

# [MADEL KCA-SUB zoning control module: wiring, functions and professional applications](#)

Category: Equipment

written by [www.mbsmpro.com](http://www.mbsmpro.com) | December 24, 2025



The MADEL KCA-SUB is an electronic zoning controller designed to manage up to six independent air-conditioning zones from a single ducted unit. The image shows the KCA-SUB installed in a junction box with its power, relay and sensor terminals visible, offering HVAC technicians a compact and versatile solution for sub-zone temperature control.

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# [Electrostatic Paint Sprayer: Precision Coating for Modern Workshops](#)

Category: Equipment

written by [www.mbsmpro.com](http://www.mbsmpro.com) | December 24, 2025



In many metalworking, HVAC and automotive workshops, an electrostatic paint sprayer has become the secret weapon for achieving premium finishes with less paint and less mess. This compact mobile system charges each droplet of paint so it is strongly attracted to grounded metal parts, wrapping around complex shapes and cutting overspray dramatically.

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# Carel DN33V9MR20 Universal Controller: Reliable DIN-Rail Control For Modern HVAC Systems

Category: Equipment

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The Carel DN33V9MR20 is a compact universal electronic controller designed for DIN-rail mounting in professional HVAC and refrigeration panels. It offers a wide low-voltage power-supply range, two analogue and two digital inputs, and a robust relay output with buzzer and infrared receiver, delivering reliable temperature management in demanding applications.

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# Tecumseh CAJ9480T: The French-Made Heart of Legacy R22 Cold Rooms

Category: Refrigeration

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On the faded nameplate of this weathered compressor shell, one line stands out with absolute clarity: CAJ9480T - R22/R502 - Made in France. It is the unmistakable signature of a Tecumseh L'Unité Hermétique fully hermetic compressor, a workhorse still beating quietly inside countless small cold rooms and refrigerated cabinets in everyday commercial settings.

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# [Replacing Unionaire Sensors with Kiriazi Deep Freezer Probes: What Technicians Must Check First](#)

Category: Refrigeration

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The picture shows a refrigeration technician holding several tubular temperature probes and a small white connector in front of a heavily frosted evaporator, capturing the exact moment of diagnosing a sensor fault in a no-frost fridge or deep freezer. This real-world scene raises a key question: can Unionaire sensors be safely replaced with Kiriazi probes?

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## [DC05CDNC1C 48V DC Cabinet Air Conditioner](#)

Category: Air Conditioner

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Outdoor telecom cabinets, base stations and industrial enclosures rely on compact DC air conditioners to keep sensitive electronics within a safe temperature range. The Envicool DC05CDNC1C 48V DC cabinet air conditioner is one of these dedicated solutions, delivering 550 W of cooling capacity in a sealed IP65 housing for harsh outdoor environments.

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## [Frascold D2-15Y / D2-15.1Y](#)

Category: Refrigeration

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The Frascold D2 15Y is a semi-hermetic reciprocating compressor designed for commercial and industrial refrigeration. With a 2 HP motor and 15.4 m<sup>3</sup>/h displacement, it delivers around 6-7 kW of cooling capacity using R404A, R448A or R449A, making it a robust option for low and medium temperature applications.

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## [Frascold Z40-154Y](#)

Category: Refrigeration

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The photos capture a heavy-duty Frascold Z40-154Y semi-hermetic compressor, an Italian 40 HP unit designed for demanding freezer and cold-room applications. Its nameplate shows a displacement of about 154 m<sup>3</sup>/h and robust pressure ratings, while the blue cast-iron body and mounted controls reveal a machine built for long-term industrial refrigeration service.

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## [Copeland-15hp](#)

Category: Refrigeration

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The photos show a Copeland condensing unit on a steel base, with a semi-hermetic compressor, air-cooled condenser and vertical liquid receiver designed for cold room applications. This type of refrigeration unit is widely used in commercial food storage because it delivers stable temperature control, good energy efficiency and straightforward maintenance for professional technicians.

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## **FFI10HAK-FFI10HAKW**

Category: Refrigeration

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The Embraco FFI10HAKW is a hermetic reciprocating compressor designed for low and medium back pressure refrigeration systems operating on R134a. It runs on 220-230 V, 50/60 Hz single-phase power and delivers roughly 1/3 HP from a 9.04 cm<sup>3</sup> displacement, making it ideal for beverage coolers and small commercial display cabinets.