

# BURNERS

## 115 / 230 Volt Oil Burners



- .4 to 3 GPH firing rate
- 6-1/4" Blower fan 115V and 230V
- 3450 RPM Pump/blower motor
- Solid state ignition
- Beckett "CleanCut" fuel pump with oil valve
- Air tube 2-3/4"
- UL recognized

| Part No. | Description     |
|----------|-----------------|
| 307032   | Beckett AFG 115 |
| 307036   | Beckett AFG 230 |

## 12 Volt DC Oil Burner



- 12 Volt solid state ignition
- 1/6 HP
- 3450 RPM
- 4-1/4" Fan
- Beckett "CleanCut" fuel pump with oil valve

| Part No. | Description   | Oil Valve | Electric Eye | Motor RPM |
|----------|---------------|-----------|--------------|-----------|
| 307059   | Beckett 14V   | Yes       | —            | 3100      |
| 307061   | Beckett 13.5V | Yes       | Yes          | 3100      |

NOTE: Proper operation requires an engine with 16+ Amp alternator and deep cycle battery on nightly, overnight recharge

## Blower Wheels



| Part No. | Beckett Part No. | Description            |
|----------|------------------|------------------------|
| 079513   | 2288U            | 5-3/4D x 3-7/16W SF-SM |
| 079515   | 2383U            | 6-1/4D x 3-7/16W SR    |
| 079517   | 2999U            | 4-1/4D x 2-1/2WAFG     |
| 079518   | 21404            | 4-1/4D x 2-7/16W ADC   |

## Flex Couplings



| Part No. | Beckett Part No. | Description                  |
|----------|------------------|------------------------------|
| 079520   | 2454             | Flex Coupling 5/16 "A" (M/A) |
| 079521   | 2290             | Flex Coupling 7/16 "S" (J/H) |
| 079522   | 2433             | Flex Coupling 5/16 "S" (M/A) |
| 079523   | 21282            | Flex Coupling 7/16 "A" (J/H) |
| 079524   | 21405            | Flex Coupling 12 VDC         |

## Oil Burners



115 / 230 Volt



12 Volt

- .75 to 3 GPH firing rates
- Solid state ignition (Low Amp)
- High volume 6-1/4" blower on 220V unit, 5-3/16" blower on 110V unit
- 3450 RPM pump/blower motor
- "A" – type SUNTEC fuel pump
- 3-3/4" air tube with adjustable flange for maximum versatility
- UL recognized
- 12 Volt solid state ignitor
- 3450 RPM fuel pump
- .5 to 2.75 GPH Capacity with oil valve

| Part No. | Description                 |
|----------|-----------------------------|
| 307000   | 115V AC Burner w/ Oil Valve |
| 307003   | 230V AC Burner w/ Oil Valve |
| 307007*  | 12V DC Burner w/ Oil Valve  |

\*Proper operation requires an engine with 16+ Amp alternator and deep cycle battery on nightly, overnight recharge

## Electrode / Insulator Assembly



| Part No. | Beckett Part No. | Description            |
|----------|------------------|------------------------|
| 079534   | 5780             | Std to 9" AC,A,FSR, SM |
| 079535   | 5940             | Std to 9" MB/MD        |
| 079536   | 5781             | Std to 9" A & S        |
| 079548   | 578728           | ADC                    |

## Beckett Misc. Parts



| Part No. | Beckett Part No. | Description             |
|----------|------------------|-------------------------|
| 079530   | 149              | Electrode Clamps (ALL)  |
| 079542   | 5432             | Flange, w/ Gasket (ALL) |
| 079543   | 5850             | Flange, Split Unl A&S   |
| 079560   | 3616             | Gasket, Universal AMF   |
| 079562   | 3416             | Gasket, Unit Mtg        |
| 079592   | 5877             | Burner Housing AFG/ADC  |
| 079595   | 5717 (51400)     | Knurled Nut Kit ADC     |
| 079677   | 51304            | Transf Mtg Gasket AFG   |
| 079674   | 31404            | Transformer Clip        |
| 079654   | 7006U            | Cadcell Flame det       |
| 079684   | 7350U            | Primary Control         |
| 079675   | 3245             | Transformer Spring      |
| 079629   | AF90             | Air Tube w/o Head       |
| 079573   | 5151501          | Air Band (3 x 92 AFG)   |
| 079566   | 51568            | Brush Kit 12V ADC       |

