

HOW THE SYSTEM WORKS

This section will answer many of the most often asked questions about the system.

How does it Work?

The heating system uses a gas water heater to furnish heat to the space of a residence, as well as its domestic hot water. A simple recirculating loop of hot water is tapped off near the top of the heater and is circulated through a finned tube heat exchanger in an air handler or duct coil that furnishes warmed air to the space. The cooled water (140°F cooled to about 120°F) is then returned to the water heater, near the bottom of the tank. Apollo air handlers equipped with circulating pumps are fully factory piped and wired.

The water heater may include side tapplings to provide the recirculating loop connections. When a conventional heater is used, special fittings including check valves are used at the hot and cold water connections.

The control of the heating system is very simple. A conventional heating or heating/cooling thermostat is used. On a call for heat, the hot water circulator is energized through a relay, as is the blower motor. Hot water immediately begins circulating through

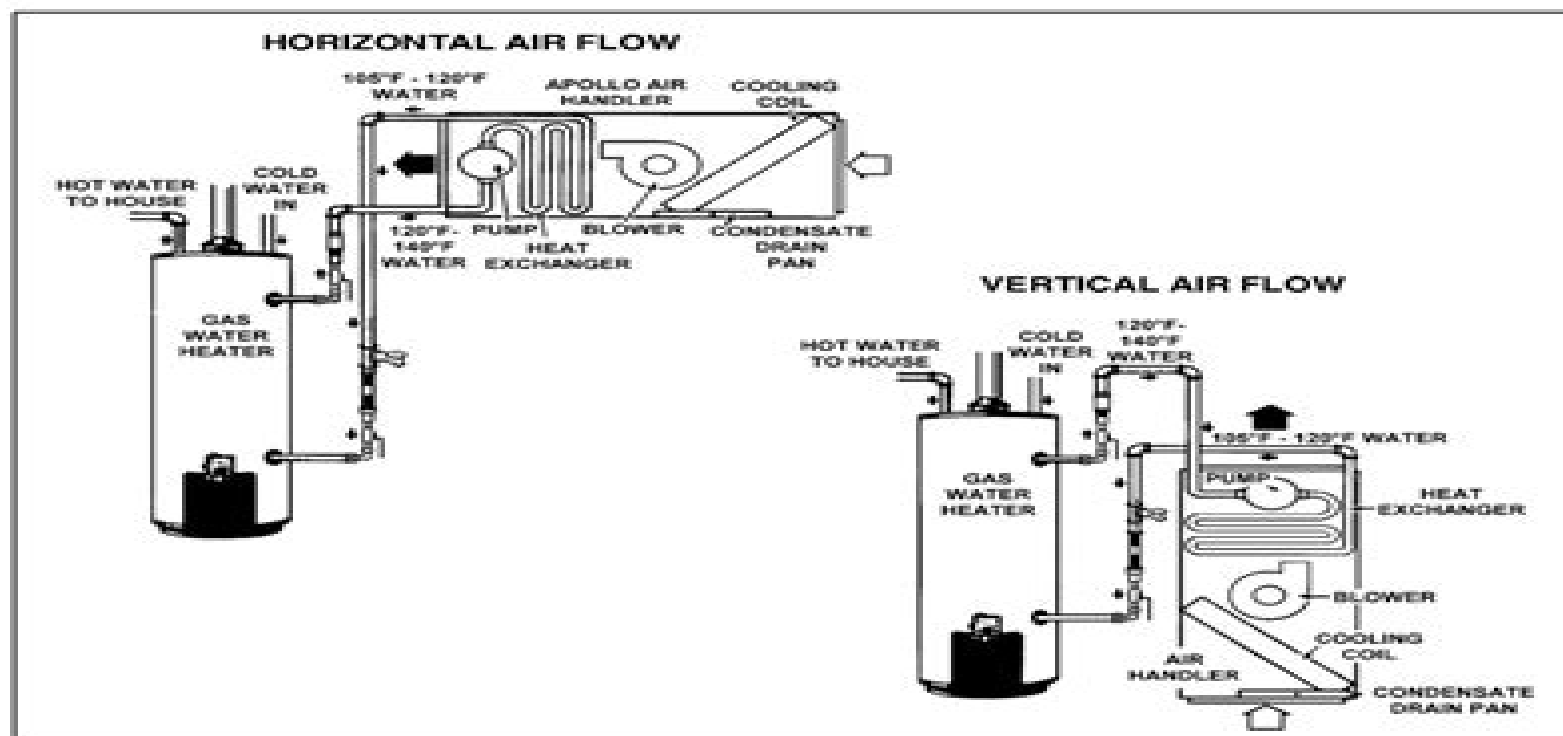
the heat exchanger, and heats the air. Typical outlet air temperatures are 95°F - 105°F. When the thermostat is satisfied, the pump and blower both stop.

How is the HydroHeat System sized?

Proper sizing of the water heater is essential, and begins with the ACCA Manual J design heat loss of the structure to be heated. The heating capacity of the air handler selected must be equal to or larger than the design heat loss. Then, the water heater selected must have a heat output equal to or greater than the coil or air handler heating capacity.

Does a HydroHeat System Require a Larger Tank Size?

In general, it does not require a larger tank size to furnish space heat as well as domestic water. When proper calculation has been made to determine the BTUH input required, and the heater has been selected on that basis, the tank size must be no smaller than 40-gallons, and should be at least that normally used for the expected occupancy of the home.



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