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## SK 3334.440 Hybrid IT Blue e+ chiller

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FRIEDHELM LOH GROUP



# SK 3334.440 - Hybrid IT Blue e+ chiller

The Blue e+ hybrid IT chiller combines cooling via the cooling circuit with an integral free cooler to boost energy efficiency when operated during the cooler seasons. Pumps with high-efficiency IE3 motors are also used. An aluminium enclosure with outdoor spray-finishing is suitable for outdoor siting without the need for an additional canopy.

## Features

|  |   |
|--|---|
| Model No.  | SK 3334.440   |
| Design   | Outdoor   |
| Benefits   | Integral free cooler helps to boost energy efficiency<br>Constant, precise cooling with a temperature accuracy of $\pm 0.5$ K<br>Suitable for outdoor siting: Optimum weather protection with UV-resistant spray finish and protected touch display<br>Wide operating temperature range from $-20$ °C to $45$ °C<br>Suitable for international use thanks to its unique multi-voltage capability (without rewiring) and high operating limits<br>Integral heater for pre-heating the medium |
| Material   | Aluminium AlMg3   |
| Surface finish                                   | UV-resistant  |
| 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: 5 kW<br>Cooling output Tw18 Tu35/60 Hz: 4.8 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                             |
| Temperature control                           | e+ controller (factory setting +20 °C)   |
| Operating temperature range                   | -20 °C...45 °C   |
| Operating temperature range of cooling medium | 10 °C...35 °C  |
| Refrigerant/cooling medium                    | Refrigerant: R-513A<br>Quantity: 1.2 kg<br>Global Warming Potential (GWP): 631 |
| Pump pressure                                 | At 50 Hz: 2.9 bar  |
| Volumetric flow (cooling medium)              | At 50 Hz: 14 l/min<br>At 60 Hz: 14 l/min                                       |
| Power consumption Pel                         | At 50 Hz: 2.55 kW<br>At 60 Hz: 2.73 kW   |
| Rated current max.                            | At 50 Hz: 4.04 A<br>At 60 Hz: 3.78 A   |
| Pre-fuse                                      | Miniature circuit-breaker/fuse: 16 A   |
| Water circuit                                 | Pressure-sealed  |
| Water connections                             | ¾" internal thread   |
| Number of cooling circuits                    | 1  |
| Operating weight                              | 115 kg   |
| Packs of                                      | 1 pc(s).   |
| Net weight                                    | 104  |
| Gross weight                                  | 114  |
| Customs tariff number                         | 84186900   |
| ETIM 9  | EC002516   |

# Approvals

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Explanations

Declaration of conformity

# Tender text

The Blue e+ Hybrid IT Chiller combines cooling via a refrigeration cycle with a directly integrated free cooler, thereby increasing energy efficiency during operation in cold seasons.

In addition, pumps with highly efficient IE3 motors are used.

Thanks to its aluminum housing with outdoor paint finish, the unit is suitable for outdoor installation without additional roofing.

Centralized and efficient cooling of liquid media with high temperature accuracy is achieved through innovative DC inverter technology, and worldwide use is made possible by unique multi-voltage capability (without rewiring).

Maximum safety is ensured by an integrated overflow valve and monitoring sensors, while intuitive operation is achieved through a touch display and intelligent interfaces.

A compact and modular design ensures minimal floor space.

Cooling capacity TW18 TU35, 50/60 Hz: 5 / 4.8 kW

Rated power 50/60 Hz: 2.55 / 2.73 kW

Cooling medium flow rate 50/60 Hz: 14 l/min

Pump pressure (max.) at 50 Hz: 2.9 bar

Rated current 50/60 Hz: 4.04 / 3.78 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]: 450x1020x710 mm

Color: aluminum with outdoor paint finish, RAL 7035

Expansion vessel (material): steel

Expansion vessel (capacity): 5 l

Refrigerant type/quantity: R-513A/1200 g

Number of refrigeration circuits: 1

Temperature hysteresis: +/- 0.5 K

Water connections: 2x 3/4" female thread

Water circuit: Pressure-tight

Operating temperature: -20 °C to 45 °C

Liquid media temperature: 10 °C to 35 °C

Protection class IP according to IEC 60529: IP 24

Weight: 105 kg

## Note:

For remote monitoring and networking of cooling units and chillers of the Blue e+ generation, use the IoT interface with item number 3124.300. Increase machine availability and

process reliability through remote monitoring of device data, statuses and system messages.