## Burner Motors



48M



48N

| Part No.         | RPM                     | HP  | Flange | Voltage   | Wayne / Beckett  |
|------------------|-------------------------|-----|--------|-----------|------------------|
| 079602           | 3450                    | 1/7 | 48M    | 115V      | 20627 / 2456U    |
| 079605           | 3450                    | 1/4 | 48N    | 12V       | N/A / 21539-SDC  |
| 079607           | 3450                    | 1/6 | 48M    | 14VDC     | N/A / 21416U-ADC |
| 079608           | 3450                    | 1/7 | 48M    | 240V      | 20892 / 21174    |
| 079613           | 3450                    | 1/6 | 48M    | 13.5V     | 21699U           |
| 079615           | 3450                    | 1/5 | 48M    | 115/240V  | N/A / 21345      |
| 079021           | 4500                    | 1/5 | 48M    | 12VDC     | 21993-005 / N/A  |
| <b>Universal</b> |                         |     |        |           |                  |
| 079604           | 3450                    | 1/4 | 48N    | 115V      | N/A / 2364U      |
| 079609           | 3450                    | 1/4 | 48N    | 115/240V  | N/A / 21344      |
| 079611           | 3450                    | 1/5 | 48N    | 240V      | 21328 / 2899     |
| 079612           | 3450                    | 1/5 | 48N    | 115V      | 20554 / 2900     |
| 079021X          | Kit, 12VDC/MET to Fasco |     |        |           |                  |
| <b>Universal</b> |                         |     |        |           |                  |
| 079022           | 3450                    | 1/7 | 48M    | 110-60 Hz | Capacitor Start  |
| 079025           | 3450                    | 1/5 | 48N    | 110/240V  |                  |

## Blower Wheel



| Part No. | Wayne Part No. | Description       |
|----------|----------------|-------------------|
| 079005   | 20288/SER      | 5-3/16" x 3-7/16" |
| 079006   | 21854/SER      | 6-1/4" x 4-3/16"  |
| 078999   | 20673          | 4-1/4" x 3-1/8"   |
| 079003   | 21427/SER3     | 12V (Fasco)       |
| 079003A  | 21427          | (MET)             |

## Common Parts - Beckett & Wayne



Oil Line



Brass Elbow

| Part No. | Description                          |
|----------|--------------------------------------|
| 079526   | Oil Line, 6.5", Copper               |
| 079058   | Oil Line, 8", Copper                 |
| 079525   | Oil Line, 9.5", Copper               |
| 079066   | Brass 90° Elbow 1/8" flare, 1/8" MPT |
| 079067   | Brass 90° Elbow 3/16 flare, 1/8" MPT |
| 079020   | Oil Pressure Gauge 0 - 200 PSI       |
| 079051   | (28737-1) Nozzle Adapter             |

## Wayne Burner Parts



| Part No. | Wayne Part No.         | Description                                           |
|----------|------------------------|-------------------------------------------------------|
| 079056   | 31156                  | Burner Tune-up Kit                                    |
| 079052   | 14733-001<br>14734-002 | Electrode Assembly (Pair)<br>with Buss Bars – G shape |
| 079024   | 12945                  | Buss Bar – G shape                                    |
| 079034   | 14344                  | Burner Gasket                                         |
| 078785   | 12484                  | Universal Gasket                                      |
| 079014   | 4725                   | Burner Housing (E-Series)                             |
| 079016   | 2689                   | Burner Flange "F"                                     |
| 079059   | 13279                  | Flex Coupler A Fuel Unit                              |
| 079060   |                        | Coupler End (J Pump 7/16")                            |
| 079010   | 13360                  | Trans Clip Screw                                      |
| 079011   | 13038                  | Trans Clip                                            |
| 079004   | 2668                   | Outer Air Band (8 Hole)                               |
| 079007   | 2669                   | Inner Air Band (8 Hole)                               |
| 078979   | 31702-014              | Gun Assy, F/307007                                    |
| 078752   |                        | Nozzle Adapter w/legs MSR/DC                          |

## Fuel Conditioner & Soot Remover



Red Devil eliminates soot buildup.

