

INTRODUCING A TRULY EFFICIENT FURNACE

In these times of high energy costs, it makes sense to use a heat source that utilizes a resource that is readily available and cost effective. The A-Maize-Ing Heat furnace burns shelled corn, a renewable local commodity. Corn costs less per BTU than other heat sources, plus benefits the local economy by generating business for farmers. The low cost of shelled corn, together with the efficient burning process of this furnace, produces an economical, ecologically safe home heating system.

BURNS CLEAN—NO MORE CREOSOTE

The A-Maize-Ing Heat furnace feeds the corn into the bottom of the combustion chamber, therefore providing the most efficient fuel consumption. The residual ashes (clinkers) are then spilled over the top of the combustion ring into the ash pan. This process, in effect, self cleans the combustion chamber.

THE FIRST UL LISTED

The A-Maize-Ing Heat furnace is the first shelled corn fired central furnace to be listed by Underwriters Laboratories. Using an auger drive to meter the fuel allows for precise control of combustion. The UL listing assures you of a safe and quality product.

SAFE, COMFORTABLE HEAT

Your home's thermostat electronically controls the fuel feed system to provide a constant temperature. The furnace will remain lit as long as the bin contains corn, and will shut down automatically if the fuel supply is depleted. The low stack temperature and absence of creosote buildup eliminates the possibility of chimney fires.

A BETTER ALTERNATIVE

The corn burning furnace has many advantages over wood heat. The large storage bin holds up to 10 days supply of fuel, which is automatically fed into the combustion chamber as needed. There's no need to load the furnace several times a day. The use of corn also eliminates the bark mess, insects, splinters, and storage and handling problems connected with the use of wood fuel.

QUALITY CONSTRUCTION

The A-Maize-Ing Heat furnace features quality construction for long-lasting performance. A one year warranty is included on parts and a five year limited warranty on the burner and heat exchanger.

WOOD PELLET MODEL

With the substitution of fire pots and feed auger motors the A-Maize-Ing Heat furnace can burn wood pellets as fuel.



SHELLED CORN FURNACE



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SPECIFICATIONS Model BM620-9

Dimensions—Furnace 53" H x 27" W x 46" D
 Dimensions—Bin 48" H x 36" W x 52" D
 Weight Furnace 440 lbs. Bin 50 lbs.
 Flue Pipe 6"
 Plenum Openings 14" square
 Heat Exchanger 14 gauge steel
 Fire Pot Cast Iron
 Air Filter 20 x 20 x 1
 Bin Capacity 14 bushels
 Combustion Blower 60 CFM
 Hot Air Blower 1/2 HP—3 speed
 BTU's 150,000
 Thermostat Controlled
 Clearance to Combustibles:
 Top 32" Front 30"
 Side 6" Rear 18"
 UL Listed
 Manufactured in right or left hand feed
 Wood Pellet Model also available

STORAGE BIN—Fourteen bushel capacity for up to 10-day operation on a single load.

FAN CONTROL—Adjustable with high limit safety.

BUILT-IN HEAT EXCHANGER CLEANER—Removes residue ash from heat exchanger elements.

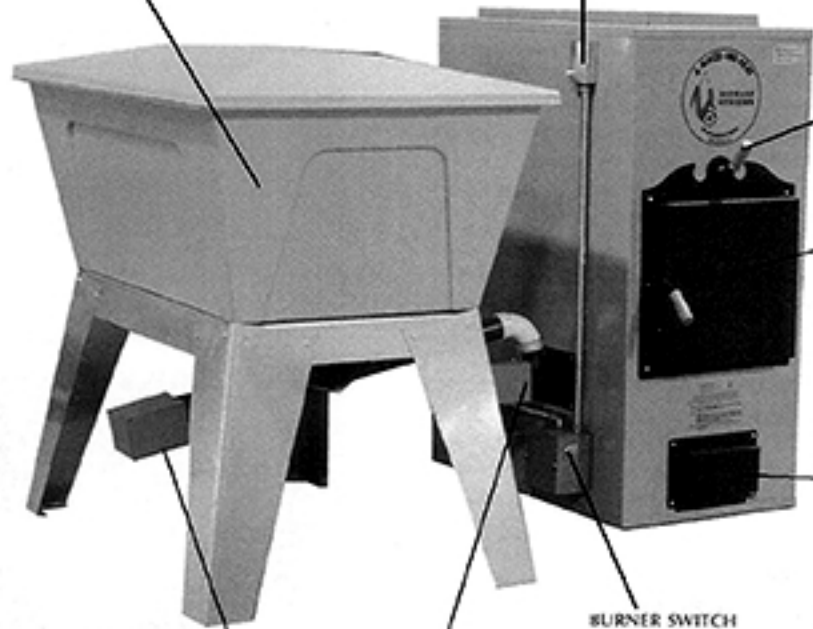
COMBUSTION CHAMBER—Induced air flow generates maximum efficiency. Burn 99% complete, leaving about one pound of residue from 100 pounds of corn.

ASH PAN—For easy removal of ashes.



HEAVY DUTY HEAT EXCHANGER—Made from 14-gauge steel for long life.

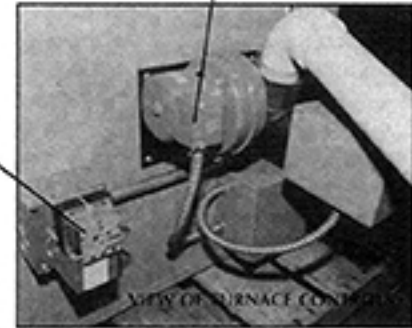
CAST IRON FIRE POT



BURNER SWITCH

FURNACE AUGER—Supplies fuel to fire pot.

CORN METERING AUGER—Transfers kernels from storage bin to combustion chamber.



COMBUSTION BLOWER

THERMOSTAT RELAY

A COST ANALYSIS

All heat output is measured in terms of BTU's. One BTU is the amount of heat needed to raise one pound of water one degree. Available heat per unit in alternative sources of fuel.

	1 BTU Value Per Unit	2 Units Required to Produce 18,000,000 BTU's	3 Current Fuel Price Per Unit	4 Total Cost To Produce 18,000,000 BTU's—Col. 2 x Col. 3
*DRY SHELLED CORN	9,000 Per Pound	2,000 pounds 56 lbs. per bushel= 36 bushels	\$2.50 per bushel	\$ 90
ELECTRICITY	3,412 per KWH	5,275 KWH	.08¢ per KWH	\$422
NATURAL GAS	1,000 per cubic ft.	18,000 cubic feet	.50¢ per 100 cu. ft.	\$ 90
FUEL OIL	140,000 per gallon	129 gallons	.85¢ per gallon	\$110
L.P. GAS	91,000 per gallon	198 gallons	.80¢ per gallon	\$158
WOOD (oak)	26,300,000	.7 cord (full)	\$115 per cord	\$ 80
COAL	13,000 per pound	1,384 pounds (.7 tons)	\$140 per ton	\$ 98

The above chart can be easily adapted to any price fluctuations by supplementing the applicable price in column 3.
 Note: Shelled corn can be purchased at reduced prices (i.e. moldy corn, scorched corn, etc.).
 The BTU content of shelled corn will vary between 8,000 to 10,000 BTU's per pound.
 Use corn at 14-15% moisture content for peak efficiency.



REPLACEABLE AIR FILTER

FURNACE BLOWER

VIEW OF BLOWER COMPARTMENT REAR OF FURNACE