

Medtronic

VitalFlow™ ECMO System

Easier, smarter ECMO⁺



Engineered for ECMO

Designed for simplicity and performance, the VitalFlow ECMO system can be configured to accommodate your clinical preferences and hospital protocols.¹ Streamline and simplify your program with the VitalFlow system – reset your expectations for ECMO care.

A photograph of two healthcare professionals in a clinical setting. A woman in light blue scrubs and a yellow surgical mask is holding a tablet. A man in dark blue scrubs, a blue surgical cap, glasses, and a white surgical mask is pointing at the tablet. In the background, another person in scrubs is visible near a patient on a gurney. The scene is set in a brightly lit hospital room with medical equipment.

Indicated in the U.S. for use up to 48 hours.

A configurable, one-system ECMO solution



Simplicity

Centralized real-time performance data with the large, user-friendly,² intuitive touch screen

VitalFlow console

Carrying handle for portability and intra-hospital transport

Alarm history

Bubble detection

USB and Serial RJ45 ports provides data export and real-time data streaming



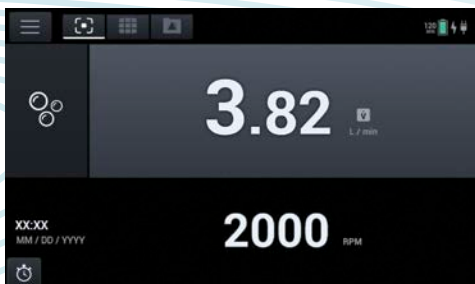
Power indicator informs user of power supply

Secondary power indicator

Secondary RPM indicator

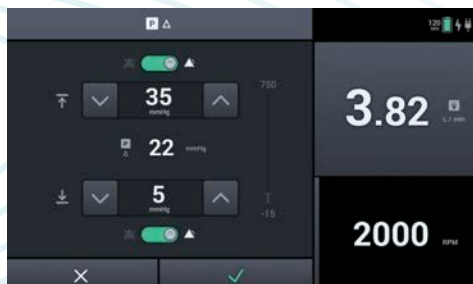
One-touch access

Focus view



Simplified view of flow, RPM, and bubble detection

Alarm settings



Set operating conditions and alarm limits

Alarm history



Chronological list of all alarms



Indicator light bar

At-a-glance notifications visible from 360 degrees



Smart battery

Informs user of battery runtime in minutes



Smart RPM knob

Allows for quick and fine adjustments to desired RPM level



Cord management

Rear mantle design with color-coded connections



Compassionate shut down

Alarms become inactive during standard power-off cycle



Standard VESA mount

Universal VESA pattern allows for integration with various mounting systems

Configurability

Flexible and versatile, allowing you to configure the system to meet your needs

VitalFlow caddy

Centralizes the VitalFlow motor-drive and emergency handcrank, while providing portability, visibility, and access to the pump and oxygenator.



VitalFlow ECMO cart

Configurable cart with quick-release mounts and compact design, supports both caddy and traditional holder setups.



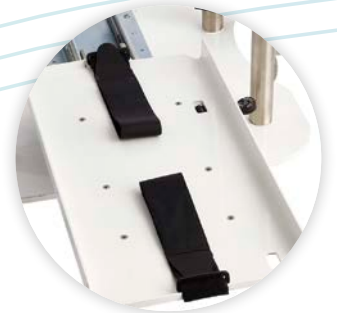
Console mounting shelf
Rotate and adjust the height of the VitalFlow console



VitalFlow caddy shelf
Mount and securely lock the VitalFlow caddy



Heater cooler shelf
Sliding and lockable shelf, with securement straps



Performance

Built for durability and performance,[§] incorporating the Nautilus™ oxygenator design

VitalFlow centrifugal pump³

- Low profile fins for efficient blood flow at low RPMs
- Ceramic pivot bearings yield low heat generation
- Centrifugal design leads to low shear and low hemolysis

