

## An Environmentally Friendly Alternative to Grinding



### Benefits Include:

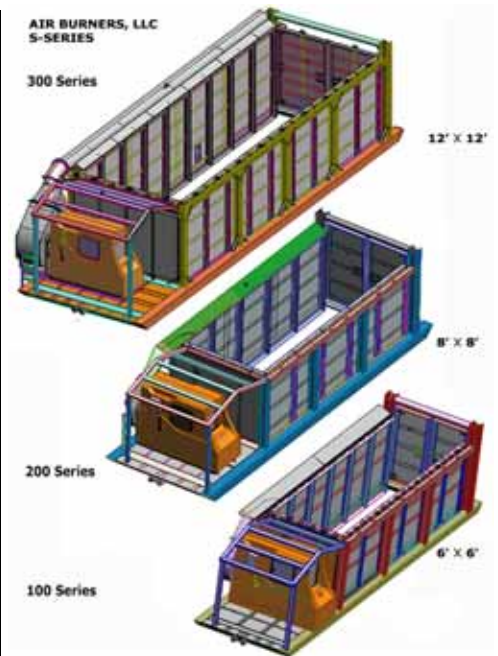
- Low capital investment, FireBoxes price range, from \$59,000 to \$127,000
- High mass reduction 95 to 98% waste reduction (100 tons of wood = 2 - 5 tons ash) increases landfill life
- High through-put, up to 10 tons/50 cubic yards per hour
- Dramatically reduced operating costs when compared to grinding
- 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"	52,000	3.5	6-10
S-321	31' 4" x 11' 10" x 9' 7"	21' 2" x 8' 5" x 8' 1"	46,000	3.5	5-8
S-220	30' 2" x 8' 6" x 8' 6"	19' 8" x 6' 2" x 7' 1"	33,500	2.5	3-6
S-217	27' x 8' 6" x 8' 6"	16' 5" x 6' 2" x 7' 1"	30,000	2.5	2-5
S-116	20' x 7' 5" x 7' 8"	16' x 5' x 6'	24,000	1.5	1-4
S-111	16' x 7' 5" x 7' 8"	11' x 5' x 6'	21,300	1.5	0.5-2



