Contact Details:

S & S Protection
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An Age Old Problem in Soot / Ash Removal

The problem of keeping heated surface free from soot and ash is as old as the method of conserving heat by means of heat exchangers. The greater the ash content of the fuel used the greater the volume of sodium or other substances with low melting point that this ash contains, the worse this problem becomes.

The conventional way of cleaning and keeping clean the boilers and dust collectors is with the use of steam, water or compressed air or simply by vibrators or shot cleaning. These methods can be applied either manually or mechanically.

Sonic Power for Fluidisation of Soot.

Sonic cleaning method is based on kinetic activation of dust particles by sound waves, with fundamental frequencies usually between 150-400 Hz. These frequencies carry sound very effectively in confined spaces and gives the best fluidisation effect for the soot or dust particles. These sound waves are created by special shaped sound generators which are designed to withstand temperature of up to 1500 degrees C.

The sound generator send out powerful sound signals, of low frequency and high intensity, at suitable intervals, inside the boiler or separators which causes the soot and other deposits to loosen and break away the bonds from the heated surfaces. These loosened deposits may then drop down into the collection hoppers or be carried away with the flue gas.

The main feature of BEP fully automatic sonic cleaning systems is that this is an on-line and continuous cleaning systems.

Operation

The BEP Sonic generators are operated on compressed air and controlled by mean of a solenoid valve and a microprocessor based control systems. The normal isolation cycle is 10-12 seconds after a regular interval of 30-90 minutes, depending on actual soot load. The BEP sonic generator gives an excellent and evenly distributed cleaning effect. In addition, due to it's reverberation it cleans the surfaces against which it is reflected, as well as the small openings and flue gas ducts.

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### Technical Specification

<table>
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<tr>
<th>Model BEPS</th>
<th>1001</th>
<th>1002</th>
<th>1003</th>
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<th>2003</th>
<th>3001</th>
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<td>Required Feed Air Flow</td>
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<td>Feed Air Consumption</td>
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*In continuous interest of product development Design & Material is subject to change without notice.*
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