Modular Hi-Rise Series Fan Coils

MPY
(Concealed)

MAY/MBY
(Ditto)

MXY
(Exposed)

MMY/MSY
(Primary/Secondary)

300 to 1200 CFM

MODULAR HI-RISE PRODUCT FAMILY

IEC's Modular Hi-Rise fan coil systems offer unit arrangement versatility, made possible as factory-assembled and integrated packages. Once installed, these units present a low visual impact in the room, often positioned in a corner, along the perimeter wall, or as part of a partition separating two areas. These Modular Hi-Rise fan coils were designed for new construction and retrofit replacement markets.

Once installed, only the thermostat control, supply air grille, and decorative return air panel of the unit are visible in the room. Removal of the return air panel provides easy access to all internal components. Concealed units (non-MXY) are provided with a galvanized finish on the cabinet and an arctic white powder-coat paint finish on the return air panel. Supply air grilles are provided with arctic white or anodized aluminum finish.

MPY – MODULAR HI-RISE CONCEALED – 300 CFM TO 1200 CFM

The Concealed Modular (MPY) fan coil unit, International Environmental Corporation's (IEC) premier Modular unit, is designed for concealed applications in corners or along room walls. Once installed, only the thermostat control, supply grille and decorative return air panel of the MPY are visible in the room. The return air panel provides easy access to all internal components. Standard MPY units are provided with a galvanized finish on the cabinet and a powder-coat paint finish on the return air panel.

MAY/MBY – MODULAR HI-RISE CONCEALED DITTO – 300 TO 1200 CFM

The Ditto Concealed Modular (MAY/MBY) fan coil system is designed for installations where two units share riser piping in the separation wall between two rooms but are equipped with individual valves, supply and return grilles, and controls. The Ditto Concealed Modular unit is shipped factory assembled for additional installed cost savings. Standard Ditto units are provided with a galvanized finish on the cabinet and a powder-coat paint finish on the return air panel. Units are ETL listed with UL fire ratings.

MXY – MODULAR HI-RISE CABINET – 300 TO 1200 CFM

The Exposed Modular (MXY) fan coil unit is designed for applications where concealed installation is not possible or practical. The slim, attractively-styled cabinet of the MXY blends with all types of decor. MXY units feature a double-deflection supply grille, an integral return air panel and a unit-mounted thermostat control. Standard MXY units are provided with a powder-coat paint finish.

MMY/MSY – MODULAR HI-RISE CONCEALED PRIMARY/SECONDARY – 300 TO 1200 CFM

The Primary/Secondary Modular (MMY/MSY) fan coil unit is ideal for applications where design restricts the installation of IEC's Ditto or Siamese Ditto systems. With this configuration, field brazing is required to complete the piping between two separate Modular Hi-Rise fan coil units. Standard MMY/MSY units are provided with a galvanized finish on the cabinet and a powder-coat paint finish on the return air panel.

APPLICATION FIT

- Concealed cabinets with multiple airflow configurations provide solutions for most ducted and non-ducted applications.
- A variety of aesthetically pleasing return air panels will blend with most décors.
- Thermostats are available as surface, remote wall mounted, or ADA mounted for ease of interface.
- Units are specifically designed for quiet operation.
- Cabinets can be modified to fit specific application or facilitate replacement units.
- Ditto-styled units are designed to serve two separate zones.

DESIGN FLEXIBILITY

- Easy to use computer rating program to speed up project design.
- Wide variety of coil configurations to match the heating and cooling loads of the space.
- Standard and high static motors are available to meet ducted application requirements.
- Multiple riser locations are offered to maximize design flexibility.
- A wide variety of valve packages available that can be factory installed to meet stringent specifications.
- Manual or motorized outside air dampers are available to meet a zone's ventilation requirement.

Contact your local representative for more details about the Modular Hi-Rise Product Family.

Visit www.iec-okc.com for more details about IEC and its products.