- Easy to use – just add to burner fuel
- Keeps burner at top efficiency

| Part No. | Description   |
|----------|---------------|
| 112057   | Pint (16 oz.) |
| 112059   | Quart         |

See page 93 for Oil-Fired Hot Box

## Burner Transformers



- 10,000 Volt spark
- 2.2 Amp @ 120V
- 8.5 lbs
- Traditional copper wire wound

| Part No. | Beckett Part No. | Mounting                 | Volt     |
|----------|------------------|--------------------------|----------|
| 079668   | 51343U           | AFG                      | 230V     |
| 079662   | 21376U           | S-SF-SR-SM               | 120V     |
| 079665   | 21176U           | SM                       | 240V     |
| 079672   | 21346            | AFG                      | 120/240V |
| 079673   | 31488BK          | Adapter Plate; AFG to SM |          |

## Burner Ignitors



- Solid State Technology
- 14,000 Volt spark
- Only .35 Amp @ 110V
- 1.7 lbs

| Part No. | Beckett Part No. | Mounting     | Volt  |
|----------|------------------|--------------|-------|
| 079669   | 51501U           | AFG/Lo Amp   | 115V  |
| 079671   | 51524U           | ADCw/o CB    | 12VDC |
| 079670*  | 51499U           | ADCw/ CB     | 12VDC |
| 079707   | 51506U           | SDCw/ Con BD | 12VDC |
| 079682   | 51824U           | SDC          | 120V  |
| 079687   | 51779U           | SDCw/o CB    |       |

\*complete with Timer

## Base Plates for Transformers & Ignitors



| Part No. | Description  |
|----------|--------------|
| 079644   | A, Trans/Ign |
| 079645   | S, Trans/Ign |
| 079646   | E, Trans/Ign |
| 079647   | M, Trans/Ign |

## Burner Transformers



- 10,000 Volt spark
- 2.2 Amp @ 120V
- 8.5 lbs
- FranceFormer

| Part No. | Wayne Part No. | Mounting    | Volt |
|----------|----------------|-------------|------|
| 079115   | 23101/E        | Side/EH-EHA | 120V |
| 079117   | 23101/M        | Back/M-MSR  | 120V |
| 079123   | 23103/E        | Side/EH-EH  | 230V |
| 079124   | 23103/M        | 10KVA/Side  | 120V |

## Burner Ignitors



- Solid State Technology
- 14,000 Volt spark
- Only .35 Amp @ 120V
- 1.7 lbs

| Part No. | Wayne Part No. | Mounting              | Volt |
|----------|----------------|-----------------------|------|
| 079111   | 101122/001     | Side/EH-EHA, France   | 120V |
| 079113   | 101121/001     | Back/M-MSR, France    | 120V |
| 079107   | 31813-002      | Side/EH-EHA, Allanson | 220V |
| 079109   | 31812-002      | Back/M-MSR            | 220V |
| 079120   | 31812-003      | Rear Mount, Carlon    | 12V  |
| 079152   | 31813003       | Side Mount(E)         | 12V  |

## 12 VDC KIP Fuel Solenoid Valve



- Brass body
- 12V DC coil
- 1/8" FPT I/O ports
- Conduit connector
- 5/64" orifice = 6 watt

| Part No. | Description         |
|----------|---------------------|
| 079652   | Fuel Solenoid Valve |

## Oil Solenoid Valve



- Unitized mounting on Suntec fuel pumps
- 1/8" FPT Inlet
- 300 PSI
- Uses standard SUNTEC coil

| Part No. | Description                |
|----------|----------------------------|
| 079062   | 110V Oil Valve - R642      |
| 079063   | 220V Oil Valve - R753      |
| 079064   | 12/24V Oil Valve - R261    |
| 079125   | Flow Thru Connector Bolt   |
| 079126   | Aluminum Seal Washer       |
| 079053X  | 110V Coil w/ Cord Set      |
| 079054X  | 230V Coil w/ Cord Set      |
| 079050X  | 12/24 Coil w/ Cord Set     |
| 079096   | 115V Coil w/o Cord Set     |
| 079097   | 230V Coil w/o Cord Set     |
| 079098   | 12/24VDC Coil w/o Cord Set |
| 079099   | Cord Set Only              |
| 079047   | 8mm Nut for Old Style Coil |

