

Cyclone Furnace

Design features:

Commercially built in sizes from 6 to 10 ft (1.8 to 3 m) in diameter; water-cooled tangent tube, seal welded construction; three general boiler arrangements — single wall firing with screen tubes, open furnace single wall firing with close-coupled target wall, and open furnace opposed wall firing. Various burner types are available. Cyclone-equipped units include Universal Pressure (UP), Radiant Boilers (RB), and Stirling boilers.

Standard maximum heat input range:

150 to 425+ MBtu/h
(44 to 125+ MWt).

Fuel:

Burns bituminous, subbituminous and lignite coal grades suitable for cyclone operation, fuel oil and natural gas; co-firing experience includes utilizing tire derived fuel (TDF), refuse derived fuel (RDF), paper mill sludge, wood, petroleum coke, and coke oven gas.

