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SK 3488.945

Wall-mounted cooling unit Blue e+ Chemical

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ENCLOSURES

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



SK 3488.945 - Wall-mounted cooling unit Blue e+ Chemical 5459.43 - 18766.8 BTU/h

Energy-efficient wall-mounted Blue e+ chemical cooling units in the 5459.43 to 18766.78 BTU/h power classes. Thanks to a special paint finish on the components, they offer optimum protection for contaminated environments - especially in applications where sulfuric acid may be present as an aerosol in the air.

Features

Model No.	SK 3488.945
Version	wall-mounted chemical industry version
Benefits	An average of 75% energy savings due to speed-regulated components and heat pipe technology Suitable for international use due to its unique multi-voltage capability (without rewiring) and high operating limits Longer service life of the components inside the enclosure and the cooling unit due to component-friendly cooling Intuitive operation due to touch display and intelligent interfaces
Product changes	The cover for the connection box for protection for the electrical connection on the cooling unit has not been included in the delivery scope since the start of 2024. Cover 3355.200 and cover 3355.210 can be ordered as an optional accessory.
Applications	Applications where sulfuric acid can be present as an aerosol in the air (e.g. paper industry, food industry, chemical industry, electroplating, offshore sector)
Material	Carbon steel
Surface finish	Carbon steel parts and electronics spray-finished with clear lacquer Cooling circuit painted with 2-K PUR paint
Color	RAL 7035
Supply includes	Condenser with hydrophobic RiNano coating Integral electric condensate evaporation Assembly components Wired ready for connection (plug-in terminal strip)

Features

Options	For remote monitoring and networking of cooling units and chillers, use the Blue e+ Generation IoT Interface, item number 3124.300. Increase machine availability and process safety by remote monitoring of device data, condition, and system messages.
Total cooling output to DIN EN 14511	Cooling output L35 L35/50 Hz: 4 kW Cooling output L35 L35/60 Hz: 4 kW Cooling output L35 L50/50 Hz: 2.8 kW Cooling output L35 L50/60 Hz: 2.8 kW Cooling output L35 L35/50 Hz: 13,649 BTU/h Cooling output L35 L35/60 Hz: 13,649 BTU/h Cooling output L35 L50/50 Hz: 9,554 BTU/h Cooling output L35 L50/60 Hz: 9,554 BTU/h
Rated operating voltage	380 V - 480 V, 3~, 50 Hz/60 Hz
Note	Please observe the assembly instructions. When the software is downloaded, a contract is concluded between the contractual partner and Rittal for the free use of the software in accordance with these license conditions. Only for semi-outdoor use (see instructions for description)
Note on Model No.:	Tolerance: 380 V -10% (342 V) and 480 V +5% (509 V) Full internal mounting not possible
Rated output	1.45 kW
Air throughput (unimpeded air flow)	External circuit: 2,300 m ³ /h Internal circuit: 2,300 m ³ /h External circuit: 1,353.7 cfm Internal circuit: 1,353.7 cfm
Energy efficiency ratio (EER) 50/60 Hz L35 L35	Refrigeration factor L35 L35 (EER) 50 Hz: 3.08 Refrigeration factor L35 L35 (EER) 60 Hz: 3.08
Seasonal energy efficiency ratio (SEER) 50/60 Hz	6.4
Version	wall-mounted
Dimensions	Width: 450 mm Height: 1,600 mm Depth: 393 mm Width: 17.7 " Height: 63 " Depth: 15.5 "

Features

Required mounting cut-out	Width of opening: 433 mm Cut-out height: 1,579 mm Width of opening: 17 " Cut-out height: 62.2 "
Protection category IP to EN 60529	Internal circuit IP 55
Refrigerant/cooling medium	Refrigerant: R-1234yf Quantity: 1.76 kg Refrigerant quantity in compression system: 1.04 kg Refrigerant quantity in heat pipe system: 0.72 kg Global Warming Potential (GWP): 0.5 CO2 equivalent (CO2e): 0 t Refrigerant: R-1234yf Quantity: 3.9 lb.
Temperature control	e+ controller (factory setting +35 °C)
Operating temperature range	-20 °C...60 °C -4 °F...140 °F
Storage temperature range	-40 °C...70 °C -40 °F...158 °F
Operating temperature range of refrigerant circuit (active)	3 °C...60 °C
Operating temperature range of heat pipe	-20 °C...45 °C
Setting range	20 °C...50 °C 68 °F...122 °F
Rated power Pel	Rated power L35 L35/50 Hz: 1.3 kW Rated power L35 L35/60 Hz: 1.3 kW Rated power L35 L50/50 Hz: 1.25 kW Rated power L35 L50/60 Hz: 1.25 kW
Permissible operating pressure (p. max.)	24 bar 348.1 PSI
Packaging unit	1 pc(s).
Net weight	85 kg
Gross weight	90 kg

Features

PCF/VE (cradle-to-gate)	294.06 kg CO2 eq (Cat B)
Information regarding the PCF class	Category B: PCF value (cradle-to-gate) calculated approximately on the basis of the product weight and self-declared
Customs tariff number	84158200
Product description	SK Blue e+ cooling unit, chemical industry design, wall-mounted, 4.0 kW, 380-480 V, 3~, 50-60 Hz, carbon steel, WxHxD: 450 x 1600 x 393 mm

Approvals

Explanations	Declaration of conformity Declaration of conformity - F-gas regulation PCF-declaration
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