

BURNER SETUP & BOILER OPERATION

Table 5.1: 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-03-105	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-05-195	AFG-MV1	V-1	-	1.65 60° B HAGO	140 PSI	10.0	9	3

BECKETT NX BURNER SPECIFICATIONS				
Boiler Model No.	Burner Model	Nozzle Size	Pump Pressure	Start Up Head/Air
WBV-03-085	NX70LB	0.65 x 60° W DEL ³	170	1.5
WBV-03-105	NX70LB	0.85 x 60° B HAGO	170	2.5
WBV-04-095	NX70LB	0.75 x 60° W DEL ⁴	170	2.0
WBV-04-125	NX70LD	1.10 x 60° W DEL ³	140	1.0
WBV-04-150	NX70LD	1.25 x 60° W DEL	140	2.0

Note: Burner used to fire the WBV-03-085 and 1.05 rate is also required to fire the WBV-04-095 rate with nozzle indicated in above chart.

Table 5.2: 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-03-105	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-05-195	99FRD	N/A	1.65 60° B HAGO	150 PSI	Open	45% open

Table 5.3: 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 PSI	0.0	2.9
WBV-03-085	F5	Series 40	0.65 60° W ³	170 PSI	1.0	2.45
WBV-03-105	F5	Series 40	0.85 60° W	165 PSI	2.5	2.8
WBV-04-095	F5	Series 40	0.75 80° B ⁴	160 PSI	0.5	2.25
WBV-04-125	F5	Series 40	1.00 60° W ³	155 PSI	2.5	3.4
WBV-04-140	F5	Series 40	1.10 60° W	160 PSI	4.0	4.2
WV-05-175	F10	Series 40	1.35 60° B ³	165 PSI	2.0	2.5
WV-05-195	F10	Series 40	1.50 60° B	170 PSI	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