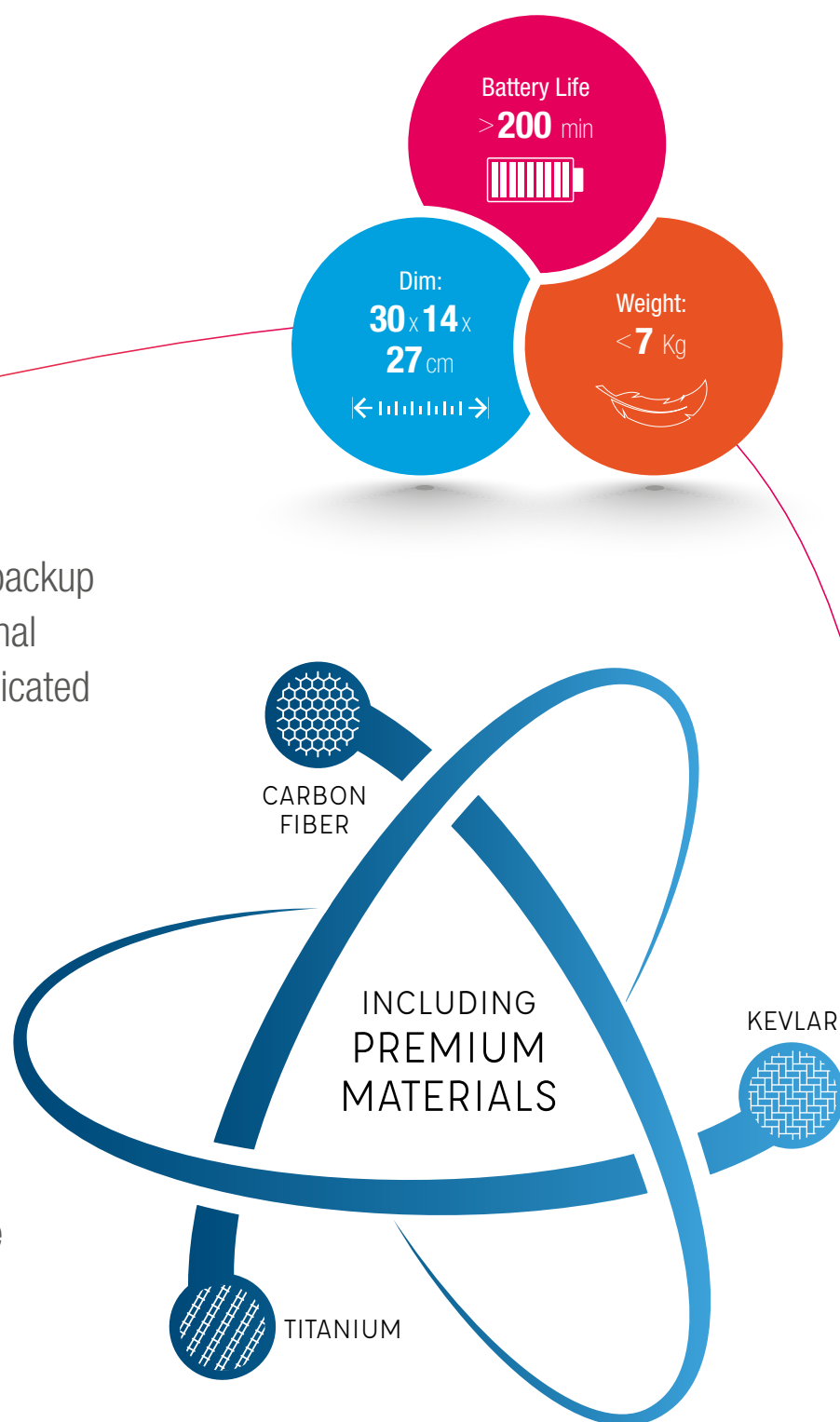




DEDICATED BACK-UP SYSTEM READY IN JUST SECONDS

Colibrì features an innovative backup system equipped with an internal autonomous battery and a dedicated keyboard for RPM control.

The quick-mount tubing set also **ensures ease of use** in any emergency situation, making it incredibly versatile.





Internal battery with **200 min of autonomy** and possibility to connect also an external auxiliary battery

Possibility to attach not only the pump but also the **Oxy and related tubing sets**

Validated for both **ambulance** and **helicopter** transport

Possibility to adjust **RPM from 0 to 4500** (500/click)



DEDICATED ACCESSORIES FOR UNLIMITED THERAPEUTIC APPLICATIONS



XTREME BACKPACK*:

A unique and dedicated backpack that can host Xtreme Rescue and all its accessories for an easy and safe transport



XTREME AVIONIC PLATE HOLDER*:

a dedicated avionic plate to transport Xtreme Rescue on Air Ambulance (helicopter).



XTREME PLATE HOLDER:

validated both for Leonardo Smart/ Slim Trolleys and Foil to transport Xtreme Rescue intra and extra hospital (Road Ambulance).

