

Meets prenatal through labor and delivery monitoring needs with a single, versatile platform.

The Corometrics 170 Series is a recent addition to the GE Healthcare family of dependable, cost-effective foetal monitors. The sleek, compact, lightweight design is ideally suited for hospital, clinic, office, and home*. The series includes capabilities for twins and efficiently transitions from external to internal monitoring.

* When monitor used in home by an appropriately licensed clinical professional.



Fetal Monitors Corometrics 170 Series

- 9-Crystal, Pulsed Doppler Ultrasound technology provides a wide-beam profile and makes initial placement faster and easier, and requires less repositioning.
- Heart Beat Coincidence Recognition an audible tone alerts the clinician on detection of a heart beat coincidence, allowing a immediate repositioning of the ultrasound transceivers.
- Dual Digital Interface provides seamless connectivity to Clinical Information Systems and selected external monitors for non-invasive blood pressure, maternal SpO₂, as well as FSpO₂.
- Telemetry Interface supports convenient assessment of the ambulatory obstetrical patient and promotes hydrotherapy when used with Nautilus™ watertight transducers.

Level 1 – The simultaneous & audible heartbeat sound of twins makes it easy to identify from the beginning of the application two different heart rates.

Level 2 – On Heart Beat Coincidence a unique visual alarm will get your attention after 60 seconds.

Level 3 – The identified status of the Heart Beat Coincidence is documented on the CTG Strip.

GE Healthcare offers different types of monitors
Corometrics 170 Series:

	171	172	173	174
LCD Display	numerics			
FHR	●	●	●	●
FHR Twins		●		●
Fetal ECG			●	●
UA – Toco	●	●	●	●
UA – IUPC			●	●

FHR = Fetal Heart Rate; UA = Uterine Activity; IUPC = Intrauterine Pressure Catheter



Performance Specifications

Power Requirements

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

Environmental Specifications

Monitor(s): Ambient Temperature – Operating: 10°C to 40°C; Storage: -10°C to 55°C
Relative humidity – Operating: 10% to 75%, non-condensing; Storage: 10% to 90%, non-condensing
Strip Chart Paper: Ambient Temperature – Operating: 10°C to 40°C; Storage: <26.5°C
Relative Humidity – Operating: 30% to 70%, non-condensing; Storage: 45% to 65%, non-condensing

Operating Specifications

FECG Mode

Technique: Peak detecting, beat-to-beat cardiachometer; 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 mV 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 5kΩRA 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 601.1 and/or IEC 601.1.1 harmonized international standards;
Isolation, Mains-to-Patient: >5656 Vdc

Ultrasound Mode

Technique: Pulsed Doppler with autocorrelation 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 cm², at a range = 7 cm;
Peak Instantaneous Intensity: 1.8 mW/cm²; Heart Rate Counting Range: 50-210 BPM;
Leakage Current: Complies with IEC 601.1 and/or IEC 601.1.1 harmonized international standards

Uterine Activity Mode

	IUPC	Tocotransducer
Range:	0-100 mmHg	0-100 relative units
Resolution:	1 mmHg	1 relative unit
Bandwidth:	dc to 3 Hz	dc to 0.5 Hz
Excitation Voltage:	+4.0 Vdc	+4.0 Vdc
Zero Set Temperature Drift:	< 0.1 mmHg/°C (0.013 kPa/°C), excluding transducer;	
Leakage Current:	Complies with IEC 601.1 and/or IEC 601.1.1 harmonized international standards	

Strip Chart Recorder

	Heart Rate Scale – US-Format	International	Uterine Activity Scale – IUPC	Tocotransducer
Chart Width:	7 cm	8 cm	4 cm	4 cm
Scaling:	30 BPM/cm	20 BPM/cm	25 mmHg/cm	25 relative units/cm
Range:	30-240 BPM	50-210 BPM	0-100 mmHg	0-100 relative units
Resolution:	1 BPM	1BPM	1 mmHg	1 relative unit

IUPC = Intrauterine Pressure Cathéter

Recorder Drive: Speeds: 1, 2 and 3 cm/min; Speed Accuracy: ± 2% over 10 minutes

Physical Specifications

Height x Width x Depth: 14.6 x 42.5 x 25.4 cm
Weight: 3.6 kg approx.

Certification

CE marking indicating compliance with the Medical Device Directive 93/42/EEC

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GE imagination at work