

An Environmentally Friendly Alternative to Grinding



Benefits Include:

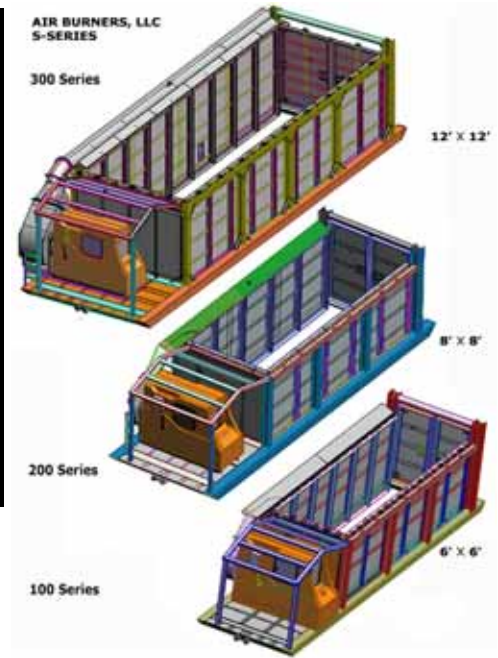
- Low capital investment, from \$64,000 to \$139,000
- High mass reduction 95 to 98% waste reduction (100 tons of wood = 2 - 5 tons ash) increases landfill life
- High through-put, up to 12 tons / 50 cubic yards per hour
- Dramatically reduced operating costs when compared to grinding
- Environmentally friendly. Fully tested by the USEPA and exceeds EPA regulations for Air Curtain Incinerators
- Ash can be used as a soil additive
- One operator can monitor and load one or two machines
- FireBoxes are fully self contained, no set up or assembly
- Energy Recovery is available on all FireBoxes





FireBox vs. Chipper Cost Comparison

S-SERIES SYSTEM COMPARISON					
Model	Overall Size L x W x H	Fire Box L x W x H	Weight lbs.	Fuel Consumption gal/hr*	Average Thru-put tons/hr*
S-327	37' 4" x 11' 10" x 9' 7"	27' 2" x 8' 5" x 8' 1"	54,600	3.5	12
S-220	30' 2" x 8' 6" x 8' 6"	19' 8" x 6' 2" x 7' 1"	35,000	2.5	8
S-116	23' x 7' 5" x 7' 8"	16' x 5' x 6'	26,200	2.5	6
S-111	19' x 7' 5" x 7' 8"	11' x 5' x 6'	22,500	2.5	4



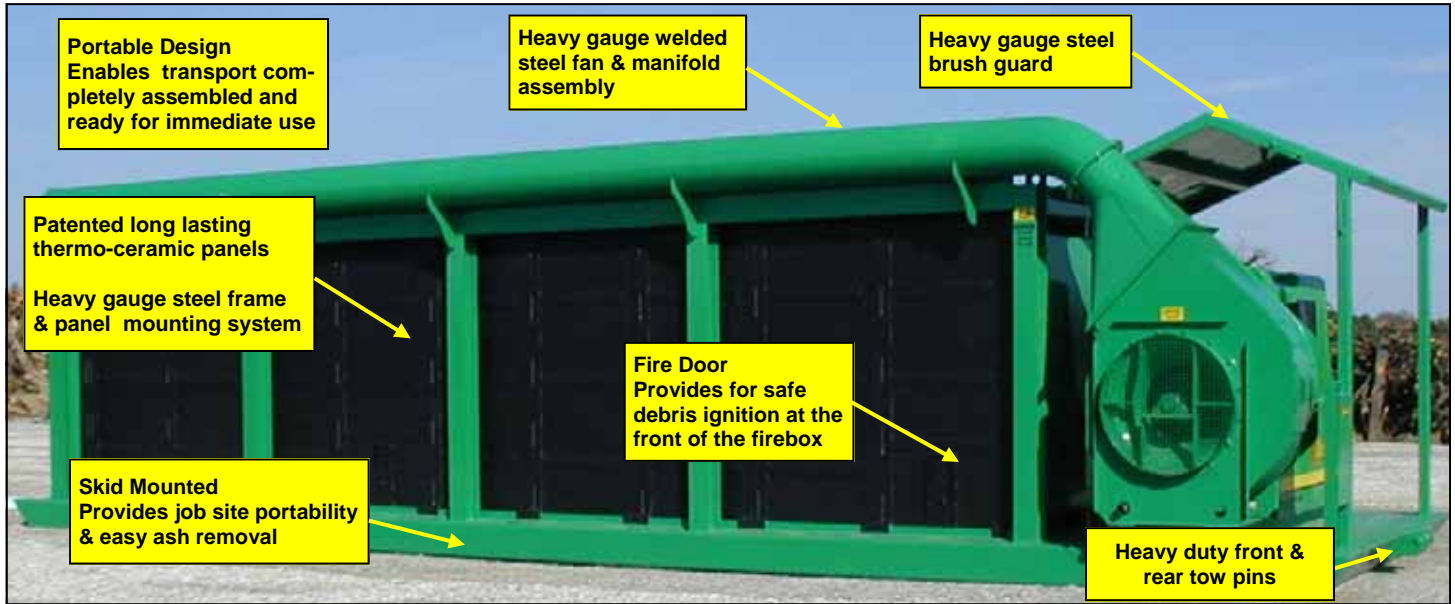
*) Approximate values. Achievable through-put depends on nature of waste stream and other factors.