* Not available in all geographies

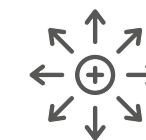


SEAMLESS INTEGRATION WITH ECMOLIFE FOR OPTIMIZED PATIENT CARE

Colibrì can be completely integrated with ECMOLife.

At any stage during the procedure, being start-up, intra-hospital transport or after an E-CPR performed out-of-hospital, **Colibrì can be connected to ECMOLife** with one single cable.

In that moment, **ECMOLife takes control of the device**, making available a bigger screen, an integrated back-up system and all the comfort of the primary console.



Should any movement be needed, **Colibrì can be easily disconnected** to transport the device leveraging its minimized weight and footprint.



ORDERING GUIDE

REUSABLE		
CODE	DESCRIPTION	N°/PACK
EU5096	COLIBRI System	1
	Console	1
	FlowMeter/Bubble Sensor 3/8" x 3/32"	1
	Power supply station	1
EU5274	Xtreme Rescue	1
	Console	1
	Power Supply Station	1
EU5256	Colibri Tablet	1
99-02-00077	WiFi-ECHO - Vascular Probe	1 *
99-02-00080	WiFi-ECHO - Cardiac Probe	1 *
99-03-00024	WiFi-ECHO Fan	1 *
EU5216	Venous WiFi Probe	1
EU5217	Arterial WiFi Probe	1
EU3997	COLIBRI Backpack 	1
EU5268	COLIBRI Backup Unit Backpack* 	1
EU5288	Xtreme Rescue Backpack* 	1
EU5269	External Couvette A/V Probe 3/8"	5
EU5271	External Couvette A/V probe 1/4"	5
EU5094	LEONARDO Slim	1
	ECMOLife Cable Holder	1
	REOMED 1000 isolating trans-formers 1000VA	1
	REOMED Plug C13-14	1
EU5098	LEONARDO Smart	1

REUSABLE		
CODE	DESCRIPTION	N°/PACK
R229P01-010	MAX BLEND 0-15 LPM	1 *
R100P26	Bracket, Pole mount, gas blender	1 *
R129P91	Air Tube	1 *
R129P94	Oxygen Tube	1 *
R219P31	3 in 1 single pack (connector gas outlet)	1 *
EU3941	ECMOLIFE HEATER COOLER	1
	HC Unit	1
	UK AND EU Power Supply Cables	1
	Hoses 1,5 m	2
	Hanses connection tube	1
	Water Discharge Hose (Female)	1
EU3943	Hoses 3m	2
EU3996	FOIL Transport System 	1
EU5278	XTREME Holder Plate 	1
EU5266	COLIBRI Avionic Plate holder 	1
EU5279	Xtreme Avionic Holder Plate* 	1
EU6714/SP	COLIBRI Flowmeter/bubble sensor 3/8" x 3/32"	1
EU6730/SP	COLIBRI Flowmeter/bubble sensor 1/4" x 3/32"	1
EU3968	COLIBRI auxiliary batteries kit	1

REUSABLE		
CODE	DESCRIPTION	N°/PACK
30AG70232	Adult ECMO Tubing set	1
	Adult oxy	1
	Adult/paed pump	1
	Circuit pressure Transducers Metallux 3 to 1	1
30AG70233	Paediatric ECMO Tubing set	1
	Paed oxy	1
	Adult/paed pump	1
	Circuit pressure Transducers Metallux 3 to 1	1
30AG70234	New Born ECMO Tubing set	1
	Adult oxy	1
	Adult/paed pump	1
	Circuit pressure Transducers Metallux 3 to 1	1
14AG70232	Adult ECMO Tubing set	1
	Adult oxy	1
	Adult/paed pump	1
	Circuit pressure Transducers Metallux 3 to 1	1
14AG70233	Paediatric ECMO Tubing set	1
	Adult oxy	1
	Adult/paed pump	1
	Circuit pressure Transducers Metallux 3 to 1	1
14AG70234	New Born ECMO Tubing set	1
	New Born oxy	1
	New born pump	1
	Circuit pressure Transducers Metallux 3 to 1	1

REUSABLE		
CODE	DESCRIPTION	N°/PACK
AG70756	ECMOLife/Colibri ECMO Tubing set 6 hours	1
	Adult oxy	1
	Adult/paed pump	1
	Circuit pressure Transducers Metallux 3 to 1	1
EU5083	ECMO ADULT console Sterile (Stand alone ECMO Oxy)	2
EU5084	ECMO PAEDIATRIC console Sterile (Stand alone ECMO Oxy)	2
EU5165	ECMO NEW BORN console Sterile (Stand alone ECMO Oxy)	2
AG5078	ADULT/PAEDIATRIC centrifugal pump Sterile (Stand alone)	1
AG5087	NEW BORN centrifugal pump Sterile (Stand alone)	1

- *

Product not manufactured by EUROSETS S.r.l.
- Products in bold are manufactured and certified by Eurosets S.r.l.
- Colibri system, Ecmolife heater cooler, Colibri tablet, Venous wifi probe, Arterial wifi probe and single use codes are CE123 Certified
- *

Not available in all geographies



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