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SK 3189.945

Wall-mounted cooling unit Blue e+ chemical

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SK 3189.945 - Wall-mounted cooling unit Blue e+ chemical 1.6 - 5.5 kW

Energy-efficient Blue e+ wall-mounted chemical industry cooling units in output classes ranging from 1600 W to 5500 W. Thanks to a special surface finish, these units provide components with optimum protection in contaminated environments – especially in applications where the air may contain sulphuric acid aerosols.

Features

Model No.	SK 3189.945
Design	wall-mounted chemical
Benefits	Average 75% energy savings thanks to speed-regulated components and heat pipe technology Suitable for international use thanks 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 modification	The cover for the connection box to protect the electrical connection to the cooling unit has not been included with the supply since the start of 2024. Covers 3355.200 and 3355.210 can be ordered as optional accessories.
Applications	Applications where the air may contain sulphuric acid aerosols (e.g. paper industry, food industry, chemical industry, electroplating and offshore operations)
Material	Sheet steel
Surface finish	Sheet metal parts and electronics: Clear varnish coating Cooling circuit with two-component PUR coating
Colour	RAL 7035
Supply includes	Condenser with hydrophobic RiNano coating Integral electric condensate evaporation Assembly parts Fully wired ready for connection (plug-in terminal strip)

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Features

Options	For remote monitoring and networking of cooling units and chillers in the Blue e+ generation, please use the IoT interface (Model No. 3124.300). Increase machine availability and process reliability with remote monitoring of device data, statuses and system messages.
Total cooling output to DIN EN 14511	Cooling output L35 L35/50 Hz: 5.5 kW Cooling output L35 L35/60 Hz: 5.5 kW Cooling output L35 L50/50 Hz: 3.95 kW Cooling output L35 L50/60 Hz: 3.95 kW
Rated operating voltage	380 V - 480 V, 3~, 50 Hz/60 Hz
Note	By downloading the software, a contract is concluded between the contractual partner and Rittal for the free use of the software in accordance with these licence conditions. Only suitable for use in semi-outdoor areas (see instructions for description) To protect the Blue e+ cooling units, a suitable overvoltage protection must be provided: - Operating voltage < 460 V (3~): Uc 275 V, Imax 40 kA, In 20 kA, Up 1.5 kV. - Operating voltage > 460 V (3~): Uc 385 V, Imax 40 kA, In 20 kA, Up 1.5 kV.
Note on Model No.	Tolerance: 380 V -10% (342 V) and 480 V +6% (509 V) Full installation not possible
Rated power input	2.35 kW
Air throughput (unimpeded air flow)	External circuit: 2,300 m³/h Internal circuit: 2,300 m³/h
Energy efficiency ratio (EER) 50/60 Hz L35 L35	Refrigeration factor L35 L35 (EER) 50 Hz: 2.5 Refrigeration factor L35 L35 (EER) 60 Hz: 2.5
Seasonal energy efficiency ratio (SEER) 50/60 Hz	5.6
Design	wall-mounted
Dimensions	Width: 450 mm Height: 1,600 mm Depth: 393 mm
Required mounting cut-out	Cut-out width: 433 mm Cut-out height: 1,579 mm

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Features

Protection category to IEC 60 529	Internal circuit IP 55
Refrigerant/cooling medium	Refrigerant: R-513A Quantity: 1.8 kg Global Warming Potential (GWP): 631 CO2 equivalent (CO2e): 1.14 t
Temperature control	e+ controller (factory setting +35 °C)
Operating temperature range	-20 °C...60 °C
Storage temperature range	-40 °C...70 °C
Operating temperature range of refrigerant circuit (active)	3 °C...60 °C
Heat pipe operating temperature range	-20 °C...45 °C
Setting range	20 °C...50 °C
Power consumption Pel	Power consumption L35 L35/50 Hz: 2.2 kW Power consumption L35 L35/60 Hz: 2.2 kW Power consumption L35 L50/50 Hz: 2.2 kW Power consumption L35 L50/60 Hz: 2.2 kW
Permissible operating pressure (p. max.)	24 bar
Packs of	1 pc(s).
Net weight	72.4 kg
Gross weight	90 kg
PCF per pack (cradle-to-gate)	1,161.39
CRA risk class	Default (Low Risk)
Customs tariff number	84158200
Product description	SK Cooling unit Blue e+ chemical industry design, wall-mounted, 5.5 kW, 380-480 V, 3~, 50-60 Hz, sheet steel, WHD: 450 x 1600 x 393 mm

Approvals

Approvals	IEC CB 30 - KC Korea
Explanations	Declaration of conformity Declaration of conformity - F-gas regulation Declaration of conformity UK PCF-declaration

Tender text

Energy-efficient Blue e+ wall-mounted chemical industry cooling units
Thanks to a special surface finish, these units provide components with optimum protection in contaminated environments – especially in applications where the air may contain sulphuric acid aerosols.
Benefits :
Average 75% energy savings thanks to speed-regulated components and heat pipe technology. Suitable for international use thanks to its unique multi-voltage capability (without rewiring) and high operating limit. 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
Cooling output L35 L35/50 Hz: 5.5 kW
Cooling output L35 L35/60 Hz: 5.5 kW
Cooling output L35 L50/50 Hz: 3.95 kW
Cooling output L35 L50/60 Hz: 3.95 kW
380 V - 480 V, 3~, 50 Hz/60 Hz
Temperature control: e+ controller (factory setting +35 °C)
Dimensions [WxHxD]: 400 x 1600 x 393 mm
Required mounting cut-out [Wx H] : 433 x 1579 mm
Material : Sheet steel
Surface finish : Sheet metal parts and electronics: Clear varnish coating Cooling circuit with two-component PUR coating
Colour : RAL 7035
Refrigeration factor L35 L35 (EER) 50/ 60 Hz: 2.05
Refrigerant / Quantity:Refrigerant: R-513A, Quantity: 1.8 kg
Operating temperature range -20 °C...60 °C
Storage temperature range -40 °C...70 °C
Heat pipe operating temperature range -20 °C...45 °C
Setting range 20 °C...50 °C
Protection category IP to IEC 60 529 :
Internal circuit IP 55
Weight: 72.4 kg

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