

COOLING SYSTEM DATASHEET

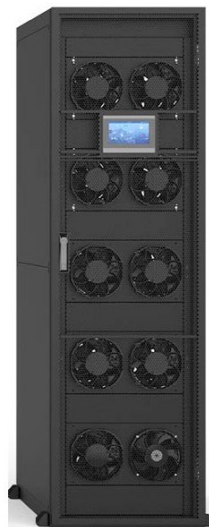
SOETECK · LIQUID COOLING & CDUS

Soetek SY-ALI Air-Liquid Fusion Cooling Unit

One cooling unit for mixed racks: 60–150 kW liquid plus 40 kW air cooling from a shared source

SKU SY-ALI

Soetek



LIQUID COOLING
CAPACITY
SY-ALI 190: 15...

POWER SUPPLY
380 V ~ 50 Hz

EVAPORATOR TYPE
Tube-fin

PRICE
On request

**REQUEST A QUOTATION ONLINE**

serverinvest.com/product/soetek-air-liquid-fusion-cooling-solution-liquid-...



01 Product overview

The Soetec SY-ALI Air-Liquid Fusion unit combines liquid cooling for cold-plate servers and air cooling for conventional equipment in a single machine. Instead of building two independent cooling plants, the data centre draws both cooling streams from one shared source. The series comprises three models with 150, 100 or 60 kW of liquid cooling capacity, each adding 40 kW of fully sensible air cooling.

The unit is aimed at three scenarios: small and medium data centres that want a simple architecture, hybrid facilities that are mostly air-cooled but need to accept liquid-cooled racks, and AI computing halls deploying cold-plate servers for large model training. Its controller continuously rebalances the share of air and liquid cooling according to the actual load on each side, so capacity follows the mix of hardware installed.

How it works

A DC inverter scroll compressor running on R410A drives the refrigeration circuit. On the air side, a tube-fin evaporator and G4 filter deliver 9,500 m³/h of airflow at 10 Pa. On the liquid side, primary and secondary circuits connect via $\varnothing 77.5$ mm quick-connect couplings. The whole unit fits in a 600 × 1200 × 2000 mm cabinet weighing 500 kg, runs on 380 V/50 Hz and is rated for outdoor ambient temperatures from -40 to 45 °C.

Soetec estimates around 20% lower cost than building separate air and liquid systems, and operations teams manage only one cooling platform. That makes the SY-ALI a practical step for sites that will migrate to...

HIGHLIGHTS

- Liquid cooling capacity of 60, 100 or 150 kW plus 40 kW air cooling
- Single system serves both cold-plate and air-cooled servers
- Air/liquid ratio adjusts automatically to the load split
- DC inverter scroll compressor, R410A refrigerant
- Compact 600 × 1200 × 2000 mm footprint
- Outdoor ambient range -40 to 45 °C



02 Full specifications

SY-ALI SERIES SPECIFICATIONS

Models SY-ALI 190 · SY-ALI 140 · SY-ALI 100

KEY SPECIFICATIONS

Models	SY-ALI 190 · SY-ALI 140 · SY-ALI 100
Liquid cooling capacity	SY-ALI 190: 150 kW · SY-ALI 140: 100 kW · SY-ALI 100: 60 kW
Air cooling capacity	40 kW (all models)
Sensible heat ratio (air side)	1
Airflow	9500 m³/h @ 10 Pa
Power supply	380 V ~ 50 Hz
Rated input power	SY-ALI 190: 22.3 kW · SY-ALI 140: 21.8 kW · SY-ALI 100: 21.5 kW
Maximum input current	82 A
Evaporator type	Tube-fin
Compressor type	DC inverter scroll compressor
Air filter	G4
Primary/secondary connection	Quick-connect coupling, $\varnothing 77.5$ mm

Liquid cooling capacity	SY-ALI 190: 150 kW · SY-ALI 140: 100 kW · SY-ALI 100: 60 kW
Air cooling capacity	40 kW (all models)
Sensible heat ratio (air side)	1
Airflow	9500 m³/h @ 10 Pa
Power supply	380 V ~ 50 Hz
Rated input power	SY-ALI 190: 22.3 kW · SY-ALI 140: 21.8 kW · SY-ALI 100: 21.5 kW
Maximum input current	82 A
Evaporator type	Tube-fin
Compressor type	DC inverter scroll compressor
Air filter	G4
Primary/secondary connection	Quick-connect coupling, $\varnothing 77.5$ mm
Refrigerant	R410A
Dimensions (W × D × H)	600 × 1200 × 2000 mm
Weight	500 kg
Outdoor ambient range	-40 to 45 °C

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

