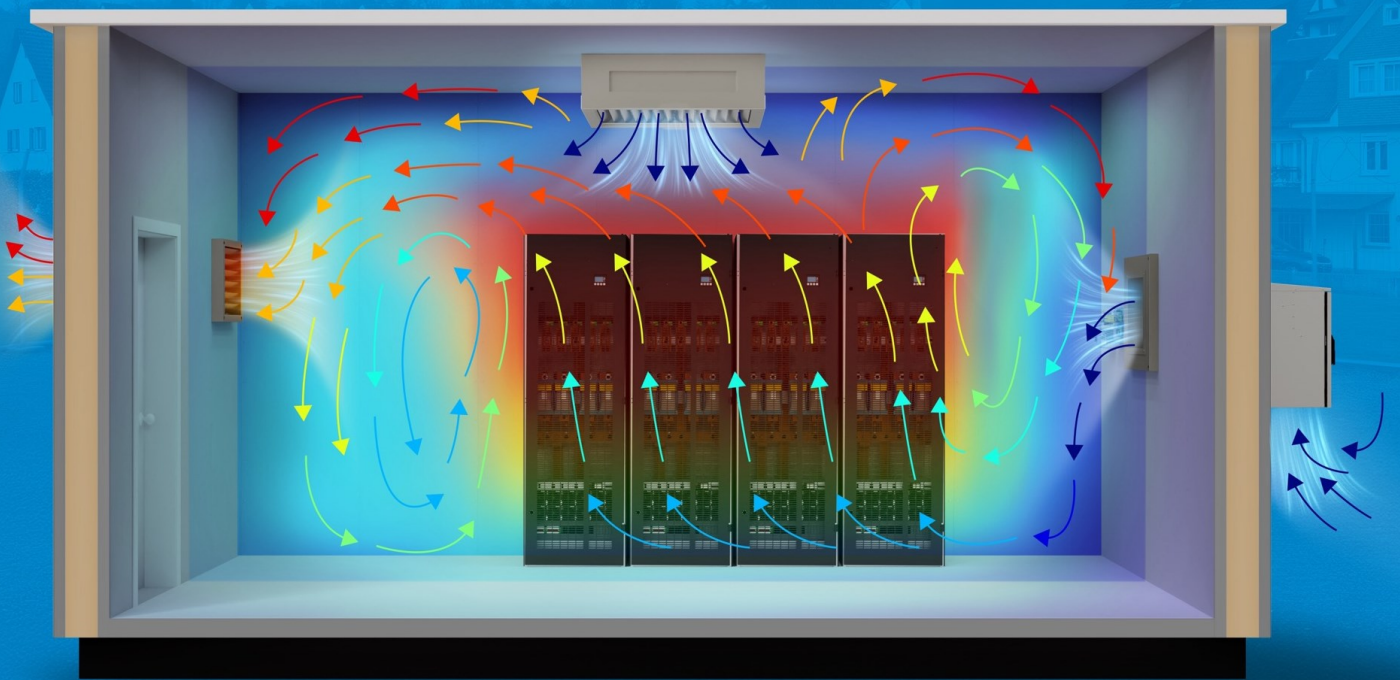


Smart Cooling Unit

Hybrid Cooling Solution



Description

For telecom devices and data centers that generate significant heat due to continuous operation, efficient cooling systems like Smart Cooling are essential to ensure the performance and longevity of the equipment.

The hybrid cooling system for containers is primarily designed for the modernization of cooling systems of existing and operating telecommunications located in containers or rooms equipped with ACU.

Smart Cooling Unit brings significant savings of energy used for cooling whilst ensuring appropriate temperature inside the container.

Main features

- Easy Installation and Configuration
- Multi-mode cooling and climate control operation
- Air conditioner smart operation control for energy consumption optimization
- Increase of the lifetime of the air conditioning unit on site
- Remote alarming via alarm relays
- Support of Orion Controller (Remote access)

Applications

- Outdoor Telecom shelters
- Telecom Shelters with Climate control
- Military Shelters with Climate control
- Oil pump Jack Control Cabinets
- Utility Cabinets & Shelters

SMART COOLING UNIT

Hybrid Cooling Solution

GENERAL SPECIFICATION	
Rated Voltage / Supply range	48 V _{DC} / 36...56 V _{DC}
Input protection	10 A
Power input @48V _{DC}	300 W @100%
Cooling capacity, $\Delta t = 7\text{ }^{\circ}\text{C}$ 40 / 60 / 80 / 100 %	~ 2200 / 3400 / 4500 / 5600 W
Cooling capacity, $\Delta t = 10\text{ }^{\circ}\text{C}$ 40 / 60 / 80 / 100 %	~ 3200 / 4800 / 6400 / 8000 W
Sound power level 3m distance	52.2 dB(A) @100% 45.5 dB(A) @80%
Airflow [m ³ /h] 40 / 60 / 80 / 100 %	960 / 1440 / 1920 / 2400 m ³ /h
Expected operating life	8 years (70 000 h) at constant full speed operation

CONTROL BOX	
Dimensions (HxWxD)	236 x 290 x 130 mm
Controller	IOM-X1 PCBA card (Default) Optional Orion Touch controller (mandatory if not available on site)
Remote monitoring	Alarm relays, modem, web interface, ModBus RS485, SNMP, MQTT
Ingress Protection	IP20

AIR SUPPLY UNIT (FAN BOX)	
Skin Material	Galvanized steel 1.25 mm Powder coating (RAL 7035)
Dimensions (HxWxD)	697 x 716 x 680 mm
Wall opening	620 x 300 mm
Operating temperature range	-20 °C to +60 °C
Thermal insulation	EPDM closed cell foam, 10 mm
Input air filter	Insect filter + Air filter G4
Ingress Protection	IP55
Weight	70 kg

DESIGN STANDARDS	
Electrical safety	IEC/EN 62368-1
EMC	ETSI EN 300 386 v2.2.1 EN 61000-3-2 /-3, EN 62233
Ingress Protection	EN 60529

ORDERING INFORMATION	
Product platform configurator	CLSTA801AB3****