



Today's Hearth Appliances:

Clean Burning, Energy Efficient & Safe

Wood Stoves & Inserts

- In 1990 EPA introduced standards and test methods to the wood stove industry to help manufacturers develop clean burning wood stoves and inserts.
- This produced multiple new technologies that make today's wood stoves and inserts cleaner burning (better for air quality), more efficient (use less wood to heat the same space) and safer (less creosote build up in the chimney)

Today's Wood Stoves & Inserts

QUADRA-FIRE
NOTHING BURNS LIKE A QUAD



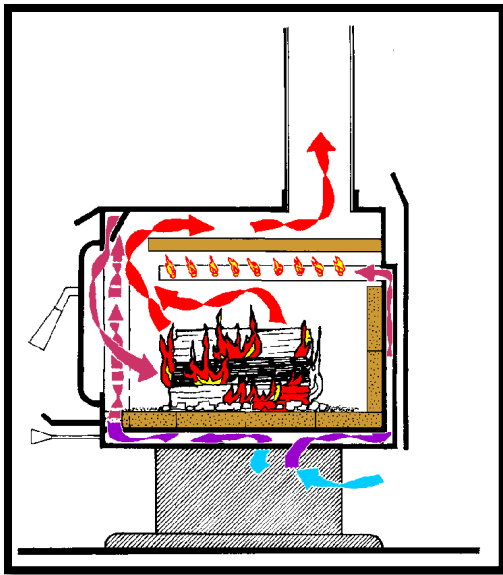
Today's Wood Stoves & Inserts



- Burn cord wood
 - Lowest fuel cost option
 - Renewable energy source
 - Best if 18% -20% moisture content
 - Requires wood to be cut, split, stacked and covered for 12 -18 months to dry
- Heat larger spaces
 - Smaller fireboxes, smaller footprint, tighter clearances
- 6" – 8" venting
 - Single wall or double wall off top of appliance
 - Class A, packed pipe through wall or ceiling
 - Stoves must vent vertically through the roof
 - Inserts vent vertically through a existing flue

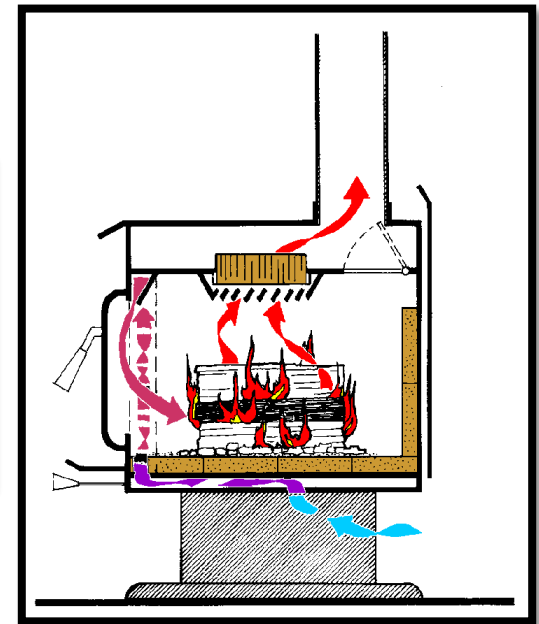
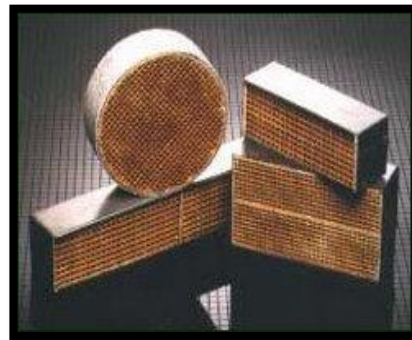
Wood Stoves & Inserts

- Secondary Combustion Technology
 - Re-burns smoke prior to it exiting the chimney
 - Mixes air with the heat and particulate matter of the smoke in multiple places to achieve a cleaner burn



Wood Stoves & Inserts

- Catalytic / Hybrid Combustion Technology
 - Re-burns smoke prior to it exiting the chimney
 - Smoke passes through a ceramic honeycomb catalyst
 - Smoke re-burns with secondary combustion then passes through a catalyst (Hybrid)



Wood Stove

- Automated Wood Stoves
 - Uses Secondary Combustion Technology
 - Plus, automatically adjust air controls using a wall mounted thermostat

SMART BURN TECHNOLOGY

SBT maintains the temperature of your room with a programmable thermostat while automatically adjusting your stove's air control.

