

# MARKETAIR INC.

## Recommended Engineer's Specifications

Revised November 6, 2022

### Minisplit (Ductless) Rough in Boxes

Wherever Minisplit or VRF/VRV high wall mounted evaporators are required in new construction or major rehab, a rough in box shall be installed inside the wall cavity between the studs during construction.

The box, which shall be positioned to match up as far as possible with the final intended position of the evaporator, shall include the following:

A universal drain outlet which can be connected in horizontal or vertical configuration and shall terminate in a 3/4" NPT male nipple.

Multiple inlet ports to facilitate lineset insertion from any direction. Ports shall incorporate rounded edges to facilitate the insertion of the linesets and to eliminate tearing of the insulation during insertion.

An easily removable barbed rubber adaptor to securely connect the drain hose from the evaporator directly to the drain outlet in the box.

Prior to sheetrock installation, the following connections shall be made:

1. A Condensate drain pipe using 3/4" PVC (or copper) pipe and fittings shall be connected to the drain outlet and shall terminate at a suitable discharge point outside the building or into the buildings general drainage system.

Drainage piping shall be watertight, adequately sloped to ensure correct drainage and shall be tested to ensure proper operation before the sheetrock is completed.

2. Both lineset and electric cable shall terminate inside the box, ensuring there is sufficient slack on the cable for it to reach the terminal block in the evaporator.

After these services have been installed, the box shall be securely closed to protect the lineset, cable and interior drain point from damage and/or contamination during the sheetrocking process.

**When connecting the lineset while installing the evaporator, the insulation shall be extended to fully cover the entire surface of the lineset as well as the flare joint and shall provide a continuous insulation/vapor barrier to eliminate any potential sweating from the lineset.**

**Only insulated drain hose shall be used to make the condensate connection from the evaporator into the drain outlet in the box to eliminate any potential sweating from the drain hose.**

All installation, piping and wiring shall be in accordance with the instructions of the box manufacturer as well as the evaporator manufacturer.

The rough in box shall be RoughinBox™ Model RBX3-MD-NC as manufactured by Marketair Inc., or equal.