

## BURNER SETUP & BOILER OPERATION

**Table 5.1: Carlin Burner Specifications**

CARLIN BURNER SPECIFICATIONS							
Boiler Model No.	Firing Rate	Burner Model No.	Air Shutter	Nozzle Size	Pump Pressure	Start-up Settings Air Band	Head Bar
EC/ECT-03-075	.75	EZ-1HP	Blank	0.60 70° B DEL <sup>3</sup>	150 psig	0.55	0.60 - 0.65
EC/ECT-03-100	1.00	EZ-1HP	Blank	<b>0.85 70° A DEL</b>	150 psig	0.65	0.85 - 1.00
EC/ECT-03-120	1.20	EZ-1HP	Blank	1.00 70° A DEL <sup>3</sup>	150 psig	0.80	0.85 - 1.00
Boiler Model No.	Burner Model No.	Air Shutter	Nozzle Size	Pump Pressure	Start-up Settings		
					Head Dim. A	Air Band	
EC/ECT-04-125	99FRD	Blank	1.00 x 70° B DEL <sup>3</sup>	150 psig	2	40% open	
EC/ECT-04-150	99FRD	Blank	1.25 x 60° B DEL <sup>3</sup>	150 psig	3	60% open	
EC/ECT-04-175	99FRD	Blank	<b>1.50 x 60° B DEL</b>	150 psig	4	100% open	
EC/ECT-05-175	99FRD	Open	1.50 x 60° B HAGO <sup>3</sup>	150 psig	5	10% open	
EC/ECT-05-200	99FRD	Open	<b>1.65 x 60° B HAGO</b>	150 psig	5	45% open	
EC/ECT-05-250	99FRD	Open	2.00 x 60° B HAGO <sup>3</sup>	150 psig	8	100% open	
EC/ECT-06-275	102CRD	Open	2.25 x 60° B DEL <sup>3</sup>	150 psig	6	100% open	
EC/ECT-06-300	102CRD	Open	<b>2.50 x 60° B DEL</b>	150 psig	8	100% open	

**Table 5.2: Beckett Burner Specifications**

BECKETT BURNER SPECIFICATIONS (140 psig Pump Pressure)							
Boiler Model No.	Burner Model No.	Burner Head	Static Plate	Nozzle Size	Start-up Settings		Head Setting
					Air Shutter	Air Band	
EC/ECT-03-075	AFG-L1 <sup>1</sup>	L1 <sup>1</sup>	3-3/8"	0.65 60° B HAGO <sup>3</sup>	9.0	2	N/A
EC/ECT-03-100	AFG-L1	L1	3-3/8"	<b>0.85 60° B HAGO</b>	10.0	1	N/A
EC/ECT-03-120	AFG-L1	L1	— <sup>2</sup>	1.00 60° B HAGO <sup>3</sup>	9.0	2	N/A
EC/ECT-04-125	AFG-F6	F6	2-3/4"	1.10 80° A DEL <sup>3</sup>	5.0	1	N/A
EC/ECT-04-150	AFG-F6	F6	2-3/4"	<b>1.25 80° B HAGO</b>	8.0	1	N/A
EC/ECT-04-175	AFG-F6	F6	2-3/4"	1.50 80° B HAGO <sup>3</sup>	10.0	3	N/A
EC/ECT-05-175	AFG-MV1	M-V1-3	—	1.50 60° B HAGO <sup>3</sup>	10.0	3	3
EC/ECT-05-200	AFG-MV1	M-V1-3	—	<b>1.75 60° B HAGO</b>	10.0	9	3
EC/ECT-05-250	AFG-MV1	M-V1-5	—	2.00 45° B HAGO <sup>3</sup>	10.0	5	5
EC/ECT-06-275	CF-375	L1-S	—	2.25 45° P HAGO <sup>3</sup>	10.0	6	2
EC/ECT-06-300	CF-375	L1-S	—	<b>2.50 45° P HAGO</b>	10.0	6	3

**Table 5.3: Riello Burner Specifications**

RIELLO BURNER SPECIFICATIONS						
Boiler Model No.	Firing Rate	Burner Model No.	Nozzle Size	Pump Pressure	Start-Up Settings	
					Turbulator	Air Damper
EC/ECT-03-075	.75	F5	0.60 60° B DEL <sup>3</sup>	155 psig	0.5	2.1
EC/ECT-03-100	1.00	F5	0.85 60° W DEL <sup>3</sup>	145 psig	2.0	2.6
EC/ECT-03-120	1.20	F5	<b>1.00 60° W DEL</b>	145 psig	3.0	2.9
EC/ECT-04-125	1.25	F5	<b>1.00 60° W DEL</b>	155 psig	2.5	3.4
EC/ECT-04-150	1.50	F10	1.25 60° B DEL <sup>3</sup>	145 psig	1.5	3.1
EC/ECT-04-175	1.75	F10	<b>1.35 60° B DEL</b>	165 psig	2.0	2.5
EC/ECT-05-175	1.75	F10	1.35 60° B DEL <sup>3</sup>	165 psig	2.0	2.5
EC/ECT-05-200	2.00	F10	<b>1.50 60° B DEL</b>	170 psig	2.5	2.8
EC/ECT-05-250	2.40	F10	2.00 60° B DEL <sup>3</sup>	155 psig	3.5	4.2
EC/ECT-06-275	2.75	F10	2.25 60° B DEL <sup>3</sup>	150 psig	4.0	4.2
EC/ECT-06-300	3.00	F10	<b>2.50 60° B DEL</b>	145 psig	4.5	4.2

Factory Installed Nozzles (Packaged Boilers or Burner Cartons) are indicated in **Boldface**.

1 Requires Low Firing Rate Baffle

2 Remove Static Plate for 1.20 GPH Rate

3 Shipped Loose with Packaged Boiler or Burner Carton