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# SK 3186.935

# Wall-mounted cooling unit Blue e+ chemical

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# SK 3186.935 - Wall-mounted cooling unit Blue e+ chemical 1.6 - 5.5 kW

Energy-efficient Blue e+ wall-mounted chemical industry cooling units in output classes ranging from 1600 W to 5500 W. Thanks to a special surface finish, these units provide components with optimum protection in contaminated environments – especially in applications where the air may contain sulphuric acid aerosols.

## Features

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| Model No. | SK 3186.935 |
| Design | wall-mounted<br>chemical |
| Benefits | Average 75% energy savings thanks to speed-regulated components and heat pipe technology<br>Suitable for international use thanks 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 modification | The cover for the connection box to protect the electrical connection to the cooling unit has not been included with the supply since the start of 2024. Covers 3355.200 and 3355.210 can be ordered as optional accessories. |
| Applications | Applications where the air may contain sulphuric acid aerosols (e.g. paper industry, food industry, chemical industry, electroplating and offshore operations) |
| Material | Sheet steel |
| Surface finish | Sheet metal parts and electronics: Clear varnish coating<br>Cooling circuit with two-component PUR coating |
| Colour | RAL 7035 |
| Supply includes | Condenser with hydrophobic RiNano coating<br>Integral electric condensate evaporation<br>Assembly parts<br>Fully wired ready for connection (plug-in terminal strip) |

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# Features

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| 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. |
| Total cooling output to DIN EN 14511 | Cooling output L35 L35/50 Hz: 2 kW<br>Cooling output L35 L35/60 Hz: 2 kW<br>Cooling output L35 L50/50 Hz: 1.29 kW<br>Cooling output L35 L50/60 Hz: 1.29 kW |
| Rated operating voltage | 110 V - 240 V, 1~, 50 Hz/60 Hz<br>380 V - 480 V, 3~, 50 Hz/60 Hz |
| 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.<br>Only suitable for use in semi-outdoor areas (see instructions for description)<br>To protect the Blue e+ cooling units, a suitable overvoltage protection must be provided:<br>- Operating voltage < 460 V (3~): Uc 275 V, Imax 40 kA, In 20 kA, Up 1.5 kV.<br>- Operating voltage > 460 V (3~): Uc 385 V, Imax 40 kA, In 20 kA, Up 1.5 kV. |
| 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 power input | 0.73 kW |
| Air throughput (unimpeded air flow) | External circuit: 1,250 m³/h<br>Internal circuit: 1,250 m³/h |
| Energy efficiency ratio (EER) 50/60 Hz L35 L35 | Refrigeration factor L35 L35 (EER) 50 Hz: 3.23<br>Refrigeration factor L35 L35 (EER) 60 Hz: 3.23 |
| Seasonal energy efficiency ratio (SEER) 50/60 Hz | 7.6 |
| Design | wall-mounted |
| Dimensions | Width: 450 mm<br>Height: 1,600 mm<br>Depth: 294 mm |

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# Features

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| Required mounting cut-out | Cut-out width: 433 mm<br>Cut-out height: 1,579 mm |
| Protection category to IEC 60 529 | Internal circuit IP 55 |
| 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 |
| Heat pipe operating temperature range | -20 °C...45 °C |
| Setting range | 20 °C...50 °C |
| Power consumption Pel | Power consumption L35 L35/50 Hz: 0.62 kW<br>Power consumption L35 L35/60 Hz: 0.62 kW<br>Power consumption L35 L50/50 Hz: 0.6 kW<br>Power consumption L35 L50/60 Hz: 0.6 kW |
| Permissible operating pressure (p. max.) | 24 bar |
| Packs of | 1 pc(s). |
| Net weight | 55.2 kg |
| Gross weight | 73.8 kg |
| PCF per pack (cradle-to-gate) | 891.07 |
| CRA risk class | Default (Low Risk) |
| Customs tariff number | 84158200 |
| Product description | SK Cooling unit Blue e+ chemical, wall-mounted, 2 kW, 110-240 V, 1~, 380-480 V, 3~, 50-60 Hz, sheet steel, WHD: 450 x 1600 x 294 mm |

# Approvals

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| Approvals | IEC CB<br>30 - KC Korea |
| Explanations | Declaration of conformity<br>Declaration of conformity - F-gas regulation<br>Declaration of conformity UK<br>PCF-declaration |

# Tender text

Energy-efficient Blue e+ wall-mounted chemical industry cooling units
Thanks to a special surface finish, these units provide components with optimum protection in contaminated environments – especially in applications where the air may contain sulphuric acid aerosols.
Benefits :
Average 75% energy savings thanks to speed-regulated components and heat pipe technology. Suitable for international use thanks to its unique multi-voltage capability (without rewiring) and high operating limit. Longer service life of the components inside the enclosure and the cooling unit due to component-friendly cooling
Intuitive operation due to touch display and intelligent interfaces
Cooling output L35 L35/50 Hz: 2 kW
Cooling output L35 L35/60 Hz: 2 kW
Cooling output L35 L50/50 Hz: 1.29 kW
Cooling output L35 L50/60 Hz: 1.29 kW
110 V - 240 V, 1~, 50 Hz/60 Hz
380 V - 480 V, 3~, 50 Hz/60 Hz
Temperature control: e+ controller (factory setting +35 °C)
Dimensions [WxHxD]: 400 x 950 x 294 mm
Required mounting cut-out [Wx H] : 433 x 1579 mm
Material : Sheet steel
Surface finish : Sheet metal parts and electronics: Clear varnish coating Cooling circuit with two-component PUR coating
Colour : RAL 7035
Refrigeration factor L35 L35 (EER) 50/ 60 Hz: 3.23
Refrigerant / Quantity:Refrigerant: R-513A, Quantity: 1.07 kg
Operating temperature range -20 °C...60 °C
Storage temperature range -40 °C...70 °C
Heat pipe operating temperature range -20 °C...45 °C
Setting range 20 °C...50 °C
Protection category IP to IEC 60 529 :
Internal circuit IP 55
Weight:55.2 kg

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