



ALTA750[®] X-RAY TUBE

PRODUCT DESCRIPTION

The ALTA750[®] is an X-Ray Tube specifically designed for use with CT Scanners. This tube is intended for reload in the ALTA750[®] X-Ray Tube Housing and used with the Richardson RELL HE1256.2 Heat Exchanger or the Varex* HE-1256 Rev 2 Heat Exchanger.

INTENDED USE

The ALTA750[®] Tube is intended to be used in an X-Ray tube housing assembly. The assembly is designed to emit ionizing radiation and is intended to be used as a component of a CT system which is used for diagnostic and interventional X-Ray applications on a stationary system.

INCLUDED INFORMATION AND SPECIFICATIONS



- Tube Specifications
- Volumetric / Helical Scan Ratings
- Cathode Emission Characteristics
- Anode Heating and Cooling Curves
- Disposal Information

Originally written in English.

Additional copies and alternate language versions available upon request from techdata@rell.com

*This product is not affiliated with, endorsed by, or sponsored by Varex Imaging.

TUBE SPECIFICATIONS

Nominal X-ray Tube Voltage	K V	150
Anode Diameter	mm	200
Anode Material		ReW-TZM-C
Anode Angle	Degrees	7
Nominal Focal Spot – Small  IEC 60336 Loading Factor 120kV x 200mA	IEC 60336	0.9 x 0.8
Nominal Focal Spot – Large  IEC 60336 Loading Factor 120kV x 200mA	IEC 60336	1.6 x 1.4
Anode heat content (Maximum)	MJ	5.4
Nominal Anode Input Power - Large	kW	72
Nominal Anode Input Power - Small	kW	42
Anode Heat Dissipation (Maximum)	W	12,000
Maximum Filament Current - Large	A	5
Maximum Filament Voltage - Large	V	14.4
Maximum Filament Current - Small	A	4.8
Maximum Filament Voltage - Small	V	12.3

HOUSING SPECIFICATIONS

Refer to ALTA750® X-Ray Tube Housing Technical Data.

VOLUMETRIC / HELICAL SCAN RATINGS IEC 60613

3Ø 50 Hz 
 0.9 x 0.8 Focal Spot
 7 Degree Target

Volume Scan Time (Seconds)	Maximum Allowed Tube Current (mA) as a Function of the Following Starting Heat Storage and Tube Voltages								
	Starting Heat Storage 40%			Starting Heat Storage 55%			Starting Heat Storage 70%		
	100 kV	120 kV	135 kV	100 kV	120 kV	135 kV	100 kV	120 kV	135 kV
4	300	250	225	300	250	225	300	250	225
10	300	250	225	300	250	225	300	250	225
15	300	250	225	300	250	225	300	250	225
20	300	250	225	300	250	225	300	250	225
30	300	250	225	300	250	225	300	250	225
45	300	250	225	300	250	225	300	250	225
60	300	250	225	300	250	225	250	200	175
75	300	250	225	300	250	225	225	175	150
80	300	250	225	300	250	225	200	175	150
90	300	250	225	275	225	200	200	150	150

3Ø 50 Hz 
 1.6 x 1.4 Focal Spot
 7 Degree Target

Volume Scan Time (Seconds)	Maximum Allowed Tube Current (mA) as a Function of the Following Starting Heat Storage and Tube Voltages								
	Starting Heat Storage 40%			Starting Heat Storage 55%			Starting Heat Storage 70%		
	100 kV	120 kV	135 kV	100 kV	120 kV	135 kV	100 kV	120 kV	135 kV
4	670	560	500	670	560	500	670	560	500
10	670	560	500	670	560	500	670	560	490
15	670	560	500	670	560	500	640	530	470
20	670	560	500	670	560	500	610	510	450
30	600	500	440	600	500	440	440	360	320
45	540	450	400	480	400	350	320	270	240
60	450	370	330	380	310	280	260	220	190
75	410	340	300	310	260	230	230	190	170
80	380	320	280	300	250	220	220	180	160
90	350	290	260	270	230	200	200	170	150

