

AF/AFG OIL BURNER

PRODUCT SHEET

Description

The Beckett models AF & 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 certified to perform well with biodiesel blends up to 20% (B20).

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



CleanCut Pump

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



Beckett GeniSys Burner Control

- Programmable pre/post-time settings.
- Three status lights for system monitoring & diagnostics.
- Limited reset and limited recycle.
- Technician Pump Prime mode.



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 10 years of high reliability in the field.
- Ball bearings for longer life.

Beckett®

AF/AFG OIL 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

Fuel Unit

- Single-stage or two-stage

Dimensions (standard)

- Height: 11-1/2"
- Width: 12-7/8"
- Depth: 6-9/16" (chassis only)

Dimensions (with cover)

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

Electrical Characteristics

- Motor:** 1/7 HP, PSC, NEMA 48M frame
- Power Supply:** 120V AC, 60 Hz, single phase
- Ignition:** Continuous duty solid-state igniter
- Operating Load:** 5.8 Amps Max.

AF/AFG Burner Models

Chassis	Motor	Igniter	Pump	Primary	Accessories
AFG B2007	PSC	Solid-State	Clean-Cut Single-stage	Genisys 7505B1500	
AFG B2008	PSC	Solid-State	Clean-Cut Single-stage	Genisys 7505P152M	Contractor Tool 52082 and Mounting Bracket 33023
AFG B2005	PSC	Solid-State	Clean-Cut Two-stage	Genisys 7505P1530	
AF B3001	PSC	Solid-State	Clean-Cut Single-stage	Genisys 7505B1500	

AF/AFG Burner Accessories

Part No.	Item	Description
5432	Flange Kit	Universal Flange Kit- Flange & Gasket
5850	Flange Kit	Split Flange & Gasket
5685	Pedestal Kit	Universal Pedestal Kit
5606	Pedestal Kit	Extended Pedestal Kit for 8" - 13" above floor
51747	Air Boot Kit	Kit with Air Boot / Vacuum relief damper / OA Hood
7575	GeniSys Control	Epoxy potted for high-moisture applications (*= order Pre- and Post-Purge times for your application)
5207301U	Cover Kit	Sound Reducing and Tamper Resistant Cover
51621	Start Helper	Smoother Lighting for cold oil conditions

Universal Air Tube Combination

Firing Rate Min-Max GPH	Burner Head	Usable Air Tube Length "A"										
		4-1/2"	5"	5-3/8"	6-5/8"	7"	7-1/4"	9"	9"	10-1/2"	13"	16"
Less Head	Less	AF44	-	AF53	AF65	-	AF72	AF90	-	AF104	AF130	AF160
0.40 - 0.75	F0	AF44XR	-	AF53XR	AF65XR	-	AF72XR	AF90XR	-	AF104XR	AF130XR	AF160XR
0.75 - 1.25	F3	AF44XN	-	AF53XN	AF65XN	-	AF72XN	AF90XN	-	AF104XN	AF130XN	AF160XN
0.85 - 1.65	F6	AF44YB	-	AF53YB	AF65YB	-	AF72YB	AF90YB	-	AF104YB	AF130YB	AF160YB
1.10 - 2.00	F12	AF44XO	-	AF53XO	AF65XO	-	AF72XO	AF90XO	-	AF104XO	AF130XO	AF160XO
1.65 - 2.50	F22	AF44XP	-	AF53XP	AF65XP	-	AF72XP	AF90XP	-	AF104XP	AF130XP	AF160XP
2.50 - 3.00	F31	AF44XS	-	AF53XS	AF65XS	-	AF72XS	AF90XS	-	AF104XS	AF130XS	AF160XS
0.40 - 1.00	L1	-	AFG50MB	-	-	AFG70MB	-	-	AFG90MB	-	-	-
0.75 - 2.75	V1	-	AFG50MD	-	-	AFG70MD	-	-	AFG90MD	-	-	-

USA: **R.W. Beckett Corporation**, 1-800-645-2876
 Canada: **R.W. Beckett Canada Ltd**, 1-800-665-6972

Printed in USA 09/20 Form No. 6578, R03

This document and all information contained herein are the sole property of the R.W. Beckett Corporation and cannot be reproduced or transmitted in whole or part without express written permission of the R.W. Beckett Corporation.