

## SECTION 238126 - DUCTLESS SPLIT SYSTEM

## PART 1-GENERAL

## 1.1 SECTION INCLUDES

- A. High wall mounted heating and cooling split systems.
- B. Ceiling suspended 4-way throw heating and cooling split systems

## 1.2 SUBMITTALS

- A. Submittals are required and shall include product data noting capacities at the specified conditions, materials, sizes and dimensions.

## 1.3 WARRANTY

- A. Contractor shall warranty entire systems and equipment for a period of one (1) year.

## PART 2-PRODUCTS

## 2.1 MANUFACTURERS

- A. Daikin AC
- B. Mitsubishi Electric
- C. Sanyo

## 2.2 COMPONENTS

- A. The aluminum supply air louvers are dual adjustable for air flow direction, to provide air flow throws to suit any installation. The louvers are mounted in an attractive high impact polystyrene front section. The unit will have Hi / Lo fan speeds with auto ramp operation that produce efficient, quiet operation, suitable for both residential and commercial applications.
- B. The model shall be equipped, as standard, with 24V control circuits to the outside unit.
- C. The energy efficiency shall be minimum as scheduled or as required by ASHRAE 90.1.
- D. Materials of Construction  
Cabinet:
  - 1. Fabricated of 20 gauge galvanized steel.
  - 2. Powder coat finish.
  - 3. High impact polystyrene air discharge panel
  - 4. Intake grille -Removable, perforated steel inlet grille.

5. Discharge assembly -Adjustable, aluminum bi-directional louvers
  6. Condensate Drain Pan-Galvanized steel with anti-corrosion coating.
  7. Color -Cabinet matte finish, designer white.
  8. Discharge Vanes- aluminum.
- E. Air Systems
1. Fans are to be forward curve centrifugal type, directly mounted to the motor shafts and dynamically balanced.
  2. Motors: PSC type with internal thermal overload protection.
  3. Air Stream Surfaces are insulated with ¼” fiberglass and ½” foil face insulation.
  4. Filters: Washable, user accessible.
- F. Coil: Coil to be seamless, copper tubing, arranged in staggered configuration, with enhanced fins, tested to 460 psig. The tubes are mechanically expanded for secure binding to fin shoulder.
- G. Refrigerant Circuit- The units are equipped with Chatleff Piston expansion device. Connections are male flare type, diameters per table.
- H. Systems options
1. Provide a remote T stat for control and interface to BAS system.
  2. Trim kit
  3. Condensate pump with 4ft head.

## PART 3-EXECUTION

### 3.1 INSTALLATION

- A. Install per manufacturer’s recommendations.

### 3.2 TRAINING

- A. Startup and training to be provided by a factory-trained service technician for a total of two (2) hours. These hours of training are to be "bankable hours" used within one full warranty year.
- B. All training and start-up shall be videotaped with a professional videographer and present two (2) copies of the training on DVD format to the Construction Manager within one (1) week of the training session. This DVD will be provided to the owner.

END OF SECTION 238126

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