3Ø 100 Hz 
 0.9 x 0.8 Focal Spot
 7 Degree Target

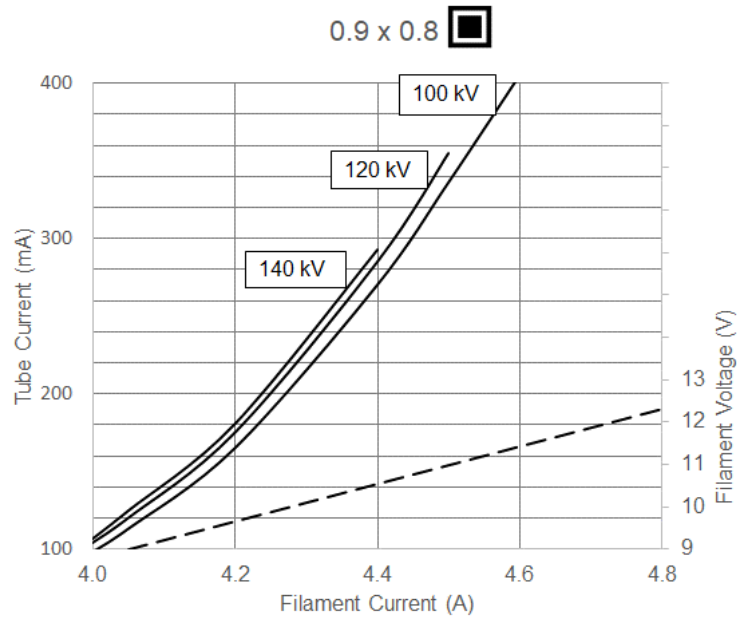
Volume Scan Time (Seconds)	Maximum Allowed Tube Current (mA) as a Function of the Following Starting Heat Storage and Tube Voltages								
	Starting Heat Storage 40%			Starting Heat Storage 55%			Starting Heat Storage 70%		
	100 kV	120 kV	135 kV	100 kV	120 kV	135 kV	100 kV	120 kV	135 kV
4	425	350	300	425	350	300	425	350	300
10	425	350	300	425	350	300	425	350	300
15	425	350	300	425	350	300	425	350	300
20	425	350	300	425	350	300	425	350	300
30	425	350	300	425	350	300	400	325	300
45	425	350	300	425	350	300	300	250	225
60	425	350	300	375	300	275	250	200	175
75	400	325	300	300	250	225	225	175	150
80	375	300	275	300	250	225	200	175	150
90	350	275	250	275	225	200	200	150	150

3Ø 100 Hz 
 1.6 x 1.4 Focal Spot
 7 Degree Target

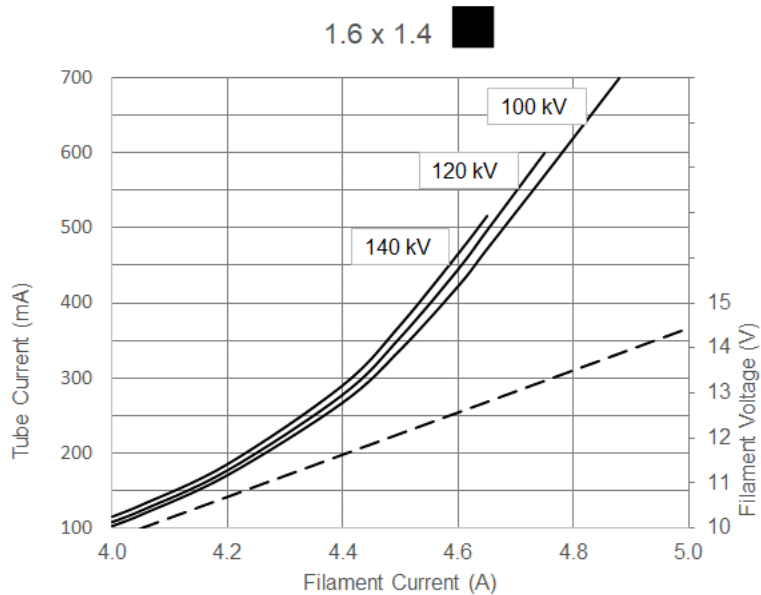
Volume Scan Time (Seconds)	Maximum Allowed Tube Current (mA) as a Function of the Following Starting Heat Storage and Tube Voltages								
	Starting Heat Storage 40%			Starting Heat Storage 55%			Starting Heat Storage 70%		
	100 kV	120 kV	135 kV	100 kV	120 kV	135 kV	100 kV	120 kV	135 kV
4	720	600	530	720	600	530	720	600	530
10	720	600	530	720	600	530	720	600	530
15	720	600	530	720	600	530	720	600	530
20	720	600	530	720	600	530	610	510	450
30	600	500	440	600	500	440	440	360	320
45	540	450	400	480	400	350	320	270	240
60	450	370	330	380	310	280	260	220	190
75	410	340	300	310	260	230	230	190	170
80	380	320	280	300	250	220	220	180	160
90	350	290	260	270	230	200	200	170	150

