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SK 3186.937

Wall-mounted cooling unit Blue e+ Dynamic

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FRIEDHELM LOH GROUP

SK 3186.937 - Wall-mounted cooling unit Blue e+ Dynamic 1.0 kW – 2.6 kW

The Blue e+ Dynamic series of cooling units is designed specifically for use in dynamic applications. The devices are tested to DNV-CG-0339 and are therefore ideal for use on board ships (e.g. enclosures in the engine room). Their exceptionally stable mechanical design makes these cooling units suitable for any application that creates high vibration levels on the device, such as applications in ports (cranes), logistics (storage and retrieval systems) and airports (baggage handling systems).

Features

Model No.	SK 3186.937
Design	wall-mounted Dynamic
Benefits	More efficiency: Exceptional seasonal energy efficiency ratio (SEER) > 6.2 More flexibility: Suitable for versatile use in dynamic applications without expensive infrastructure measures. Easily retro-fitted too. Enhanced reliability: Maximum reliability, less maintenance-intensive and ready to use at short notice Added simplicity: Effortless planning, operation and installation
Applications	For maritime and dynamic applications
Material	Sheet steel
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)
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.

Features

Total cooling output to DIN EN 14511	Cooling output L35 L35/50 Hz: 2 kW Cooling output L35 L35/60 Hz: 2 kW Cooling output L35 L50/50 Hz: 1.29 kW Cooling output L35 L50/60 Hz: 1.29 kW
Rated operating voltage	110 V - 240 V, 1~, 50 Hz/60 Hz 380 V - 480 V, 3~, 50 Hz/60 Hz
Note	To comply with EMC specifications as set out in DNV-CG-0339, one additional line reactor (SK 3124.010) per phase must be installed in the mains infeed to the cooling unit. This line reactor only supports operation with 220-240 V, 1~, 380-440 V, 3~, 50/60Hz. The cooling unit SK 3187.937 may only be used in three-phase mode. 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. 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. Tolerance: 110 V -10% (99 V) and 240 V +10% (264 V) / 380 V -10% (342 V) and 480 V +6% (509 V)
Hint Construction	Partial installation not supported
Rated power input	0.73 kW
Air throughput (unimpeded air flow)	External circuit: 1,250 m³/h Internal circuit: 1,250 m³/h
Energy efficiency ratio (EER) 50/60 Hz L35 L35	Refrigeration factor L35 L35 (EER) 50 Hz: 3.23 Refrigeration factor L35 L35 (EER) 60 Hz: 3.23
Seasonal energy efficiency ratio (SEER) 50/60 Hz	7.6
Dimensions	Width: 450 mm Height: 1,600 mm Depth: 294 mm
Required mounting cut-out	Cut-out width: 433 mm Cut-out height: 1,579 mm
Protection category to IEC 60 529	Internal circuit IP 55

Features

Refrigerant/cooling medium	Refrigerant: R-513A Quantity: 1.07 kg Global Warming Potential (GWP): 631 CO2 equivalent (CO2e): 0.67 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: 0.62 kW Power consumption L35 L35/60 Hz: 0.62 kW Power consumption L35 L50/50 Hz: 0.6 kW Power consumption L35 L50/60 Hz: 0.6 kW
Permissible operating pressure (p. max.)	24 bar
Packs of	1 pc(s).
Net weight	55.2 kg
Gross weight	72.5 kg
PCF per pack (cradle-to-gate)	889.79
CRA risk class	Default (Low Risk)
Customs tariff number	84158200
Product description	SK Cooling unit Blue e+, wall-mounted, 2.0 kW, 110-240 V, 1~, 380-480 V, 3~, 50-60 Hz, sheet steel, WHD: 450 x 1600 x 294 mm

Approvals

Approvals

Approvals	DNV 30 - KC Korea
Explanations	Declaration of conformity Declaration of conformity - F-gas regulation PCF-declaration

Tender text

The Blue e+ Dynamic series of cooling units is designed specifically for use in dynamic applications. The devices are tested to DNV-CG-0339 and are therefore ideal for use on board ships (e.g. enclosures in the engine room). Their exceptionally stable mechanical design makes these cooling units suitable for any application that creates high vibration levels on the device, such as applications in ports (cranes), logistics (storage and retrieval systems) and airports (baggage handling systems).
Benefits :
More efficiency: SEER > 6.2
More flexibility: Suitable for versatile use in dynamic applications without expensive infrastructure measures. Easily retro-fitted too.
Enhanced reliability: Maximum reliability, less maintenance-intensive and ready to use at short notice
Added simplicity: Effortless planning, operation and installation
Cooling output L35 L35/50 Hz: 2 kW
Cooling output L35 L35/60 Hz: 2 kW
Cooling output L35 L50/50 Hz: 1.29 kW
Cooling output L35 L50/60 Hz: 1.29 kW
110 V - 240 V, 1~, 50 Hz/60 Hz
380 V - 480 V, 3~, 50 Hz/60 Hz
Temperature control: e+ controller (factory setting +35 °C)
Dimensions [WxHxD]: 400 x 1600 x 294 mm
Required mounting cut-out [Wx H] : 433 x 1579 mm
Material : Sheet steel
Colour : RAL 7035
Refrigeration factor L35 L35 (EER) 50/ 60 Hz: 3.23
Refrigerant / Quantity:Refrigerant: R-513A, Quantity: 1.07 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: 55.2 kg
Supply includes : Integral electric condensate evaporation