

Beckett

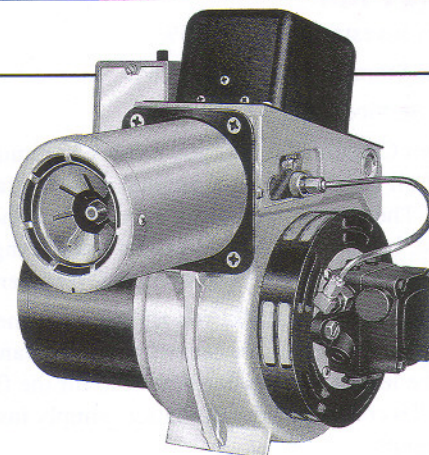
Model SM

OIL BURNER

Special Features

The adaptable, efficient Model SM burner is not dependent upon a combustion chamber for flame stabilization. Instead, it's available with a choice of six flame-retention heads that lock a highly stable, fuel-efficient flame in place for reliable combustion. These one-piece, stainless steel heads are a primary reason why the Model SM can provide fuel savings of up to 35%! All heads fit a standard 4-inch diameter air tube and are easily installed for optimizing performance in a variety of applications.

The specially designed burner housing enhances operating efficiency while it minimizes air noise. This sturdy housing and rugged motor and controls give the Model SM the durability and dependability demanded by today's tough burner applications.



Specifications

Capacities - Model SM

0.50 to 3.00 gallons per hour
70,000 to 420,000 BTU/hr input

Fuels

No. 1 or No. 2 heating oil (ASTM D396) only

Dimensions (standard)

Height: 13-1/2"
Width: 14-1/4"
Depth: 8-1/2" (chassis only)

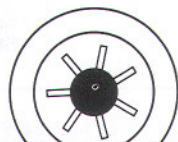
Electrical Characteristics

Motor: 3450 rpm, NEMA M-flange, manual reset overload protection
Power Supply: 120 V./60 Hz./1 phase
Ignition: 10,000 V./23 ma. secondary, continuous duty shielded transformer
Operating Load: 5.8 amps (maximum)
Alternate Voltages or Frequency: Consult Customer Service

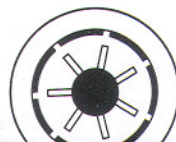
Fuel Unit

Single stage or two stage

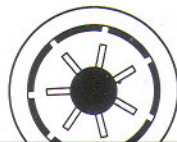
Flame Retention Heads



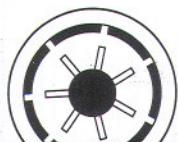
F0 0.50-0.85 gph



F3 0.75-1.25 gph



F6 0.85-1.75 gph



F12 1.00-2.00 gph



F22 2.00-3.00 gph



F220 2.00-3.00 gph
(with shroud)

R.W. **BECKETT** CORPORATION

U.S.A.: P.O. Box 1289 • Elyria, Ohio 44036 • 800-645-2876 • (440) 327-1060 • FAX (440) 327-1064
Canada: R.W. Beckett Canada, Ltd. • Unit 3 - 430 Laird Road • Guelph, Ontario, N1G 3X7 • 800-665-6972 • FAX (519) 763-5656

Model SM

OIL BURNER

Chassis Plan

- Reduces Investment Up To 65%
- Reduces Storage Space Up To 85%
- Speeds Service Calls

The Beckett Chassis Plan lets you stock a minimum number of oil burners and still get maximum installation flexibility. The chassis represents up to 90% of the total burner cost, but a single chassis adapts to all firing rates commonly encountered in upgrading and replacement jobs.

To a minimum chassis stock, you add an assortment of air tube combinations. From this assortment, you can select the precise tube length and combustion head for the firing rate you need. To complete the installation, simply install the proper support.

For complete flexibility, the flame retention burner heads are interchangeable on most combinations.

