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## SK 3334.450 Chillers Blue e+

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# SK 3334.450 - Chillers Blue e+ 1,5 - 7 kW

Blue e+ chillers are efficient, flexible and compact. They offer central, cost-effective chilling of the cooling water and are used to supply air/water heat exchangers etc. Up to 70% energy savings thanks to speed-controlled components and inverter technology. International approvals and multi-voltage capability for worldwide use. Intuitive operation via touch display and intelligent communications interfaces ensure user-friendly operation and analysis.

## Features

Model No.	SK 3334.450
Benefits	<p>Blue e+ chillers ensure centralised and efficient cooling of liquid media with a high level of temperature accuracy and innovative DC inverter technology</p> <p>Suitable for international use thanks to its unique multi-voltage capability (without rewiring) and high operating limits</p> <p>Maximum reliability thanks to integral overflow valve and monitoring sensors</p> <p>Intuitive operation due to touch display and intelligent interfaces</p> <p>Compact and modular layout ensures minimum footprint</p> <p>Pumps with highly efficient IE3 motors</p>
Colour	Textured RAL 7035
Supply includes	<p>Complete unit ready for connection (plug-in terminal strip)</p> <p>Multilingual documentation</p>
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.
Protection category to IEC 60 529	<p>IP 24</p> <p>IP 54 (electrics)</p>
Total cooling output to DIN EN 14511 Tw18 / Tu35	<p>Cooling output Tw18 Tu35/50 Hz: 7 kW</p> <p>Cooling output Tw18 Tu35/60 Hz: 6.9 kW</p>
Rated operating voltage	<p>380 V - 415 V, 3~, 50 Hz</p> <p>440 V - 480 V, 3~, 60 Hz</p>

# Features

Dimensions	Width: 450 mm Height: 1,020 mm Depth: 710 mm
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.
Temperature control	e+ controller (factory setting +20 °C)
Operating temperature range	-5 °C...50 °C
Storage temperature range	-40 °C...70 °C
Operating temperature range of cooling medium	5 °C...35 °C
Temperature hysteresis	± 0.5 K
Refrigerant/cooling medium	Refrigerant: R-513A Quantity: 1.5 kg Global Warming Potential (GWP): 631 CO <sub>2</sub> equivalent (CO <sub>2</sub> e): 0.95 t
Volumetric flow (cooling medium)	At 50 Hz: 20 l/min
Power consumption Pel	At 50 Hz: 2.84 kW At 60 Hz: 3.07 kW
Rated current max.	At 50 Hz: 4.28 A At 60 Hz: 4.1 A
Pre-fuse	Miniature circuit-breaker/fuse: 16 A
Energy efficiency ratio (EER) 50 Hz Tw18/Tu35 DIN EN 14511	2.77
Water circuit	hermetically open
Water connections	¾" internal thread
Number of cooling circuits	1
Tank	Material: PE plastic Volume: 12 l
Operating weight	120 kg
Packs of	1 pc(s).

# Features

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Net weight	107 kg
Gross weight	117 kg
Customs tariff number	84186900
ETIM 9	EC002516
ECLASS 8.0	27180713
Product description	Blue e+ chiller 7.0 kW, 380-415 V / 440-480 V, 3~, 50/60 Hz, WHD:450x1020x710 mm

# Approvals

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Approvals	IEC CB UL + C-UL (listed)
Explanations	Attestation of Conformity Declaration of conformity - F-gas regulation

# Tender text

SK Blue e+ Chiller,,

Blue e+ chillers ensure centralised and efficient cooling of liquid media with a high level of temperature accuracy and innovative DC inverter technology,,

Suitable for international use thanks to its unique multi-voltage capability (without rewiring) and high operating limits,,

Maximum reliability thanks to integral overflow valve and monitoring sensors,,

Intuitive operation due to touch display and intelligent interfaces,,

Compact and modular layout ensures minimum footprint,,

Pumps with highly efficient IE3 motors,,

”  
Total cooling output TW18 TU35, 50/60 Hz: 7,0 / 6,9 kW,,

”  
Power consumption 50/60 Hz: 2,84 / 3,07 kW,,

”  
Volumetric flow (cooling medium) 50/60 Hz: 20 l/min,,

”  
Pump pressure (max.) at 50 Hz: 2,9 bar,,

”  
Rated current 50/60 Hz: 4,28 / 4,1 A,,

”  
Rated operating voltage: 380-415 V, 3~, 50 Hz; 440-480 V, 3~, 60 Hz,,

”  
Temperature control: e+ controller (factory setting +20 °C) ,,

”  
Dimensions [WxHxD]: 450x1000x710 mm,,

”  
Colour: textured RAL 7035,,

”  
Tank (Material): PE plastic,,

Tank (contents): 12 l,,

”  
Refrigerant / Quantity: R-513A / 1500 g,,

”  
Number of cooling circuits: 1,,

”  
Temperature hysteresis: +/- 0,5 K,,

”

Water connections: 2x 3/4" IG,,

Water circuit: hermetically open ,,

”

Operating temperature range: -5 °C bis 50 °C,,

Liquid media temperature range: 5 °C bis 35 °C,,

”

Protection category IP to IEC 60 529: IP 24,,

”

Weight: 105 kg,,

”

Note: 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.