## Fuel Pumps



- Use with single or dual line systems
- Pressure adjustment valve

| Part No.                      | Description                          | Qty | Flow | Pressure |
|-------------------------------|--------------------------------------|-----|------|----------|
| <b>Standard Pumps</b>         |                                      |     |      |          |
| 079030                        | A2VA7116                             | 3   | 3450 | RH       |
| 079031                        | A1VA7112                             | 3   | 1725 | RH       |
| 079033                        | A2VC7118                             | 3   | 3450 | LH       |
| 079036                        | A1YA7912                             | 7   | 1725 | RH       |
| 079037                        | A2YA7916                             | 7   | 3450 | RH       |
| 079028                        | A2RA7710                             |     |      | RH       |
| <b>Pumps with Solenoid</b>    |                                      |     |      |          |
| 079038                        | A2VA2116 w/12V                       |     | 3450 | RH       |
| 079038-110                    | A2VA2116 w/110V                      | 3   | 3450 | RH       |
| 079038-220                    | A2VA2116 w/220V                      | 3   | 3450 | RH       |
| <b>Pump Replacement Parts</b> |                                      |     |      |          |
| 079044                        | 3715732 Pump Fuel Screen (A2VA 7116) |     |      |          |
| 079055                        | 3715744 Pump Fuel Screen (A2VA 7916) |     |      |          |
| 079045                        | 3779801 Gasket Cover                 |     |      |          |
| 079164                        | Lip Seal                             |     |      |          |

## CleanCut Fuel Pump



Simple design provides faster cleaning, more reliable cut offs, and cut ons. Cleaner operation-less soot. More reliable-fewer moving parts. Reduced motor load in start up. Higher capacity - 4 GPM at 100 PSI.



- 100-200 PSI - Factory set 100 PSI
- Inlet pressure 10 PSI
- Rated speed 3600 RPM
- Includes built in solenoid w/ cord set

| Part No. | Description |
|----------|-------------|
| 079641   | 110 Volt    |
| 079642   | 220 Volt    |
| 079643   | 12 Volt     |

## Insulation & Rigid Disc / Donuts

Refractory Grade Ceramic **Kawool** Formed; retains heat inside coil for better fuel efficiency and paint protection.



| Part No.                                | Description | Thickness | Width | Length  |
|-----------------------------------------|-------------|-----------|-------|---------|
| <b>"Rigid Formed" Donut &amp; Discs</b> |             |           |       |         |
| 122253                                  | Donut       | .88"      | 18"   | 6"/4.4" |
| 122258                                  | Donut       | .88"      | 16"   | 6"/4.4" |
| 122254                                  | Disc        | 1/2"      | 18"   |         |
| 122257                                  | Disc        | 1/2"      | 16"   |         |
| <b>Insulation Blanket</b>               |             |           |       |         |
| 122204                                  | Coil Wrap   | 1"        | 24"   | 4'      |
| 122205                                  | Coil Wrap   | 1"        | 24"   | 5'      |
| 122206                                  | Coil Wrap   | 1"        | 24"   | 6'      |
| 122222                                  | Full Roll   | 1/2"      | 24"   | 37.5'   |
| 122225                                  | Full Roll   | 1"        | 24"   | 25'     |

## Smoke Tester - Diagnostic Tool

The smoke tester gives you the ability to measure smoke (soot) density and adjust air flow and fuel pressure to optimize burner performance.



### A properly tuned burner:

- Heats water more efficiently
- Doesn't build up soot in the coil
- Doesn't pollute the air
- Keeps your customers happy
- A tool that should be used by every serviceman in the industry.

| Part No. | Description          |
|----------|----------------------|
| 449020   | Smoke Tester         |
| 449019   | Filter Paper Refill* |

\*40 sheet (10 tests per sheet)

## Delavan Fuel Nozzles



Select proper size for maximum burner efficiency.

