GE Medical Systems
Information Technologies

COROMETRICS® 170 SERIES FETAL MONITORS.

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

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

- **9-Crystal, Pulsed Doppler Ultrasound** technology provides a wide-beam profile and makes initial placement faster and easier, and requires less repositioning.
- **High/Low Fetal Heart Rate Alarms** notify clinicians if the fetal heart rate is out of the acceptable range. High and low limits are user configurable.
- **Dual Digital Interface** provides seamless connectivity to the QS® clinical information system and select non-invasive blood pressure monitors.
- **Telemetry Interface** supports convenient assessment of the ambulatory obstetrical patient and promotes hydrotherapy when used with Nautilus™ watertight transducers.
- **Standard Z-fold Paper** for easier loading and storage of fetal trend data.

170 Series Monitors
Model 171 – Single ultrasound and UA; External
Model 172 – Dual ultrasound; External
Model 173 – Single ultrasound, FECG and UA; External/Internal

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

Corometrics® 170 Series Fetal Monitors.

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: 50°F to 104°F (10°C to 40°C); Storage: 14°F to 131°F (-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: 50°F to 104°F (10°C to 40°C); Storage: <80°F (<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 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 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 national standard;
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/cm^2; Focal 20 dB Beam Area: 16.6 cm^2, at a range = 7 cm;
Peak Instantaneous Intensity: 1.8 mW/cm^2; Heart Rate Counting Range: 50-210 BPM;
Leakage Current: Complies with IEC 601.1 and/or IEC 601.1.1 harmonized national standard

Uterine Activity Mode

	Strain Gauge	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 national standard

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	1BPM

Uterine Activity Scale –	Strain Gauge	Tocotransducer
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: 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 (5.75 x 16.75 x 10.0 in); Weight: 3.6 kg (8 lbs) approx.

Certification

CE-Certification in accordance with the council directive 93/42/EEC

Warranty

Standard warranty is one year.

This product or some features of this product may not be available in all countries. Call your local GE representative for more information.
GE Medical Systems *Information Technologies* reserves the right to make changes in specifications and features shown herein, or discontinue the product described at any time without notice or obligation. Contact your GE Medical Systems *Information Technologies* Representative for the most current information.

GE Medical Systems
Information Technologies

gemedicalsystems.com

European Headquarters
GE Medical Systems
Information Technologies GmbH
P.O. Box 60 02 65
79032 Freiburg • Germany
Tel. +49 761 45 43 - 0
Fax +49 761 45 43 - 233

World Headquarters
GE Medical Systems
Information Technologies, Inc.
8200 West Tower Avenue
Milwaukee, WI 53223 • USA
Tel. +1 414 355 5000
Fax +1 414 355 3790

Asia Pacific
GE Marquette Medical Systems
11th Floor, The Lee Gardens, 33 Hysan Ave.
Causeway Road • Hong Kong
Tel. +852 2100 6300
Fax +852 2100 6292

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