Modular Hi-Rise Series Fan Coils

EASE OF INSTALLATION

- Units assembled at the factory in coordination with the jobsite construction schedule.
- Riser length is matched to the job specifications and pre-fabricated and insulated with the specified material. Risers can be factory installed or shipped separately.
- Risers are swaged to reduce field brazing labor.
- Drywall can be applied directly to the surface of the concealed unit with factory provided duct collars and drywall stops to ensure a high quality finished appearance.

EASE OF SERVICE

- Filters are easily accessible by removing return air panel.
- Motor and blower assemblies are removable with quick-connect plug and fasteners.
- Control box is located at eye level for ease of field wiring and easy access.

QUALITY AND SAFETY

- Every unit is tested and inspected at the factory for trouble free start-up.
- ETL listed and AHRI certified

STANDARD/OPTIONAL FEATURES

- Nominal CFM sizes: 300, 400, 600, 800, 1,000, and 1,200.
- Units are fabricated of galvanized steel with a heavy gauge galvanized fan deck.
- Motor/blower assemblies will meet most needs of applications where duct work is required. Unit applications should not exceed a maximum of 0.25" external static pressure.
- Acoustical service access panel.
- 1" throwaway and 1" pleated MERV 8 filters to address IAQ requirements. Optional MERV 13 filters available.
- 24 V controls available.
- 1/2" standard fiberglass unit insulation material.
- Heavy galvanized or stainless steel drain pan with pre-formed rubber p-trap. Optional anti-microbial coating available.
- Supply air grilles, thermostats, and return air panels shipped loose for field installation by others.

PHYSICAL DATA - INCHES (MILLIMETERS)

Unit Size	Width	Depth	Height
03	17" (432)	17" (432)	88" (2235)
04	17" (432)	17" (432)	88" (2235)
06	20" (508)	20" (508)	88" (2235)
08	20" (508)	20" (508)	88" (2235)
10	24" (610)	24" (610)	88" (2235)
12	24" (610)	24" (610)	88" (2235)

NOTE: Dimensions shown for each standard cabinet. Ditto and Siamese Ditto units require two (2) cabinets and a chase.

STANDARD RATINGS

Rows in Coil	Unit Size	Nominal CFM	Cooling Capacity		Power Input-Watts (Perm. Split Cap. Motor)
			Total MBH	Sensible MBH	
3-row	03	300	11.5	7.0	85
	04	400	13.6	9.0	115
	06	600	21.9	14.0	135
	08	800	27.5	17.8	250
	10	1000	37.7	24.5	325
	12	1200	43.1	28.4	440
4-row	03	300	12.2	7.3	85
	04	400	15.6	9.6	115
	06	600	26.0	15.3	135
	08	800	31.4	19.5	250
	10	1000	42.2	25.6	325
	12	1200	46.5	30.5	440

NOTES:
1. Ratings are based on 80°F DB and 67°F WB EAT, 45°F EWT, 10°F water temperature rise, high fan speed, motor voltage 115-1-60, and airflow under dry coil conditions.
2. Ratings shown for Ditto, Siamese Ditto, and Primary/Secondary configurations are for each unit in the two-unit system.
3. For all application ratings, use IEC's computer selection program, the quick-selection ratings provided in this catalog, or contact your local IEC representative.
4. For additional information, please consult AHRI's website at www.ahrinet.org.

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IEC'S "GREEN" STANDARDS AND OPTIONS:

- Environmentally friendly hydronic fan coil system (uses no refrigerants)
- High MERV filter option available
- Highly efficient Eco-telligent™ ECM option
- Outside/Conditioned air options
- Variety of unit insulation options
- Programmable thermostat options
- Anti-microbial drain pan coating option
- Recycled materials used in manufacturing processes whenever possible
- No HCFC foams or VOC paints used in manufacturing processes

For more than half a century, IEC has led the way in improving indoor air quality with high performance fan coil units. Today IEC is shaping the future through sustainable building options.

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IEC International Environmental

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