Roof-mounted Blue e+ cooling unit
Integration solution VX25
Integration solution VX25 and Blue e+

- Cooling unit with 1.3 kW and Blue e+ technology with the dimensions W x H x D 800 x 2200 x 600 mm – integrated into the VX25 baying enclosure system
- No assembly outlay – the cooling unit, door limit switch and connection cabling are installed ready-to-connect
- State-of-the-art design – not a cooling unit built onto the enclosure

Excellent planning certainty

- The digital twin is available in the EPLAN Data Portal
- Dependable and efficient construction planning with EPLAN Pro Panel
- “Thermal Design Integration” can be used to produce a graphical display of exclusion zones dictated by ventilation requirements, the optimum climate control area, and any hot spots

Efficient roof-mounted solution

- Also available as an autonomous roof-mounted cooling unit for enclosures with minimum dimensions (W x D) 800 x 600 mm

Ready for Industry 4.0

- Intelligent interfaces and software
- Cooling units are easily incorporated into a wide range of IoT applications via the Rittal IoT interface (optional)
- This in turn facilitates new applications and smart services

Efficient and flexible

- High energy efficiency with innovative hybrid technology
- Maximum flexibility, thanks to unique multi-voltage capability
- Longer service life of components with component-friendly cooling
- Simple operation with touch display and intelligent interfaces

Further information can be found at: http://www.rittal.com
HIGH EFFICIENCY – THE BLUE E+ PRINCIPLE

Benefit from this revolutionary energy efficiency with innovative hybrid technology.
**VX25 Blue e+ integration solution**

**Benefits:**
- The perfect symbiosis of the VX25 baying enclosure system and Blue e+ cooling unit
- The cooling unit is easily pulled out forwards for maintenance purposes
- No assembly work required – the cooling unit, door-operated switch and connection cabling are installed ready-to-connect
- Cooling unit offers all the benefits of Blue e+ Technology

**Temperature control:**
- e+ controller (factory setting +35 °C)

**Protection category IP to IEC 60 529:**
- External circuit IP 54 with pleated filter
- Internal circuit IP 54 with pleated filter

**Supply includes:**
- Basic enclosure VX25, door, roof, rear panel, side panels, gland plates, mounting plate
- Lock: 3 mm double-bit
- Integral door-operated switch
- Integral Blue e+ cooling unit 1.5 kW
- Electric condensate evaporator
- Pleated filter

**Output class 1300 W**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Packs of</th>
<th>3185.030</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Sheet steel</td>
<td>■</td>
</tr>
<tr>
<td>Colour</td>
<td>RAL 7035</td>
<td>■</td>
</tr>
<tr>
<td>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</td>
<td>1.3</td>
<td></td>
</tr>
<tr>
<td>Total cooling output 50/60 Hz L35 L35 kW</td>
<td>1.3 / 1.3</td>
<td></td>
</tr>
<tr>
<td>Rated operating voltage V, ~, Hz</td>
<td>110 - 240, 1, 50/60</td>
<td>380 - 480, 3, 50/60</td>
</tr>
<tr>
<td>Width mm</td>
<td>800</td>
<td></td>
</tr>
<tr>
<td>Height mm</td>
<td>2200</td>
<td></td>
</tr>
<tr>
<td>Depth mm</td>
<td>600</td>
<td></td>
</tr>
<tr>
<td>Mounting plate width mm</td>
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<tr>
<td>Mounting plate height mm</td>
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<tr>
<td>Rated output kW</td>
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<td></td>
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<tr>
<td>Power consumption Pn 50/60 Hz L35 L35 kW</td>
<td>0.67 / 0.67</td>
<td></td>
</tr>
<tr>
<td>Power consumption Pn 50/60 Hz L35 L50 kW</td>
<td>0.61 / 0.61</td>
<td></td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-20 °C...+55 °C</td>
<td></td>
</tr>
<tr>
<td>Setting range</td>
<td>+20 °C...+50 °C</td>
<td></td>
</tr>
<tr>
<td>Storage temperature range</td>
<td>-40 °C...+70 °C</td>
<td></td>
</tr>
<tr>
<td>Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511</td>
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<tr>
<td>Seasonal energy efficiency ratio (SEER) 50/60 Hz</td>
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<tr>
<td>Refrigerant g</td>
<td>R134a, 590</td>
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<tr>
<td>Permissible operating pressure (p. max.) bar</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Weight kg</td>
<td>180.0</td>
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</table>

**Accessories**
- IoT interface 1 pc(s) | 3124.300 | 6
- Temperature sensor 1 pc(s) | 3124.400 | Cat. 35, 470
- RiDiag 1 pc(s) | 3159.300 | Cat. 35, 474
- Display frame 1 pc(s) | 3285.700 | 7
- Pleated filter 3 pcs | 3285.700 | 7
- Baying plate 1 pc(s) | 3355.710 | 7
- LED system light see page | Cat. 35, 750 |

