

INSTRUCTIONS FOR USE AND INFORMATION FOR THE ASSEMBLER

X-RAY TUBE HOUSING HEAT EXCHANGER

Product: Heat Exchanger

Model: RELL HE1256.2














Manufacturer: Richardson Electronics - Healthcare
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USA

Authorized Representative in the European Community:

Richardson Electronics GmbH
Raiffeisenstrasse 5
Donaueschingen
78116
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Originally written in English.

Graphic symbols associated with the product:

Protective Earth; Protective Ground	
Caution	
Caution, Hot Surface	
Catalogue Number	
Date of Manufacture	
Manufacturer	
Serial Number	
Temperature Limit	
Atmospheric Pressure Limit	
Humidity Limitation	
Authorized Representative in the European Community	
Separate Collection for Waste	
Instructions For Use	

Intended use: RELL HE1256.2 is a heat exchanger (cooling unit) intended to provide cooling fluid to particular models of X-Ray Tube Housing Assemblies.

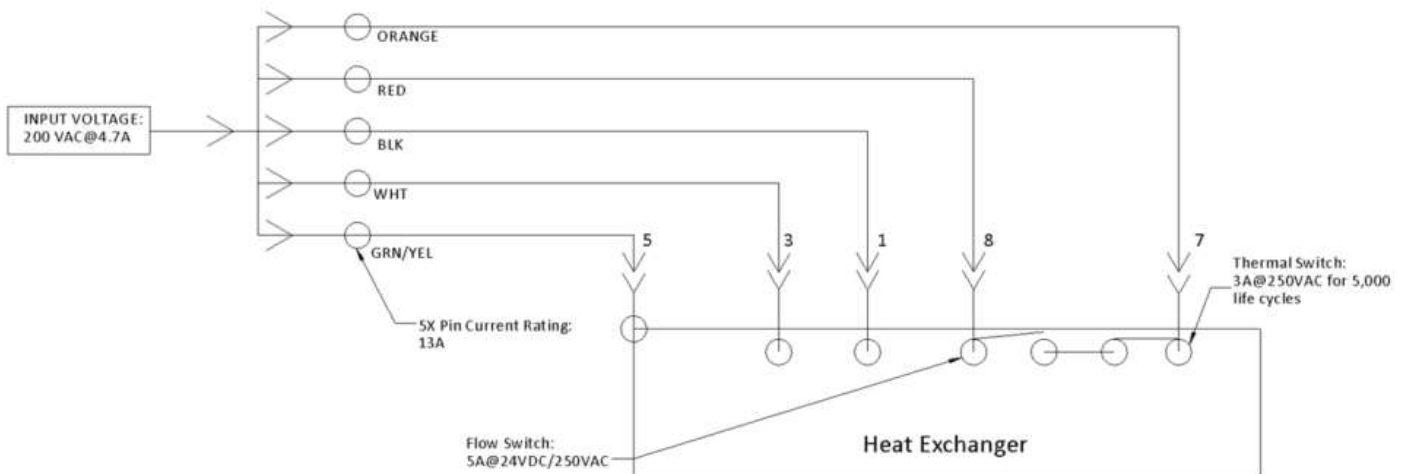
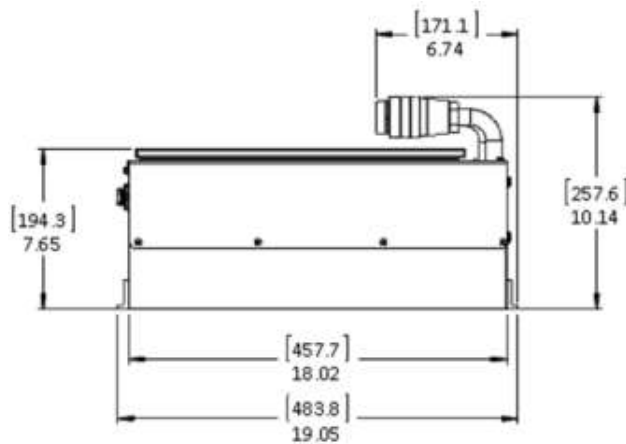
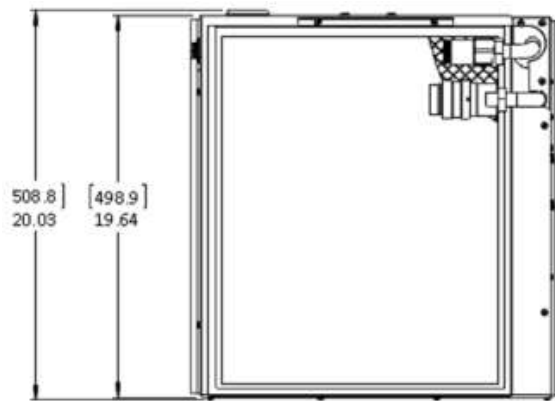
Consult the scanner equipment manufacturer’s instructions regarding proper installation. A qualified service provider must provide service and maintenance. X-Ray Tube Housing heat exchangers (cooling units) do not contain field serviceable parts. In the event the product is not working properly, it should be removed by qualified service personnel and returned to supplier.