1. PROGRAMMABLE THERMOSTAT

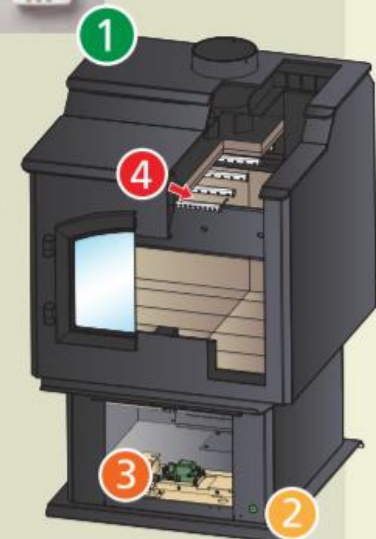
Maintains the temperature of your room.



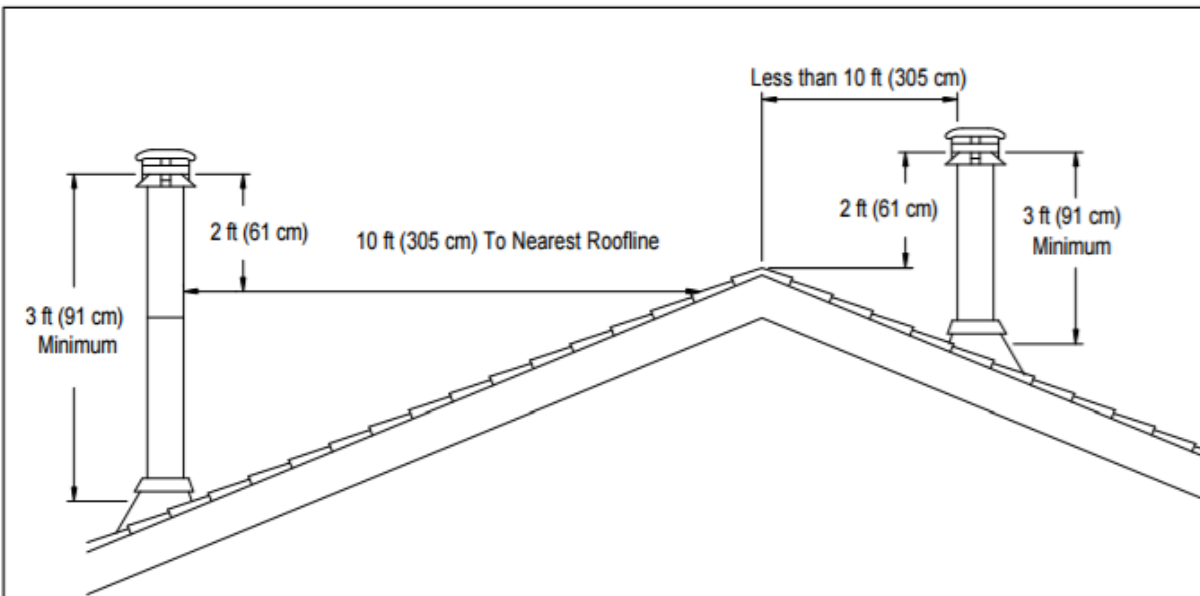
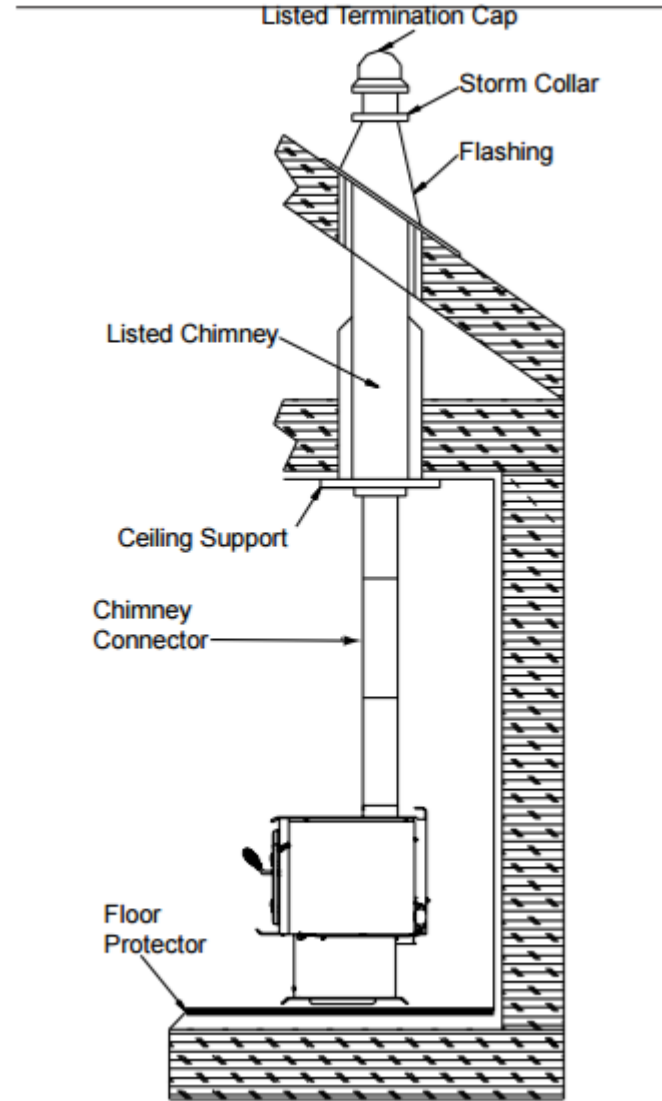
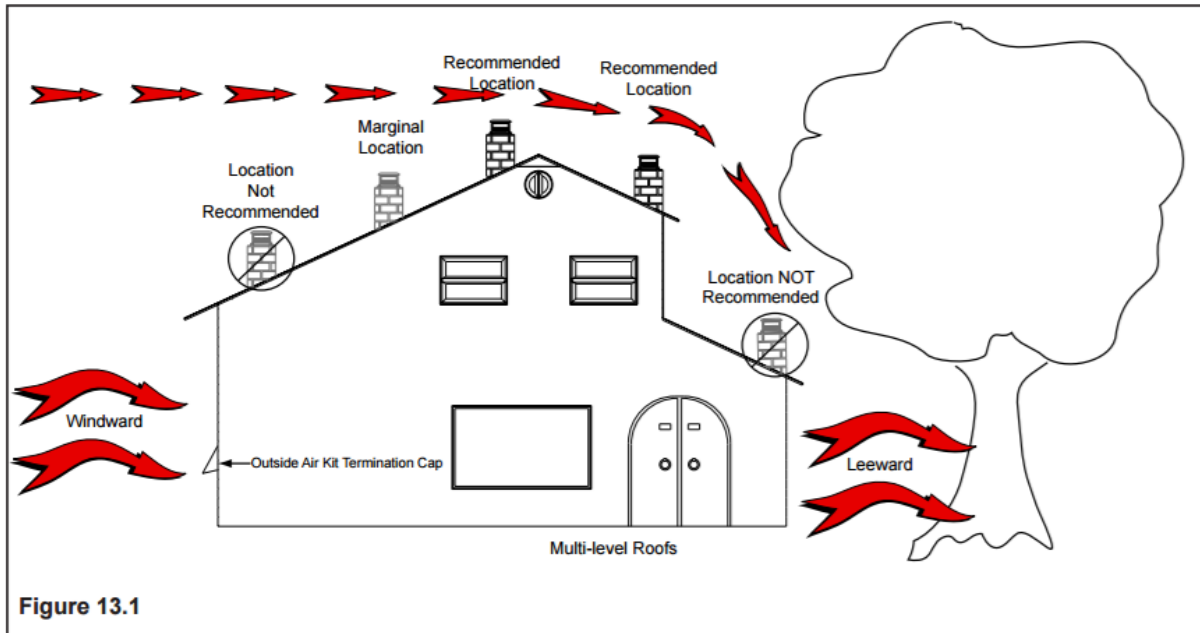
2. SBT ACTIVATION BUTTON Eliminates all manual air controls and tells you when to add more wood.

3. CONTROL BOARD Automatically adjusts the heat output level.

4. THERMOCOUPLES Provides control board with temperature readings.



Key is proper installation



Today's Pellet Stoves & Inserts

QUADRA-FIRE
NOTHING BURNS LIKE A QUAD



Today's Pellet Stoves & Inserts



- Burn Wood Pellets
 - Available in 40lbs bags (50 bags = 1 ton) or in bulk
 - On average a 1500 sq.ft home will use 2-4 tons per season
 - Prices range from \$160 - \$300 per ton
 - Renewable energy source
- Heat with a fan blowing the hot air through a heat exchanger into the room
- Easy to control heat output with thermostat
- Require electricity to operate
- 3" to 4" venting
 - Can vent horizontal through a outside wall or vertically through the roof

Today's Gas Stoves & Inserts



Today's Gas Stoves & Inserts

- Burn Natural Gas or Propane
 - Heat through radiant and optional fans blowing the hot air into the room
 - Easy to control heat output with remote control thermostat
 - Requires electricity to operate
 - Will not heat as big a space as wood stoves
 - Typically cost more to operate than wood and pellet due to cost of propane
 - 6" venting
 - Stoves can vent horizontal through a outside wall
 - Inserts vent vertically through an existing flue