



28A SERIES BOILER

INSTALLATION AND OPERATING INSTRUCTIONS

CARLIN OIL BURNERS

Boiler Number	Carlin Burner Model Number	I = B = R Burner Input GPH	Nominal Nozzle Rating – GPH Nozzle Number			Actual Delivery GPH Low/High	Pump Press PSI	Burner Motor HP
			#1	#2	#3			
28A-S/W- 4	702CRD	8.0	4.5	N/A	N/A	4.5/7.8	100/300	1/2
28A-S/W- 5	702CRD	10.4	6.0	N/A	N/A	6.0/10.4	100/300	1/2
28A-S/W- 6	801CRD	12.6	5.5	4.5	N/A	6.6/12.2	150	3/4
28A-S/W- 7	801CRD	15.0	6.0	6.0	N/A	7.2/14.7	150	3/4
28A-S/W- 8	801CRD	17.4	6.5	7.5	N/A	7.8/17.1	150	3/4
28A-S/W- 9	1050FFD	19.6	9.0	5.0	5.0	9.0/19.0	100	1
28A-S/W-10	1050FFD	22.0	9.0	6.5	6.5	9.0/22.0	100	1
28A-S/W-11	1150FFD	24.5	12.0	6.0	6.0	12.0/24.0	100	1 1/2
28A-S/W-12	1150FFD	26.5	12.0	7.0	7.0	12.0/26.0	100	1 1/2
28A-S/W-13	1150FFD	29.0	12.0	8.5	8.5	12.0/29.0	100	1 1/2
28A-S/W-14	1150FFD	31.5	14.0	8.5	8.5	14.0/31.0	100	1 1/2

Nozzle: 702CRD Hago 45° P: 801CRD Hago 45° H
1050 and 1050 FFD use Hago 45° SS

Motor Current: 702CRD and 801CRD = 1 Phase, 115/208-230V; 60 Hz.

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

1050 FFD and 1150 FFD = 3 Phase 208-230/460V; 60 Hz.

Option for: 1 Phase, 115/208-230V, 60 HZ.

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

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



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28A SERIES BOILER – CARLIN BURNER

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	_____	Set at	_____
Operating Limit Operation	_____	Set at	_____
Low Water Cutoff****	_____		
Backup Low Water Cutoff****	_____		
Service Switches	_____		
All additional limits	_____		
Safety Valve Capacity*	_____		
Burner Motor Amps	_____		
Flame Failure	_____		
CO ₂	_____		
Smoke	_____		
Draft in Smokehood	_____		
Draft Overfire**	_____		
Stack Temperature	_____		
Efficiency	_____		
Combustion Makeup Air***	_____		

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

** Draft should be adjusted to .1" positive pressure in smokehood. If vent system is under positive pressure, it must be gas-tight.

*** There must be at least 35 sq. in. of free area per gallon of oil burned. When louvers are used, double the figure listed above.

**** Low water cutoffs on steam boilers should be tested at least once a week during the heating season.

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