Angiomat™ ILLUMENA™

High Pressure Injector for cardiology, angiography and CT contrast delivery

tyco Healthcare Mallinckrodt
Angiomat™ ILLUMENA™

Contrast Delivery System

Fully Featured For Functional Performance, Proven Clinical Effectiveness and Optimum Cost Efficiency.

The Angiomat™ ILLUMENA™ contrast delivery system offers true multimodality. With just the touch of a button, switch between Cardiac, Angio, and CT modes. This remarkable versatility is a key component to reducing down time in all areas.

The ability to use prefilled contrast syringes improves patient through-put and helps reduce operator costs.

Every detail of the System’s easy operation, patient access, and user-defined functionality is designed for convenience, precision, and excellence. The objective is enhanced patient care. That’s the bright, yet very simple idea behind the Angiomat™ ILLUMENA™ contrast delivery system.
**Fill Control Bar**
- Allows easy, one finger operation.
- Drives the plunger for syringe filling, air purging or infusion.

**Digital Powerhead Display**
- The LED display automatically “flips” as the powerhead is rotated – ensuring proper orientation for viewing.
- Indicates programmed protocol and volume remaining in the syringe.

**Air Detection Device**
- The optional Air Detection Aid and Warning System (ADAWS) serves as an aid in identifying empty syringes and air bolus.

**Syringes**
- The Angiomat™ ILLUMENA™ is the only angiographic injector that uses transparent syringes and prefilled syringes.
- The transparent syringe provides a crystal clear view of the contrast medium.
- Ultra clear syringe improves air bolus detection for enhanced safety.
- The latex free Angiomat™ ILLUMENA™ syringes reduce potential for latex reactions.

### CLINICALLY EFFECTIVE

<table>
<thead>
<tr>
<th>P/N</th>
<th>ml/cm</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>900101</td>
<td>150</td>
<td>Syringe (quick connection) with handifil (1200 psi, 84 bar)</td>
</tr>
<tr>
<td>900102</td>
<td>150</td>
<td>Multipack (quick connection) with spiral line (300 psi, 21 bar)</td>
</tr>
<tr>
<td>900103</td>
<td>150</td>
<td>Syringe (Linden Luer) with handifil (1200 psi, 84 bar)</td>
</tr>
<tr>
<td>900104</td>
<td>150</td>
<td>Multipack (Linden Luer) with spiral line (300 psi, 21 bar)</td>
</tr>
<tr>
<td>900105</td>
<td>200</td>
<td>Syringe (Linden Luer) with handifil (900 psi, 62 bar)</td>
</tr>
</tbody>
</table>

**EASY TO OPERATE**
Touchscreen

- The pressure sensitive touchscreen display makes the injection setup direct and easy.
- Simple and reliable, featuring an operator intuitive user interface.
- Optimally clear viewing.
- Multi-mode selection of cardiac, angio, and CT parameters.
- Protocol manager to store and recall user-defined protocols.
- Injection progress display.
- Multiple language selection.

Console Tilt & Rotation

- Console display tilt angle can be easily adjusted.
- The console also rotates 140 degrees to allow viewing from a variety of wide angles.

RELIABLE

EASY HANDLING

Single Phase Protocol

Dual Phase Protocol
True Multimodality
Cardiology, Angiography, CT Contrast Delivery

To allow maximum patient access, the Angiomat™ ILLUMENA™ features multiple mounting configurations:

Pedestal Version
Wall Mount
Fixed Ceiling Mount
Moveable Ceiling Mount
Fixed Table Mount
Moveable Table Mount
Technical Specifications

### Flow Rate
- **Angio-Cardiac and Peripheral Modes**: 0.1 - 40.0 ml/sec
- **CT Mode**: 0.1 - 10.0 ml/sec

### Pressure Limit
- **Angio-Cardiac and Peripheral Modes**: 75 - 1200 psi
- **CT Mode**: 75 - 300 psi

### Syringe Sizes
- 150 ml, 200 ml empty syringes
- 125, 100, 75, 50 ml prefilled syringes

### Fill Rate
- Forward or Reverse: 0.2 - 25 ml/sec

### Syringe Heater (optional)
- 37°C nominal. Minimizes the loss of heat from preheated contrast

### Injection Delay
- 0 - 300 sec

### X-ray Delay
- 0 - 300 sec

### Scan Delay (CT-Mode)
- 0 - 300 sec

### Rate Rise
- 0 - 10 sec

### Phase Delay
- 0 - 300 sec

### Number of Phases
- 1, 2 or 3-4 (available in all modes except Auto-Repeat and ECG)

### Memory Capacity
- Angiographic and CT modes each store up to 45 protocols

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