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## CS 9776.500 Outdoor cooling unit

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FRIEDHELM LOH GROUP



# CS 9776.500 - Outdoor cooling unit for CS Toptec

Useful cooling output/heater 1,400 W/400 W, temperature control via e-Comfort controller. For mounting on the CS Toptec in 3 positions: External, partial internal and full internal mounting.

## Features

|                                      |  |
|--------------------------------------|--|
| Model No.                            | CS 9776.500  |
| Product description                  | Temperature control via e-Comfort controller. The cooling unit may be attached to the enclosure in 3 positions (external, partial internal and full internal mounting).  |
| Benefits                             | May be linked to the IoT interface via Blue e IoT adaptor for cooling units from 500 W cooling output with e-Comfort controller  |
| Material                             | Aluminium  |
| Surface finish                       | Powder-coated<br>Pure polyester  |
| Colour                               | RAL 7035   |
| Supply includes                      | Fully wired ready for connection (plug-in terminal strip)<br>Mounting frame for universal attachment to outdoor enclosures for external, partial internal and full internal mounting.                            |
| IP protection category to IEC 60529  | External circuit IP 34<br>Internal circuit IP 55   |
| Total cooling output to DIN EN 14511 | Cooling output L35 L35/50 Hz: 1,000 W<br>Cooling output L35 L35/60 Hz: 1,150 W<br>Cooling output L35 L50/50 Hz: 650 W<br>Cooling output L35 L50/60 Hz: 700 W   |
| Heater output                        | 400 W  |
| Rated operating voltage              | 230 V, 1~, 50 Hz/60 Hz   |
| Start-up current max.                | At 50 Hz: 24 A<br>At 60 Hz: 22 A   |
| Air throughput (unimpeded air flow)  | External circuit with 50 Hz: 600 m <sup>3</sup> /h<br>External circuit with 60 Hz: 625 m <sup>3</sup> /h<br>Internal circuit at 50 Hz: 600 m <sup>3</sup> /h<br>Internal circuit at 60 Hz: 625 m <sup>3</sup> /h |

# Features

|   |  |
|---|--|
| Rated current max.  | At 50 Hz: 5 A<br>At 60 Hz: 5 A   |
| Temperature control   | e-Comfort controller (factory setting +35 °C)  |
| Operating temperature range                                     | -33 °C...55 °C   |
| Setting range   | 20 °C...55 °C  |
| Refrigerant/cooling medium                                      | Refrigerant: R134a<br>Quantity: 0.45 kg  |
| Power consumption Pel   | Power consumption L35 L35/50 Hz: 640 W<br>Power consumption L35 L35/60 Hz: 760 W<br>Power consumption L35 L50/50 Hz: 780 W<br>Power consumption L35 L50/60 Hz: 920 W |
| Permissible operating pressure (p. max.)                        | 28 bar   |
| Dimensions  | Width: 500 mm<br>Height: 1,000 mm<br>Depth: 150 mm   |
| Enclosure dimensions including sealing frame and designer cover | Width: 550 mm<br>Height: 1,050 mm<br>Depth: 285 mm   |
| To fit  | Enclosure type: CS Toptec<br>Width: ≥ 800 mm<br>Depth: ≥ 1,200 mm  |
| Installation type   | Universal installation (external mounting, partial internal mounting, full internal mounting)  |
| Packs of  | 1 pc(s).   |
| Net weight  | 42 kg  |
| Gross weight  | 45 kg  |
| Customs tariff number   | 84158200   |
| ECLASS 8.0  | 27180704   |

# Approvals

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Explanations

Declaration of conformity

# Tender text

Cooling unit 1000 W for outdoor use in the temperature range from  $-33^{\circ}$  to  $+55^{\circ}\text{C}$

For universal installation, partial internal mounting or external mounting on side panels, rear panels or doors of outdoor enclosures, minimum enclosure dimensions WxH 800 x 1200 mm.

With microcontroller for temperature control and monitoring, diagnostics and evaluation of error messages of the cooling unit. The protection category of IP 55 for the enclosure is retained due to the separation of internal circuit and external circuit.

Installation: Universal installation, the unit can optionally be mounted on the special mounting frame with all-round seal on the inside, on the outside or partially internal. A later modification of the installation type is easily possible.

Enclosure dimensions (mm) WxHxD 500 x 1000 x 185 mm

Minimum enclosure dimension mm WxH or DxH: 800 x 1200

Useful cooling output to EN 814:

L35 L35 1000/1180 W

L 35 L 50 650/700 W

Coolant: R 134a

Rated operating voltage: 230 V AC /50/60 Hz

With integral heater, 400 W

Type of connection: Female multi-point connector 9-pole. Temperature control via microcontroller.

Temperature range of environment  $-33^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$

Material (enclosure): Aluminium

Surface finish: Spray finished in RAL 7035

Protection category (internal circuit to external circuit):

IP 55 to EN 60529/10.91