

Power Flame Incorporated



“HAC” BURNER PARTS LIST

THE POWER TO MANAGE ENERGY

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HACPB 6/84
REV 1299

INSTRUCTIONS FOR ORDERING

1. Always specify model and serial number of burner.
2. Include nameplate information, such as model, range, voltage, etc.
3. Certain fabricated components cannot be selected without reference to the specific Bill of Materials for your burner (these components are individually noted in this Book). Bill of Materials are included with all burner shipments. Should additional copies be required, they will be supplied at no charge. Consult factory.

MINIMUM BILLING \$50.00 NET PLUS TRANSPORTATION CHARGES

**IDENTICAL ITEMS MAY NOT ALWAYS BE AVAILABLE
BUT ITEMS OF EQUAL OR BETTER QUALITY WILL BE FURNISHED**

ALL PUBLISHED PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

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-e-

1 BLOWER HOUSINGS

- C30151 HAC3
- C30152 HACR3
- C30171 HAC4-6
- C30172 HAC4 with Integral Pump
- C30173 HACR4-6
- C30179 HACR4 with Integral Pump

2 **BLAST TUBE ASSEMBLIES**

Refer to Bill of Materials

4 **DIFFUSERS**

Refer to Bill of Materials

5 **DAMPER BLADES**

C10560 HAC3
C10561 HAC3-CGA
C10576 HAC4/5/6
C10577 HAC4/5/6-CGA

6 **DAMPER AXLES**

C80590 HAC3
C80611 HAC4/5/6

7 **DAMPER AXLE BUSHING**

93015 HAC3/4/5/6

8 **MOTOR MOUNTING PLATES**

C10751 HAC3 182TC
C10760 HAC4/5/6 56C
C10810 HAC4/5/6 184T

9 **BACK PLATE ASSEMBLIES**

C24030 HAC3
C24031 HAC3 for Top Mounted Pilot
C24040 HAC4/5/6
C24041 HAC4/5/6 for Top Mounted Pilot

10 **AIR COMPRESSORS**

00326 GAST 7LDE-10-M700X 115/230/1

75035 GAST 7LDE-10-M853 208/230/460/3
75130 CURTIS D50 less Motor
75140 CURTIS D80 less Motor

10.1 AIR COMPRESSOR BASE

P23111

10.2 AIR COMPRESSOR BELT GUARD

P23150

10.3 AIR COMPRESSOR BELT

77025 A70

10.4 AIR COMPRESSOR PULSATION CHAMBERS ASSEMBLY

P23011 12"
P23051 15"
P23080 GAST

10.5 AIR COMPRESSOR SAFETY POP OFF

75170 NO. 3022-90 48A 1/2"

10.6 AIR COMPRESSOR MOTOR SHEAVES

77246 2TA64
77740 Bushing P1 x 1 1/8"
77247 1TB70
77730 Bushing P1 x 7/8"

11 PREHEATER SHELL ASSEMBLIES

P22345 13"
P22340 18"
P22341 20"

11.1 PREHEATER ELEMENTS

58071 BDF-2 208-13-3
58074 BDF-2 230-13-3
58073 BDF-2 440-13-3
58087 BDF-3 208-18-3
58079 BDF-3 230-18-3

| | |
|-------|----------------|
| 58084 | BDF-3 480-18-3 |
| 58080 | BDF-4 208-20-3 |
| 58086 | BDF-4 230-20-3 |
| 58090 | BDF-4 440-20-3 |
| 58105 | BDF-5 208-20-3 |
| 58102 | BDF-5 230-20-3 |
| 58110 | BDF-5 460-20-3 |
| 58116 | BDF-6 208-20-3 |
| 58113 | BDF-6 230-20-3 |

15 **MOTORS**

BURNER MOTORS, 3450 RPM, 60 Hz

| | |
|-------|-------------------------------|
| 05463 | 3 HP, 208/230/460/3/56C |
| 05465 | 3 HP, 208/230/460/3/145TC |
| 05522 | 5 HP, 208/230/460/3/182TC |
| 05476 | 7 1/2 HP, 208/230/460/3/184TC |

AIR COMPRESSOR MOTORS, 1725 RPM, 60 Hz

| | |
|-------|--------------------------|
| 05530 | 2 HP, 230/460/3/145T |
| 05532 | 3 HP, 208/230/460/3/182T |

REMOTE OIL PUMP MOTORS, 1725 RPM, 60 Hz

| | |
|-------|--------------------------|
| 05412 | 1/3 HP 115/208/230/1/56C |
| 05540 | 1/3 HP 208/230/460/3/56C |
| 05558 | 3/4 HP 115/230/1/56C |
| 05559 | 3/4 HP 208/230/460/3/56C |
| 05563 | 1 HP 208/230/460/3 56C |

15.1 **AIR COMPRESSOR MOTOR SLIDE RAILS**

| | |
|-------|------|
| 03470 | 182T |
| 03465 | 145T |

16 **BLOWER WHEELS**

| | |
|-------|-----------------|
| 08251 | 9 1/8 X 4 X 5/8 |
|-------|-----------------|

| | |
|-------|-----------------------|
| 08285 | 9 1/8 X 4 X 7/8 |
| 08380 | 9 7/8 X 5 X 1 1/8 |
| 08386 | 9 7/8 X 5 1/2 X 1 1/8 |
| 08387 | 9 7/8 X 6 X 1 1/8 |

16.5 BALANCED BLOWER ASSEMBLIES

Consists of ODP 208/230/460/3 Motor, Motor Mounting Ring and Blower Wheel Balanced as an Assembly.