Disposal of 100 Tons Wood Waste	S220 Air Curtain Burning	Chipping & Landfill Disposal	Direct Landfill Hauling & Disposal
Cost of Machine	\$98,700	\$220,000	-
OPERATING COSTS			
Fuel Cost (S220: 12.5 hrs; Chipper: 6 hrs)	\$109*	\$630	-
Maintenance and Repairs (S-220: \$0.60/hr; Chipper: \$16.00/hr)	\$8	\$96	-
Hauling of Residual to Landfill (50 Miles @ \$4.00/mile with 20-ton Dump Truck)	\$200 (1 load)	\$2,400 (12 loads)	\$5,000 (25 loads)
Tipping Fees at Landfill (\$30 per Ton)	\$90	\$2,940	\$3,000
Total Disposal Cost for 100 Tons	\$407	\$6,066	\$8,000

NOTES:

1. Chipper, approx. 400HP, Diesel fuel consumption: approx. 30 gal/hr. Diesel fuel at \$3.50/gal.
2. Chipping process and chip handling produces large amounts of particulate matter (PM) in the form of wood dust that can cause serious illness in exposed workers. Wood dust is a proven carcinogenic (cancer-causing). Chipping losses, mostly in form of wood dust, are approx. 2% or 2 tons in this example. Only 98 tons of wood chips are deposited into the landfill.
3. Air Curtain Burner residual is 3 tons of ash, hauled by 1 truck, but is usually land-applied on site; Chipper residual yields no weight reduction, but does provide significant volume reduction. In this example, waste is hauled by at least 12 trucks, each carrying approximately 22 cubic yards or 5 – 6 tons.
4. The S-220 is a medium size above ground refractory walled FireBox. Larger and smaller models and trench burners are also available. See www.AirBurners.com

v. 11G



Portable Design. No disassembly required for transportation. Ready for immediate use at the time of delivery.



Engine, fuel system and all mechanical components are protected by a fire retardant fiberglass cowling. Engine controls, over center clutch lever and gauges are located on the side of the cowling for easy access.

Principles of Operation

The Waste is the Fuel

AIR BURNERS, LLC PRINCIPLE OF AIR CURTAIN INCINERATION
 1=Air Manifold
 2=Firebox Refractory Wall
 3=Wood Waste or Wood Fuel
 4= Air Curtain (left to right)
 5=Smoke (PM)

1. High velocity curtain (4) traps particles under the curtain
2. Particles under curtain (5) are reburned





Security Doors
1/4" steel plate secures engine deck



Ember Screen



Off Road Mobility
8" of ground clearance
Towable with tractor, loader, excavator, etc.
Quick change, 10 minutes
Aides with ash removal

Waste Heat Recovery
Available on all
FireBoxes
(single panel shown)



Electric Drive
AC 240/360/480 (3-Phase)
50 or 60 Hz
Variable Frequency Drive
Completely programmed
Simple controls; on/off & fan speed



Visit our website at
www.AirBurners.com