

Contrast Injector Syringe Heater

◆ Description :

The Contrast Injector Syringe Heater is a specialized medical heating device designed to maintain the temperature of contrast media inside the syringe used in CT, MRI, and angiography contrast injection systems.

The heater ensures that the contrast agent is warmed close to human body temperature (approximately 37°C) before and during the injection procedure. This helps reduce the viscosity of contrast media, allowing smoother and more consistent injection while improving patient comfort and diagnostic accuracy.

The heater is designed to fit securely around the injector syringe and maintain stable temperature control using integrated sensors and safety mechanisms. By maintaining optimal temperature, the device supports reliable contrast delivery for advanced medical imaging procedures.

◆ Key Features :

- Maintains contrast media temperature close to body temperature (~37°C)
- Reduces viscosity of contrast agents for smoother injection
- Uniform heating around the syringe body
- Compact and lightweight design
- Easy installation with syringe injector systems
- Integrated temperature sensing and control
- Fast heating and stable temperature maintenance
- Over-temperature safety protection
- Reliable performance for clinical applications
- Energy-efficient heating design



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✦ Applications :

Medical Imaging Applications

- CT Scan (Computed Tomography)
- MRI Imaging Systems
- Angiography Procedures
- Interventional Radiology

Temperature-Sensitive Medications

- Anesthesia
- Dermatology and Aesthetic Treatments
- In Vitro Fertilization (IVF)
- Intravenous (IV) Medications
- Diabetes-related Medications
- Hypothermia / Hyperthermia Treatment

Healthcare Facilities

- Hospitals
- Diagnostic Imaging Centers
- Radiology Departments
- Medical Research Facilities

Functional Applications

- Heating contrast media before injection
- Maintaining temperature during injection procedures
- Improving contrast media flow consistency
- Supporting accurate diagnostic imaging
- Maintaining optimal temperature for sensitive medications

✦ Safety Features:

- Built-in temperature monitoring sensors
- Overheat protection circuit
- Fault indicator in case of heater malfunction
- Safe operation for clinical environments
- Durable medical-grade construction

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✦ General Information :

Property	Specification
Product Type	Contrast Injector Syringe Heater
Heating Method	Electrical Resistive Heating
Temperature Range	35°C – 40°C
Standard Operating Temperature	~37°C
Temperature Stability	±1°C
Resistance	175-185 Ohms
Power Supply	24V DC
Heater Type	Flexible Wrap-Around Heater
Control System	Integrated Temperature Controller
Safety Protection	Over-temperature protection
Installation	Clip-on / Wrap-around syringe mounting
Compatibility	Standard contrast injector syringes
Material	Medical-grade polymer housing
Customization	Available upon request
Country of origin	India

✦ Advantages:

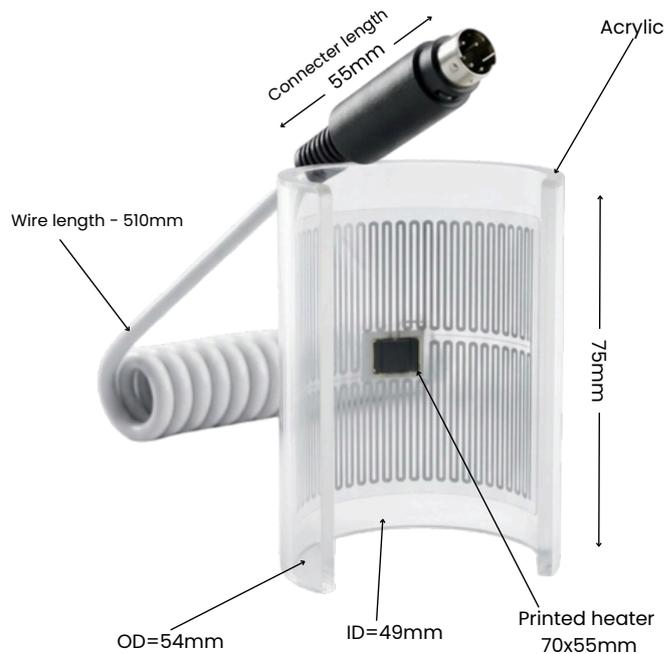
- Improves contrast media flow performance
- Reduces injection resistance
- Enhances patient comfort
- Helps achieve better imaging results
- Easy integration with contrast injector systems

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System Integration:

The Contrast Injector Syringe Heater is designed to integrate with contrast injector systems used for CT and angiography. It attaches directly to the syringe mounted on the injector head and maintains the temperature of the contrast media throughout the procedure.

Dimensions:



Datasheet Graph:

