

AFG burner are designed to meet the increased demands of modern equipment and changing fuels to meet both performance and carbon reduction challenges. Beckett burners utilize the most technologically advanced components available today and are compliant with renewable fuels to 100% biodiesel (B100) and 100% renewable diesel (R100).

The AF and AFG burners have been supplied on original equipment boilers, furnaces, and water heaters for many years. As technology improved, so have our burners and components. If a burner is more than 10 years old, a new AF/ AFG chassis is a simple way to upgrade the system. Installation by your service company is uncomplicated and a new burner comes with a 5-year factory warranty.

Beckett, the trusted name in oil heat since 1937.

Advanced Components



Beckett GeniSvs Burner Control

- · Last 50 cycles and last 15 faults history
- · C-terminal for compatibility with smart thermostats
- · Auto-configures valve-on delay timing for a solenoid valve upon detection
- Enhanced diagnostics and programming through:





CleanCut Pump

- Integrated solenoid valve.
- · Higher capacity design delivers up to 3 GPH at 100-200psi on the AFG burner.
- The CleanCut has fewer moving parts and reduces motor load.



Beckett Igniter

- · Electrodes last approx. 50% longer.
- · Higher output voltage for reliable ignition.
- Approximately 75% lower input amps.



PSC Motor

- · Lower amp draw & cooler operation.
- · Delivers more power with the PSC design (permanent split capacitor).
- Proven durability after 20+ years of high reliability in the field.
- · Ball bearings for longer life.



AF/AFG OIL AND BIOFUEL BURNER

Technical Specifications

Capacity

- · 0.40 3.00 GPH
- 56,000 420,000 btu/hr input

Fuels

- · ASTM D396 for #1 & #2 Heating oil
- · ASTM D396 for B6 B20 Biodiesel blends
- · Biodiesel blends of D396 & D6751 to B100
- · ASTM D975 for Diesel fuel, Renewable diesel
- CAN / CGSB -3.2 for Heating oil Types 0, 1, and 2

Fuel Unit

· Beckett CleanCut® - Single or Two-stage

Motor

• 1/7 HP 3450 rpm PSC type

Igniter

- · Beckett PowerLight® Solid state
- · Rated for contiuos duty

Control

- · Beckett GeniSys® Model 7565
- myTechnician app for programming and diagnostics

Dimensions (Standard)

- · Height: 11-1/2"
- · Width: 12-7/8"
- Depth: 6-9/16"

Dimensions (with Cover)

- · Height: 12-1/2"
- · Width: 15"
- · Depth: 9-1/4"

Electrical Characteristics

Power Supply:

120VAC, 60 Hz, single phase

Operating Load:

5.8 Amps maximum @ 120 VAC 240 VAC - Available (Contact factory)

AF/AFG Available Models

Chassis	Primary Control	Fuel Unit				
B2005 - AFG	7565 w/15 sec pre-, 2 min post-purge	PF20422 - 2-Stage				
B2007 - AFG	7565 w/15 sec. pre-purge	PF20322/3 - single stage				
B2008 - AFG	7565 w/15 sec pre-, 2 min post-purge	PF20322/3 - single stage				
B3001 - AF	7565 w/15 sec pre-, 2 min post-purge	PF20322/3 - single stage				

AF/AFG Accessories

Part Number	Description	
5432	Adjustable Flange and Gasket	
5850	Split Flange and Gasket	
5685	Pedestal mounting kit	
5606	Pedestal mounting kit - Extended	
5207301U	Burner Cover Kit with split mounting plate	
5207304U	Burner Cover Kit with air inlet fitting	A Property of the Park State o
CAK-AU	Air Boot Kit	
CAK-APU	Air Boot Kit with Air Proving - Must use with 7565 GeniSys Control	
51621	Start Helper - Smoother light-off for cold fuel conditions	

AF/AFG Standard Air Tube Combinations

Firing Rate	Burner	Usable Length - Tube									
Range - GPH	Head	4-1/2"	5″	5-3/8"	6-5/8"	7″	7-1/4″	9″	10-1/2"	13″	16"
Less Head	- 1	AF44	16 4 3-19 0 3	AF53	AF65		AF72	AF90	AF104	AF130	AF160
0.40 - 0.75	F0	AF44XR	-	AF53XR	AF65XR	<u>-</u>	AF72XR	AF90XR	AF104XR	AF130XR	AF160XR
0.75 - 1.25	F3	AF44XN		AF53XN	AF65XN	- 1 -	AF72XN	AF90XN	AF104XN	AF130XN	AF160XN
0.85 - 1.35	F4	AF44WH	- 1 to 2	AF53WH	AF65WH	-	AF72WH	AF90WH	AF104WH	AF130WH	AF160WH
0.85 - 1.65	F6	AF44YB	PER	AF53YB	AF65YB		AF72YB	AF90YB	AwF104YB	AF130YB	AF160YB
1.10 - 2.00	F12	AF44XO		AF53XO	AF65XO	-	AF72XO	AF90XO	AF104XO	AF130XO	AF160XO
1.65 - 2.50	F22	AF44XP	- 1	AF53XP	AF65XP	-	AF72XP	AF90XP	AF104XP	AF130XP	AF160XP
2.50 - 3.00	F31	AF44XS	- -	AF53XS	AF65XS	-	AF72XS	AF90XS	AF104XS	AF130XS	AF160XS
AFG Burner Only											
0.40 - 1.00	L2	4017 <u>-</u>	AFG50MBSS	- Y	-	AFG70MBSS	1-	AFG90MBSS	- L	86-	707 - 338
0.50 - 1.10	L1	- 1	AFG50MPSS	-	-	AFG70MPSS	- 1	AFG90MPSS	-	7 No. 4	/
0.75 - 2.75	V1	-	AFG50MDSS	- / 10	-	AFG70MDSS	34.5	AFG90MDSS	-/-	-	-

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