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SK 3334.400 Chillers Blue e+

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



SK 3334.400 - 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 3334.400 |
| 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 Tw10 / Tu32 | <p>Cooling output Tw10 Tu32/50 Hz: 4.33 kW</p> <p>Cooling output Tw10 Tu32/60 Hz: 4.23 kW</p> |
| Total cooling output Tw18 / Tu32 | <p>Cooling output Tw18 Tu32/50 Hz: 5.72 kW</p> <p>Cooling output Tw18 Tu32/60 Hz: 5.62 kW</p> |
| Total cooling output to DIN EN 14511 Tw18 / Tu35 | <p>Cooling output Tw18 Tu35/50 Hz: 5.5 kW</p> <p>Cooling output Tw18 Tu35/60 Hz: 5.4 kW</p> |

Features

| | |
|---|---|
| Air throughput (unimpeded air flow) | At 50 Hz: 1,850 m ³ /h At 60 Hz: 1,850 m ³ /h |
| Rated operating voltage | 380 V - 415 V, 3~, 50 Hz 440 V - 480 V, 3~, 60 Hz |
| 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: 1.2 kg Global Warming Potential (GWP): 631 CO ₂ equivalent (CO ₂ e): 0.76 t |
| Pump pressure | At 50 Hz: 2.9 bar |
| Volumetric flow (cooling medium) | At 50 Hz: 15 l/min |
| Power consumption Pel | At 50 Hz: 2.63 kW At 60 Hz: 2.9 kW |
| Rated current max. | At 50 Hz: 4 A At 60 Hz: 3.8 A |
| Pre-fuse | Miniature circuit-breaker/fuse: 15 A |
| Energy efficiency ratio (EER) 50 Hz Tw18/Tu35 DIN EN 14511 | 2.16 |
| Water circuit | Open |
| Water connections | ¾" internal thread |

Features

| | |
|----------------------------|---|
| Number of cooling circuits | 1 |
| Tank | Material: PE plastic Volume: 12 l |
| Packs of | 1 pc(s). |
| Net weight | 96 kg |
| Gross weight | 115 kg |
| Customs tariff number | 84186900 |
| ETIM 9 | EC002516 |
| ETIM 8 | EC002516 |
| ECLASS 8.0 | 27180713 |
| Product description | SK Chiller Blue e+, 5.5 kW, 380-415 V, 440-480 V, 3~, 50/60 Hz, WHD: 450 x 1020 x 710 mm |

Approvals

| | |
|--------------|---|
| Approvals | IEC CB UL + C-UL (listed) |
| Explanations | Declaration 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: 5,5 / 5,4 kW,,

”
Power consumption 50/60 Hz: 2,63 / 2,9 kW,,

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Volumetric flow (cooling medium) 50/60 Hz: 15 l/min,,

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

”
Rated current 50/60 Hz: 4,0 / 3,8 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 / 1200 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: 100 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.