19HE SERIES BOILER CARLIN OIL BURNERS SETUP INFORMATION

	_		I=B=R	Actual					Prelim	inary
Boiler Model Number	Burner Model Number	Burner Motor HP	Burner Input GPH	Fuel Delivery GPH (Max.)	Nozzle Size & Type		Nozzle Mfg.	Pump Pressure	Head Setting	Air Setting
19HE-S/W- 3	201 CRD-PA	1/4	2.6	2.45	2.00	70 B	Delavan	150	7/16	25%
19HE-S/W- 4	301 CRD-PA	1/4	3.6	3.37	2.75	80 SS	Hago	150	5/16	50%
19HE-S/W- 5			5.0	4.90	4.00	60 PLP	Monarch	150	13/16	100%
19HE-S/W- 6			6.5	6.50	3.75	60 P	Hago	100/300	1/16	5/16*
19HE-S/W- 7	702 CRD	1/2	7.9	7.80	4.50	60 P	Hago	100/300	3/16	1/2*
19HE-S/W- 8			9.3	9.5	5.00	60 P	Hago	100/300	3/8	7/16*
19HE-S/W- 9			10.8	10.39	6.00	60 P	Hago	100/300	1	5/8*
					Low High Fire Fire					
19HE-S/W-10			12.2	12.2	5.50 4.00	45 H	Hago	150	5/8	1/4*
19HE-S/W-11	801 CRD	3/4	13.6	13.42	5.50 5.50	45 H	Hago	150	5/8	3/8*
19HE-S/W-12			15.0	15.25	6.00 6.00	45 H	Hago	150	7/8	7/16*

*Preliminary Low Fire Air Setting

Above settings for steam or hot water boilers.

3-6 section boilers have target wall.

All burner settings are preliminary.

Final Burner adjustment must be done with combustion test instruments.

S/W insert "S" for Steam / "W" for Water.

Nozzle: 201 CRD Delevan 70° B, 301 CRD (4 section) Hago 80° SS 301 CRD (5 section) Monarch 60° PLP,

702 CRD Hago 60° P, 702 CRD Hago 60° P, 801 CRD Hago 45° H

Motor Current: All Burners = 1 Phase, 115/208-230V, 60 Hz.

Option for: 3 Phase, 208/230-460V, 60 Hz.

Control Circuit Current: 1 Phase, 115V, 60 Hz.

THESE INSTRUCTIONS TO BE LEFT WITH THE BOILER FOR REFERENCE PURPOSES.





19HE SERIES BOILER

BURNERS 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	°F		balanced
Efficiency	%		
Combustion Makeup Air***			

Proper operating and safety instructions 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 30 sq. in. of free area per gallon of oil burned. When louvers are used, double the figure listed above.