Angiographic Contrast Injector

ACIST CVI

ABOUT

The **ACIST CVi** contrast delivery system is designed to deliver radiopaque contrast media during interventional cardiology, radiology, and vascular procedures. The system utilizes a motor-driven injector and handheld control device, allowing clinicians to precisely manage contrast delivery while maintaining focus on the procedure. Variable flow rate technology enables real-time adjustment of contrast injection based on procedural requirements and patient needs. The system is compatible with a variety of angiographic procedures and can be integrated with select imaging systems to support streamlined workflow within the cath lab. Designed to improve injection control and consistency, the ACIST CVi provides a flexible solution for contrast delivery during minimally invasive vascular interventions.

FEATURES

- **Variable Flow Rate Control:** Allows clinicians to adjust contrast delivery in real time using the AngioTouch hand controller.
- **Motor-Driven Injection System:** Provides controlled and consistent contrast media delivery.
- **Handheld Operator Control:** Enables users to manage injection flow while maintaining attention on fluoroscopic and procedural imaging.
- **Imaging System Integration:** Compatible with select X-ray and angiography systems for synchronized workflow when properly configured.
- **Multi-Specialty Applications:** Suitable for interventional cardiology, vascular, and radiology procedures utilizing endovascular techniques.

ACIST CVi Angiographic Contrast Injector

SPECIFICATIONS

DIMENSIONS

Pedestal Cart Footprint: 21 x 25 in (53.3 x 63.5 cm)

Pedestal Cart Height: 36 in (91.4 cm)

Total System Weight: 87.7 lb (39.8 kg)

INJECTION PERFORMANCE

Contrast Syringe Capacity: 100 ml

Contrast Flow Rate: 0.8–40 ml/sec (0.1 ml/sec increments)

Saline Flow Rate: 1.6 ml/sec

Injection Volume: 0.8–99.9 ml (0.1 ml increments)

Pressure Range: 200–1200 psi

Fill Rate: 3 ml/sec (manual or automatic)

Rise Time: 0–1 sec (0.1 sec increments)

INJECTION PROGRAMS

Cardiac Modes: LCA, RCA, LV/Ao, User Defined

Peripheral Vascular Modes: Pigtail, Selective, Microcatheter, User Defined

Injection Delay: 0–99.9 sec

X-ray Delay: 0–99.9 sec

KVO Range: 0.1–10 ml/min (20-minute timeout)

MONITORING & SAFETY

Air Column Detection

Isolation Manifold Monitoring

Contrast Source Empty Detection

Automatic Contrast Syringe Refill Monitoring

Contrast Source Isolation Monitoring

Compatible with most X-ray imaging systems for synchronization

USER INTERFACE

10.5 in (27 cm) Color Touchscreen

Flexible mounting options: Table Mount, Adjustable Arm, Stationary Stem, or Pedestal Cart

ELECTRICAL REQUIREMENTS

100–120 VAC, 50–60 Hz, 10 A maximum

200–240 VAC, 50–60 Hz, 5 A maximum

Drager Evita V800 Ventilator

SPECIFICATIONS

MONITORING & MEASUREMENTS

Airway Pressure Monitoring
Tidal Volume Monitoring
Minute Volume Monitoring
Respiratory Rate Monitoring
Dynamic Compliance Monitoring
Resistance Monitoring
Leakage Monitoring
FiO2 Monitoring
End-Tidal CO2 Monitoring (Adults and Pediatrics)

WAVEFORM DISPLAYS

Airway Pressure
Flow
Volume
CO2

ALARM MONITORING

High / Low Minute Volume
High Airway Pressure
High / Low FiO2
High / Low End-Tidal CO2
High Respiratory Rate
High / Low Tidal Volume
Apnea Alarm
Disconnection Alarm

BATTERY

Internal Battery:

- Type: Sealed NiMH battery
- Exchange Interval: 2 years
- Runtime: 30 minutes without GS500, 15 minutes with GS500

PS500 Power Supply Battery:

- Type: LFP battery
- Exchange Interval: 4 years
- Runtime: 240 minutes without GS500, 120 minutes with GS500

ELECTRICAL REQUIREMENTS

Power Input: 100 to 240 V, 50/60 Hz

Maximum Power Consumption: 300 W

GAS SUPPLY REQUIREMENTS

O2 Supply Pressure: 39 to 87 psi (270 to 600 kPa)
Air Supply Pressure: 39 to 87 psi (270 to 600 kPa)