

## RECOMMENDED BOILER OPERATING COMBUSTION PARAMETERS

Boiler Series	Draft @ Boiler Outlet (i.w.c.)	Overfire Pressure (i.w.c.)	High Fire			
			CO2 (%)	O2 (%)	CO (ppm)	Smoke #
<b>ATMOSPHERIC NATURAL GAS-FIRED BOILERS</b>						
<i>CL/CLM</i>	-0.02 to -0.04	n/a	7.5 to 9.0	7.5 to 4.8	< 400	0
<i>F</i>	<i>-0.02 to -0.04</i>	<i>n/a</i>	<i>7.5 to 8.5</i>	<i>7.5 to 5.8</i>	<i>&lt; 400</i>	<i>0</i>
K	-0.02 to -0.06	n/a	8.0 to 9.5	6.7 to 4.0	< 400	0
<b>FORCED DRAFT NATURAL GAS-FIRED BOILERS</b>						
AB	+0.25 to -0.06	0.00 to +0.80	9.0 to 10.0	4.8 to 3.0	< 400	0
<i>CL/CLM</i>	0.00 to -0.04	-0.02 to +0.02	8.5 to 10.0	5.8 to 3.0	< 400	0
<i>D</i>	<i>-0.01 to -0.04</i>	<i>-0.02 to +0.04</i>	<i>7.5 to 9.5</i>	<i>7.5 to 4.0</i>	<i>&lt; 400</i>	<i>0</i>
DR	+0.10 to -0.06	0.00 to +0.80	9.0 to 10.0	4.8 to 3.0	< 400	0
EB	+0.10 to -0.10	0.00 to +1.00	9.0 to 10.0	4.8 to 3.0	< 400	0
HE-AB	0.00 to -0.06	+0.50 to +1.00	9.0 to 10.0	4.8 to 3.0	< 400	0
<i>HECL/HE-CLM</i>	0.00 to -0.06	-0.02 to +0.20	8.5 to 10.0	5.8 to 3.0	< 400	0
<i>HED</i>	<i>-0.01 to -0.04</i>	<i>-0.02 to +0.04</i>	<i>7.5 to 9.5</i>	<i>7.5 to 4.0</i>	<i>&lt; 400</i>	<i>0</i>
HE-RV	+0.10 to -0.10	+0.50 to +1.50	9.0 to 10.0	4.8 to 3.0	< 400	0
RV	+0.50 to -0.10	0.00 to +1.00	9.0 to 10.0	4.8 to 3.0	< 400	0
RW	+0.50 to -0.10	0.00 to +1.00	9.0 to 10.0	4.8 to 3.0	< 400	0
TF	+0.20 to -0.10	+3.00 to +3.50	7.5 to 9.0	7.5 to 4.8	< 50	0
<b>FORCED DRAFT #2 OIL-FIRED BOILERS</b>						
AB	+0.25 to -0.06	0.00 to +0.80	11.5 to 12.5	5.6 to 4.2	< 400	0
<i>CL/CLM</i>	0.00 to -0.04	-0.02 to +0.02	10.0 to 12.0	7.6 to 5.0	< 400	0
<i>D</i>	<i>-0.01 to -0.04</i>	<i>-0.02 to +0.04</i>	<i>10.0 to 12.0</i>	<i>7.6 to 5.0</i>	<i>&lt; 400</i>	<i>0</i>
DR	+0.10 to -0.06	0.00 to +0.80	10.0 to 12.0	7.6 to 5.0	< 400	0
EB	+0.10 to -0.10	0.00 to +1.00	11.5 to 12.5	5.6 to 4.2	< 400	0
RV	+0.50 to -0.10	0.00 to +1.00	11.5 to 12.5	5.6 to 4.2	< 400	0
RW	+0.50 to -0.10	0.00 to +1.00	11.5 to 12.5	5.6 to 4.2	< 400	0

*Obsolete Models*