PRESS RELEASE

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SMART*flow*™ Flow Modeling Improves Performance

Hamworthy Peabody Combustion announces the completion of their new SMART*flow*™ Technology Center at their Shelton, Connecticut location. The 1,000 square foot facility has been utilized for new product development, analysis of new installations, and improvements of existing applications for end-users.

The most common application of flow modeling is combustion air flow. Burner design and performance is always based on three assumptions; flow modeling assures that what actually takes place will correspond to these assumptions:

- Each burner (in multi-burner systems) gets equal amounts of air flow.
- Air enters the burner evenly around the periphery of the burner.
- Air enters the burner radially, that is, with no tangential components.

Based on SMART*flow*™ flow modeling analysis, strategically placed baffles and diverters can be designed to avoid in advance, or solve existing, problems resulting from these assumptions not holding true.

- Eliminate vibration
- Reduce emissions
- Reduce CO_2 footprint.
- Reduce Excess Air/Increase Efficiency
- Decrease power utilization costs: fan power and static requirements
- Reduce maintenance costs due to vibration, flame impingement, and incomplete combustion.
- Increase turndown
- Increase capacity

Applications analyzed include:

- Multi-Burner Turbo-Furnace
- Multi-Burner Front-Fired
- Tangentially-Fired
- Single-Burner Package
- Air Heaters
- Fluid-Bed Boilers

In addition to combustion air flow, modeling is useful in analyzing flue gas recirculation systems, secondary air systems, coal pipe and fuel distribution systems, stack modeling, etc.

An ISO 9001:2000 Approved Company

For more information about our products and services visit www.hamworthy-peabody.com
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