

WATER HEATER- GAS - ATMOSPHERIC

Equipment Requirements

- Disconnect and remove the existing water heater, disposing of it at an approved site.
- Furnish and install new ENERGY STAR® gas water heater 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.
- Raised off the basement floor on a concrete pad or blocks.
- If installed in or above 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.
- The cold & hot lines installed with a ball valve.
- T&P valve installed with a 3/4" copper or approved blow-off line to within 6" of the floor and drain into drain pan when used.
- 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 single wall flue with sufficient rise to eliminate waste gases, (1/4" per ft.).
- Horizontal flue connectors shall not exceed 75% of the height of the vertical chimney unless it is fan assisted.
- All flue joints connected with screws and the flue firmly anchored to the vent hood.
- Install a metal thimble to line the flue passage through the chimney wall sealing around the chimney wall and thimble.

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

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/>.