| Part No. | GPH         |
|----------|-------------|
| 079477   | 2.00 x 60°W |
| 079479   | 1.65 x 80°W |
| 079480   | 1.50 x 80°W |
| 079481   | 1.75 x 80°W |
| 079482   | 2.00 x 80°W |
| 079483   | 2.25 x 80°W |
| 079484   | 2.50 x 80°W |
| 079486   | 2.75 x 80°W |
| 079487   | 3.00 x 80°W |
| 079490   | 4.00 x 80°W |
| 079505   | 1.65 x 90°W |
| 079492   | 2.00 x 90°W |

NOTE: The above "W" Nozzles are stocked. All Sizes Are Available

| GPH  | 60° A Hollow | 60° B Solid | 70° A Hollow | 70° B Solid | 80° A Hollow | 80° B Solid | 90° A Hollow | 90° B Solid |
|------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
| .50  | 079225       | 079250      | 079275       |             | 079325       |             |              | 079400      |
| .60  |              |             |              |             | 079326       | 079351      | 079376       |             |
| .65  | 079227       |             |              |             | 079327       | 079352      | 079377       |             |
| .75  |              | 079253      |              | 079303      | 079328       | 079353      | 079378       | 079403      |
| .85  | 079229       | 079254      |              |             | 079329       | 079354      |              | 079404      |
| .90  | 079230       | 079255      |              |             | 079330       | 079355      | 079380       |             |
| 1.00 | 079231       | 079256      | 079281       | 079306      | 079331       | 079356      | 079381       | 079406      |
| 1.10 | 079232       | 079257      |              |             | 079332       | 079357      | 079382       | 079407      |
| 1.20 | 079233       | 079258      | 079283       |             | 079333       | 079358      |              |             |
| 1.25 | 079234       | 079259      |              | 079309      | 079334       | 079359      | 079384       | 079409      |
| 1.35 | 079235       | 079260      |              | 079310      | 079335       | 079360      | 079385       | 079410      |
| 1.50 | 079236       | 079261      | 079286       |             | 079336       | 079361      | 079386       | 079411      |
| 1.65 | 079237       | 079262      |              |             | 079337       | 079362      | 079387       | 079412      |
| 1.75 | 079238       | 079263      | 079288       | 079313      | 079338       | 079363      | 079388       | 079413      |
| 2.00 | 079239       |             |              | 079314      | 079339       | 079364      | 079389       | 079414      |
| 2.25 | 079240       | 079265      |              | 079315      | 079340       | 079365      | 079390       | 079415      |
| 2.50 | 079241       | 079266      | 079291       |             | 079341       | 079366      | 079391       | 079416      |
| 2.75 | 079242       | 079267      |              |             | 079342       | 079367      | 079392       | 079417      |
| 3.00 |              |             | 079293       |             | 079343       | 079368      | 079393       | 079418      |
| 3.25 | 079244       |             | 079294       |             |              | 079369      | 079394       | 079419      |
| 3.50 |              | 079270      |              |             | 079345       | 079370      | 079395       | 079420      |
| 4.00 |              |             |              |             | 079346       | 079371      | 079396       | 079421      |
| 5.00 |              |             |              |             |              | 079373A     | 079398       |             |
| 6.00 |              |             |              |             |              | 079374      |              | 079425      |
| 6.50 |              |             |              |             |              | 079372      |              |             |
| 7.00 |              |             |              |             |              |             |              |             |
| 8.00 |              |             |              | 079324      |              |             |              |             |

## "Snap" Fuel Nozzle Check Valve

Spring loaded "snap" check valve replaces filter element on fuel nozzle. Valve opens when fuel pump pressure reaches 130 PSI and "snaps" shut when fuel pressure drops below 130 PSI. Stops "smokey" burners at start up and eliminates "shut down" after burn.



- Reduces nozzle fouling caused by residual fuel in orifice
- Easy field installation in standard fuel nozzles
- Reduces soot build up in coil

| Part No. | Description                        |
|----------|------------------------------------|
| 079210   | Snap Fuel Valve, 100 PSI           |
| 079211   | Snap Fuel Valve, 130 PSI           |
| 079215   | Snap Check Valve, 130 PSI (5 pack) |
| 079214   | Snap Check Valve, 100 PSI (5 pack) |

## Nozzle Accessories



| Part No. | Description                                                |
|----------|------------------------------------------------------------|
| 079221   | Nozzle Tray (Metal)<br>(Open Top, 55-Compartment, Plastic) |

