

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 ³	150 PSI	0.55	0.60 - 0.65
EC/ECT-03-100	1.00	EZ-1HP	Blank	0.85 70° A DEL	150 PSI	0.65	0.85 - 1.00
EC/ECT-03-120	1.20	EZ-1HP	Blank	1.00 70° A DEL ³	150 PSI	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 ³	150 PSI	2	40% open	
EC/ECT-04-150	99FRD	Blank	1.25 x 60° B DEL ³	150 PSI	3	60% open	
EC/ECT-04-175	99FRD	Blank	1.50 x 60° B DEL	150 PSI	4	100% open	
EC/ECT-05-175	99FRD	Open	1.50 x 60° B HAGO ³	150 PSI	5	10% open	
EC/ECT-05-200	99FRD	Open	1.65 x 60° B HAGO	150 PSI	5	45% open	
EC/ECT-05-250	99FRD	Open	2.00 x 60° B HAGO ³	150 PSI	8	100% open	
EC/ECT-06-275	102CRD	Open	2.25 x 60° B DEL ³	150 PSI	6	100% open	
EC/ECT-06-300	102CRD	Open	2.50 x 60° B DEL	150 PSI	8	100% open	

Beckett Burner Specifications

BECKETT BURNER SPECIFICATIONS							
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 ¹	L1 ¹	3-3/8"	0.65 60° B HAGO ³	9.0	2	N/A
EC/ECT-03-100	AFG-L1	L1	3-3/8"	0.85 60° B HAGO	10.0	1	N/A
EC/ECT-03-120	AFG-L1	L1	— ²	1.00 60° B HAGO ³	9.0	2	N/A
EC/ECT-04-125	AFG-F6	F6	2-3/4"	1.10 80° A DEL ³	5.0	1	N/A
EC/ECT-04-150	AFG-F6	F6	2-3/4"	1.25 80° B HAGO	8.0	1	N/A
EC/ECT-04-175	AFG-F6	F6	2-3/4"	1.50 80° B HAGO ³	10.0	3	N/A
EC/ECT-05-175	AFG-MV1	M-V1-3	—	1.50 60° B HAGO ³	10.0	3	3
EC/ECT-05-200	AFG-MV1	M-V1-3	—	1.75 60° B HAGO	10.0	9	3
EC/ECT-05-250	AFG-MV1	M-V1-5	—	2.00 45° B HAGO ³	10.0	5	5
EC/ECT-06-275	CF-375	L1-S	—	2.25 45° P HAGO ³	10.0	6	2
EC/ECT-06-300	CF-375	L1-S	—	2.50 45° P HAGO	10.0	6	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 ³	155	0.5	2.1
EC/ECT-03-100	1.00	F5	0.85 60° W DEL ³	145	2.0	2.6
EC/ECT-03-120	1.20	F5	1.00 60° W DEL	145	3.0	2.9
EC/ECT-04-125	1.25	F5	1.00 60° W DEL	155	2.5	3.4
EC/ECT-04-150	1.50	F10	1.25 60° B DEL ³	145	1.5	3.1
EC/ECT-04-175	1.75	F10	1.35 60° B DEL	165	2.0	2.5
EC/ECT-05-175	1.75	F10	1.35 60° B DEL ³	165	2.0	2.5
EC/ECT-05-200	2.00	F10	1.50 60° B DEL	170	2.5	2.8
EC/ECT-05-250	2.50	F10	2.00 60° B DEL ³	155	3.5	4.2
EC/ECT-06-275	2.75	F10	2.25 60° B DEL ³	150	4.0	4.2
EC/ECT-06-300	3.00	F10	2.50 60° B DEL	145	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