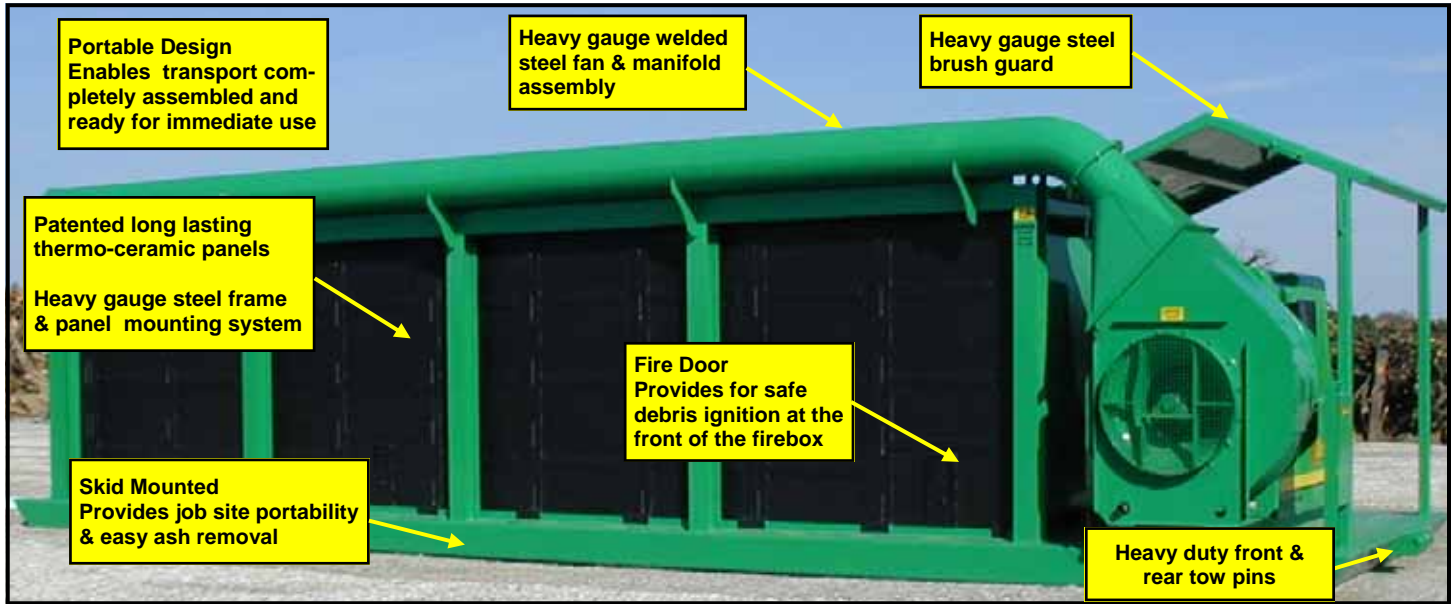
\* Approximate Values

Disposal of 100 tons wood waste	S220 Air Curtain Burning	Chipping & Landfill Disposal	Direct Landfill Hauling & Disposal
<b>Cost of Machine</b>	\$89,860	\$219,370	-
<b>OPERATING COSTS</b>			
<b>Fuel Cost</b> (S220: 13 hrs; Chipper: 6 hrs)	\$98	\$540	-
<b>Maintenance and Repairs</b> (S-220: \$0.60/hr; Chipper: \$16.00/hr)	\$8	\$96	-
<b>Hauling of Residual to Landfill</b> (50 Miles @ \$4.00/mile with 20-ton Dump Truck)	\$200 (1 load)	\$2,400 (12 loads)	\$5,000 (25 loads)
<b>Tipping Fees at Landfill</b> (\$30 per Ton)	\$90	\$2,940	\$3,000
<b>Total Disposal Cost for 100 Tons</b>	<b>\$396</b>	<b>\$5,976</b>	<b>\$8,000</b>

**NOTES:**

1. Chipper, approx. 400HP, Diesel fuel consumption: approx. 30 gal/hr. Diesel fuel at \$3.00/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](http://www.airburners.com)





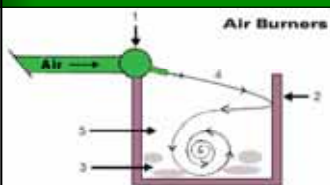
Portable Design. No disassembly required for transportation. Ready for immediate use at the time of delivery.



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



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

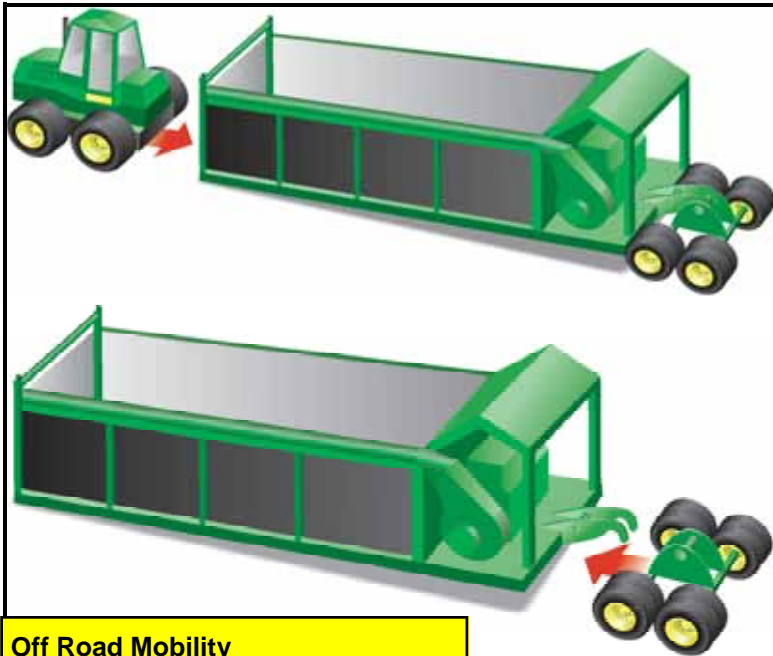




**Security Doors**  
1/4" steel plate secures engine deck



**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](http://www.airburners.com)

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