Nautilus VF oxygenator³

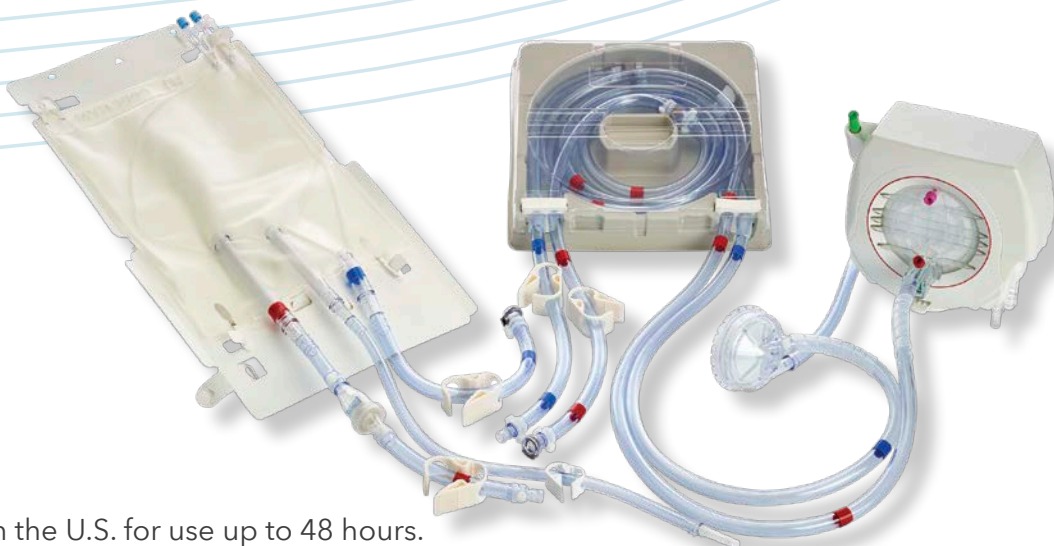
- Circular flow path reduces areas of low flow and stasis
- Guided inlet design increases blood and fiber contact
- Filling vanes aid in even fill and distribution across the membrane
- Integrated sensors provide real-time performance data to the VitalFlow console



Simplified blood flow, simplified workflow











VitalFlow set with Balance™ BioSurface

Tested and indicated for use in ECMO[§]



§ Indicated in the U.S. for use up to 48 hours.

Easier, smarter ECMO†

Product ordering information			
CFN	Description	Details	Image
58100	Console includes: 58150 Flow and bubble sensor 58131 AC power cord	Verified for intra-hospital transport [‡] Weight: 8.86 kg	
58150	Flow and bubble sensor	3/8" x 3/32", 2 m length	
58131	AC power cord	3 m length	
58103	Emergency handcrank	Includes optional pole mount holder Weight: 3.08 kg	
58102	Motordrive and holder	DC external drive motor Includes optional pole mount holder	
58130	Nautilus VF oxygenator cable	Compatible with Nautilus VF oxygenator, 2.4 m length	
ECM-9688-1	VitalFlow ECMO cart [‡]	Configurable cart	
58120	VitalFlow caddy	Configurable for disposables Weight: 4.3 kg	
48160	Nautilus oxygenator holder	Optional pole mount	
58112	VitalFlow set with Balance™ BioSurface	Complete disposable set with prime bag, table tray, tubing, Nautilus VF ECMO oxygenator and VitalFlow centrifugal pump DEHP free blood contacting surfaces [§]	



Potential complications related to the use of ECMO devices include, but are not limited to, heart, vessel, or lung damage, hypoxia, anemia, irritation, toxic reaction, infection, hemorrhage, liver or kidney failure, stroke, and death. The benefits of extracorporeal support must be weighed against the risk of systemic anticoagulation and must be assessed by the prescribing physician.

Important safety information: For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use.

Caution: Federal law (USA) restricts this device to sale by or on the order of a physician. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use.

Warning: Only clinicians thoroughly trained in extracorporeal life support procedures should use this device.

† Medtronic usability data and design verification on file. Compared to Nautilus™ Smart technology.

‡ VitalFlow™ ECMO cart is manufactured by Pryor Products and distributed by Medtronic.

§ Indicated in the U.S. for use up to 48 hours.

◇ Prime bag contains phthalates.

1. Medtronic design verification data on file. Data may not be indicative of clinical performance.

2. Medtronic usability data on file.

3. Medtronic bench data on file. May not be indicative of clinical performance.

4. ISO 60601-1 data on file.

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Experience the VitalFlow console user interface

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