GE Healthcare

A Powerful Solution for a Full Range of Antepartum Applications

Corometrics® 170 Series monitors are designed to provide the information you need to make quick, accurate and cost-effective clinical assessments. These compact and lightweight monitors are designed for antepartum applications in the office and hospital.

Corometrics 170 Series Fetal Monitors

System Features and Options

- Dual, 9-crystal Nautilus™ watertight ultrasound transducer permits external monitoring of twins using technology that minimizes the need for repositioning.
- Independent volume controls facilitate easy transducer placement.
- Nautilus watertight toco transducer permits quick, external acquisition of uterine activity. Its flat-surface design means it won't leave a mark on your patient.
- Heart rate offset mode makes it easy to visually distinguish between the heart rates of twins by allowing you to offset the secondary FHR by +20BPM.
- Heartbeat coincidence recognition provides a visual indication when it detects synchronous fetal or maternal heart-rate signals, indicating that you may be monitoring a duplicate signal.

Corometrics 170 Series Monitors

Model 171 – Single ultrasound and UA; external
Model 172 – Dual ultrasound and UA; external
Model 173 – Single ultrasound, FECG and UA; external/internal
Model 174 – Dual ultrasound, FECG and UA; external/internal

Monitors

Environmental Specifications

	Operating	*Storage*
Ambient Temperature	50°F to 104°F (10°C to 40°C)	14°F to 131°F (-10°C to 55°C)
Relative Humidity	30% to 70%, non-condensing	45% to 65%, non-condensing

FECG Mode

Operating Specifications

Technique	Peak detecting, beat-to-beat cardiotachometer
Heart Rate Counting Range	30-240 BPM
Heart Rate Resolution	1 BPM
Artifact Elimination	Service selectable, ±25 BPM artifact rejection
Countable Input Signal Range	15 µV to 2 m V peak-to-peak
Offset Voltage Tolerance (Differential)	±300 mVdc maximum
Maximum Common Mode Voltage	20 V peak-to-peak
Common Mode Rejection	Balanced: >120 dB at mains frequency, with patient cable Unbalanced 5kΩ RA or LA: >110 dB at mains frequency
Input Impedance	Differential: >10 MΩ Common Mode: >20 MΩ
Mains Frequency Rejection	>40 dB
Leakage Current	Complies with IEC 60 1.1 and/or IEC 601.1.1 harmonized national standard; Complies with EN 60601-1-2:2002
Isolation, Mains-to-Patient	>5656 Vdc

Ultrasound Mode

Operating Specifications

Technique	Pulsed Doppler with auto correlation processing
Transducer Type	9-crystal
Pulse Repetition Frequency	2 kHz (all modes)
Pulse Duration	92 µs
Transmitter Frequency	1.151 MHz
Spatial-Average Temporal Average Intensity	Isata <5 mW/cm2
Focal 20 dB Beam Area	16.6 cm^2, at a range = 7 cm
Peak Instantaneous Intensity	1.8 mW/cm2
Heart Rate Counting Range	50-210 BPM
Leakage Current	Complies with IEC 60 1.1 and/or IEC 601.1.1 harmonized national standard; Complies with EN 60601-1-2:2002

Uterine Activity Mode

Performance Specifications

	Strain Gauge	*Toco transducer*
Range	0-100 mmHg	0-100 relative units
Bandwidth	DC to 0.5 Hz	DC to 0.5 Hz
Resolution	1 mmHg	1 relative unit
Excitation Voltage	+4.0 Vdc	+4.0 Vdc
Zero Set Temperature Drift	<0.1 mmHg/° (0.013 kPA/°C), excluding transducer	
Leakage Current	Complies with IEC 60 1.1 and/or IEC 601.1.1 harmonized national standard; Complies with EN 60601-1-2:2002	

Strip Chart Recorder

Heart Rate Scale		
	Domestic	*International*
Chart Width	7 cm	8 cm
Scaling	30 BPM/cm	20 BPM/cm
Range	30-240 BPM	50-210 BPM
Resolution	1 BPM	1 BPM

Uterine Activity Scale		
	Strain Gauge	*Toco transducer*
Chart Width	4 cm	4 cm
Scaling	25 mmHg/cm	25 relative units/cm
Range	0-100 mmHg	0-100 relative units
Resolution	1 mmHg	1 relative unit

Recorder Drive	
Speeds	I, 2 and 3 cm/min
Speed Accuracy	±2% over 10 minutes

Strip Chart Paper

Environmental Specifications		
	Operating	*Storage*
Ambient Temperature	50°F to 104°F	<80°F (<26.5°C)
Relative Humidity	30% to 70%, non-condensing	45% to 65%, non-condensing

Power Requirements

Performance Specifications	
Nominal Line Voltage	100-230 VAC
Line Frequency	50/60 Hz (operates over 47-63 Hz)
Power Consumption	≤30 VA
Monitor DC Input	12 Vdcat 2.5 A

Physical Specifications	
Height	5.75 in (14.6 cm)
Width	16.75 in (42.5 cm)
Depth	10.0 in (25.4 cm)
Weight	8 lbs (3.6 kg) approx.

Certification

UL 2601-1: Designed to meet UL-2601.1 Medical electrical equipment classified by UnderWriter's Laboratories, Inc., with respect to fire, shock and mechanical hazards in accordance with UL-2601.1.

CUL: Classified with respect to electric shock, fire, mechanical and other specified hazards only, in accordance with CAN/CSAC22.2 No. 601.1.

Warranty

Standard warranty is one year.

Healthcare Re-imagined

GE is dedicated to helping you transform healthcare delivery by driving critical breakthroughs in biology and technology. Our expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, and biopharmaceutical manufacturing technologies is enabling healthcare professionals around the world to discover new ways to predict, diagnose and treat disease earlier. We call this model of care "Early Health." The goal: to help clinicians detect disease earlier, access more information and intervene earlier with more targeted treatments, so they can help their patients live their lives to the fullest. Re-think, Re-discover, Re-invent, Re-imagine.

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imagination at work

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