

COOLING SYSTEM DATASHEET

SOETECK · LIQUID COOLING & CDUS

Soetec 12 kW Intelligent Water Cooling Radiator

12 kW standalone liquid-to-air radiator with intelligent temperature control for single water-cooled machines

SKU ST-WCR

Soetec



COOLING CAPACITY

up to 12 kW

WATER FILL CAPACITY

≈ 8 L

RATED CLASS

12 kW...

PRICE

On request**REQUEST A QUOTATION ONLINE**serverinvest.com/product/soetec-water-cooling-radiator

01 Product overview

The Soetec intelligent water cooling radiator is a compact, self-contained liquid-to-air heat exchanger for a single water-cooled machine. It combines a pump, finned radiator and variable-speed fans in one portable unit, rejecting the heat from the machine's water loop directly to the surrounding air without the need for a facility chilled-water system.

It was designed for Hydro-series water-cooled mining machines and is equally relevant to other individual water-cooled compute loads in small sites, workshops, labs or temporary deployments where a CDU and dry-cooler plant would be oversized.

Operation

The radiator offers automatic and manual speed control, so fan speed (adjustable from 0 to 6,000) can follow the large temperature differences between day and night. In testing at 33 °C ambient with an 11 kW machine, it held the coolant at 46.6 °C with a flow of 11 L/min. Water consumption is low at roughly 100 ml per week, and the system holds about 8 litres.

Own power consumption of 0.5 kW via a C14 inlet (C13 cord, 220V) 12 mm inlet and outlet; 12 mm ID silicone tubing supplied as standard Approx. 75 × 22 × 58 cm, 21 kg

Operating noise from 20 to 75 dB depending on fan speed

For larger liquid-cooled deployments, ServerInvest sizes, supplies and integrates complete loops, from CDUs and racks to servers and power, and you can plan the installation in our 3D Room Builder.

HIGHLIGHTS

- 12 kW class radiator, tested with an 11 kW water-cooled load
- Automatic and manual fan-speed modes for day/night temperature swings
- Approx. 8 L fill; around 100 ml top-up water per week
- 11 L/min flow, 12 mm inlet/outlet with silicone tubing included
- 0.5 kW own consumption, 21 kg, C14 inlet for 220V



02 Full specifications

TECHNICAL DATA

Rated class	12 kW intelligent temperature control
-------------	---------------------------------------

KEY SPECIFICATIONS

Rated class	12 kW intelligent temperature control
Water fill capacity	≈ 8 L
Power interface	1× C14 inlet; C13 power cord, 220V
Radiator power consumption	0.5 kW
Net weight	21 kg
Inlet / outlet diameter	12 mm (12 mm ID silicone tubing included)
Dimensions (L × D × H)	Approx. 75 × 22 × 58 cm incl. pump, fittings, handle and base
Test ambient temperature	33 °C
Test load (machine power)	11 kW
Coolant temperature at test	46.6 °C
Water flow rate	11 L/min
Fan speed adjustment range	0 – 6000

Water fill capacity	≈ 8 L
Power interface	1× C14 inlet; C13 power cord, 220V
Radiator power consumption	0.5 kW
Net weight	21 kg
Inlet / outlet diameter	12 mm (12 mm ID silicone tubing included)
Dimensions (L × D × H)	Approx. 75 × 22 × 58 cm incl. pump, fittings, handle and base
Test ambient temperature	33 °C
Test load (machine power)	11 kW
Coolant temperature at test	46.6 °C
Water flow rate	11 L/min
Fan speed adjustment range	0 – 6000
Operating noise	20 – 75 dB
Water consumption	Approx. 100 ml per week
Control modes	Automatic and manual

03 Engineered, delivered & supported by ServerInvest

Engineering & sizing

Selected and sized against your real IT load, room and redundancy targets.

Installation

Delivery, installation and commissioning by our engineers across Europe.

Certified processes

ISO 9001, ISO 14001 and ISO 27001 certified project delivery.

Service & support

Maintenance, spare parts and support from a single partner.



Interested in this solution?

Request a quotation online or talk to a solutions engineer — we reply within one business day.
office@serverinvest.com

