



PUREFIRE[®] PF & PFW Boilers

Supplement to Installation, Operation & Maintenance Instructions

⚠ NOTICE

These instructions are intended to supplement the Peerless[®] PureFire[®] Installation, Operation & Maintenance Manuals (PF8080, PF8248 & PF8234) replacing Tables 5.4 and 12.2 in all documents.

⚠ WARNING

Any adjustments are to be made by a qualified contractor using a combustion analyzer intended for use with gas-fired heating equipment. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life.

Stop! Read these instructions or the appliance warranty will be void!


Table 5.4: Recommended Combustion Settings

	Natural Gas		Propane (LP)	
	Low Fire	High Fire	Low Fire	High Fire
Carbon Monoxide (CO)	< 75 ppm	< 150 ppm	< 75 ppm	< 150 ppm
Carbon Dioxide (CO₂)	8.8% to 11.5%	8.5% to 9.7%	9.8% to 12.5%	9.5% to 10.5%
Excess Oxygen (O₂)	0.7% to 5.4%	3.9% to 6.0%	1.9% to 6.0%	4.9% to 6.5%
Excess Air	3.2% to 31.2%	20.1% to 35.4%	8.9% to 35.9%	27.6% to 39.8%

Notes:

- 1) Combustion measurements should be taken during steady state operation. Values during significant transitions may exceed the numbers shown.
- 2) Conversions to excess oxygen and excess air are based on natural gas consisting of 100% methane (CH₄) or 100% propane (C₃H₈)

Table 12.2: Boiler Ratings

SERIES PEERLESS [®] PUREFIRE [®] BOILER RATINGS					
Series Peerless [®] PureFire [®]					
Boiler Model	Input (MBH)		Heating Capacity (MBH)	Net Rating (MBH)	AFUE (%)
	Min.	Max.			
PF-50	16	50	47	41	95.0
PF-80	20	80	75	65	95.0
PF-110	27.5	110	103	90	95.0
PF-140	35	140	131	114	95.0
PF-200	42	199	185	161	95.0
PF-210	42	200	195	170	95.1
			Gross Output (MBH)	Net Rating (MBH)	Thermal Efficiency (%)
PF-399	80	399	373	324	93.4



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