GreenHome INSTITUTE

None

Select this option if there is no cooling equipment or if the **only** cooling equipment in the house is fans (whole house or portable)..

Central air conditioner

The most common type is a split system, with indoor coils delivering cool air to the duct system, and an outdoor unit exhausting heat removed from the house. Central air conditioners are sized to cool the entire house.

Room air conditioner

Except for small apartments, room air conditioners are not considered a whole-house air conditioning system. Consisting of single units installed in wall cutouts or windows, room air conditioners generally provide cooling for individual rooms.

Electric heat pump

Provides heating in the winter and cooling in the summer by absorbing and transferring heat between the inside air and the outside air. A central heat pump is connected to a duct system which distributes the conditioned air throughout the house, while a mini-split (aka ductless) system may consist of several units throughout the house with no ductwork. If

electric heat pump is selected for Heating System it will automatically be selected for Cooling System, and vice versa.

Minisplit (ductless) heat pump

Heat pump system typically consisting of 1 to 3 wall/ceiling units (diffusers) connected by refrigerant lines to a central outside compressor. The system does not require ducts, although some systems are ducted. Minisplit systems are usually found in new high efficiency homes, additions, and as energy efficient retrofits for homes without existing ducts.

Ground coupled heat pump

Ground coupled heat pump (aka: ground source or geothermal heat pump) provides heating in the winter and cooling in the summer by absorbing and transferring heat between the inside air and the underground. It may be connected to a duct system or a hydronic system for distribution of the heat throughout the house.

Direct evaporative cooling

An air conditioning system that works by drawing outside air through water saturated pads, thereby cooling the air (by evaporation) which is ducted inside. The system is usually mounted on the roof or high on an exterior wall; window units also exist. Evaporative coolers are typically found in areas with very low summer humidity, such as the desert southwest.

If the system installed is not listed here, choose the most appropriate system and assign the proper efficiency in the Cooling System Efficiency field.