The FireBox LPD UF design is suitable for applications to produce low pressure steam or hot water in ranges from 3,450 – 20,700 lb/hr (3.4 mmBTU – 20 mmBTU) output at 15 PSI steam or 30 PSI hot water. This system is designed by HBC to combine the best technologies from the “old school” of biomass combustion and the latest advanced combustion control technologies. This combination enables these systems to provide a flexible and reliable operation utilizing a wide range of biomass waste with moisture contents ranging from 8 – 50% and requiring minimal fuel preparation. Ash removal is a manual operation. The boiler vessel is a three-pass firetube / firebox design that inherently provides an extended water membrane in the furnace area greatly reducing the amount of refractory required.