

The structure must be energy efficient.

Minimum Insulation Levels:

Ceiling: R-38
Walls: R-13
Floors or crawl space walls: R-11
Air infiltration: 1.0 ACH
(Natural)

Recommended Insulation Levels:

Ceiling: R-50
Walls: R-19
Floors: R-19
Basement Walls: R-11
Air infiltration: .50 ACH
(Natural)

Recommended & Minimum Insulation Levels

Duct Work: All duct work that runs through an unconditioned space must be insulated (R-13). All duct work must be properly sealed to prevent air leakage.

Doors:

Urethane core: R-13.5
Polystyrene core: R-7.5
Solid Wood w/storm: R-3.5

Attic Ventilation:

Ratio of total net free area to area of ceiling shall not be less than 1/150, except ratio may be 1/300 provided:

- A vapor barrier having a transmission rate not exceeding one perm is installed on the warm side of the ceiling; or
- At least 50% of the required ventilating area is provided by ventilation located in the upper portion of the space to be provided by eaves or cornice vents.

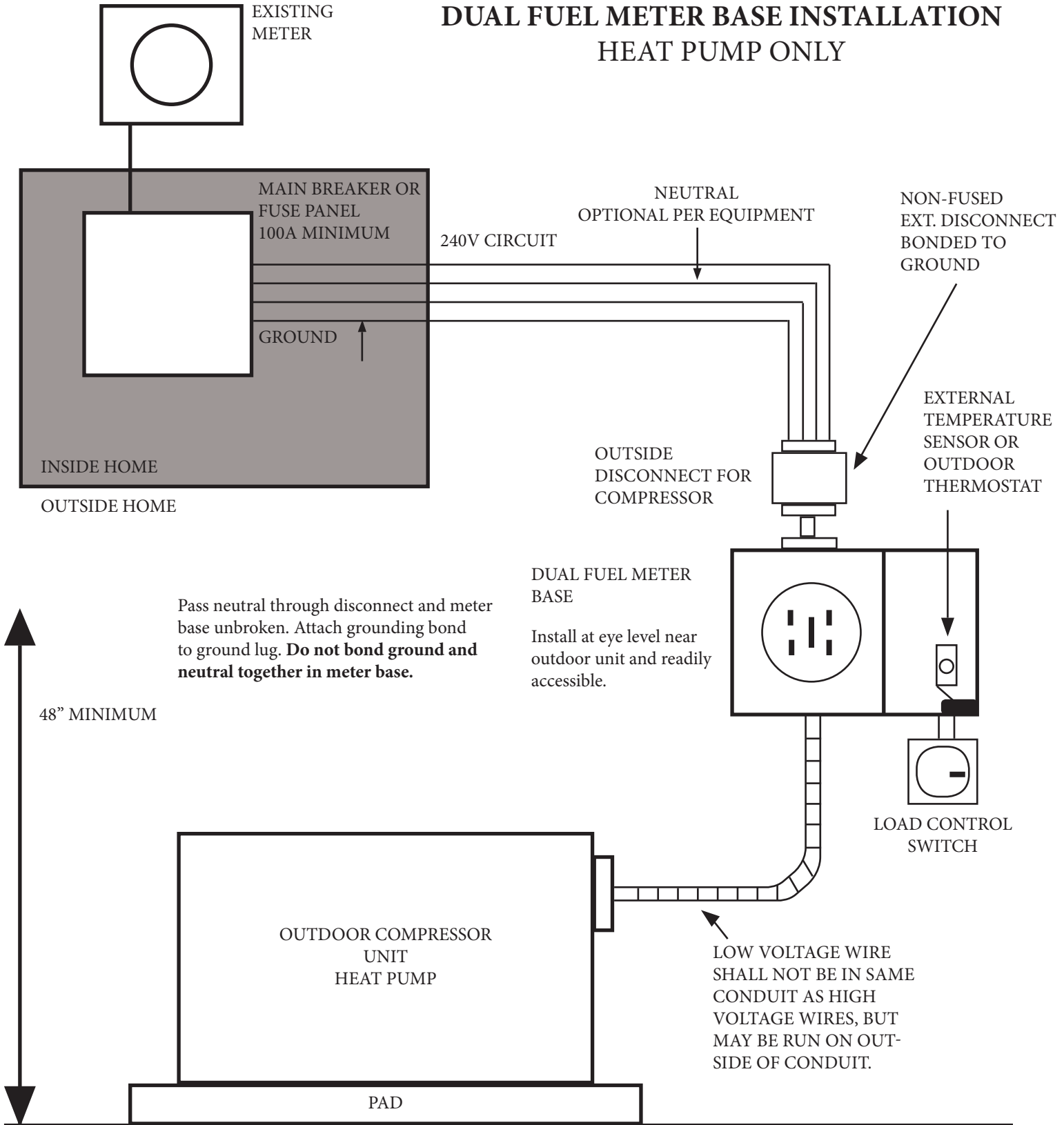
Windows:

Double pane insulated: R-2 or R-3
Single pane with storm windows: R-1.9

The dealer assures:

- that the heat pump installed has a Seasonal Energy Efficiency Ratio (SEER) of 13.0 or higher to qualify for the \$300 Boone Electric rebate. An additional \$150 per ton rebate is available (for a limited time) if the SEER rating is 16.5. The dealer must verify and sign a form that assures that the system (both gas furnace and heat pump) is rated as recognized by ARI with a minimum seer of 16.5. A final invoice must be provided to the Cooperative before any rebates will be paid.
- that the heat pump installed does not have electric resistance back-up heat. Any existing strip heat must be removed.
- that all criteria of a Dual Fuel installation has been met if customer wishes to receive discount, rate and rebates of the Dual Fuel program.
- that the heating duct work has a minimum cubic feet per minute (CFM) of 400 per ton.
- that the installation has an outside thermostat, or an indoor thermostat with an external temperature sensor, set to disengage the heat pump at 15°F. Boone Electric must be provided with a procedure to verify and reset control centers.
- insulate duct work that passes through unconditioned space.
- the dealer will provide the interface kit, required by the manufacturer, to install a heat pump with a gas furnace as part of the installation.
- Boone Electric recommends that all homes wishing to apply for the Dual Fuel Program have the following insulating factors: Ceiling R-50, Walls R-19, Floors R-19, Basement Walls R-11, and maximum Air Changes per Hour (ACH) .50 (Natural).
- all homes must have minimum insulating factors as follows to be eligible for the Dual Fuel Program: Ceiling R-38, Walls R-13, and Floors R-13.
- if, after any inspection by a Boone Electric representative, there is found to be any tampering of off-peak equipment, including by not limited to changing control temperature settings, the off-peak rate will be discontinued permanently.
- if applicable, the dealer must verify the system as to a 16.5 SEER rating and supply the ARI reference number on rebate form.

DUAL FUEL METER BASE INSTALLATION HEAT PUMP ONLY



NOTES:

1. All wiring to meet applicable National Electric Code and all local and/or State Regulations.
2. Outside thermostat or external temperature sensor may be installed in Dual Fuel Meter
3. No ground rod is required on the Dual Fuel Meter Base. But the system ground must be run through the center bar of the base to ground the box.