Further technical information available on the Internet.
Roof-mounted Blue e+ cooling unit

Benefits:
- Average 75% energy savings thanks to speed-regulated components and heat pipe technology
- Suitable for international use due to a unique multi-voltage capability
- 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

Temperature control:
- e+ controller (factory setting +35 °C)

Protection category IP to IEC 60 529:
- External circuit IP 54 with pleated filter
- Internal circuit IP 54 with pleated filter

Supply includes:
- Roof-mounted Blue e+ cooling unit
- Pleated filter
- Fully wired ready for connection
- Assembly parts

Note:
- Only suitable for mounting on enclosures with minimum dimensions (W x D) 800 x 600 mm

Output class 1300 W

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Packs of</th>
<th>3185.730</th>
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<table>
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<tr>
<th>Material</th>
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<tr>
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<td>110 - 240, 1 ~, 50/60</td>
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<tr>
<td></td>
<td>380 - 480, 3 ~, 50/60</td>
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<td>Width mm</td>
<td>700</td>
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<td>Height mm</td>
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<tr>
<td>Depth mm</td>
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<tr>
<td>Rated output kW</td>
<td>0.75</td>
</tr>
<tr>
<td>Power consumption Pn 50/60 Hz L35 L35 kW</td>
<td>0.67 / 0.67</td>
</tr>
<tr>
<td>Power consumption Pn 50/60 Hz L35 L50 kW</td>
<td>0.61 / 0.61</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-20 °C...+55 °C</td>
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<tr>
<td>Setting range</td>
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<tr>
<td>Refrigerant g</td>
<td>R134a, 590</td>
</tr>
<tr>
<td>Permissible operating pressure (p. max.) bar</td>
<td>24</td>
</tr>
<tr>
<td>Weight kg</td>
<td>38.0</td>
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Accessories

<table>
<thead>
<tr>
<th>IoT interface</th>
<th>1 pc(s).</th>
<th>3124.300</th>
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</thead>
<tbody>
<tr>
<td>RIDiag</td>
<td>1 pc(s).</td>
<td>3159.300</td>
</tr>
<tr>
<td>Display frame</td>
<td>1 pc(s).</td>
<td>3355.700</td>
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<tr>
<td>Pleated filter</td>
<td>3 pc(s).</td>
<td>3285.720</td>
</tr>
<tr>
<td>Electrical condensate evaporation</td>
<td>1 pc(s).</td>
<td>3355.720</td>
</tr>
<tr>
<td>Temperature sensor</td>
<td>1 pc(s).</td>
<td>3124.400</td>
</tr>
<tr>
<td>Door-operated switch</td>
<td>1 pc(s).</td>
<td>4127.010</td>
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</table>

Blue e+ integration solution

Further technical information available on the Internet.
**IoT interface**

The IoT interface is used to link Rittal components such as Blue e+ cooling units, Blue e+ chillers, smart monitoring systems etc. to the customer’s own monitoring and/or energy management systems. Data may be integrated both horizontally and vertically into data collectors and processors, to allow the long-term logging and evaluation of device data, statuses and system messages.

**Benefits:**
- The IoT interface is middleware, whose interfaces allow a variety of devices and systems to communicate with one another. The data can then be forwarded into superordinate systems.
- Central element for the intelligent networking of Rittal components
- Up to 5 IoT interfaces may be connected in series
- Simple connection of up to two Blue e+ cooling units or chillers
- Compatible with up to 32 CMC III sensors and the Smart monitoring system

**Material:**
- Plastic to UL 94-V0

**Colour:**
- RAL 7016

**Protection category IP to IEC 60 529:**
- IP 20

**Supply includes:**
- IoT interface
- USB cable (USB-A connector on micro-USB-B connector)
- Angle bracket for Blue e+ cooling unit

**Note:**
- The IoT interface is only supported by Blue e+ cooling units from firmware version 1.11.0 or above. If applicable, update the firmware using the RiDiag III software (3159.300).

**Assembly**

- The IoT interface can be secured on a 35 x 7.5 top hat rail to DIN EN 60715 using a spring-loaded metal clip, or to the rear of a Blue e+ cooling unit using the angle bracket.

