





ALL Scientific Technology Group (AST) specializes in **repairing, maintaining, and installing chillers**, the **critical yet often overlooked infrastructure** behind medical imaging systems such as **MRI, CT, X-ray, Ultrasound, and Nuclear Medicine equipment**. For over 76 years, AST has ensured that **healthcare providers maintain 99.9% imaging uptime** by keeping their chillers running at peak performance.

CHALLENGE

Medical imaging equipment only functions **if the chiller operates**, yet chillers are often treated as secondary equipment until failure occurs. A **single chiller breakdown shuts down Imaging operations**, leading to:

-  Delayed or canceled patient scans
-  Disruption across radiology schedules and downstream care
-  High repair costs, especially when helium loss or magnet quench occurs
-  Strain on hospital IT, clinical engineering, and operations teams

Medical Imaging cannot function without **temperature stability, which depends entirely on chiller performance**.

SOLUTION OVERVIEW

AST delivers **full lifecycle support for medical imaging chillers**, including:

Installation, repair, calibration, fluid replacement, and preventive maintenance

Coverage across all imaging modalities:

Imaging System

MRI Chillers

CT Chillers

X-Ray Chillers

Ultrasound Chillers

Helium Compressor Chillers

Chiller Role

Cool the coldhead to recondense helium and prevent magnet quench

Regulate high-heat X-ray components during extended scans

Prevent overheating of electromagnetic sources

Maintain diagnostic clarity during continuous operation

Support nuclear Imaging and cryogenic subsystems

AST treats chillers as **life-critical medical equipment**.

KEY BENEFITS



Specialized
Medical
Imaging
Experience



Prevent
Magnet
Quench &
Helium Loss
in MRI
Systems



Rapid
Response &
Loaner
Support to
Prevent Scan
Cancellations



OEM-Grade
Technicians &
Compliance
Documentation



Predictive
Monitoring &
Maintenance
Scheduling
to Avoid
Downtime

HOW IT WORKS

01

Chiller Asset Assessment, NFC / QR Tagging & Placement into an asset-specific Maintenance Schedule

02

Preventive Maintenance & Calibration Based on Modality Type

03

Emergency Repair Response Technicians Dispatched Immediately

04

Refrigerant, Glycol, or Helium Cooling Verification & Leak Detection

05

Digital Documentation via Equip ID™ for Compliance & Service Records

