

COOLING SYSTEM DATASHEET

SOETECK · IMMERSION COOLING

Soetec Dual-Tank Immersion Cooling System

Plug-and-play single-phase immersion system with two 20U tanks and 15 kW heat exchange, PUE below 1.2

SKU ST-DTI

Soetec



COOLING CAPACITY

up to 15 kW

SPACE CAPACITY

20U × 2

PRODUCT

Dual-tank...

PRICE

On request**REQUEST A QUOTATION ONLINE**serverinvest.com/product/soetec-dual-tank-immersion-system

01 Product overview

The Soetec Dual-Tank Immersion System is a compact, self-contained liquid cooling package in which servers are fully submerged in a dielectric coolant. It consists of two immersion tanks, each providing 20U of equipment space, and a single outdoor cooling cabinet. The design is aimed at small and medium compute clusters, edge and high-density sites, and projects where equipment must be in service quickly, such as 5G BBU installations and IDC expansions.

Heat moves from the components directly into the coolant, which is circulated by a pump rated for 4–10 m³/h flow and 10–40 m head (1,100 W). The system transfers up to 15 kW and holds the coolant at or below 45 °C, a setpoint that can be adjusted. Final heat rejection is handled by a dry cooler or a cooling tower, depending on site climate and water availability. With no chillers or computer room air handlers involved, Soetec specifies a PUE below 1.2.

Deployment

Each tank measures 1200 × 700 × 1140 mm and stands on the floor indoors. Filled with its share of the 520 L coolant charge and IT hardware, a tank weighs about 580 kg, so floor loading should be checked during planning. Because the system works as a plug-and-play unit without secondary-side piping in the IT space, the risk of water leaks near equipment is removed and installation is reduced to placing the tanks, connecting the outdoor unit and supplying AC 220 V power. Operating noise is 55–60 dB, considerably quieter than fan-cooled racks.

ServerInvest sizes,...

KEY SPECIFICATIONS

Product	Dual-tank immersion liquid cooling system
Space capacity	20U × 2
Configuration	2 × immersion cooling tank + 1 × outdoor cooling cabinet
Tank dimensions	1200 × 700 × 1140 mm (× 2)
Heat exchange rate	15 kW
Coolant operating temperature	≤ 45 °C (adjustable)
Maximum power	1.7 kW
Power distribution	AC 220 V
Coolant volume	520 L
Full weight	≈ 580 kg × 2
Circulating pump	Flow 4–10 m ³ /h, head 10–40 m, 1100 W
Operating noise	55–60 dB

HIGHLIGHTS

- Two immersion tanks of 20U each plus one outdoor cooling cabinet
- 15 kW heat exchange rate, coolant up to 45 °C (adjustable)
- No secondary-side piping inside the room
- 520 L coolant charge, approx. 580 kg per filled tank
- Operating noise 55–60 dB, PUE below 1.2
- Dry cooler or cooling tower heat rejection



02 Full specifications

SYSTEM SPECIFICATIONS

Product	Dual-tank immersion liquid cooling system
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Space capacity	20U × 2
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Power distribution	AC 220 V
Coolant volume	520 L
Full weight	≈ 580 kg × 2
Circulating pump	Flow 4–10 m³/h, head 10–40 m, 1100 W
Operating noise	55–60 dB
Installation	Indoor, floor-standing
Heat rejection	Dry cooler or cooling tower
Applications	5G BBU, IDC, edge and small clusters
PUE	< 1.2

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Engineering & sizing

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