### Table: Specifications

<table>
<thead>
<tr>
<th>W x H x D mm</th>
<th>18 x 117 x 120</th>
</tr>
</thead>
<tbody>
<tr>
<td>For</td>
<td>Blue e+ cooling units, Blue e+ chillers, Smart Monitoring System, CMC III sensors</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>+0 °C...+70 °C</td>
</tr>
<tr>
<td>Protocols</td>
<td>OPC-UA, SNMPv1, SNMPv2c, SNMPv3, Modbus/TCP, TCP/IP, TCP/IP6, Radius, Telnet, SSH, FTP, SFTP, HTTP, HTTPS, NTP, DHCP, DNS, SMTP, Syslog, LDAP</td>
</tr>
<tr>
<td>Interfaces</td>
<td>1 x Micro USB type B (device) for USB 2.0, 1 x Micro-SD memory card slot for SD 2.0, 1 x USB 2.0 high-speed functions (EHCI), 1 x acknowledgement button, 1 x push-in spring connection terminal for NTC sensor, 2 x RJ45 jack for RS 485 interface (climate control unit interface)</td>
</tr>
<tr>
<td>Network interface</td>
<td>Ethernet IPv4/IPv6, Ethernet to IEEE 802.3 via 10BASE-T, 100BASE-T and 1000BASE-T</td>
</tr>
<tr>
<td>Type of electrical connection</td>
<td>Push-in spring connection terminal (24 V DC)</td>
</tr>
<tr>
<td>Packs of</td>
<td>1 pc(s)</td>
</tr>
<tr>
<td>Model No.</td>
<td>3124.300</td>
</tr>
</tbody>
</table>

Further technical information available on the Internet.
Display frame
for Blue e+ roof-mounted cooling unit and VX25 Blue e+ integration solution
The display frame allows the touch display of the roof-mounted cooling unit Blue e+ or the VX25 Blue e+ integration solution to be positioned in the enclosure door.

Benefits:
– For positioning the display at the optimum operator height

Material:
– Plastic

Colour:
– RAL 7016

Protection category IP to IEC 60 529:
– IP 54

Supply includes:
– Display frame
– Blanking cover
– Assembly parts and sealing material

To fit
Model No.
W x H x D mm
Packs of
Packs of
Model No.

3185.030/ 3185.730
316 x 118 x 27.5  1 pc(s).
3355.700

Pleated filter
for Blue e+ roof-mounted cooling unit and VX25 Blue e+ integration solution
To achieve a protection category of IP 54 with roof-mounted cooling unit Blue e+ and VX25 Blue e+ integration solution.

Material:
– Non-woven fabric

Filter class to DIN EN 779:
– G4

To fit
Model No.
W x H x D mm
Filter class
to DIN EN 779
Packs of
Packs of
Model No.

3185.030/ 3185.730
158 x 652 x 15  G4  3 pc(s).
3285.700

Baying plate
for VX25 Blue e+ integration solution
The baying plate guarantees a protection category of IP54 when baying the VX25 Blue e+ integration solution to a 2,000 mm high, 600 mm deep enclosure.

Material:
– Sheet steel

Colour:
– Textured RAL 7035

Supply includes:
– Baying plate
– Cross member
– Assembly parts and sealing material

To fit
Model No.
W x H x D mm
Packs of
Packs of
Model No.

3185.030
600 x 200 x 17  1 pc(s).
3355.710
Electrical condensate evaporation
for Blue e+ roof-mounted cooling units
Tool-free mounting of the condensate evaporator on the underside of the roof-mounted Blue e+ so that it is not visible from the outside. Any condensation is evaporated and emitted to the ambient air via the air exhaust of the cooling unit.

Material:
– Plastic

Colour:
– RAL 9005

Supply includes:
– Electrical condensate evaporation
– Shipping brace screw
– Entry grommet

<table>
<thead>
<tr>
<th>To fit Model No.</th>
<th>W x H x D mm</th>
<th>Rated operating voltage V (DC)</th>
<th>Operating temperature range</th>
<th>Evaporation performance</th>
<th>Packs of</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3185.730</td>
<td>89 x 121 x 158</td>
<td>380</td>
<td>+5 °C...+60 °C</td>
<td>100 ml/h</td>
<td>1 pc(s).</td>
<td>3355.720</td>
</tr>
</tbody>
</table>
VX25 Blue e+ integration solution

Roof-mounted Blue e+ cooling unit

Note:
Only suitable for mounting on enclosures with minimum dimensions 800 x 600 (W x D).
Characteristic curves
Output class 1300 W (110 – 240 V, 1 ~, 50 – 60 Hz / 380 – 480 V, 3 ~, 50 – 60 Hz)

**1.3 kW**
SK 3185.030/3185.730

Enclosure internal temperature
- $T_i = 45°C$
- $T_i = 40°C$
- $T_i = 35°C$
- $T_i = 30°C$
- $T_i = 25°C$

$P_c = $ Total cooling output [W]
$T_u = $ Ambient temperature [°C]
External circuit

Maximun flexibility
- The ambient air is drawn in and expelled at the front of the cooling unit.
- This means there is no need to observe any minimum distances from adjacent devices or walls.

Flexible baying – no minimum distances to the left or right required

Flexible installation location – no minimum distances at the top or rear required

Internal circuit

Optimum air circulation
- The cooled air is expelled in the front section of the enclosure.
- In this way, the cold air flows around and cools other components such as frequency converters.
Rittal – The System.

Faster – better – everywhere.

- Enclosures
- Power Distribution
- Climate Control
- IT Infrastructure
- Software & Services

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www.rittal.com/contact