

MB & MB-HW SERIES FAN COIL UNIT

INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS

GENERAL

The manufacturer assumes no responsibility for equipment installed in violation of any code requirement.

These instructions give information relative to the installation of these fan coil units only. For other related equipment refer to the proper instructions.

Material in this shipment has been inspected at the factory and released to the transportation agency in good condition. When received, a visual inspection of all cartons should be made immediately. Any evidence of rough handling or apparent damage should be noted on the delivery receipt and the material inspected in the presence of the carrier's representative. If damage is found, a claim should be filed against the carrier immediately.

FAN COIL UNIT

The installer must adhere strictly to all local and national code requirements pertaining to the installation of this equipment.

These units are designed to be installed in either an upflow or horizontal position.

WARNING: *Extreme caution must be taken that no internal damage will result if screws or holes are drilled into the cabinet.*

All fan coil units are U.L. Listed for installation with zero inches clearance to combustible materials. This includes the unit cabinet, discharge plenum and connecting ducts. Sufficient clearance must be provided at the front of the unit to allow access to electrical controls and removal of the motor/blower assembly for servicing. This clearance distance should be approximately the same as the depth dimension of the fan coil unit.

HORIZONTAL APPLICATION

The MB or MB-HW fan coil units are factory assembled for horizontal left side down application without any modification required. To convert to horizontal right side down remove horizontal drain pan and A-coil assembly, flip horizontal drain pan over to right side and re-install horizontal drain pan and A-coil into cabinet. Secure forward edge of horizontal drain pan with leveler angle bracket. The unit should be leveled in such a way that there is slope toward the condensate drain nipple to assure positive drainage.

AIR DISTRIBUTION DUCTS

All duct work must adhere strictly to all local and national code requirements. The return air duct must have the same free area as the opening provided on the fan coil unit. If there is no ducted return, applicable installation codes may limit the unit to installation only in a single story residence.

ELECTRICAL

All wiring must comply with local and national code requirements. Units are provided with wiring diagrams and nameplate data to provide information required for necessary field wiring. Knockouts are provided on the cabinet for connection of power supply.

COIL PIPING

The **MB** fan coil units are supplied with a single water coil and the **MB-HW** fan coil units are supplied with a chilled water coil and hot water coil. The supply and return piping must be

adequately sized to meet the design water flow requirements as specified for the specific installation. All chilled water piping must be insulated to prevent condensation.

Condensate drain lines must be installed with adequate slope away from the unit to assure positive drainage. Since the drain pan is located on the suction side of the blower, a negative pressure exists at the drain pan and a minimum trap of 1-1/2 inches must be provided in the drain line to assure proper drainage.

OPERATION AND MAINTENANCE

Prior to start-up, inspect the blower to assure the wheel turns freely without rubbing on the housing. Remove the motor blower shipping brace on the 60MB-HW blower assembly. Check to see that the air filter is properly positioned in the unit, then replace the access panels.

AIR FILTER

The air filter should be cleaned or replaced as often as necessary to prevent restriction of air flow. Always replace the filter with the same type as originally furnished.