

Combustion Analysis

Reading	Levels	Possible Causes
O ₂	80% = 6-9% 90% = 3-9%	LOW = Lack of combustion air, too much fuel, restricted heat exchanger or vent pipe. HIGH = Excess combustion air, lack of fuel.
CO(AF)	>400ppm - Shutdown Unit <100ppm - Passes <50ppm - Good	HIGH = Excess fuel, low combustion air, clogged heat exchanger or vent pipe.
CO(Room)	<2ppm - Good	Check in supply and return trunks, any reading greater than 2ppm or any rise in CO across the furnace, is of great concern.
STACK TEMP	80% = 325 - 425 90% = 90 - 120	LOW = Low Fuel, excess blower speed. HIGH = Excess Fuel, slow blower speed.
DRAFT	Nat = -.02" to -.04" wc	Improper vent sizing, excess elbows or length, blocked vent, excess combustion air.