



Two-Stage Furnace

Two Stage heating means that the furnace has two levels of heat output: high for cold winter days and low for milder days. In most cases the low setting is sufficient to heat the home for 80% of the time. It is like getting two furnaces for the price of one.

Control of the stages is automatic through the use of a two-stage thermostat. The thermostat will automatically select either the high or low heating output based on the heating needs of the dwelling.

The advantages of a two stage heating system:

- ✓ **Gently warms the home through longer run times of the furnace.** This means that there will be more consistent temperatures throughout the home, which equals higher occupant comfort levels.
- ✓ **Smaller temperature swings between heating cycles.** Single stage furnaces can have temperature swings of about 4°F. Longer run times with two-stage equipment will result in 2°F temperature swings.
- ✓ **Helps to eliminate temperature differences** between rooms.
- ✓ **Quieter furnace operation.** Two stage furnaces have a two-speed exhaust blower and circulation blowers. As the furnace will be running approximately 80% of the heating season on first stage or low fire the exhaust blower and circulating blower will also be running on their lower settings resulting in less background noise from the furnace which equals quieter operation.
- ✓ **Two furnaces in one.** Two outputs from the furnace to help match the heating requirements of the home. One for milder winter days and one for those cold days when more heat is required.
- ✓ **Improved air quality through improved air filtration.** As the furnace will run for longer periods of time circulating air through your furnace air filter the result is cleaner better air. An upgrade to the standard filter will give even a better result.
- ✓ **Longer equipment life.** Longer run times will make the equipment last longer. The most stress on the equipment is during the start-up and shut down. Longer run times mean less start up and shut down stress resulting in longer equipment life.
- ✓ **Energy savings.** Running your heating equipment less often for a longer period results in more efficient performance much the same as operating your car on the highway results in better fuel economy than stop and go as in a city.
- ✓ **Sealed burner box.** Air for combustion is directly connected to the burner. No conditioned air is lost from the home for combustion. Also during furnace idle times there is no conditioned air lost up the chimney. This sealed burner box also results in quieter operation as the exhaust blower and burners are sealed off from the living space.

Contact your local **ECCO** Sales Branch for more information on Armstrong Air Furnaces.