

**THIS QUICK
TUTORIAL
WILL GUIDE YOU
THROUGH THE STEPS
USING THE BECKETT
BURNER APPLIANCE
SET UP GUIDE**

Beckett.

CORPORATION

Includes: Burner Chassis, Basic Burner Set-up Information, Air Tube Combinations



OEM Setup Guide

RESIDENTIAL OIL BURNERS

For Wholesalers & Service Technicians.

Appliance Model	Basic Burner Setup Information							Additional Information			Notes
	Burner Type	Head Type	Static Plate/ Stop Screw	Nozzle Type	Low Fire Rate Baffle	Std. Air Tube	Pump Pressure	Recom. Chassis	Approximate Air Settings*	Insertion Depth	

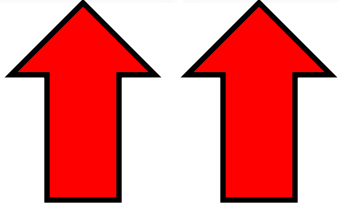
1. Locate OEM name.

For your convenience, this guide is arranged in alphabetical order by manufacturer.

EXAMPLE

A.O. Smith	6
Adams / Dornback	6-7
Addison Products Co.	7
American Standard	8
Arco Air / Comfortmaker / ICP	9
Armstrong / Air Ease	9-12
Axeman-Andersen	12-13

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2. Locate Appliance Model Number.

Example: **COF -199**

3. Locate Burner Type.

Example: **AF, AFG, NX, AFII, SF**

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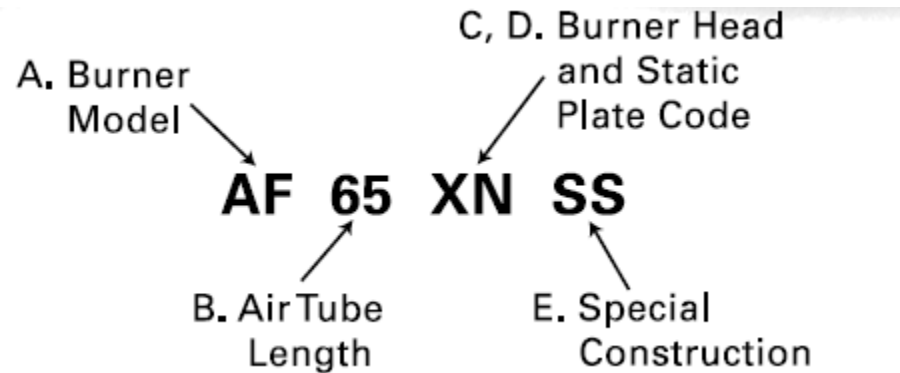
4. Locate Air Tube Combination. This will include:

- A. Burner Model: AFG**
- B. Air Tube Length: AF65XN**
- C. Head Type: F-3**
- D. Static Plate: 2 - 3/4"**

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4. Locate Air Tube Combination. This will include: E. Special Construction

Example:



*Air tube is measured in usable length. **The overall length is 1/2" longer.** The first digit is in inches, and the second digit is in 1/8" increments. (Example AF65 is 6-5/8", and AF104 is 10-1/2".) **This is important when ordering a replacement NLEA. (Nozzle Line Electrode Assembly for the Air tube.)***

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E. Special Construction

Special Construction Codes

FS Fiber Head Protector

HS Heat Shield Porcelain

SS Stainless Steel Air Tube and 8 Hole Venturi

XS Fiber Head Protector AFII

OS Outer Shield F-Head

AQ 16-Slot Venturi Aluminized Steel

AS 1-Piece Venturi Aluminized Steel

5. To identify the Special Construction Codes

6. Locate Specified Nozzle Selection.

Appliance Model	Basic Burner Setup Information						
	Burner Type	Head Type	Static Plate/ Stop Screw	Nozzle Type	Low Fire Rate Baffle	Std. Air Tube	Pump Pressure
L 30	AFG	F4S	2-3/4"	1.00 X 80°W			
L 30	AFG	F4S	2-3/4"	1.10 X 80°W			
L 40	AFG	F120	2-3/4"	1.75 X 80°SS			
L 40	AFG	F120	2-3/4"	1.50 X 80°B			
L 50	AFG	F164	NONE	2.25 X 80°P			
L 50	AFG	F164	NONE	2.00 X 80°P			