WBV/WV BURNER SPECIFICATIONS

Beckett Burner Specifications

BECKETT BURNER SPECIFICATIONS								
Boiler Model No.	Burner Model No.	Burner Head	Static Plate	Nozzle Size	Pump Pressure	Start-up Settings		Head Setting
						Air Shutter	Air Band	
WBV-03-085	AFG-F3 ¹	F3	3-3/8"	0.75 80° B HAGO ³	140 PSI	6.0	1	N/A
WBV-03-110	AFG-F4	F4	3-3/8"	0.90 80° B HAGO	140 PSI	6.0	0	N/A
WBV-04-095	AFG-F4	F4	3-3/8"	0.85 80° B DEL ⁴	140 PSI	6.0	0	N/A
WBV-04-125	AFG-F4	F4	3-3/8"	1.10 80° B HAGO ³	140 PSI	5.0	2	N/A
WBV-04-150	AFG-F6	F6	2-3/4"	1.25 80° B HAGO	140 PSI	8.0	1	N/A
WV-05-175	AFG-MV1	V-1	-	1.50 60° B HAGO ³	140 PSI	10.0	3	3
WV-05-200	AFG-MV1	V-1	-	1.75 60° B HAGO	140 PSI	10.0	9	3

Carlin Burner Specifications (with 98022 PSC motor)

CARLIN BURNER SPECIFICATIONS (WITH 98022 PSC MOTOR)						
Boiler Model No.	Burner Model No.	Head Bar	Nozzle Size	Pump Pressure	Start-up Settings	
					Air Shutter	Air Band
WBV-03-085	EZ-1HP	0.60 - 0.65	0.65 70° A DEL ³	150 PSI	Blank	0.60
WBV-03-110	EZ-1HP	0.85 - 1.00	0.85 70° A DEL	150 PSI	Blank	0.65
WBV-04-095	EZ-1HP	0.75	0.75 70° A DEL ⁴	150 PSI	Blank	0.60
WBV-04-125	EZ-1HP	0.85 - 1.00	1.00 70° A DEL ³	150 PSI	Blank	0.85
WBV-04-150	EZ-1HP	1.10 - 1.25	1.25 60° B DEL	150 PSI	Blank	1.00
WV-05-175	99FRD	N/A	1.50 60° B HAGO ³	150 PSI	Open	10% open
WV-05-200	99FRD	N/A	1.65 60° B HAGO	150 PSI	Open	45% open

Riello Burner Specifications

RIELLO BURNER SPECIFICATIONS						
Boiler Model No.	Burner Model No.	Burner Series	Nozzle Size ²	Pump Pressure	Start-Up Settings	
					Turbulator	Air Damper
WBV-03-060	F3	Series 40	0.50 90° B	145	0.0	2.9
WBV-03-085	F5	Series 40	0.65 60° W ³	170	1.0	2.45
WBV-03-110	F5	Series 40	0.85 60° W	165	2.5	2.8
WBV-04-095	F5	Series 40	0.75 80° B ⁴	160	0.5	2.25
WBV-04-125	F5	Series 40	1.00 60° W ³	155	2.5	3.4
WBV-04-140	F5	Series 40	1.10 60° W	160	4.0	4.2
WV-05-175	F10	Series 40	1.35 60° B ³	165	2.0	2.5
WV-05-200	F10	Series 40	1.50 60° B	170	2.5	2.8

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

1 Requires Low Firing Rate Baffle

2 Delavan Recommended

3 Shipped Loose with Packaged Boiler or Burner Carton

4 Not included with Packaged Boiler or Burner Carton

Beckett Burner Specifications

Beckett NX Burner Specifications					
Boiler Model No.	Burner Model	Nozzle Manufacturer, Size	Pump Pressure (psig)	Head/Air Setting	Low Fire Baffle
WV-DV-03-075	NX70LB	Delavan 0.60 60° W ¹	175	2.25	Yes
WV-DV-03-085	NX70LB	Delavan 0.65 60° W	175	3.00	Yes
WV-DV-03-110	NX70LB	Hago 0.85 60° B ¹	175	3.75	No
WV-DV-04-115	NX70LD	Hago 0.85 60° B	170	1.50	Yes
WV-DV-04-130	NX70LD	Hago 1.00 60° B ¹	170	1.50	No

