Fuel your Profits with Wood
CONTROLLING BUSINESS COSTS
Managing fuel costs in the current climate of fluctuating fuel prices is difficult. Wouldn’t you like to reduce and control your fuel cost... and not just for this season, but for years to come? Convert your low cost wood to fuel and immediately reduce your operating costs, but more importantly, gain control over ever-unpredictable and rising fuel prices. Imagine, one ton of dry wood is the BTU equivalent of 85 gallons of heating oil and 115 therms of natural gas! Heating with wood is a proven investment for the long term.

DURABILITY
Since 1985, this proven design has been heating commercial and industrial buildings with wood. Designed to last, their compact all-steel construction is ruggedly built to withstand years of hand-firing. BCS fireboxes are engineered with extra thick steel end walls, which unlike refractory fireboxes, will not crack and break with repeated hand-firing. In addition, our unique cylindrical firebox design allows for natural expansion and contraction thereby reducing stress on the steel.

EFFICIENT COMBUSTION
When properly operated, our EPA-approved systems are virtually smoke-free with no impact on neighbors or the environment. BCS’ patented After Burner Chamber minimizes unsafe particle emissions by re-burning flue gases through four separate right angle turns, maximizing combustion. Smoke will not escape when loading wood either. An induced draft fan located at the top of the system creates negative pressure in the firebox causing smoke to go up the chimney when the loading door is open.

This feature enables many of our systems to be installed directly on the shop floor.

MAINTENANCE
BCS all-steel systems’ simple, straightforward design makes them easy to operate and maintain. Featuring front and rear access for cleaning, the system is easy to clean and operate.

DEPENDABLE SERVICE
These furnaces have been successfully field-tested for over 20 years and we stand by our product. In fact, we invite you to talk with one of our many satisfied customers to get a feel for the advantages of using a BCS Shop Heater.

LOW COST WOOD • SAFE, RELIABLE FUEL • LONG TERM COST CONTROL • LOWER STABILIZED ENERGY COSTS
SPECIFICATIONS
800,000 BTU PER HOUR
SHOP HEATER

FIREBOX
- 3/4” steel end walls
- 5/8” plate steel cylinder
- 36” diameter firebox x 60” length
- 35.34 cu. ft. volume
- 15” x 22” loading door
- Induced draft/forced draft fan with 1 HP motor
- 12” diameter stack

OVERALL DIMENSIONS
- Width: 48”  Length: 88”
- Height: 108”  Weight: 6,000 lbs.

HEAT EXCHANGER
- (32) 2” diameter tubes x 48” length
- (2) 17” x 17” clean-out doors
- 30” tube axial fan – 9,000 cfm@1/2 s.p., 2 HP

SAFE CLEARANCES
- Allow for at least 36” from sides, 36” from back
- 48” from front, 18” from flue connector
- 12” from ducting and plenums

SPECIFICATIONS
500,000 BTU PER HOUR
SHOP HEATER

FIREBOX
- 1/2” steel end walls
- 3/8” plate steel cylinder
- 30” diameter firebox x 57” length
- 21.5 cu. ft. volume
- 12” x 18” loading door
- Induced draft/forced draft fan with 1/2 HP motor
- 10” diameter stack

OVERALL DIMENSIONS
- Width: 40”  Length: 82”
- Height: 87”  Weight: 4,300 lbs.

HEAT EXCHANGER
- (20) 2” diameter tubes x 47.25” length
- 10” x 24” clean-out door
- 24” tube axial fan – 6,900 cfm@1/2 s.p., 1.5 HP

SAFE CLEARANCES
- Allow for at least 36” from sides, 36” from back
- 48” from front, 18” from flue connector
- 12” from ducting and plenums

SPECIFICATIONS
250,000 BTU PER HOUR
SHOP HEATER

FIREBOX
- 3/8” steel end walls
- 5/16” plate steel cylinder
- 26” diameter firebox x 40” length
- 11.2 cu. ft. volume
- 10.5” x 15” loading door
- Induced draft/forced draft fan with 1/2 HP motor
- 8” diameter stack

OVERALL DIMENSIONS
- Width: 34”  Length: 60”
- Height: 75 1/2”  Weight: 2,200 lbs.

HEAT EXCHANGER
- (17) 2” diameter tubes x 26” length
- 8” x 20 1/2” clean-out door
- 18” tube axial fan – 3,100 cfm@1/2 s.p., 3/4 HP

SAFE CLEARANCES
- Allow for at least 36” from sides, 36” from back
- 48” from front, 18” from flue connector
- 12” from ducting and plenums

All output ratings are based on burning dry wood.

CALL 508-798-5970 OR EMAIL INFO@BIOMASSCOMBUSTION.COM FOR MORE INFORMATION
FEATURES AND BENEFITS

DURABLE ALL-STEEL FIREBOX
- Rugged Steel Construction
  Won’t chip or crack like refractory brick
- Thickened Steel End Walls
  Built to withstand repeated hand-firing
- Cylindrical Design
  Accommodates heat expansion without stress to steel
- Patented After Burner Chamber
  • Multistage, maximum flue gas combustion
  • Virtually smoke-free operation

THE HEAT EXCHANGER
- Large Heating Capacity
  • Firebox functions as primary heat exchanger
  • Multiple tube secondary heat exchanger
- Convenient Cleanout Design
  Shortens maintenance time while enhancing combustion efficiency. Cleanout rod and brushes included.

HEATING AIR FLOW
- High Volume Heat Distribution Fan
- Maximum Heat Output To Facility

COMBUSTION AIR FLOW
- Induced Draft System
  • Powerful induced draft optimizes combustion
  • Safe and clean burning
  • Smoke and odor-free loading

EASE OF OPERATION
- Over Fire/Under Fire Valves
  Adjusts air flow for optimal combustion and heat management
- Intelligent Thermostat
  Automatically controls fan to conserve electricity
- Firebox Dual Temperature Monitor
  Monitors fuel loading requirements and stack temp for heat exchanger performance
- Twenty Year Time-Tested Design

OPTIONS
- AFS- Automated Feeding System
- Green Fuel Forced Draft Kit
- Over 20 Years of References Available

UL, CSA and Emission Test Results Available