# WATER HEATER – ELECTRIC

## Equipment Requirements

- Disconnect and remove the existing water heater, disposing of it at an approved site.
- Furnish and install new electric water heater to the state mechanical and plumbing code, National Electrical Code, manufacturer's installation instructions, and the following specifications:
    - Energy Factor of 0.93 or better
    - 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.
    - 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.
- Be on a raised platform or blocks off the basement floor.
- 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.
- A T&P valve installed with a ¾" copper or approved blow-off line to within 6" of the floor and drain into drain pan when used.
- 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.
- Set discharge temperature to 120° Fahrenheit.

## Electrical

- The installer is responsible for ensuring a secure permanent electrical connection.
- The electrical connection shall be as per the NEC by a licensed electrician, and the following specification.
    - Run electrical supply in conduit from floor joist to the water heater.
    - The service supply installed on a separate circuit that is controlled and identified at the service panel.
- The branch circuit rating of not less than 125% of the nameplate rating of the water heater.

## 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 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/.