

putting the heat to enclosure problems

Build as high as you want

● Furnace enclosure problems are simplified when engineers can let flexibility work for them in the design of arches and walls.

For example, enclosures can be built to any height, width, or shape (using the principle of the modern skyscraper). Refractory thicknesses are set by service conditions, not proportioned to the heights of the walls. Many installations have thin walls in cool areas and thick walls in hotter portions.

Cumulative loading is out; unit-suspension means that no brick bears more than its own weight. Previously, the resulting load of brick piled upon brick made the bottom of the wall (where temperatures are usually highest) the most vulnerable.

Applications? wherever heat must be controlled—for boiler settings in power plants; for oil stills and cat crackers in refineries; for all kinds of driers and kilns and metallurgical furnaces.

No cumulative loading

In a nutshell, the rest of the story is as follows:

1. Walls and arches feature "built in" stability; any portion can be removed for replacement without weakening adjacent areas. Design provides for thermal expansion.
2. Refractories are easy to replace without disturbing undamaged sections. Maintenance is simple, quick, economical.
3. Construction is air tight; heat losses are reduced. Maximum efficiency can be maintained and fuel used to full advantage.
4. B-I engineers co-ordinate enclosure requirements with problems of temperatures, types of firing equipment, and slagging and erosion possibilities.

For more information, write Detroit direct, or contact one of the offices listed below.

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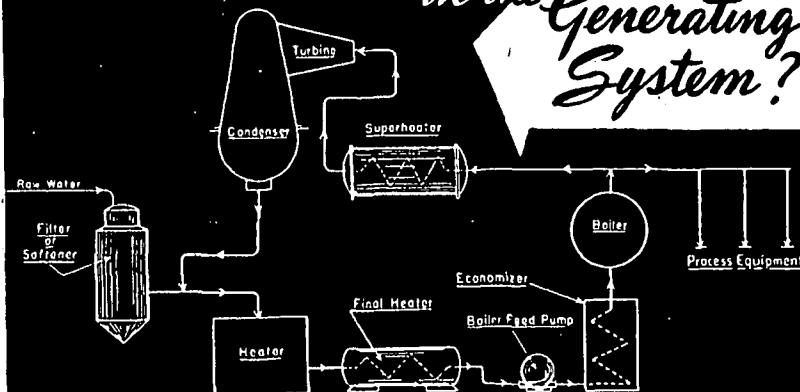
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