

Technical Data

WL1000 1KW Water Cooler

The WL1000 is a closed circuit 1kW water cooler designed to cool unipolar x-ray tubes. The water is cooled by an air cooled heat exchanger, while the water pressure is limited by an adjustable bypass valve.

Dimensions (mm) W x H x D	300 x 292 x 330 cm
Weight (without coolant)	17kg
Coolant Capacity	1000W/1.5L
Coolant Type	Water or Water/Glycol
Performance Data	
Cooling Capacity @ temperature difference of 10° 1kW	
Flow Rate	>4.4 lpm @ 4 bar
Frequency	50/60Hz
Input Voltage	230VAC
Noise Level @ 1m distance	<70 db(A)
Environmental Specifications	
Operating Temperature	+10°C – +40°C
Storage Temperature	-25°C – +70°C (empty)
Air Humidity	20% – 80% (non condensing)
Settings	
Maximum forward pressure	7 bar ± 0.5 bar
Flow switch open	4l/pm
Temperature switch open	47°C

WL3000S 3KW Water Cooler

The WL3000S is a closed circuit 3kW water cooler designed to cool unipolar x-ray tubes. The water is cooled by an air cooled heat exchanger, while the water pressure is limited by an adjustable bypass valve.

Dimensions (mm) W x H x D	480 x 400 x 480mm
Weight (without coolant)	38.5kg
Coolant Capacity	3000W/3.7L
Coolant Type	Water or Water/Glycol
Performance Data	
Cooling Capacity @ temperature difference of 10° 2kW – 4kW	
Flow Rate	>6.0 lpm @ 4 bar
Frequency	50/60Hz
Input Voltage	230VAC
Noise Level @ 1m distance	<59 db(A)
Environmental Specifications	
Operating Temperature	+10°C – +40°C
Storage Temperature	-25°C – +70°C (empty)
Air Humidity	20% – 90% (non condensing)
Settings	
Maximum forward pressure	7 bar ± 0.2 bar
Flow switch open	4l/pm
Temperature switch open	40°C ± 3°C

Thermica 5kW water cooler

The Thermica 5kW water cooler is designed to cool unipolar x-ray tubes. The coolant is re-circulated by using a high pressure pump to assure the required flow rate. The cooler covers the complete range of cooling capacity from 0 – 5000W with a very high thermal efficiency. The cooler will always produce the lowest possible noise level due to its auto adaptive behavior. This behavior adapts its heat dissipation capacity based on the power input and

altitude. The control behavior of the cooler can be customised by parameter settings in the controller.

Dimensions (mm) W x H x D	431 x 462 x 445 [mm]
Weight (without coolant)	33 [kg]
Coolant capacity	5000W/4.0L
Coolant type	Water or Water/Glycol
Coolant filter	160 µm
Cooling capacity @ temperature difference of 10°	5000W @ IDT 10°C
By-pass valve setting – pump	8.0 bar(g) (fully open)
Pressure regulating valve – heat exchanger	1.0 bar(g)
Max system pressure	10 bar(g)
Max return temperature	70 °C
Performance Data	
Flow rate	>6.0 lpm @ 4 bar
Frequency	50/60Hz
Input Voltage	230 VAC ± 10% / 3.4 A
Noise Level @ 1m distance	<59 db(A)
Environmental Specifications	
Operating temperature	+5°C - +40 °C
Storage temperature	Ambient temperature: -20 - +70 °C
Relative humidity	20-90% RH; non-condensing
Noise level at 3000W and 1m	57 dBA
Settings	
Max system pressure	10 bar(g)
Flow switch	Normally open; 24 VDC / 100 mA
Level switch	Normally open; 24 VDC / 100 mA

Dimensions (mm) W x H x D	431 x 462 x 445 [mm]
Flow switch min level	4.0 L/min