

WATER HEATER - DIRECT VENT - MOBILE HOME

Equipment Requirements

- Disconnect and remove the existing water heater, disposing of it at an approved site.
- Furnish and install new ENERGY STAR® direct vent gas water heater rated for mobile homes, to the state mechanical and plumbing code, manufacturer's installation instructions and the following specifications:
 - Replaced with same size as existing unit, when possible. If a different size is necessary to meet clearance requirements or the occupant's needs, please discuss with MVAC staff prior to replacement.
 - A minimum rating efficiency of 0.62 with a minimum of 1" polyurethane foam tank insulation.
 - Be supplied with an anode rod.
 - Minimum 5-year tank warranty and a 1-year warranty on parts are required.

Installation Requirements

- Be installed in the same location as the existing unit with all connections.
- Repair subfloor with ¾" plywood if the existing floor is deteriorated and cannot support the new water heater.
- Replace any sections of deteriorated walls and ceiling with drywall.
- Caulk/foam all gaps and seams around new floor or walls and around plumbing holes. Secure water heater to the floor and wall of the enclosure per manufacturer's instructions.
- If installed in conditioned space or in a location where water damage could occur, install a drain pan according to the requirements of the IRC and installation instructions. Drain pan drain must terminate below the mobile home belly.
- A T&P relief valve shall be installed with a ¾" copper or approved blow-off line draining into the drain pan. If a drain pan is not used, the T&P pipe must run through the mobile home floor and completely through the belly.
- The cold & hot lines installed with a ball valve.
- Closed cell foam pipe insulation R3 or higher must be installed on the hot and cold water lines for 6' from the tank in all directions. All corners must be mitered and taped as per SWS. Maintain 6" clearance between pipe insulation and draft hood/single wall venting.
- Set discharge temperature to 120° Fahrenheit.

Venting

- Furnish and install new 24 gauge direct vent flue with new roof jack and combustion air inlet assembly as per manufacturer's instructions.
- Combustion air must be taken directly from outside. The assembly should be unobstructed and terminate below the mobile home belly.

Gas Lines

- Install a new manual in-line gas approved shut-off valve on the supply side of the union, a ground joint type union, and a gas drip tee leg.

NOTE: If ward flex or Gastite gas line will remain, it must be bonded by a licensed Electrician as per manufacturer's instructions and per code.

Homeowner info/Education

- Leave owner's manual(s), warranties, and instructions on equipment operation.
- Prominently display the installer's contact information on new unit
- Educate household on proper operation and maintenance of unit.

Work must be performed in accordance with the Standard Work Specifications developed by the National Renewable Energy Laboratory for the Weatherization Assistance Program along with state, local and municipal codes. These standards can be referenced at <https://sws.nrel.gov/>.