

cosmotec

your cooling solutions



Compact Protherm CNE-CNO



Complete and compact solution for electrical enclosures

Compact Protherm is the range of industrial air conditioners designed for installations where units with compact dimensions in terms of width or height are required.

The range, although very compact in size, offers a wide choice of features for different market requirements:

- Range up to 1000 W
- One cut-out for every model
- High efficiency
- Extensive range of operations
- Wide power supply range
- Certifications suitable for the world market
- Low noise
- Electronic control on all models



Safety

Condensate dissipating device on the indoor range in order to reduce or eliminate the output condensate water without power consumption

IP54/55, Type 12/4 protection degree between air conditioner and electrical enclosure, which ensures protection against infiltration by dust or splashing water

Hydrophilic evaporator for high efficiency and to prevent condensation drops from moving



Easy and fast installation

Positioning
Two inserts to ensure the proper positioning of the unit

Quick Connections
Quick Connections for power supply and signals, also for UL Listed units

Testing
Quick start up and testing of the components via test function



For all your indoor and outdoor applications, worldwide

Compact Protherm has an extensive range of operation, operating up to 55°C of external temperature, and set point up to 20°C (according to the model).

Cooling capacity in compact dimensions

In industrial automation, production space is an increasingly valuable asset and there is a need to find solutions that combine high performance with optimised layouts, such as cabinets with a depth of 300mm/12".

The optimization of the space produces a higher density of the control electronic devices, getting worse the thermal conditions of the system, that must be further protected against the overheating in order to guarantee the continuity of the service.

Compact Protherm, an evolution of our bestseller, offers a Thermal Management solution suitable for placement on the side of all electrical cabinets up to 300mm deep, thanks to a width of only 280mm. In addition, the range also features a low height of 565mm, allowing it to be installed in electrical boxes integrated into machine tools.



Application example Cooling of the electrical enclosure in Food & Beverage

In the Food & Beverage sector, production lines must be washed and sanitized to remove processing residues. Electrical panels are made of stainless steel and feature high levels of protection to withstand high-pressure washdowns. The **Compact Protherm** units are perfect for this sector, featuring stainless steel coating and IP55/Type4/4x protection. The dedicated layout and accessories such as the 30° inclined roof prevent the accumulation of dust and liquids, ensuring hygiene and safety. The compact dimensions allow installation in applications with limited space, offering high performance and flexibility in power supply, as well as certifications for global export.



Technical Features

Main Features

- High efficiency
 - Indoor and Outdoor applications
 - Cooling capacity: 400 ÷ 1000 W
 - Electronic board XCB + display
 - Quick electrical connections
 - Condensate evaporator device (CNE Models)
 - General alarm and remote enable contacts
 - Sequencing and modbus (with specific accessories)
 - SEM and SEM2 functions (with specific accessory)
 - Electrical heater
- (Models CNO 230V-400/460V, 115V on request)
- Certifications: CE, EAC, UL Listed

		CNE04 - CNO04				
Nominal Voltage	V, ~	230,1		115,1	400,2	460,2
Nominale Frequency	Hz	50	60	60	50	60
Cooling capacity L35L50	W	455	495	455	450	490
Cooling capacity L35L50	W	340	385	335	335	380
Absorbed power L35L50	W	205	220	255	205	220
External sound pressure level	dB(A)	55		55	55	55
Height	mm	565		565	565	565
Width	mm	280		280	280	280
Depth	mm	220		220	278	278

Options

- Special Color
- Stainless steel 304/316 housing
- Protective treatment on the condenser
- Electrical heater (CNO models)
- Remote Probe

		CNE07 - CNO07				
Nominal Voltage	V, ~	230,1		115,1	400,2	460,2
Nominale Frequency	Hz	50	60	60	50	60
Cooling capacity L35L50	W	660	670	625	645	655
Cooling capacity L35L50	W	450	490	460	440	480
Absorbed power L35L50	W	350	360	335	350	360
External sound pressure level	dB(A)	55		55	55	55
Height	mm	565		565	565	565
Width	mm	280		280	280	280
Depth	mm	220		220	278	278

Accessories

- Air Filter (CNE)
- Air Baffle (CNE)
- Keypad (CNO)
- Sequencing cable
- Modbus serial port
- IP55
- Rubber caps
- 30° Sloped roof

		CNE10 - CNO10				
Nominal Voltage	V, ~	230,1		115,1	400,2	460,2
Nominale Frequency	Hz	50	60	60	50	60
Cooling capacity L35L50	W	975	1075	950	950	1050
Cooling capacity L35L50	W	750	830	700	745	825
Absorbed power L35L50	W	480	530	555	480	530
External sound pressure level	dB(A)	58		58	58	58
Height	mm	565		565	565	565
Width	mm	280		280	280	280
Depth	mm	220		220	278	278

COSMOTEC

Industrial Cooling

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