



VAREX  
IMAGING

## THERMICA WATER TO AIR COOLER

Making the Invisible Visible



The VAREX THERMICA water to air cooler is a re-circulating liquid to air device. 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 customized by parameter settings in the controller.

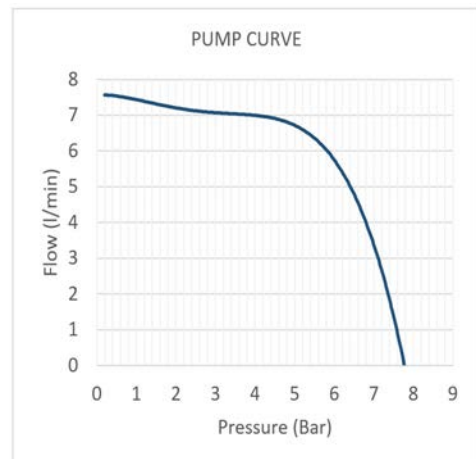
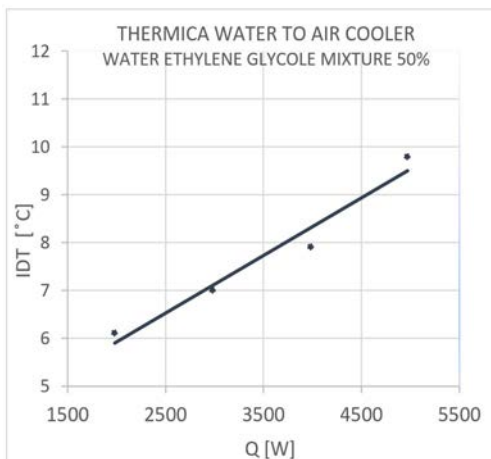
### FEATURES

- Covering cooling range from 0-5000W
- Compact design
- High efficiency cooler 500W/°C
- Lowest possible noise level
- NRTL listed
- Easy to service due to smart connections
- Auto adaptive with respect to heat dissipation and altitude

### APPLICATIONS

- X-ray cooling for industrial applications
- Semiconductor fabrication equipment cooling
- Linear accelerators and cyclotrons

### Technical performance



## TECHNICAL SPECIFICATIONS

NRTL listed	IEC 61010-1
Power source	230 VAC ± 10% / 3.4 A
Frequency	50 / 60 Hz
Flow switch	Normally open; 24 VDC / 100 mA
Level switch	Normally open; 24 VDC / 100 mA
Coolant	Water / Ethylene glycol [max 50%vol]
Cooling capacity	5000W @ IDT 10 °C
Fan speed	Auto adaptive
Coolant filter	160 µm
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 altitude	2000 m
Operation environment	Ambient temperature: +5°C - +40 °C
	Relative humidity: 20-90% RH; non-condensing
	Atm pressure: altitude <2000 m
	Environment: industrial
Transport and storage	Ambient temperature: -20 - +70 °C
	Relative humidity: 30-95% RH; non-condensing
	Withstand normal means of transport
Max return temperature	70 °C
Noise level at 3000W and 1m	57 dBA
Ingress protection cooler	IP21 (individual components can be higher)
Control parameter setting	To be customized
Flow switch min level	4.0 L/min
Max hose length	40m – DN12
	20m – DN10
	5m – DN8
Max cable length monitoring circuit	<30m
Interface	Electrical mains: Binder 3 pins + PE: 99-4222-00-04
	Electrical communication: Binder 12 pins: 99-6518-000-12
	Hydraulic – 3/8 inch female thread BSPP
Dimensions: Length x Height x Width	431 x 462 x 445 mm (L = air travel fan and radiator)
Weight	33 kg

### MORE INFORMATION

Varex Imaging Group Nederland B.V. is part of Varex Imaging Corporation a leading innovator, designer and manufacturer of X-ray imaging components, which includes tubes, digital flat panel detectors and other image processing solutions, which are key components of X-ray imaging systems.

For more information, please contact a Varex Imaging sales representative in your territory. Contact details are available at <https://www.vareximaging.com/contact>.



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