cosmotec

your cooling solutions

R513A
R1234yf



SlimIn

CDE / CDY

R513A R1234yf

Industrial Air conditioner **Extra Flat**



A high-efficiency solution for critical applications

SlimIn is the range of **ultra-slim air conditioners** designed for **external, semi-recessed, or fully recessed installation**, **ideal for installations requiring minimal space and protrusion from the panel**. The unit's features allow for easy and fast installation.

A wide range of installations for every **space requirement**



External Semi flushed Flushed



The use of **R513A and R1234yf refrigerant**, along with higher efficiency and reduced refrigerant charge, lowers resource consumption and CO_2 impact, making SlimIn air conditioners 'Green.

R513A R1234yf

The R1234yf refrigerant has a GWP of 0.5, in compliance with Regulation (EU) 2024/573 and well below the limit of 150.

If, for safety reasons, the specific application does not allow the use of air conditioners with flammable refrigerants, the R513A version is available, with a GWP of 631, lower than the 750 limit specified in Annex IV of the Regulation.

R1234yf and R513A refrigerants offer high energy efficiency and environmental sustainability. They do not damage the ozone layer and are available in the medium to long term not only for production but also for maintenance purposes.

Maximum efficiency

Slim In has high EER values and consequent cost savings thanks to the use of:

- high performance compressors and fans
- micro-channel condenser, which with its reduced thickness allows better air flow
- energy saving functions (SEM and SEM2)

MICROCHANNEL CONDENSER
It allows better airflow due to its reduced thickness.

CONDENSATE DISSIPATOR
To reduce or eliminate output condensation without current consumption.

XCB ELECTRONIC CONTROL
Via the integrated RS485 serial port and Modbus RTU protocol, it makes remote monitoring possible.

COMPRESSOR
Compressors and fans with high performance.

Safety

To increase the safety of your installations, **SlimIn** air conditioners are equipped with a condensate evaporator device, which **eliminates the phenomenon of condensation without current absorption**.

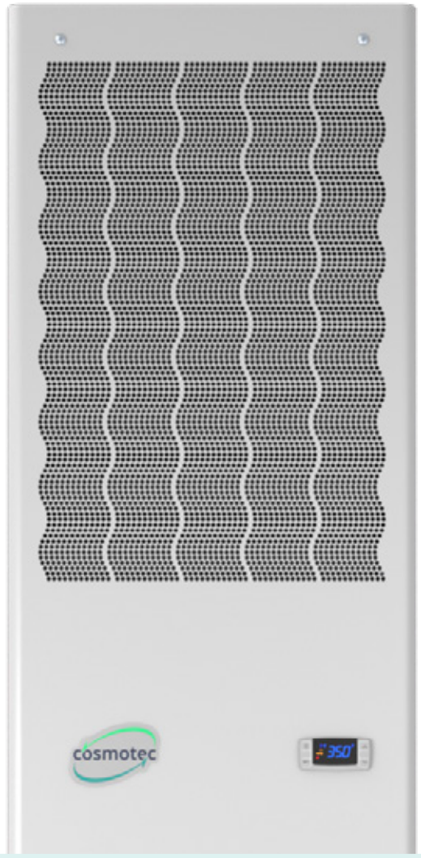
Protection

Protection degree **IP54 (CDE/CDY) / Type 12 (CDE)** between air conditioner and electrical enclosure, allows protection against the entry of dust or splashing water.

Hydrofilic evaporator for more efficiency, without the risk of dragging drops of the condensate water.

The **SlimIn** range can operate in sites with temperatures up to 55°C/60°C, covering all market requirements.

Available in 115V, 230V and 400V/460 versions.



The ideal solution for simple and fast installation and maintenance

The total cost of an air conditioner is not limited to the purchase price alone, but also includes subsequent operating costs as well as procurement, installation, and maintenance expenses. These last three items can account for up to 20–25% of the total value.

cosmotec has therefore adopted solutions that facilitate air-conditioner installation activities and any maintenance operations that may be required.

The solutions implemented in the SlimIn air conditioner enable significant time savings— and consequently cost savings— that can reach up to 50%.

Applicazioni


Idrogeno


Macchine Utensili


Automotive/ E-Mobility


Printing


Food & Beverage


Plastica


Chimico/ Farmaceutic.

Switchgear cooling in METALLURGY

In the metal industry, in sectors such as steelmaking and welding, temperatures of up to 60°C are often encountered, well above the conventional 55°C limit of air conditioners on the market. The electrical panels in this type of plant must be conditioned, and if chilled water is not available, the only alternative is to use an air conditioner, which guarantees correct and reliable operation and adequate performance.

The SlimIn line offers, as standard, an air-conditioning solution that operates up to an outside temperature of 60°C. SlimIn maintains high cooling performance and high efficiency values even at high temperatures and is a more economical solution than an air/water exchanger + chiller system.

Technical Features

Main features

- High efficiency
- Cooling capacity: 500 - 4000 W
- XCB electronic board + display
- Totally recessed, semi-recessed or external installation
- Quick electrical connections
- Sequencing and Modbus connection
- µchannel condenser (from CDE14)
- Condensate dissipator (from CDE14)
- General alarm and remote control contacts
- Gasket already installed on the conditioner
- Operation up to an outside temperature of +60°C (for some models)
- Certifications: CE, UL Listed High efficiency (only CDE R513A)



Options

- Special colour
- Panel Inox AISI304/316
- Phase sequence relay (3~ models)
- Remote probe

Options for accessories

- Special colour for semi-flush mount / external frames
- Special colour air filter (no stainless steel version)
- Frames for semi-flush mount / external stainless steel 304/316

Accessories

- Frames for semi-flush/external mount
- Air filter
- Sequencing cable

Technical Features

	CDE/CDY	05	10	14	20	30	40
Cooling capacity [W] @	L35L35, 230V o 400, 50Hz	600	900	1400	2150	3100	4000
Power supply	115-1-60 (CDE)		·		·		
	230-1-50/60	·	·	·	·	·	
	400-2-50 460-2-60			·			
	400-3-50 460-3-60				·	·	·
Dimensions (mm)	Height	956	956	1666	1666	1666	1666
	Width	375	375	454	454	496	496
	Depth	196	196	181	181	221	256

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