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SK 3311.493 Liquid Cooling Unit

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SK 3311.493 - Liquid Cooling Unit LCU DX, redundant

Refrigerant-based enclosure cooling in redundant version for VX IT or Micro Data Center without heating up the installation room. With two output categories 3 kW and 6.5 kW, the ideal cooling solution for smaller IT applications.

Features

Model No.	SK 3311.493
Version	LCU DX 6.5 kW redundant
Benefits	<p>Space-saving solution by installing the redundant internal unit in the VX IT server enclosure or the Micro Data Center</p> <p>Maximum energy efficiency due to EC fan technology and IT-based control</p> <p>Control of the server inlet temperature</p> <p>The inverter-controlled compressor matches the cooling output to the current level of heat loss in the enclosure</p> <p>Absorbed thermal energy is emitted directly into the ambient air at the location of the (inverter controlled) external unit , without heating up the installation room</p>
Applications	Cooling unit for VX IT server enclosures and for Micro Data Centers
Function principle	<p>Within the internal unit, the redundant versions each have two cooling circuits and two controllers, plus two inverter-controlled external units. The fault and operating hours switchover mechanism ensures regular switching between the external units and a switchover in the event of a fault or a failure.</p> <p>The device supports "front to back" air routing typical of IT applications, and regulates the server inlet temperature to the set value</p>
Material	Carbon steel, spray finished
Color	Internal unit: RAL 7035 External unit: white

Features

Supply includes	<p>Internal unit (condenser)</p> <p>2 external units (inverter controlled)</p> <p>482.6 mm (19") mounting bracket cover with control and display elements</p> <p>Condensate hose</p>
Installation options in VX	<p>19" profile rails, standard or dynamic, must be off-centered by 50 mm in regards to width</p> <p>The distance between the front of the 19" profile rails and the front edge of the VX frame must be at least 100 mm</p> <p>Two system chassis for the inner mounting level are required to fasten the internal unit</p> <p>Air baffle plates are required to separate the hot/cold zones within an enclosure</p> <p>A base/plinth is needed to route cables downwards</p>
Note	<p>If the cooling output falls below its minimum value, fluctuations in the air intake temperature may result</p> <p>The electrical connection is made to the external unit, the internal unit is supplied by the external unit</p> <p>A separate power supply is required for each external unit</p>
Protection category IP to IEC 60529	<p>Internal unit IP 20</p> <p>External unit IP X4</p>
Modulation range	3 - 6.5 kW
Max. cooling output	6.5 kW
Type of connection (electrical)	Connection clamp
Duty cycle	100 %
Operating temperature	The specified operating temperature applies to the external unit
Installation options in TS IT	<p>19" levels must be configured as profile rails and offset by 50 mm off-center in the width</p> <p>The distance between the front of the 19" profile rails and the front edge of the TS frame must be at least 100 mm</p> <p>Not suitable for combination with 19" mounting frame</p> <p>Two system chassis for the inner mounting level are required to fasten the internal unit</p> <p>An air baffle plate is required for TS IT to separate the hot and cold areas within an enclosure</p> <p>A base/plinth is needed to route cables downwards</p>

Features

Refrigerant/cooling medium	Refrigerant: R410A
Suitable for	Enclosure type: VX IT Width: = 800 mm Height: ≥ 1,800 mm Depth: ≥ 1,000 mm
Dimensions of the internal unit	Width: 105 mm Height: 1,550 mm Depth: 820 mm
Dimensions, external unit	Width: 845 mm Height: 700 mm Depth: 320 mm
Rated operating voltage	230 V, 1~, 50 Hz
Pre-fuse	20 A
Rated current	15.9 A
Packaging unit	1 pc(s).
Net weight	161 kg
Gross weight	171 kg
Customs tariff number	84158200
ETIM 9	EC000855
ETIM 8	EC000855
ECLASS 8.0	27180704
Product description	SK LCU DX split cooling unit, 22179 BTU/h, refrigerant-based cooling of IT racks and Micro Data Centers, 2 x external units with inverter-controlled compressors, 1 x internal unit, redundant version

Approvals

Explanations	Declaration of conformity
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