

# Rittal – The System.

Faster – better – everywhere.



## SK 3311.490 Liquid Cooling Unit

State: 2025-08-16 (Source: [rittal.com/ca-en](https://rittal.com/ca-en))

ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

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 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	3 kW
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>
Dimensions of the internal unit	<p>Width: 105 mm</p> <p>Height: 1,550 mm</p> <p>Depth: 820 mm</p>
Dimensions, external unit	<p>Width: 810 mm</p> <p>Height: 558 mm</p> <p>Depth: 310 mm</p>
Rated operating voltage	230 V, 1~, 50 Hz
Pre-fuse	16 A
Rated current	7 A
Packaging unit	1 pc(s).

# Features

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