

Replacement Parts

List

Unipower A7 Series Gas

IMPORTANT: Availability of parts as well as specifications are subject to change without notice. Please consult factory for item availability.



First Construction October 1978.
Installation Manual 8449-11 (formerly UA4)

GENERAL BURNER PARTS

BURNER CHASSIS

- 7301-90 Box Assembly with Flange, Nozzle and Gas Manifold
- 7354-51 Nozzle
- 7373-00 Mounting Flange
- 7376-00 Drawer Assembly

BLOWER HOUSING

- 7327-80 Air Shutter
- 3152-01 Quadrant -- for Air Shutter adjustment
- 7349-10 Air Shutter Shaft
- 7348-02 Blower Inlet Ring

BLOWER WHEELS (5/8 BORE)

- 7349-00 A73 -- 7" Diameter x 4" Wide
- 3628-50 A75 - 77 -- 75/8" Diameter x 3 1/2" Wide

BLOWER MOTORS 1-Phase, 56C Frame (3450 RPM, 5/8" Shaft) OPEN DRIPPROOF

- 8437-26 A73 -- 1 1/2 HP, 115/230/1/60
- 8437-24 A75 - 77 -- 2HP 115/230/1/60

BLOWER MOTORS 3-Phase, 56C Frame (3450 RPM, 5/8" Shaft) OPEN DRIPPROOF

- 8440-09 A73 -- 1 1/2 HP, 208/230/460/3/60
- 8440-03 A75 - 77 -- 2 HP, 208/230/460/3/60
TEFC(Totally Enclosed, Fan Cooled)

- 8440-23 A75 - 77 -- 2 HP 208/230/460/3/60

GAS PILOT

- 7124-40 Flamerod and Insulator Assembly
- 7105-50 Spark Rod and Insulator Assembly
- 8451-06 Flamerod Insulator Protecting Sleeve
- 3175-40 Spark Rod Gland Nut
- 8484-06 Flamerod or Spark Rod Wire without Terminals -- sold per foot
- 8408-08 Snap Connector -- angular with stud Terminal -- connects to Flamerod
- 8408-07 Snap Connector -- right angle with Spring terminal -- connects to Spark Rod
- 7151-50 Flame Detector Mounting Tube
- 7150-92 Pilot Assembly with NATURAL Gas Orifice (without Air Orifice)
- 7150-93 Pilot Assembly with PROPANE Gas Orifice (without Air Orifice)
- 7161-52 Gas Orifice Tee Kit -- NATURAL -- #45 Drill (.082) -- See Note below
- 7161-53 Gas Orifice Tee Kit -- PROPANE -- #50 Drill (.070) -- See Note below
- 7162-01 Air Orifice Ell -- 9/32" Drill
- 8402-40 1/8" NPT Pilot Safety Shut-Off Valve -- 120/1/60
- 8400-10 1/4 NPT Gas Pressure Regulator -- 1/2 PSI maximum inlet pressure
- 8416-32 3/8 NPT Gas Pressure Regulator -- 10 PSI maximum inlet pressure
- 8447-11 Ignition Transformer -- 120/1/60, 6000 volt secondary

NOTE: Effective production date code 486 (January 20, 1986), the pilot pressure tap was moved from the "B" cock assembly to the pilot assembly. To accomplish this change, the early ell orifice was modified to a tee orifice to incorporate a pressure tap. Each replacement orifice kit

contains enough fittings to adapt to all early pilots.

Effective production date code 4586 (first week of November, 1986), the drill size on the tee orifice was reduced for NATURAL gas. This change resulted when field experience indicated that a reduced drill size improved flame signal response. All replacement assemblies will be supplied with new orifice size.

SAFETY AND OPERATING CONTROLS-120/1/60

FLAME SAFEGUARD

- 8429-16 Q7800 Subbase
- 8429-17 RM7840M Flame Safeguard
- 8429-22 30-Second Timer
- 8429-25 90-Second Timer
- 8429-27 Rectification Amplifier
- 8429-28 Keyboard Display Module
- 8429-30 Plug-in UV Amplifier
- 8429-33 RM7840L1018 Flame Safeguard
- 8429-36 S7830A1005 Expanded Annunciator

OTHER CONTROLS

- 8423-03 On-Off Toggle Switch (CH 7500K14)
- 8425-19 Blower Air Switch (Chgo. Safety Prod. #SMP; Tridelta #FP4039)



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OTHER CONTROLS Continued

8425-42	High Gas Switch (GMHA4-4-4) See Note #1
8425-43	Low Gas Switch (GMLA4-4-4) See Note #1
8406-39	R4222B SPDT Switching Relay
8406-38	R4222D DPDT Switching Relay
8415-20	Single Phase Motor Contactor; 3PST (A-H ACC-230-UM20)
8415-90	AC Magnetic Contactor See Note #4
8415-91	Thermal Overload Relay (#193-A1D1)
8415-92	Thermal Overload Relay (#193-A1E1)
8415-93	Thermal Overload Relay (#193-A1F1)
8415-94	Thermal Overload Relay Mount

