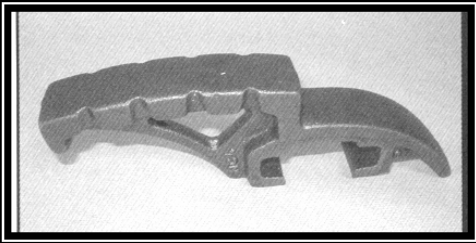


# Finger “Aire” Grates for Travagrate Stoker



## Operating Problem

When either coal or biomass is stoker fired, the ash constituents of the fuel may cause the slagging temperatures of the ash to become extremely low. This can result in a molten lava-like substance that plugs the combustion air orifices of the grates impacting stoker operation in two ways:

1. Sub-optimum undergrate combustion air control.
2. Overheated grate sections causing warping, cracking, and ultimate failure.

## Solution

Keystone Energy has designed a Finger “Aire” Grate cast from the same high-strength ductile iron as our full-size 12” and 15” stoker grates – producing a component able to withstand high temperatures and continuous thermal cycling.

This 1½” wide finger “aire” grate has been engineered to replace the existing full size grates – adding no additional weight!

The replacement grates utilize the side spaces between the grates as the orifices for the combustion air. The narrow width of each finger grate enhances heat transfer and cooling by the combustion air, resulting in reduced metal temperatures.

## Benefits

- 4 Eliminates air orifices susceptible to pluggage
- 4 Designed for original grate-to-stoker weight ratio
- 4 Stoker components not overloaded
- 4 Improved temperature resistance with high-strength alloy ductile iron
- 4 Interchangeability with original grates

For more information,  
please contact:

Keystone Energy A/S  
Div of Erie Power Technologies, Inc.  
5300 Knowledge Parkway  
Erie, PA 16510-4660

Phone 814.452.6421  
Fax 814.897.1089

[www.keystone-energy.com](http://www.keystone-energy.com)

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1-800-322-5995