

SPLIT FAN COIL

UNIC sal is equipped to produce a wide range of **COOLER®** Air conditioning and Refrigeration units, conforming to the international standards and works continually to improve its products and facility. As a result, the design and specifications of each product at the time of order may be changed without notice and may not be described herein. Please contact our customer department for specific information on the current design.

Consultancy & Design Our Engineering Dep't is always available to solve special requirements, investigating the client situation and using the most sophisticated available tools. The knowledge and the precious experience of our Engineers is supported by the most advanced computerized calculations and design programs.

Revision AG 16-07



MECHANICAL SPECIFICATION

COOLER® Fan Coil units are designed for installation with **Direct Expansion** or **Chilled & Hot Water Coils** to meet Air Conditioning requirements of separate rooms. They combine high efficiency, economic operation, flexibility of design and quietness. They are convenient for Apartments, Hospitals, Hotels, Offices and Stores.

COOLER® diversified range of models allows the choice of the **Fan Coil** units that suits the required need, whether that is ceiling or wall mounted, horizontal or vertical discharge, Concealed or Decorative type.

COOLER® Fan Coil Standard models are available in capacity of:

CSFC Models: 02 – 03 – 04 – 06 – 08 – 10 – 12

Air Volume from 175 to 2,500 m³/h (from 103 to 1,471 cfm)

Cooling Capacity from 1.2 to 15.8 KW (from 4.1 to 53.9 mbtu)

Heating Capacity from 1.4 to 25 KW (from 4.6 to 85.3 mbtu)

Dx Coils: 3 – 4 Row

Water Coils: 1 – 2 – 3 – 4 Row Cooling

Water Coils: 1 – 2 Row Heating

= Any special Unit can be tailored on request =



COOLER® Fan Coil Units have the following features:

DECORATIVE CABINET. To serve even the more sophisticated interior room design, or architectural requirements, with colored plastic coats or electrostatic powder coating.

Heavy gauge **GALVANIZED STEEL BODY** for concealed type ready to match distribution ducts.

INSULATION. All standard units shall be thermally and acoustically insulated by neoprene coated fiber glass sheets.

BLOWERS are centrifugal direct driven, quite forward curved, statically and

dynamically balanced. Fan driving components are mounted on rubber pad isolators to reduce noise and vibrations.



MOTORS are high efficiency, low power consumption, open or closed type drop-proof, sleeve or ball bearing, single or up to six speed, single phase with permanent split capacitor.

COILS are high efficiency type made of seamless copper tubes mechanically expanded into aluminum fins; copper fins, anti-corrosive plastic-coated fins, are also available for special applications. All coils are factory leak tested at 28 bar (400 PSI).

DRAIN PANS are heavy gauge galvanized steel epoxy-enamel resin coated, and are thermally insulated with 10 mm thick polyurethane foam layer.

AIR FILTER slots are standard in all units, disposable filter is normally provided, cleanable aluminum permanent filter available on request.

AIR VENT is provided on each water coil.

ELECTRIC JUNCTION BOARD shall be color coded and wires identified for easy field connection.

THERMOSTAT for room temperature control, shall be supplied wired with Fan speed control and Cooling/Heating switch.

COOLER® Project Department is ready to study cases and to supply the most economic, yet feasible solutions.

OPTIONALS:

A DRIP-PAN shall be provided for field installation when a 3-WAY ON/OFF VALVE or STRAINER is ordered.

MODULATING 3-WAY VALVE assembly is also available on request.

FRESH AIR DAMPER is custom tailored on request.

COOLER® Service Department is always available to serve our customer and ready to solve any Client problem.



ORDERING GUIDELINE:

CSFC: COOLER SPLIT FAN COIL

Ex: **06** (x100 = **600 cfm nominal**)

Dx Coils: Direct Expansion Cooling only or Heat Pump

Dx Coils: Direct Expansion Cooling only or with Water Heating

Water Coils: for Cooling & Heating

Cabinet Type: **D:** Decorative - **C:** Concealed

Cabinet Model: **F:**Floor - **W:** Wall - **C:** Ceiling

Connection side facing fan outlet: **L:**Left - **R:**Right

Electricity Supply: 1: 115V/1Ph/50Hz - 2:230V/1Ph/50Hz - 3: 230V/3Ph/50Hz - 4: 400V/3Ph/50Hz



COOLER SPLIT FAN COIL MODELS

Vertical units, have adjustable outlet grills which diffuse air in all directions for convenient and comfortable operation.

FLOOR CABINET

Hinged doors allow easy access to the control panel. The air filter is easily accessible from the front bottom of the unit. The cabinet panels can be easily removed for access to the internal parts and for the installation of the unit. Cabinets are constructed using plastic pre-coated steel or zincor colored with oven baked fine enamels.

WALL UNITS are similar to the floor model but come with suitable hangers on the frame for hanging the unit on the wall. The decorative cabinet can be easily removed for access to the internal parts leaving the unit hung on the wall. The control panel is wired for remote mounting with thermostat, 3 speed control switch for the blower's motor and switch for cooling or heating applications.

CEILING UNIT is also similar to the floor and wall units, except that special hanging holes with rubber bushings are incorporated on the frame for the quietest possible operation.

VERTICAL OR HORIZONTAL HIDEAWAY UNITS have a galvanised body and suitable hangers for wall or ceiling installation. All hideaway units have a wired control panel for remote mounting.

PLENUM AND FILTER

The unit can be delivered with plenum ready for duct horizontal or vertical connection and return air filter fixed with especially shaped slots for easy maintenance & replacement.



QUALITY GUARANTEE

UNIC saI COOLER® guarantees contractual free maintenance, availability of all parts and components, and qualified field technicians to carry out the maintenance requirements.

UNIC saI Company is ISO 9001:2015, DQS-UL, IQNet and CE Certified.

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