

Advantages of the Fluidbed Furnaces Arcon supplies

- **No Tiles** – The interlaced distribution manifold provides excellent fluidization uniformity without the problems of high maintenance and high capital cost ceramic tiles.
- **No Curtains** – The “labyrinth seal” threading slot reduces heat loss, lowers maintenance costs and permits fast wire threading.
- **Improved Combustion with “Gas Injection”** – The fuel is injected into the burner piping directly under the bed. This eliminates “flashback” problems that are known to damage components on other fluidbeds.
- **Improved Shelf Design** – The stainless steel shelf (covering the top of the retort wall) is built in individual overlapped and bolted sections. This greatly reduces the heat distortion and warping that plagues the older designs.
- **Rugged Wire Protection Devices** – The burner tubes and thermocouples are fully protected against damage that can be caused by running wires.
- **Two Pilots per Zone** – This adds safety and stops unwanted furnace zone shutdowns.
- **Pilot Cooling** – Improves flame stability and increases pilot tube life.
- **Better Sand Return** – The double sand return system uses specially designed eductors, vortex elbows and diffusion boxes to effectively convey the sand. High wear resistant components and a detailed system design have minimized maintenance requirements. This greatly improves performance and the life of the system in comparison to our competitor’s equipment.
- **Bottom Entry Furnace Piping** – In the rare event of burner maintenance, the bottom entry piping configuration permits easier access without having to disassemble the furnace walls.
- **Compact Side Mounted Air & Gas Racks** – This provides easier access to the components and a “cleaner” piping arrangement around the furnace (no large platforms at the ends of the furnace).
- **Visual Flow Indication** – We provide differential pressure gage board that gives a continuous readout of both air and gas flows to each zone. The operators can tell at a glance the fluidizing rates of the furnace.
- **Pneumatic End Doors** – These doors open quickly to allow the operator a full view visual check of the inside of the furnace.



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