CATHODE EMISSION CHARACTERISTICS IEC 60613

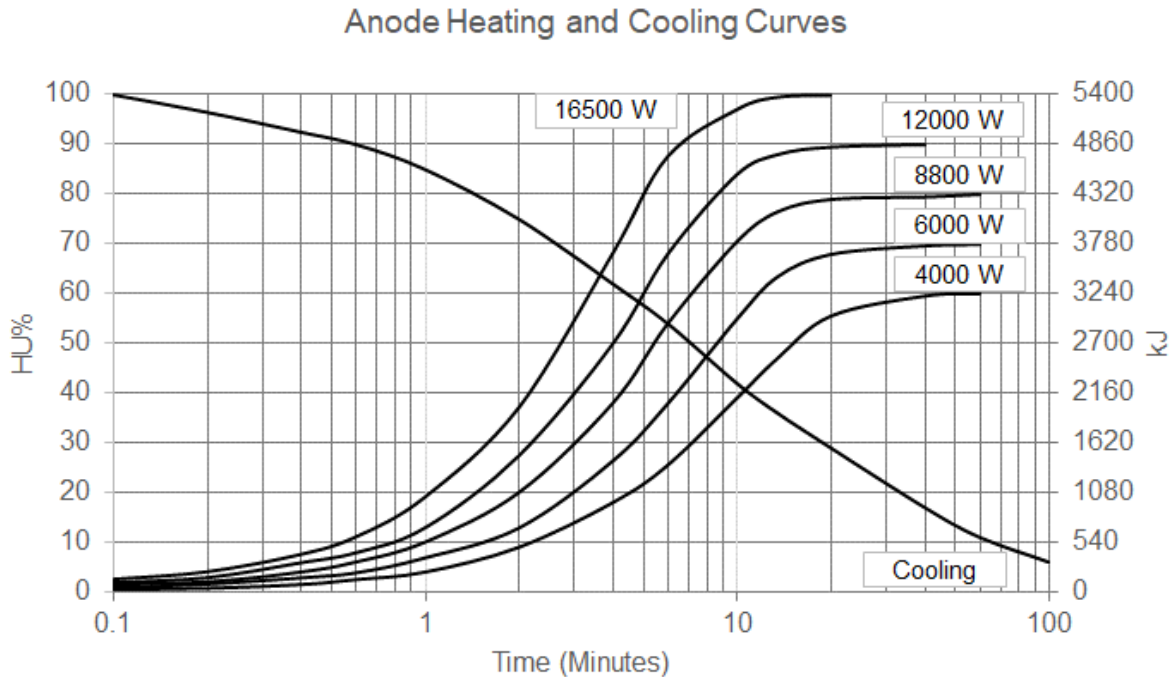
Three Phase Emission (+/- .15 A)



Three Phase Emission (+/- .15 A)



ANODE HEATING AND COOLING CURVES IEC 60613



DISPOSAL INFORMATION

Take back, proper disposal and recovery of Medical Devices takes place in accordance with European WEEE directive and the requirements of national legislation.

The x-ray tube contains beryllium and cooling fluids. The x-ray tube must not be disposed in domestic or industrial waste; it must be disposed in accordance with local regulation.

The x-ray tube may be returned to Richardson Electronics for proper disposal.

Richardson Electronics 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.

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