

# Rittal – The System.

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## SK 3319.610 TopTherm chillers

State: 2025-08-02 (Source: [rittal.com/ca-en](https://www.rittal.com/ca-en))

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CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# SK 3319.610 - TopTherm chillers 3412.1 - 13,648 BTU/h

TopTherm chillers in roof-mounted or stand-alone versions are flexible and compact. They offer centralized and efficient cooling of the cooling water and supply air/water heat exchangers and other devices. With nano-coated condenser as standard.

## Features

|  |   |
|--|---|
| Model No.  | SK 3319.610   |
| Version  | Compact, modular layout of the refrigeration components<br>Pump to convey the medium  |
| Benefits   | Precise temperature control, based on microprocessor technology<br>Collective fault signal with floating contact<br>One version for two frequencies = international compatibility |
| Color  | RAL 7035  |
| Supply includes                                  | Condenser with hydrophobic RiNano coating<br>Complete unit ready for connection<br>Multilingual documentation including functional diagram and wiring plans                       |
| Protection category IP to EN 60 529              | IP 44 (electrics)   |
| Total cooling output Tw10 / Tu32                 | Cooling output Tw10 Tu32/50 Hz: 1.2 kW<br>Cooling output Tw10 Tu32/60 Hz: 1.3 kW  |
| Total cooling output Tw18 / Tu32                 | Cooling output Tw18 Tu32/50 Hz: 1.5 kW<br>Cooling output Tw18 Tu32/60 Hz: 1.7 kW  |
| Total cooling output to DIN EN 14511 Tw18 / Tu35 | Cooling output Tw18 Tu35/50 Hz: 1.7 kW<br>Cooling output Tw18 Tu35/60 Hz: 1.9 kW  |
| Air throughput (unimpeded air flow)              | At 50 Hz: 900 m³/h<br>At 60 Hz: 900 m³/h  |
| Rated operating voltage                          | 230 V, 1~, 50 Hz/60 Hz  |
| Dimensions                                       | Width: 600 mm<br>Height: 400 mm<br>Depth: 455 mm  |
| Temperature control                              | Microcontroller control (factory setting +20 °C)  |

# Features

|  |   |
|--|---|
| Operating temperature range                                  | 10 °C...43 °C   |
| Operating temperature range of cooling medium                | 10 °C...30 °C   |
| Temperature hysteresis                                       | ± 2 K   |
| Refrigerant/cooling medium                                   | Refrigerant: R-513A<br>Quantity: 0.975 kg<br>Global Warming Potential (GWP): 631<br>CO2 equivalent (CO2e): 0.61 t |
| Pump pressure  | At 50 Hz: 2.5 bar   |
| Volumetric flow (cooling medium)                             | At 50 Hz: 3.5 l/min<br>At 60 Hz: 6 l/min  |
| Rated power Pel  | At 50 Hz: 0.86 kW<br>At 60 Hz: 1.07 kW  |
| Rated current max.   | At 50 Hz: 5.7 A<br>At 60 Hz: 5.6 A  |
| Refrigeration factor (EER) 50 Hz<br>Tw18 / Tu35 DIN EN 14511 | 1.77  |
| Water circuit  | hermetically open   |
| Water connections  | G ½" internal thread  |
| Number of cooling circuits                                   | 1   |
| Tank   | Material: Plastic PP<br>Volume: 2.5 l   |
| Packaging unit   | 1 pc(s).  |
| Net weight   | 51  |
| Gross weight   | 56  |
| Customs tariff number  | 84186900  |
| EAN  | 4028177351165   |
| ETIM 9   | EC002516  |
| ETIM 8   | EC002516  |
| ECLASS 8.0   | 27180713  |

# Approvals

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Explanations

Declaration of conformity

Declaration of conformity - F-gas regulation