19HE SERIES BOILER

INSTALLATION AND OPERATING INSTRUCTIONS

BECKETT OIL BURNERS

Boiler Model	Beckett Burner Model Number	Spec Number	I=B=R Burner Input GPH	A.T.C.	Nozzle LO/HI	Head Setting	Pump Pressure PSI LO/HI	Air Adjustment		Insert	Pitch	Burner
								LO Fire/ Shutter	HI Fire/ Band	Depth	i itori	Motor HP
19HE-S/W-3	CF500	SM1002	2.6	CF60KK	1.75	2.0	180	4.00	0.00	1-3/4	2	1/3
19HE-S/W-4	CF500	SM1001	3.6	CF60KK	3.00	5.0	140	8.00	0.00	1-3/4	2	1/3
19HE-S/W-5	CF800	SM3001	5.0	CF60KH	4.00	2.0	150	10.00	4.00	4	2	1/3
19HE-S/W-6	CF1400	SM3101	6.5	CF66KD	4.00	2.5	150/250	2.75	4.00	4	2	1/2
19HE-S/W-7	CF1400	SM3102	7.9	CF66KD	4.50	3.5	150/300	3.50	6.00	4	2	1/2
19HE-S/W-8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19HE-S/W-9	CF2300	SM3202	10.8	CF66KG	6.50	0	175/275	2.25	2.75	4	2	3/4
19HE-S/W-10	CF2300	SM3202	12.2	CF66KG	7.00	0	175/275	2.50	3.25	4	2	3/4
19HE-S/W-11	CF2500	SM3301	13.6	CF102KP	5.00/2.75	0	300/300	1.50	2.50	4-1/2	2	2
19HE-S/W-12	CF2500	SM3302	15.0	CF102KP	5.50/3.25	0	300/300	1.75	3.00	4-1/2	2	2

Nozzle: CF500 - 3 section 60ES Hago

CF500 - 4 section 45B Delevan CF800 - 5 section 45B Delevan CF1400 - 6 & 7 section 45P Hago CF2300 - 9 & 10 section 45P Hago CF2500 - 11 section 45B Delevan CF2500 - 12 section 45P Hago

Motor Current: 1 phase, 115/230, 60 Hz

Option for: 3 phase, 208-230/460V, 60Hz (for CF1400 and above only)

THESE INSTRUCTIONS TO BE LEFT WITH THE BOILER FOR REFERENCE





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BURNER FIRESIDES MUST BE CLEANED AT LEAST ANNUALLY

The following safety checks must be made at initial start-up and on an annual basis thereafter:

High Limit Operation (MR)		Set at		°F
Operating Limit Operation		Set at		°F
Low Water Cutoff				
Backup Low Water Cutoff				
Service Switches				
All additional limits				
Safety Valve Capacity*	MBH (LBS/HR)			
Burner Motor Amps				
Flame Failure				
CO ₂	%			
Smoke (oil)				
Carbon Monoxide (CO)	ppm		Boiler Room Draft	
Draft in Smokehood	in. wc		negative	
Draft Overfire**	in. wc		positive	
Stack Temperature	<u>°F</u>		balanced	
Efficiency	%			
Combustion Makeup Air***				

Proper operating and safety instuctions must be given to boiler operator.

^{*} Safety valve capacity must be at least equal to gross output of boiler.

^{**} Draft should be adjusted to .05" to .1" wc positive pressure in smokehood. If vent system is under positive pressure, it must be gas tight.

^{***} There must be at least 10 sq. in. of free area per gallon of oil burned. When louvers are used, double the figure listed above.