



# SK 3334.450

## Chillers Blue e+

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ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

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   | Blue e+ chillers ensure centralised and efficient cooling of liquid media with a high level of temperature accuracy and innovative DC inverter technology<br>Suitable for international use thanks to its unique multi-voltage capability (without rewiring) and high operating limits<br>Maximum reliability thanks to integral overflow valve and monitoring sensors<br>Intuitive operation due to touch display and intelligent interfaces<br>Compact and modular layout ensures minimum footprint<br>Pumps with highly efficient IE3 motors |
| Colour   | Textured RAL 7035   |
| Supply includes                                  | Complete unit ready for connection (plug-in terminal strip)<br>Multilingual documentation   |
| 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                | IP 24<br>IP 54 (electrics)  |
| Total cooling output to DIN EN 14511 Tw18 / Tu35 | Cooling output Tw18 Tu35/50 Hz: 7 kW<br>Cooling output Tw18 Tu35/60 Hz: 6.9 kW  |
| Rated operating voltage                          | 380 V - 415 V, 3~, 50 Hz<br>440 V - 480 V, 3~, 60 Hz  |

# Features

|   |   |
|---|---|
| Dimensions  | Width: 450 mm<br>Height: 1,020 mm<br>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<br>Quantity: 1.5 kg<br>Global Warming Potential (GWP): 631<br>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<br>At 60 Hz: 3.07 kW  |
| Rated current max.  | At 50 Hz: 4.28 A<br>At 60 Hz: 4.1 A   |
| Pre-fuse  | Miniature circuit-breaker/fuse: 16 A  |
| Energy efficiency ratio (EER) 50 Hz<br>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<br>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,<br>WHD:450x1020x710 mm |

# Approvals

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|              |   |
|--------------|---|
| Approvals    | IEC CB<br>UL + C-UL (listed)  |
| Explanations | Attestation of Conformity<br>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,,

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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.