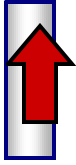


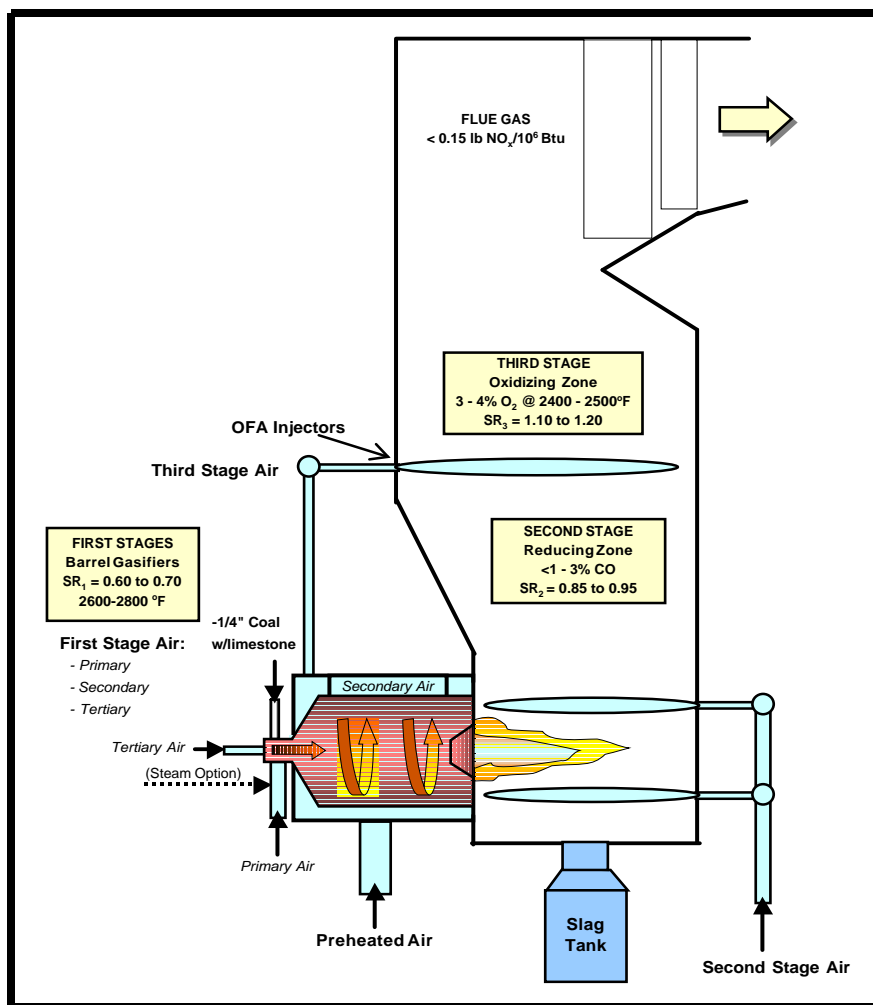
# ClearStack



## Stage3-Cyclone™ Low Cost Technique for Ultra - Low NO<sub>x</sub> Emissions

ClearStack Combustion Corporation is developing a three-stage combustion technique called the Stage3Cyclone™. The technology is based on the use of three stages of combustion air, the third of which is overfire air (OFA). Limestone is added with the coal to maintain good slag fluidity. This technique will effectively reduce NO<sub>x</sub> emissions from cyclone units at very low capital and operating costs, offering the performance of Selective Catalytic Reduction (SCR) at a substantially lower cost.

- Expected Performance**
- NO<sub>x</sub> Emissions < 0.15 lb /10<sup>6</sup> Btu



ClearStack is currently seeking an electric utility partner to demonstrate the technology. In 2000, ClearStack was granted its first patent for the three-stage combustion technique for cyclone-fired units, U.S. Patent # 6,085,674. In 2001 a second continuation-in-part patent was granted, U.S. Patent # 6,325,002.

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