

THERMAL SAND RECLAMATION

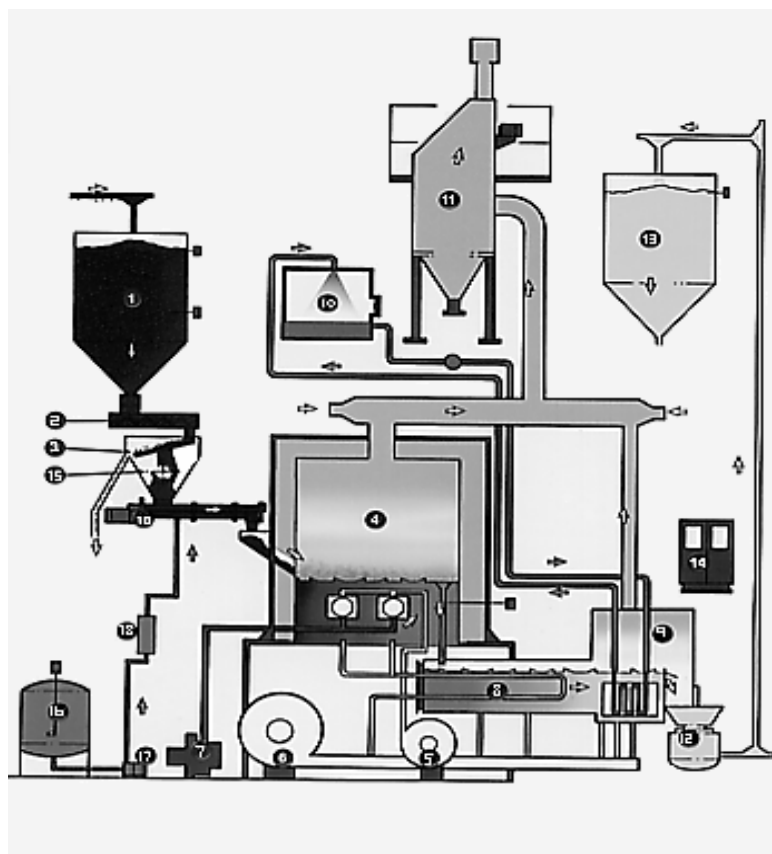
The range of gas fired thermal sand reclamation units are designed to provide the foundryman with a compact system to operate at maximum economy. The heat recuperation system and the PLC control provide a reliable and cost effective operation that will process most types of chemically bonded sand.

SPECIFICATION OF PLANT

- 1.. Sand feed silo, receiving sand from mechanical sand reclamation plant.
- 2.. Screw feeder with variable speed drive.
- 3.. Vibrating screen to remove oversize materials.
- 4.. Furnace unit, fully insulated, with nozzle mix burners and all gas control valves.
- 5.. High pressure fan for combustion air.
- 6.. Fluidising fan for furnace, primary heat exchanger and cooler/classifier
- 7.. Booster fan for gas supply.
- 8.. Primary heat exchanger, stainless steel construction to pre-heat furnace fluidising air.
- 9.. Fluid bed cooler/classifier to cool reclaimed sand and remove unwanted fines.
- 10.. Water cooling system with evaporative cooling tower, circulating pump, valves and pipework.
- 11.. Dust collection system with ducting, control valves, high temperature filter unit, fan and exhaust stack.
- 12.. Pneumatic sand transport system
- 13.. Storage silo for processed sand.
- 14.. Control panel with plc for fully automatic 24 hour/day operation

A.. For Ferrous applications

- 15.. Rotary magnetic separator



OPTIONS

B.. For processing of alkaline phenolic sand

- 16.. Holding tank with stirrer for additive.
- 17.. Dosing pump for additive.
- 18.. Mass flow meter to ensure continuous accurate flow
- 19.. Continuous mixer for additive and sand.

PROCESS LAYOUT

MODEL	THROUGHPUT RANGE (Kgs/Hour)
HPG250	250-350
HPG 500	500-750
HPG 1000	1000-1250
HPG2000	2000-2400