Upon receipt of product, inspect for damage or breakage. If any damage occurred during transport report to the carrier and file a written report.

Retain the shipping container for use to return product.

Specifications

Weight	66.1 lb (30 kg)
Maximum cooling rate	4 kW
Fluid	50/50 mixture of Propylene Glycol and deionized water
Input voltage	200 VAC
Input Current	4.7 Amps
Frequency	50 – 60 HZ
Flow Switch	Normally open contacts, closes with adequate fluid flow
Thermal Switch	Normally closed contacts, opens at 90° C
Temperature Limit for Transport and Storage	-20° to +75° C
Pressure Limit for Transport and Storage	70 to 106 kPa
Humidity Limit for Transport and Storage	10% to 95% RH
Temperature Limit for Operation	+5° to +40° C
Pressure Limit for Operation	70 to 106 kPa
Humidity Limit for Operation	10% to 95% RH



Safety

WARNING: To avoid the risk of electrical shock, this equipment must only be connected to a supply with protective earth.

WARNING: No modification to the heat exchanger is allowed. The heat exchanger is not field serviceable. In the event the device is not functioning properly, it should be returned to Richardson.

CAUTION: The RELL HE1256.2 heat exchanger contains a mixture of propylene glycol and water. It must only be connected to x-ray tube housing assemblies designed for this fluid. These housing assemblies typically are labeled with a green DF tag on the interconnect hose.

Potential Hazards Associated with X-Ray Tube Housing Heat Exchangers

Heat: The assembly contains fluids used for their cooling properties. Overheating of the assembly may result in rupture and escaping fluids which could result in serious burns. The unit may operate at elevated temperatures. Do not disconnect for X-Ray Tube unit when hot.

Weight: The unit is heavy. (consult Product Tech Data for unit specific weight)

Disposal: Take back, proper disposal and recovery of Medical Devices takes place in accordance with European WEEE directive and the requirements of national legislation. The heat exchanger may be returned to Richardson Healthcare for proper disposal.

Richardson Healthcare strives to be environmentally conscious. Select materials and components are recycled. Controls are in place to assure that all products meet specifications and safety requirements.

Maintenance: All maintenance should be performed by qualified maintenance personnel. Periodically inspect the unit in accordance with the CT System manufacturer recommendation.

Additional Information for the Assembler

X-Ray Tube Housing Heat Exchangers should only be installed and maintained by qualified service providers.

X-Ray Tube Heat Exchangers are provided with thermal or pressure switches. These switches must be connected to an interlock circuit to provide a visual or audible warning and/or prevent exposure to avoid overheat conditions.

Compatibility

The REL HE1256.2 is compatible with the following X-Ray Tube Assemblies:

Richardson Electronics ALTA750

Varex Imaging MCS-7078D, MCS7078D Rev 2

Canon (Toshiba) CXB-750D