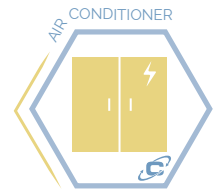


The solution for Indoor (CVE) and Outdoor (CVO) applications

PROTHERM INDOOR & OUTDOOR



Cosmotec, with Protherm, offers a wide range of air conditioners in order to meet different customer needs, both for electrical enclosure for industrial applications and for power distribution, fiber optics, etc. cabinets.



The need to reduce operating consumption has imposed the development of air conditioners strongly oriented to maximum performance in term of efficiency, while maintaining strength, reliability and compact design, all features that can be found in air conditioners Protherm CVE/CVO.

The Protherm offer a wide range of air conditioners in order to meet different customer needs, both for electrical enclosures for industrial applications (CVE) and for conditioning of shelter/cabinet for telecommunications, power distribution, ect (CVO).

The air conditioners CVE, for Indoor applications, have an attractive industrial design. The display is installed on the panel in order to show all informations (except CVE03) and there is a condensate evaporator device (from CVE11 and CVE07). The air conditioners CVO are suitable for Outdoor applications; they are able to work with low external temperatures, lower too -20°C. The display is available as accessory, in order to avoid vandalism acts or parameter changes. An electrical heater is available as option when heating mode is required (from CVO11).

A "double" range

Several applications

For Indoor electrical enclosure and Outdoor cabinet

Cooling capacity

Range extension: from 360W to 5600W, the widest on the market, with 9 sizes available

Wide choice of power supply

Power supply 115V, 230V e 400V/460V are available

Extended operating range

Operating in site with temperature between +20/+55 (CVE), -20/+55 (CVO, CE), -40 (CVO, UL)

Cooling Capacity (W)

	115,1,60	230,1,50	230,1,60
CVE03	380	360	380
CVE05/CVO05	580	550	580
CVE0700S	---	800	850
CVE08/CVO08	900	850	900
CVE11/CVO11	1150	1100	1150
CVE15/CVO15	1600	1500	1600
CVE1500S	---	1500	1600
CVE20/CVO20	2200	2100	2200
CVE2500S	---	2550	2750
CVE30	---	3000	3150
CVE40/CVO40	---	4000	4100

	400,2,50	460,2,60	400,3,50	460,3,60
CVE05/CVO05	500	550	---	---
CVE08/CVO08	800	850	---	---
CVE11/CVO11	1050	1100	---	---
CVE15/CVO15	1400	1500	---	1500
CVE15S	---	---	1400	1500
CVE20/CVO20	---	---	2000	2100
CVE2500S	---	---	2400	2600
CVE30	---	---	2850	3000
CVE40/CVO40	---	---	3950	4050
CVE60/CVO60	---	---	5600	5950
CVE40/CVO40	---	4000	4100	



Certifications

CE, UL Listed and EAC, ready for the export to all country in the world. With the UL Listed certification, the unit is considered as finished product and it allows money and time saving for further approvals.

Moreover...

Protection Degree

Protection degree IP54/Type12 between air conditioner and electrical enclosure allows protection against the entry of dust or splashing water. For more critical application it is possible to increase the protection up to IP55 and for Outdoor UL version up to Type 4/4x.

Micro channel condenser

Thinner than the traditional coils. It reduces the air pressure drops and improves the air flow in the condenser side, reducing the consumption power

Condensate evaporator device

Condensate evaporator device to reduce or remove the output condensate water without power consumption.



XCB, a control for

More protection

The electronic board is installed on the internal side in order to guarantee suitable protection against the external agents (dust, oil) present in the ambient

Energy saving

With reduction of the power consumption by evaporator fan management

Low Noise

Management of the condenser fans if the application requests low noise values

Reliability

Possible system redundancy through sequencing function and the communication between two air conditioners

Accurate cooling

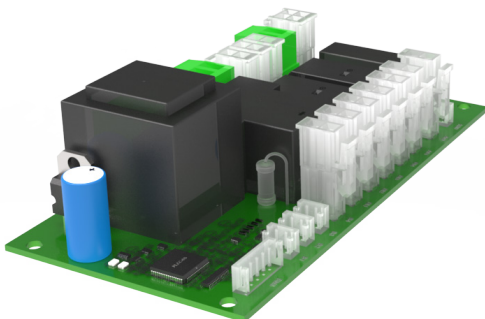
Elimination of the hot spot thanks to possible installation of a remote probe

Remote monitoring

By RS485 serial port and Modbus RTU protocol

Signaling

Available an alarm (NO and NC) and a remote enable/open door contacts



Not just standard

In addition to the standards, there are several options:

- Special color
- Stainless steel 304/316
- Treatment on the condenser coil
- Low Noise

And accessories for integration:

- Air filter
- Air baffle
- Remote probe
- Gasket IP55
- Sequencing cable