

# ISOVOLT WL 5000 RE

## Water Cooling Pump



### Application

The water cooling pump WL 5000 RE is used for direct cooling of ISOVOLT-unipolar X-ray tube housings.

The water cooling pump WL 5000 RE is used in cases in which a direct connection to the water supply is impossible or economically not feasible.

The cooling pump should also be used when contamination or high lime concentration in the water supply prohibits use of direct cooling.

All parts likely to be affected by the cooling water are made of stainless steel, or of a non-corroding alloy.

Equipped with mechanical flow rate switch with spring-supported piston and magnetic triggering of a reed switch. A thermostat switch is monitoring the temperature of the cooling water.

Continuous operation of ISOVOLT unipolar X-ray tube housings (depending on ambient temperature and tube power).



# Technical Data

<b>Dimensions and Weights</b>	Length	483 mm (19.02 inch)
	Width	406 mm (15.98 inch)
	Height	481 mm (18.94 inch)
	Weight	Approximately 38,5 kg (83,8 lbs) without water
	Tank capacity	Approximately 5.0 l
<b>Output Data</b>	Cooling output	5000 W ( $\Delta T \leq 13.2$ K)
	Circulation rate	$\geq 6.5$ l/min at 3.0 bar
	Mains voltage	230 V +/- 10%, 50/60 Hz
	Power input	$\leq 2.6$ A
<b>Environmental Conditions</b>	Noise level	63 dB (A) at 50 Hz, measured at a 1 m distance 67 dB (A) at 60 Hz, measured at a 1 m distance
	Operating temperature range	-10°C ... +40°C (with sufficient antifreeze)
	Storage temperature range	-25°C ... +70°C (storage without water)
	Relative air humidity range	20% ... 90%
<b>Settings</b>	Maximum pressure	7.0 bar $\pm$ 0.2 bar

## Description

The cooling output depends on the ambient temperature, on the temperature of the return-flow cooling water, and also on the flow rate. It amounts 5000 W at the temperature difference of 13.2 K between water outlet- and ambient temperature.

In practice, the cooling capacity of the WL 5000 RE at up to 25°C ambient temperature is sufficient for continuous operation (100% duty cycle) of ISOVOLT unipolar X-ray tube housings (up to 5000 W).

The water cooling pump WL 5000 RE consists of the following components:

- 1 storage tank
- 1 radial ventilators
- 1 thermostat
- 1 electromechanic flow rate switch
- 1 radiators
- 1 protective housing
- 1 electric motor and pump unit
- 1 connecting cable,  
10 m (32 ft) long with plug-in connection



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