Manufacturers / Spray Patterns				
Danfoss	Delavan	Hago	Monarch	Steinen
AS-SOLID	A-HOLLOW	ES-SOLID	R-SOLID	S-SOLID
AH-HOLLOW	B-SOLID	P-SOLID	NS-HOLLOW	SS-SEMI-SOLID
AB-SEMI-SOLID	W-ALL PURPOSE	SS-SEMI-SOLID	AR-SPECIAL SOLID	H-HOLLOW
	SS-SEMI-SOLID	H-HOLLOW	PLP-SEMI-SOLID	
		B-SOLID	PL-HOLLOW	

USING THE CHART IN THE BACK OF THE OEM GUIDE WILL HELP YOU IDENTIFY NOZZLE BRAND DESIGNATIONS.

8. Verify Pump Pressure.

Appliance Model	Basic Burner Setup Information						
	Burner Type	Head Type	Static Plate/ Stop Screw	Nozzle Type	Low Fire Rate Baffle	Std. Air Tube	Pump Pressure
AFG	F6	2-3/4"	1.00 X 80°B	—	AF90YBHSSS	100	
AFG	F3	3-3/8"	0.75 X 80°B	5880	AF65YHHSSS	100	
AFG	L2	3-3/8"	0.60 X 70°B(H)	—	AFG90MQAQ	160	
AFG	L2	3-3/8"	0.85 X 60°B(H)	—	AFG90MQAQ	140	
CF375	F220	SL1-5	3.00 X 70°P	—	CF100KZ	140	
NX	6-slot	—	0.60 X 60°B	—	NX90LC	160	
NX	6-slot	—	0.85 X 60°B	—	NX90LC	140	
NX	6-slot	—	1.00 X 60°B	—	NX90LC	150	
NX	9-slot	—	1.25 X 45°B	—	NX90LD	140	
CF375	V1-1	—	1.35 X 45°B	—	CF65KY	150	



USE THE FLOW RATE CHART IN THE BACK OF THE OEM GUIDE, PAGE 100.

Nozzle Capacities Manufacturers / Spray Patterns

Rate gph @ 100 psi	Nozzle Capacities / U.S. Gallons per hour No. 2 Fuel Oil Operating Pressure: Pounds per Square Inch							
	125	140	150	175	200	250	275	300
.40	.45	.47	.49	.53	.56	.63	.66	.69
.50	.56	.59	.61	.66	.71	.79	.83	.87
.60	.67	.71	.74	.79	.85	.95	1.00	1.04
.65	.73	.77	.80	.86	.92	1.03	1.08	1.13

EXAMPLE: A .50 Nozzle operating at 140 PSIG = .59 GPH.

USING THE CHART IN THE BACK OF THE OEM GUIDE, WILL HELP YOU DETERMINE FLOW RATES AT ELEVATED PUMP PRESSURES.

Basic Burner Setup Information

Additional Information

Appliance Model	Burner Type	Head Type	Static Plate/ Stop Screw	Nozzle Type	Low Fire Rate Baffle	Std. Air Tube	Pump Pressure	Recom. Chassis	Approximate Air Settings*	Insertion Depth	Notes
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Additional Information			Notes
Recom. Chassis	Approximate Air Settings*	Insertion Depth	
B3001	—	—	
B3001	—	—	
B3001	—	—	
B3001	—	—	
B3001	—	—	22
B3001	—	—	2
B2007	S-6 / B-0	1-1/2"	
B2007	S-9 / B-0	1-1/2"	
B2007	S-10 / B-0	1-1/2"	
B711	S-5 / B-0	1"	26
B711	S-5 / B-2	1"	26
B711	S-5 / B-4	1"	26

(2) "HS" on air tube combination = ceramic heat shield on combustion head.

(22) This application requires the use of a blank air band, part #3626.

(26) Burner requires Part Number 21295 four-second timer and solenoid valve.