

## Installation Instructions

The installation instructions provided below are intended as a guide only and does not supersede the relevant council, state and federal codes, regulations and building code standards. Compliance and consultation with the authorities having jurisdiction with the installation of this equipment is the responsibility of the installer. ActronAir will not be held liable for any damages or costs as a result of the installer's failure to comply. Please refer to the matching outdoor unit Installation and Commissioning Guide for further information and details.

### Lifting The Unit

The installation instructions provided, in Unit Lifting Procedures, adhere to WH&S regulations for safe and secure lifting practices in order to prevent physical injury.

Suggested lifting procedures are outlined in Unit Lifting Procedures as a reference guide to safely lift and transport the unit, however, this does not over rule the industry WH&S practices.

### Location

This unit is intended for indoor installation only. It is highly recommended that this indoor unit and accessories, particularly zone barrels, be mounted in the roof cavity.

Mount the unit in a stable and rigid support wherein the weight is properly distributed, such as roof joist and rafters. Take into consideration the minimum service access clearances provided in the unit drawings.

Locate the indoor unit away from the areas where noise is a critical factor. Use rubber mounting pad (not supplied) in order to minimize the transfer of noise and vibration into building structures.

An optional hanging bracket assembly and rubber grommet (supplied as standard with some models) is also available to secure the indoor unit into the roof rafters. This installation configuration is most suitable for installation that require the unit to be rigidly secured up from the roof joist.

### Condensate and Safety Tray Drainage

An integrated safety drain tray is provided as a standard inclusion to your indoor unit in order to reduce the potential of condensate damage to the roof. Drain Kit (not included in some models) is provided for the condensate drain to be externally trapped from the indoor unit. Suggested condensate and safety tray drainage instructions are provided at the proceeding page for your reference.

### Supply Air and Return Air Duct

The indoor unit is supplied with duct flange as standard in order to facilitate the system's duct connection into the unit. Supply and return air duct works must be adequately sized to meet the system's air flow and static pressure requirements. Refer to the unit drawing for supply air and return air duct dimensions, specific to your requirement.

#### NOTE

Fit a flexible duct connection in between the unit and the duct system, where noise and vibration is a critical consideration.

### Return Air Filter

Air filters must be provided in the return air side of the unit to maintain the efficiency and prolong the operation of the unit. These are also paramount to satisfy requirement for a clean and hygienic room condition. Return Air filters must be placed in an easily accessible location for service and maintenance.

#### NOTES

- Return Air filters are not supplied with the unit as individual air filtration requirements vary.
- Ensure that filters are cleaned / replaced regularly.

## **Air Plenums / Duct Plates (Optional)**

Supply Air and Return Air plenums and duct plates (twin-spigot) are available as an option in order to facilitate your duct system connection to the indoor unit. The supply air plenums come in 1-way, 2-way and 3-way options, which offer a wider solutions to your different air distribution requirements.

## **Split Fan Coil System (Optional)**

The ActronAir innovative 2-piece fan coil system provides a solution to your difficult and tight roof space installation requirement. This versatile system has a separate fan and coil sections. Each of the compact and lightweight section is simply installed in two separate locations and joined by flexible duct system. Air ducts are attached to each section of the split fan coil by both of the supply air plenum and the twin spigot duct plate.

## **Fan Coil With Vertical Discharge (Optional)**

An upright Fan Coil with vertical supply air discharge is also available wherein installation applications require the placement of the unit down in a closet, basement or garage. Please refer to the Technical Catalogue of your indoor unit for dimensions, installation details and specifications.

## **Field Pipe Connections**

Specifications and installation requirements for field pipe connections are contained in the Installation and Commissioning Guide of the outdoor unit that matches your indoor unit. Please refer to this guide and thoroughly understand the procedures for safe and correct indoor and outdoor connection.

## **Field Electrical Connection**

The power supply and control communication data to the indoor unit are supplied via the outdoor unit. Please refer to the wiring diagram supplied with the outdoor unit for specifications.

All electrical work must be performed by a licensed electrician and must conform with the wiring diagram and all relevant electrical authorities.