## Cycle Pilot

Gas Auto Relight Kits. Eliminate standing pilot in gas burners with a cycle pilot relight kit. Retro Fit Kit includes: Gas valve, flame sensor, electrode pilot relight and harness.



| Part No. | Description                       |
|----------|-----------------------------------|
| 347425   | 24V Retrofit Kit (NG) 100,000 BTU |
| 347418   | 24V Retrofit Kit (NG) 335,000 BTU |
| 347379   | 24V Retrofit Kit (NG) 720,000 BTU |
| 347416   | Cycle Pilot Control (347425) 24V  |
| 347440   | Cycle Pilot Control 120V          |
| 347446   | Gas Ignition Electrode (24" Lead) |



## Gas Burner Rings - N/G or L/P Gas Jets

The Standard for Gas-Fired Pressure Washers. Impinged Jet Burner Rings offer the most efficient utilization of gas for heating water.



Gas Burner Ring

| Part No.                     | Model No. | Jets Req'd | 1000 BTUH |
|------------------------------|-----------|------------|-----------|
| <b>Gas Burner Rings Only</b> |           |            |           |
| 347502                       | Z-21      | 20         | 100-200   |
| 347504                       | X-11      | 32         | 160-320   |
| 347506                       | X-44      | 44         | 220-440   |
| 347508                       | X-66      | 66         | 330-660   |
| 347510                       | X-88      | 88         | 440-880   |



Gas Jets

| Part No.                                  | Drill Size              | Orifice Size | Use |
|-------------------------------------------|-------------------------|--------------|-----|
| <b>Gas Jets for Burner Rings* (above)</b> |                         |              |     |
| 347552                                    | #52                     | (.0635)      | NG  |
| 347554                                    | #54                     | (.055)       | NG  |
| 347562                                    | #62                     | (.038)       | LP  |
| 347565                                    | #65                     | (.035)       | LP  |
| 347566                                    | #66                     | (.033)       | LP  |
| 347549                                    | Blank (Must Be Drilled) |              |     |

\*Due to freight damage on assembled rings / jets...Separately order correct number & size of jets for each burner ring.

## Gas Valves - LP or Natural

Universal type for building new systems or field replacement. 750 MV, 24V or 120V Controls by White-Rodgers.



- 335,000 BTU max
- 3/4" inlet/outlet
- All adjustments & wiring connections on top of valve
- Automatic outlet pressure regulator
- A.G.A. design certified, C.G.A. certified

| Part No. | Description            | Model No. |
|----------|------------------------|-----------|
| 347400   | Gas Valve 24V (1)      |           |
| 347410   | Gas Valve 120V (2)     |           |
| 347412   | Gas Valve 750 MV (1)   |           |
| 347423   | 3/4" LP Conversion Kit |           |

(1) Includes two 3/4" x 1/2" all-thread plated bushings and valve instructions.

(2) Includes L.P. Kit, two 3/4" x 1/2" and one 1/2" x 3/8" all-thread plated bushings and all instructions.

## 1" Gas Valves by Robert Shaw

Universal type for new equipment or replacement.



- Manual gas cock
- Auto pilot safety valve
- Wiring & hardware included
- Pilot gas filter
- 600,000 BTU LP gas  
720,000 BTU Natural Gas
- 1" inlet/outlet

| Part No. | Description                     | Model No. |
|----------|---------------------------------|-----------|
| 347406   | 240 Vac/NG, Standing Pilot      |           |
| 347407   | 24 Vac, NG, Standing Pilot      |           |
| 347403   | 24 Vac, NG, Electronic Ignition |           |
| 347409   | 700 MV, Natural Gas             |           |

LP Conversion Kit below

## LP Conversion Kit for Robert Shaw

Convert NG to LP



| Part No. | Description          |
|----------|----------------------|
| 347421   | 1" LP Conversion Kit |
| 347380   | LP Orifice           |

## Gas Valve Accessory Components

Use with both 3/4" and 1" models above.



347436

| Part No. | Description                      |
|----------|----------------------------------|
| 347430   | 750 MV Generator                 |
| 347431   | P110T Pilot Burner (Natural gas) |
| 347436   | Thermo Couple (w/ 24") Cap Tube  |
| 347438   | Thermo Couple (w/ 36") Cap Tube  |

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