How To Order

Order Burner Chassis

1. Model SM Burner Chassis
2. Type of Fuel Unit (single or two-stage)
3. Primary control

Order Air Tube Combination

1. Air Tube Length (dimension A) and Firing Rate
OR
Air Tube Combination Number (see table at right)

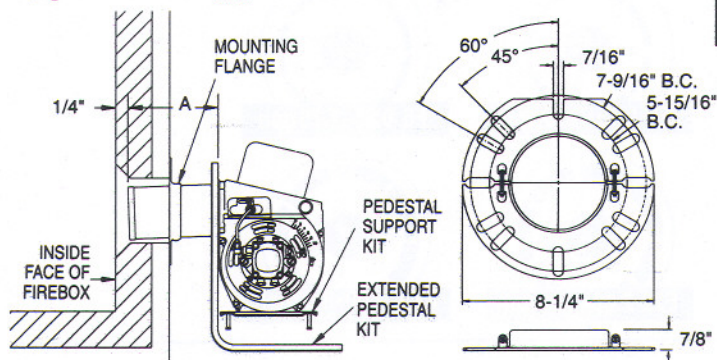
Order Accessories

1. Specify type of supports required.
2. Add any other items such as spare parts, related controls, valves, etc.

Fully Approved

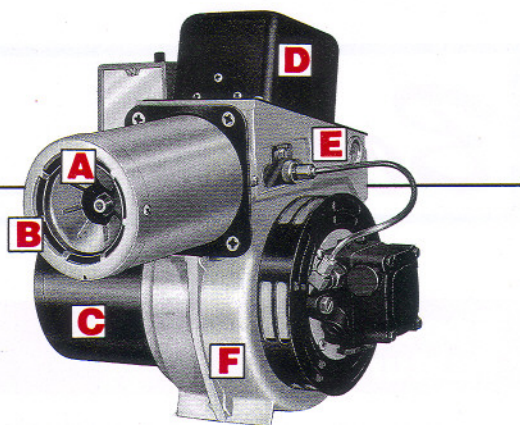
Listed by Underwriters' Laboratories, Inc.
Accepted by New York City M.E.A.
Approved by Commonwealth of Massachusetts
C.S.A. Certified

Optional Supports



No. 5685 Pedestal Support
For conversion applications.
No mounting flange is required.
Note: Part No. 5606 Extended Pedestal Support is also available, and provides elevation from 8-1/4\" to 13\".

No. 5850 or 5432 Adjustable Mounting Flange Kit
No. 5850 is a two-piece split flange.
No. 5432 is a one-piece flange.
Both kits include a flange mounting gasket.



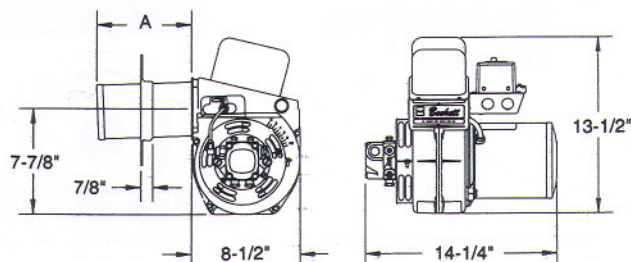
- A NOZZLE LINE ELECTRODE ASSEMBLY**
Self-centering, delivers oil to the nozzle, high voltage electricity to the electrodes; static plate controls and evens out air flow to the head for smooth, efficient combustion.
- B FLAME RETENTION HEAD**
One piece flame-retention burner head. Highly stable and intense combustion increases efficiency by as much as 35 percent.
- C DRIVE MOTOR**
Continuous duty, split phase motor, built for daily hard use and years of trouble-free operation. Overload protection included.
- D IGNITION TRANSFORMER**
10,000 V./23ma. secondary positively and smoothly ignites fuel. Electrically balanced and shielded. No TV interference. Designed for heavy duty continuous operation.
- E CONNECTOR TUBE FITTING**
Special Beckett, high quality flare fitting.
- F BURNER HOUSING**
Sturdy die cast, precisely machined aluminum housing aligns pump and motor for smoothest operation and longest coupling life.

Model SM Air Tube Combination Codes

AIR TUBE DIMENSION "A"	FIRING RANGE AND AIR TUBE MODEL NUMBERS		
6-5/8"	.5 - .85 SM65ND	.75 - 1.25 SM65SN	.85 - 1.75 SM65SP
9"	SM90ND	SM90SN	SM90SP
13"	SM130ND	SM130SN	SM130SP
16"	SM160ND	SM160SN	SM160SP
HEAD	F-0	F-3	F-6

AIR TUBE DIMENSION "A"	FIRING RANGE AND AIR TUBE MODEL NUMBERS		
6-5/8"	1.0 - 2.0 SM65VC	2.0 - 3.0 SM65FL	2.0 - 3.0 SM65FF
9"	SM90VC	SM90FL	SM90FF
13"	SM130VC	SM130FL	SM130FF
16"	SM160VC	SM160FL	SM160FF
HEAD	F-12	F-22	F-220

To Determine Air Tube Length



The Air Tube Length (Dimension A) is the distance from the front of the burner housing to the end of the air tube.