

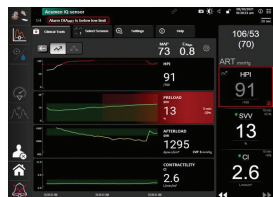
HemoSphere Monitor

Technology Specifications

HemoSphere monitor offers full-range cuff, sensor, and catheter compatibility designed for individualised patient management. With expanded capabilities and predictive algorithms, HemoSphere monitor offers new actionable insights to help you stay ahead of critical moments.



Right and left heart monitoring insights



Acumen smart trends screen



Acumen Assisted Fluid Management software screen



Compatible products and parameters include:

	Noninvasive			Minimally-invasive		Invasive	
	Acumen IQ cuff	ClearSight finger cuff	ForeSight sensor	Acumen IQ sensor	FloTrac sensor	Swan-Ganz catheter	PediaSat catheter
StO ₂			•				
ΔctHb			•				
HPI*	•			•		+	
Ea _{dyn}	•			•		+	
dP/dt	•			•		+	
CO/CI	•	•		•	•	•	
SV/SVI	•	•		•	•	•	
SVV/PPV	•	•		•	•	+	
SVR/SVRI	•	•		•	•	•	
PVR/PVRI						•	
SvO ₂						•	
ScvO ₂							•
RVEF/EDV						•	
MAP	•	•		•	•	+	
PASP/PADP						•	
CVP**						•	

+ Parameters from Acumen IQ sensor that are viewable on the invasive screen are limited to SVV, Ea_{dyn}, dP/dt, HPI, and MAP when Acumen IQ sensor is used along with Swan-Ganz catheter.

* Acumen Hypotension Prediction Index (HPI) software is unlocked with the Acumen IQ sensor and Acumen IQ cuff.

** CVP can be accessed with TruWave sensor in invasive mode.



Edwards

HemoSphere bundles

Model	Description
HEMCARDIAC	HemoSphere advanced monitoring system with Swan-Ganz module, oximetry cable, 2 pressure cables, tissue oximetry module, ForeSight module
HEMPCSR2	HemoSphere advanced monitoring system with 2 pressure cables, tissue oximetry module, ClearSight module
HEMTO2	HemoSphere advanced monitoring system with tissue oximetry module, ForeSight module
HEMCSMUPG	HemoSphere ClearSight upgrade kit
HEMCX2	HemoSphere tissue oximetry upgrade kit

HemoSphere modules

HEMSGM10	HemoSphere Swan-Ganz module
Weight - approx. 1.0 lb (0.45 kg) Height - 1.36 in (3.45 cm) Width - 3.53 in (8.96 cm) Depth - 5.36 in (13.6 cm)	
HEMTOM10	HemoSphere technology module
Weight - 1.0 lb (0.45 kg) Height - 1.4 in (3.5 cm) Width - 3.5 in (9.0 cm) Depth - 5.4 in (13.6 cm)	
HEMCSM10	HemoSphere ClearSight module
Weight - approx. 2lb (0.9 kg) Height - 5.1 in (13 cm) Width - 5.6 in (14 cm) Depth - 3.9 in (10 cm)	

HemoSphere cables**

HEMFSM10	HemoSphere ForeSight oximeter cable
Weight - 2.4 lbs (1.05 kg) Length - 239 in (6070 mm)	
HEMOXSC100	HemoSphere oximetry cable
Weight - approx. 0.54 lbs (0.24 kg) Length - 9.6 ft (2.9 m)	
HEMPSC100	HemoSphere pressure cable
Weight - approx. 0.64 lbs (0.29 kg) Length - 120 in (3048 mm)	
PC2K	ClearSight pressure controller kit
Length - 144 in (3657 mm)	

Monitor (HEM1) specifications

Weight	10 ±0.2 lbs (4.5 ±0.1 kg)
Width - 12.4 in (315 mm) Height - 11.7 in (297 mm) Depth - 5.56 in (141 mm)	
Display	Active area - 12.1 in (307 mm) Resolution - 1024 x 768 LCD
Operating system	Windows 10 IoT
Rated supply voltage	100-240 Vac, 50/60 Hz
Rated input	1.5 to 2.0 Amps

Input / output

Touch screen	Projective capacitive touch
RS-232 serial port (1)	Edwards proprietary protocol: maximum data rate = 57.6 kilo baud
USB ports (2)	1 USB 2.0, 1 USB 3.0
Ports	1 RJ-45 Ethernet, 1 HDMI
Hospital information system connectivity	Health Level 7 (HL7); integration services are subject to local availability
DPT pressure	DPT pressure out
ECG monitor input	Sync line conversion: 1V/mV; Input voltage range +/- 10V full scale; Resolution = ± 1 BPM; Range = 30 to 200 BPM; ¼ in. stereo jack; analog cable Accuracy = ±10% or 5 BPM of the input

HemoSphere battery pack

HEMBAT10	HemoSphere battery pack
Weight - 1.1 lbs (0.5 kg) Height - 1.38 in (35 mm) Width - 3.15 in (80 mm) Depth - 5.0 in (126 mm) Cells - 4 x LiFePO ₄ (lithium iron phosphate)	

** For a complete list, please contact your Edwards Lifesciences sales representative

Medical device for professional use. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use (consult eifu.edwards.com where applicable)

Edwards, Edwards Lifesciences, the stylized E logo, Acumen, Acumen AFM, Acumen IQ, AFM, ClearSight, ForeSight, FloTrac, HemoSphere, HPI, Hypotension Prediction Index, Swan, and Swan-Ganz are trademarks of Edwards Lifesciences Corporation or its affiliates. All other trademarks are the property of their respective owners.

© 2023 Edwards Lifesciences Corporation. All rights reserved. PP-EU-6277 v1.0
Edwards Lifesciences • Route de l'Etraz 70 • 1260 Nyon, Switzerland • edwards.com



Edwards