Beckett Burner Specifications

Beckett AFII 100 Burner Specifications				
Boiler Model No.	Nozzle Size	Pump Pressure (psig)	Pin No.	Air Dial Setting
WV-DV-03-075	Delavan .60 70° B	170	3	4.25
WV-DV-03-085	Hago .65 45° B	170	4	5.5
WV-DV-03-110	Delavan .85 60° B	170	6	6.5

Start-up and adjustment recommendations: Above Turbulator, Pin, Air Damper, and Air Dial settings are start-up settings only. Adjust burner for highest CO₂ (no more than 13%) while maintaining a 0 smoke spot. Pressure or draft over fire and in flue cannot be adjusted. However, draft and/or pressure measurements must be taken in these two locations and recorded for reference. All adjustments and measurements must be made using suitable instruments such as those found in a Bacharach Combustion Test Kit.

Carlin Burner Specifications

Carlin EZ1-HP Burner Specifications				
Boiler Model No.	Delavan Nozzle Size	Pump Pressure (psig)	Air Boot Setting	Head Bar
WV-DV-03-075	.60 70° A ¹	150	0.5	0.75
WV-DV-03-085	.65 70° A ¹	150	0.6	0.75
WV-DV-03-110	.85 70° A	150	0.85	1.10 - 1.25
WV-DV-04-115	Hago 1.00 60° B ¹	140	1.00	1.10 - 1.25
WV-DV-04-130	Hago 1.10 60° B	140	1.25	1.10 - 1.25

Riello Burner Specifications

Riello BF5 Burner Specifications				
Boiler Model No.	Nozzle Size	Pump Pressure (psig)	Turbulator Setting	Air Damper Setting
WV-DV-03-075	Delavan .60 80° B ¹	165	1	3.3
WV-DV-03-085	Delavan .65 80° B ¹	165	1	3.8
WV-DV-03-110	Delavan .90 80° B	165	2	5.0
WV-DV-04-115	Hago .85 60° B ¹ or Delavan .85 60° W ¹	180	2	5.0
WV-DV-04-130	Hago 1.10 60° B or Delavan 1.10 60° W	140	4	5.0

Start-up and adjustment recommendations: Above Turbulator, Pin, Air Damper, and Air Dial settings are start-up settings only. Adjust burner for highest CO₂ (no more than 13%) while maintaining a 0 smoke spot. Pressure or draft over fire and in flue cannot be adjusted. However, draft and/or pressure measurements must be taken in these two locations and recorded for reference. All adjustments and measurements must be made using suitable instruments such as those found in a Bacharach Combustion Test Kit.

Factory Installed Nozzles are indicated in **Boldface**.

- 1. Shipped Loose

PINNACLE OIL BURNER SPECIFICATIONS

Beckett Burner Specification

Boiler Model	Danfoss Nozzle Specification	Pump Pressure (psig)	Air Damper Setting
PO-70 & PO-70A	0.45 gph 60° AS	130	1.5
PO-84 & PO-84A	0.55 gph 60° AS	130	2.5

PRO SERIES BURNER SPECIFICATIONS

Beckett Burner Specifications

Boiler Model Number	Burner Model Number	Burner Head	Static Plate	Nozzle Size	Pump Pressure	Start-up Settings	
						Air Shutter	Air Band
PRO-03-060	AFG-L2	L2	3-3/8"	0.50 60° AS Del	140	4	0
PRO-04-080	AFG-L1	L1	2-3/4"	0.65 60° A Del	140	8	0
PRO-04-100	AFG-L1	L1	2-3/4"	0.85 60° A Del ¹	140	10	4
PRO-05-100	AFG-L1	L1	N/A	0.75 45° B Del	190	7	1
PRO-05-125	AFG-L1	L1	N/A	0.90 60° B Del ¹	190	10	3.5

Factory Installed Nozzles are indicated in **Boldface**.

1 – Shipped Loose with Burner Carton