



MERA Centrifugal Blood Pump System HCS-CFP



UNIMO UNIMO – a term coined from Unified ECMO System

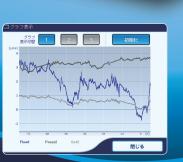
The basic concept of UNIMO is that all functions (centrifugal pump, electric blender, and cold and hot water tank) can be operated with lithium ion batteries mounted on the system, and that the system can be operated for a long time although it is small and lightweight.

The centrifugal pump itself also has a nickel hydrogen battery and enables monitoring of two channels for intra-circuit pressure and one channel for oxygen saturation even when used alone.



MERA Pressure Transducer Connection of a cable to the pressure transducer built into the PCPS circuit SOLAS provides a simple way to monitor intra-circuit pressure.



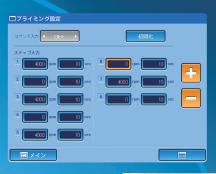


History and trend graph

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A maximum of 300 alarms and other operation history events can be displayed. Blood flow rate (L/min) and arbitrarily specified values can be displayed for a maximum of 72 hours on a trend graph.

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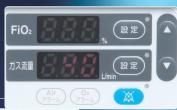
Auto-priming function

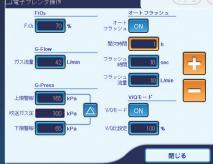
Eight steps of arbitrary setting times and rotation rates can be specified.



Oxygen saturation sensor

Oxygen saturation and hematocrit values in blood are monitored via an oxygen saturation cell built into the PCPS circuit SOLAS.





Electric blender

A digitized gas blender enables programming

Auto-flush mode

Constant interval times, arbitrary times and arbitrary gas flow levels can be specified.

●V/Q mode

V/Q mode is the function that makes the gas flow follow the blood flow by working with the blood flow measured with a bubble sensor.





Cold and hot water tank

A cold and hot water tank, in which the use of Peltier elements provides a small-sized and battery-powered tank, can also be operated with a touch screen panel (LCD display) of the main body.





Signal tower (standard equipment)



The availability of expanded functionality (optional) enables the inclusion of additional parameters.

Number of pressure displays: Maximum of 4 channels Number of temperature displays: Maximum of 2 channels Oxygen saturation displays: Maximum of 2 channels Air bubble detection function: Maximum of 2 channels

MERA Centrifugal Blood Pump System (technical specifications)

	Driver unit as a single body	MERA Centrifugal Blood Pump System (with expanded functionality)
	Rated voltage: 100 V AC	
Electric rating	Rated frequency: 50/60 Hz	
	250 VA	1450 VA
External dimensions (in mm)	Driver unit:	Complete system: 360(W)×1239(H)×600(D)
	255(W)×357(H)×316(D)	(Reference) (Excluding projections)
Weight	8.1 kg	98.1 kg
Battery	Nickel hydrogen battery	Lithium ion battery
	Continuous operation time of at least one hour	Continuous operation time of at least one hour
	(new battery charged for 24 hours)	(new battery charged for 24 hours)
Controlled range of rotation	MERA Centrifugal Pump Setting range of rotation frequency: 0, 500 to 5000 rpm (maximum rating) Centrifugal blood pump Setting range of rotation frequency: 0, 500 to 4000 rpm (maximum rating)	
frequency		
Measurement range of flow rates(display range)		
Ultrasonic flowmeter		
(transit-time)		
Measurement range of pressure	-300 to 750 mmHg: Maximum	-300 to 750 mmHg: Maximum
Thousand Heritage of procession	of two channels displayed	of two channels displayed
Display range of a thermometer	-5.0 to +50.0°C ± 0.2°C	-5.0 to $+50.0^{\circ}$ C \pm 0.2°C: Maximum of two channels displayed
Display range of an oximeter	30% to 100% (guaranteed measurement	30% to 100% (guaranteed measurement range: 60% to 100%): Maximum of two
	range: 60% to 100%)	channels displayed
Display range of a timer	Count-up timer Two channels hour:minute:second	
	00:00'00" to 23:59'59"**For measurements over 24 hours	
	day:hour:minute 01d00:00' to 99d23:59'	
Electric blender Adjustment		21, 25% to 100% (at intervals of 5%)
range of FiO2		
Adjustment range of flow rate		0, 0.2 to 10.0 L/min (at intervals of 0.1 L/min)
of gas flow		
Display range of pressure of gas flow		0.00 kPa to 5.00 kPa (at intervals of 0.01 kPa)
Setting range of V/Q ratio mode		30% to 100% (at intervals of 5%)
Setting range of auto-flush mode		1 to 24 hours (at intervals of 1 hour), 10 to 300 seconds (at intervals of 10 seconds), 1 to 15 L/min (at intervals of 1 L/min)
Setting range of temperature of		15°C to 40°C (at intervals of 0.1°C)
cold and hot water tank		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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Related products (optional)



Carrier hanger (option)

A carrier hanger (optional product) is available for a motor unit with a holder dedicated for SOLAS and is used to move "MERA Exceline Circuit HP2 PCPS Circuit SOLAS" while it is operating. Auxiliary pole holders or bedside rails can be installed with the carrier hanger.



MERA Exceline Circuit HP2 PCPS Circuit SOLAS

This product is a PCPS circuit in which the liquid-contact-type pressure sensor "MERA Pressure Transducer" and the oxygen saturation cell "MERA HSAT-1C" are built.

- •Generic name: Heparin-coated cardiopulmonary bypass circuit system
- Brand name: MERA Exceline Circuit HP2

Marketing Authorization Holder Senko Medical Instrument Mfg. Co., Ltd.

MERA SENKO MEDICAL INSTRUMENT Mfg. Co., Ltd.

2-11-1, Hamakawado, Kasukabe-shi, Saitama 344-0054 Japan

Contact: Phone. +81-3-3812-3254 Fax. +81-3-3815-7011 http://www.mera.co.jp/

Note

Prior to practical use, carefully read the package insert or instructions.

It should be noted that, because we always make efforts for research and improvement, any part of the appearance or specifications may be modified without notice.