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## SK 3187.935

# Wall-mounted cooling unit Blue e+ Chemical

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# SK 3187.935 - Wall-mounted cooling unit Blue e+ Chemical 5459.43 - 18766.8 BTU/h

Energy-efficient wall-mounted Blue e+ chemical cooling units in the 5459.43 to 18766.78 BTU/h power classes. Thanks to a special paint finish on the components, they offer optimum protection for contaminated environments - especially in applications where sulfuric acid may be present as an aerosol in the air.

## Features

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model No.       | SK 3187.935                                                                                                                                                                                                                                                                                                                                                                                                       |
| Version         | wall-mounted<br>chemical industry version                                                                                                                                                                                                                                                                                                                                                                         |
| Benefits        | An average of 75% energy savings due to speed-regulated components and heat pipe technology<br>Suitable for international use due to its unique multi-voltage capability (without rewiring) and high operating limits<br>Longer service life of the components inside the enclosure and the cooling unit due to component-friendly cooling<br>Intuitive operation due to touch display and intelligent interfaces |
| Product changes | The cover for the connection box for protection for the electrical connection on the cooling unit has not been included in the delivery scope since the start of 2024. Cover 3355.200 and cover 3355.210 can be ordered as an optional accessory.                                                                                                                                                                 |
| Applications    | Applications where sulfuric acid can be present as an aerosol in the air (e.g. paper industry, food industry, chemical industry, electroplating, offshore sector)                                                                                                                                                                                                                                                 |
| Material        | Carbon steel                                                                                                                                                                                                                                                                                                                                                                                                      |
| Surface finish  | Carbon steel parts and electronics spray-finished with clear lacquer<br>Cooling circuit painted with 2-K PUR paint                                                                                                                                                                                                                                                                                                |
| Color           | RAL 7035                                                                                                                                                                                                                                                                                                                                                                                                          |
| Supply includes | Condenser with hydrophobic RiNano coating<br>Integral electric condensate evaporation<br>Assembly components<br>Wired ready for connection (plug-in terminal strip)                                                                                                                                                                                                                                               |

# Features

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|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Options                                          | For remote monitoring and networking of cooling units and chillers, use the Blue e+ Generation IoT Interface, item number 3124.300. Increase machine availability and process safety by remote monitoring of device data, condition, and system messages.                                      |
| Total cooling output to DIN EN 14511             | Cooling output L35 L35/50 Hz: 2.6 kW<br>Cooling output L35 L35/60 Hz: 2.6 kW<br>Cooling output L35 L50/50 Hz: 1.7 kW<br>Cooling output L35 L50/60 Hz: 1.7 kW                                                                                                                                   |
| Rated operating voltage                          | 110 V - 240 V, 1~, 50 Hz/60 Hz<br>380 V - 480 V, 3~, 50 Hz/60 Hz                                                                                                                                                                                                                               |
| Note                                             | Please observe the assembly instructions.<br>When the software is downloaded, a contract is concluded between the contractual partner and Rittal for the free use of the software in accordance with these license conditions.<br>Only for semi-outdoor use (see instructions for description) |
| Note on Model No.:                               | Tolerance: 110 V -10% (99 V) and 240 V +10% (264 V) / 380 V -10% (342 V) and 480 V +6% (509 V)                                                                                                                                                                                                 |
| Rated output                                     | 1.05 kW                                                                                                                                                                                                                                                                                        |
| Air throughput (unimpeded air flow)              | External circuit: 1,250 m <sup>3</sup> /h<br>Internal circuit: 1,250 m <sup>3</sup> /h                                                                                                                                                                                                         |
| Energy efficiency ratio (EER) 50/60 Hz L35 L35   | Refrigeration factor L35 L35 (EER) 50 Hz: 2.63<br>Refrigeration factor L35 L35 (EER) 60 Hz: 2.63                                                                                                                                                                                               |
| Seasonal energy efficiency ratio (SEER) 50/60 Hz | 6.2                                                                                                                                                                                                                                                                                            |
| Version                                          | wall-mounted                                                                                                                                                                                                                                                                                   |
| Dimensions                                       | Width: 450 mm<br>Height: 1,600 mm<br>Depth: 294 mm                                                                                                                                                                                                                                             |
| Required mounting cut-out                        | Width of opening: 433 mm<br>Cut-out height: 1,579 mm                                                                                                                                                                                                                                           |
| Protection category IP to EN 60 529              | Internal circuit IP 55                                                                                                                                                                                                                                                                         |

# Features

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|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Refrigerant/cooling medium                                  | Refrigerant: R-513A<br>Quantity: 1.07 kg<br>Global Warming Potential (GWP): 631<br>CO2 equivalent (CO2e): 0.68 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                                                                                                                                         |
| Operating temperature range of heat pipe                    | -20 °C...45 °C                                                                                                                                       |
| Setting range                                               | 20 °C...50 °C                                                                                                                                        |
| Rated power Pel                                             | Rated power L35 L35/50 Hz: 0.99 kW<br>Rated power L35 L35/60 Hz: 0.99 kW<br>Rated power L35 L50/50 Hz: 0.94 kW<br>Rated power L35 L50/60 Hz: 0.94 kW |
| Permissible operating pressure (p. max.)                    | 24 bar                                                                                                                                               |
| Packaging unit                                              | 1 pc(s).                                                                                                                                             |
| Net weight                                                  | 65 kg                                                                                                                                                |
| Gross weight                                                | 70 kg                                                                                                                                                |
| Customs tariff number                                       | 84158200                                                                                                                                             |
| Product description                                         | SK Cooling unit Blue e+ chemical, wall-mounted, 8872 BTU/h<br>110-240 V, 1~, 380-480 V, 3~, 50-60 Hz, carbon steel, WHD: 450 x<br>1600 x 294 mm      |

# Approvals

|           |                         |
|-----------|-------------------------|
| Approvals | IEC CB<br>30 - KC Korea |
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# Approvals

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Explanations

Declaration of conformity

Declaration of conformity - F-gas regulation

Declaration of conformity UK

PCF-declaration