MAIN GAS TRAIN COMPONENTS

MOTORIZED VALVES

V5055A Body Without "Proof of Closure" Switch

8418-33	1 1/4"
8418-34	1 1/2"
8418-35	2"
8418-36	2 1/2"

V5055C Body With "Proof of Closure" Switch

8418-91	1 1/4"
8418-92	1 1/2"
8418-93	2"
8418-94	2 1/2"

Valve Actuators Without "Proof of Closure" Switch

8418-31	V4055A On-Off
8418-79	V4062A Low-High-Low-Off

Valve Actuators With "Proof of Closure" Switch

8418-88	V4055D On-Off
8418-97	V4062D Low-High-Low-Off

SOLENOID VALVES

Safety Valves -- Normally Closed

8402-06	1 1/4"
8402-07	1 1/2"
8402-18	2"
8402-19	2 1/2"

Vent Valves -- Normally Open

8402-30	3/4"
8402-31	1"

PRESSURE REGULATORS -- MAXITROL RV SERIES

8416-02	1 1/4" RV61
8416-05	1 1/2" RV81
8416-08	2" RV91
8416-11	2 1/2" RV111

FIRING RATE CONTROLS

BF VALVES (Butterfly Valves)

2933-51	1 1/4"	2933-54	2 1/2"
2933-52	1 1/2"	2933-55	3"
2933-53	2"	2933-56	4"

MBF VALVES (Motorized Butterfly Valves)

(Contains Modutrol Motor Mounting Plate, Overrunning Linkage and Stop Arm)

2010300	1 1/4"	2010600	2 1/2"
2010400	1 1/2"	2010700	3"
2010500	2"	2010800	4"

MODUTROL MOTORS -- See Note 3

8414-21	M9484D Full Modulating (no End Switch)
8414-20	M9484E Full Modulating with End Switch
8414-19	M9484F Full Modulating with Two End Switches
8414-24	MH 198162EA 24V Transformer for use with M9484

MISCELLANEOUS REPLACEMENT

PARTS FOR FIRING RATE CONTROL

MBF Valve -- Motorized Butterfly Valve SRBF Valve -- Spring Return Butterfly Valve (Valve Actuator Operated)

2926-50 Overrunning Spring and Rod Assembly -- 1" through 1 1/2" MBF Valve

2926-55 Overrunning Spring and Rod Assembly -- 2" through 3" MBF Valve

2926-00 MBF Overrunning Spring

7180-30 SRBF Return Spring

2919-02 Stop Arm for MBF Valve

8414-03 Crank Arm -- Mod Motor or Valve Actuator Shaft

8450-94 Crank Arm -- Air Shutter and MBF Valve Shafts

7180-20 Connecting Rod -- Air Shutter to MBF Valve or Valve Actuator

8450-18 Connecting Rod Ball Joint

8432-02 3/8" dia. O-Ring for BF and MBF Valves

INCINERATOR CONTROLS

8414-22 Q7230A 4-20 MA Control Module for use with M9484 Modutrol Motors

8425-18 Thermal Switch (Therm-O-Disc, 6OT-13-203125)

NOTES

1. Replacement individual high or low gas pressure switches may be a different make and have a different physical configuration than that of previously supplied but the mounting and wiring should be the same. For proper wiring consult the factory.
2. 30-second minimum pre-ignition purge used with on-off burners having the blower air shutter locked in a "fixed" firing rate position. Where the air shutter position is automatically controlled, a 90-second minimum purge or a purge with the air shutter driven to the "high fire" position is required.
3. Honeywell discontinued manufacturing their M941 series Modulating Motors mid 1992. MIDCO stock ran out late 1992 when MIDCO switched to Honeywell M9484 Series Motors. The newer M9484 Motors are physically shorter and require an Adaptor Bracket to mount to MIDCO MBF valves. The replacement Mod Motors shown in listing include the necessary Adaptor Bracket. The accessory items used on the newer M9484 Motors and the 24V Transformers are NOT interchangeable with the older M941 Motors. If exact replacements are required for the M941 Motor, consult your local Honeywell distributor for available Tradeline replacement. When ordering 4-20 MA Control Module, Honeywell Q7230A, request MIDCO Blue Print 7503-07 which details revised terminal call outs.
4. Three phase Arrow-Hart (A-H) Motor Starters and accessories no longer available from MIDCO. Obtain locally or substitute the listed SQ-D equipment. NOTE: The SQ-D equipment is not identical to the A-H equipment. Mounting and wiring modifications will be necessary. If substituting SQ-D for A-H, request wiring diagram 7501-50.

