

Managing Home Energy Costs

Rebates Available: Monmouth Power & Light (MP&L) offers substantial rebates to help customers save energy and make their homes more comfortable by installing a Heat Pump and sealing their heating ducts.

Heat Pumps

Electric heat pumps offer homeowners a proven, highly energy-efficient home heating and cooling system - all in one package.

How Heat Pumps Work

A heat pump works on the same principle as a refrigerator. A refrigerator/freezer continually removes enough heat from inside the refrigerator to keep foods fresh, or even frozen, and discharges the heat into the room.

In the winter, a heat pump extracts heat from outdoor air (there's plenty of heat in outside air even when it's 40 degrees or colder!) and moves it inside the home. In the summer, the heat pump reverses itself and extracts heat from the indoor air and pumps it outside. Winter or summer, the home is comfortable and efficient.

What you should know about a heat pump system

- Whole House Heat Pumps require ductwork to transport air from room to room. In the Northwest, heat pumps often are installed as an "add-on" to an existing electric, gas or oil ducted heating system (in new construction, especially in warmer climates where air conditioning is more important, a heat pump can serve as the primary home heating and cooling system).
- Ductless Heat Pumps are available for heating and cooling one room or area of a home. They are usually added to homes with inefficient zonal heating. Ductless Heat Pumps are Heat Pumps without duct work, providing a more efficient way to heat and cool.
- Correct sizing of a heat pump and the heat duct system is critical. For optimum efficiency and comfort, it is essential to match a heat pump to the size of the home. Heat pumps also vary in efficiency. We recommend an HSPF rating of 9.0 or higher and SEER rating of 14 or higher.
- Insulating and sealing of heating ductwork in unheated areas is essential for optimum efficiency of a heat pump, or any other ducted heating or cooling system.
- In the Northwest, heat pumps installed on an existing heating system meet most home heating/cooling needs. However, when outside temperatures dip below the mid-30's, the heat pump automatically adds heat from the "back-up" electric furnace, as needed, or switches to the gas or oil furnace to maintain comfort at maximum economy.
- Heat pumps provide steady, uniform home comfort levels year-round. Like a refrigerator a heat pump is designed to maintain comfortable, even temperatures. Air coming out of heat pump vents is warm; not hot. This helps keep the air temperature even from the floor to the ceiling.



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