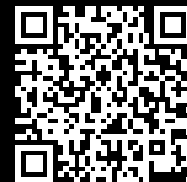


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## SK 3311.490 Liquid Cooling Unit

State: 6/29/2025 (Source: [rittal.com/us-en](http://rittal.com/us-en))

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FRIEDHELM LOH GROUP



# SK 3311.490 - Liquid Cooling Unit LCU DX, single

Refrigerant-based enclosure cooling in single version for VX IT or Micro Data Center without heating up the installation room. With two output categories 3 kW and 6.5 kW, the ideal cooling solution for smaller IT applications.

## Features

|                    |  |
|--------------------|--|
| Model No.          | SK 3311.490  |
| Version            | LCU DX 3 kW  |
| Benefits           | <p>Space-saving solution by installing the indoor unit in the VX IT server enclosure or in the Micro Data Center</p> <p>Maximum energy efficiency due to EC fan technology and IT-based control</p> <p>Control of the server inlet temperature</p> <p>The inverter-controlled compressor matches the cooling output to the current level of heat loss in the enclosure</p> <p>Absorbed thermal energy is emitted directly into the ambient air at the location of the (inverter controlled) external unit , without heating up the installation room</p> |
| Applications       | Cooling unit for VX IT server enclosures and for Micro Data Centers  |
| Function principle | The device supports "front to back" air routing typical of IT applications, and regulates the server inlet temperature to the set value  |
| Material           | Carbon steel, spray finished   |
| Color              | Internal unit: RAL 7035<br>External unit: white  |
| Supply includes    | <p>Internal unit (condenser)</p> <p>External unit (inverter controlled)</p> <p>482.6 mm (19") mounting bracket cover with control and display elements</p> <p>Condensate hose</p>  |

# Features

|                                     |  |
|-------------------------------------|--|
| Installation options in VX          | <p>19" profile rails, standard or dynamic, must be off-centered by 50 mm in regards to width</p> <p>The distance between the front of the 19" profile rails and the front edge of the VX frame must be at least 100 mm</p> <p>Two system chassis for the inner mounting level are required to fasten the internal unit</p> <p>Air baffle plates are required to separate the hot/cold zones within an enclosure</p> <p>A base/plinth is needed to route cables downwards</p> |
| Note                                | <p>If the cooling output falls below its minimum value, fluctuations in the air intake temperature may result</p> <p>The electrical connection is made to the external unit, the internal unit is supplied by the external unit</p>  |
| Protection category IP to IEC 60529 | <p>Internal unit IP 20</p> <p>External unit IP X4</p>  |
| Modulation range                    | 1 - 3 kW   |
| Max. cooling output                 | <p>3 kW</p> <p>10,236 BTU/h</p>  |
| Type of connection (electrical)     | Connection clamp   |
| Duty cycle                          | 100 %  |
| Operating temperature               | The specified operating temperature applies to the external unit   |
| Suitable for                        | <p>Enclosure type: VX IT</p> <p>Width: = 800 mm</p> <p>Height: ≥ 1,800 mm</p> <p>Depth: ≥ 1,000 mm</p> <p>Enclosure type: VX IT</p> <p>Width: = 31.5 "</p> <p>Height: ≥ 70.9 "</p> <p>Depth: ≥ 39.4 "</p>  |
| Dimensions of the internal unit     | <p>Width: 105 mm</p> <p>Height: 1,550 mm</p> <p>Depth: 820 mm</p> <p>Width: 4.13 "</p> <p>Height: 61 "</p> <p>Depth: 32.3 "</p>  |

## Features

|                           |  |
|---------------------------|--|
| Dimensions, external unit | Width: 810 mm<br>Height: 558 mm<br>Depth: 310 mm<br>Width: 31.9 "<br>Height: 22 "<br>Depth: 12.2 " |
| Rated operating voltage   | 230 V, 1~, 50 Hz   |
| Pre-fuse                  | 16 A   |
| Rated current             | 7 A  |
| Packaging unit            | 1 pc(s).   |
| Net weight                | 95.475   |
| Gross weight              | 100.5  |
| Customs tariff number     | 84158200   |
| EAN                       | 4028177709348  |
| ETIM 9                    | EC000855   |
| ETIM 8                    | EC000855   |
| ECLASS 8.0                | 27180704   |

## Approvals

|              |                           |
|--------------|---------------------------|
| Certificates | EAC                       |
| Explanations | Declaration of conformity |