FOR HAC4 (5HP)
FOR HAC5, C6 (7 1/2 HP)

17 PANEL BOX HINGED TOPS

| | |
|--------|---------------|
| E20036 | 15 1/2" X 17" |
| E20041 | 15 1/2" X 24" |
| E20046 | 15 1/2" X 34" |

17.1 PANEL BOX BODIES

| | |
|--------|---------------|
| E20034 | 15 1/2" X 17" |
| E20044 | 15 1/2" X 24" |
| E20049 | 15 1/2" X 34" |

17.2 PANEL BOX CHASSIS PLATES

| | |
|--------|---------------|
| E10302 | 15 1/2" X 17" |
| E10311 | 15 1/2" X 24" |
| E10321 | 15 1/2" X 34" |

17.3 PANEL BOX DOORS

| | |
|--------|---|
| E20112 | 15 1/2" X 17" |
| E20122 | 15 1/2" X 24" |
| E20132 | 15 1/2" X 34" |
| E30002 | 15 1/2" X 17" with Viewport for E100/RM7800 |
| E30012 | 15 1/2" X 24" with Viewport for E100/RM7800 |
| E30013 | 15 1/2" X 34" with Viewport for E100/RM7800 |

18 PANEL BOX MOUNTING BRACKETS

| | |
|--------|----------------------------|
| E10610 | Integral |
| E10631 | Wall Mounting Bracket Left |

E10641 Wall Mounting Bracket Right

18.1 PANEL BOX DOOR LATCH AND KNOB

91050 Southco Latch

**18.2 -
18.5**

FLAME SAFEGUARD CONTROLS

FIREYE

D SERIES

CONTROLS AND SUBBASE

37230 60-1386-2 Subbase
38000 70D10C

AMPLIFIERS

38200 72DRT1 Rectification
38220 72DUV1 Ultraviolet
38210 72D1R1 Infrared

PROGRAMMER

38100 71D60 30 Seconds for 70D10, 70D20

E SERIES

CONTROL AND SUBBASE LESS PROGRAMMER AND AMPLIFIER

37230 60-1386-2 Subbase
39880 E110 Fireye Microprocessor Flame Monitor
39842 ED510 Fireye Display Module

PROGRAMMERS

39810 EP160 60 Seconds Supervised Prepurge Interrupted Ignition/Pilot
39882 EPD160 60 Seconds Supervised Prepurge Interrupted
Ignition/Pilot

AMPLIFIERS

39820 ERT1 Flame Rod Photocell Rectification
39821 EUV1 Ultraviolet
39822 EIRI Infrared

39823 EUVS4 Ultraviolet Self-Check
39830 E300 Expansion Module
39831 E350-3 3 Foot Ribbon Connector Cable
39832 E360-6 6 Foot Ribbon Connector Cable
39835 60-1950 Wiring Base for E300 Expansion Module
39840 ED500 Display Module

ACCESSORIES

39846 ED512-4 RJ 12 Connector Cable
39851 ED610 Multi-port Cable Adaptor
39849 E500-1 Communication Interface
39850 E500-3 Communication Interface
39900 E340 Boiler Room Control

HONEYWELL

R4140 SERIES

CONTROLS AND SUBBASE

40060 Q520A-1089 - 3 Sides Subbase
40070 Q520A-1121 - 4 Sides Subbase
39335 R4140L-1105 60 Seconds Purge

AMPLIFIERS

40530 R7247A-1005 Rectification, Green
40560 R7248A-1004 Infrared, Red
40570 R7249A-1003 Ultraviolet, Purple

BC7000 SERIES

CONTROL AND SUBBASES LESS PROGRAMMER

40060 Q520A-1089 - 3 Sides Subbase
40070 Q520A-1121 - 4 Sides Subbase
39700 BC7000L-1000 Micro Computer Control

PROGRAMMERS

39720 PM720L-2004
39721 PM720L-1139

RM 7800 SERIES

FLAME SAFEGUARD PROGRAMMER, LESS BASE, AMPLIFIER AND TIMER

39750 RM7840E-1016
39752 RM7840L-1018

FLAME SAFEGUARD PROGRAMMER WITH DISPLAY, LESS BASE, AMPLIFIER AND TIMER

39754 RM7800E-1010
39756 RM7800L-1012

SUBBASES

40090 Q7800A-1005 Plastic (Internal) Mount
40091 Q7800B-1003 Metal (External) Mount

AMPLIFIERS

40691 R7847C-1005 Self Check, Ultraviolet, 3 Seconds
40692 R7848A-1008 Non Self Check, Infrared, 3 Seconds
40695 R7849A-1023 Non Self Check, Ultraviolet, 3 Seconds
40696 R7848B-1021 Dynamic Check, Ultraviolet, 3 Seconds
40697 R7848B-1006 Dynamic Check, Infrared, 3 Seconds

TIMING CARDS

40771 ST7800A-1039 30 Seconds
40772 ST7800A-1062 90 Seconds

18.6 OPERATING AND LIMIT CONTROLS

STEAM PRESSURE CONTROLS

43400 PA404A-1009 .5-9 PSI Range, SPST Switch Breaks on Pressure Rise
43205 L404A-1354 2-15 PSI Range, 1-6 PSI Differential, SPST Switch, HW
Pressuretrol, no Siphon
43225 L404A-1396 10-150 PSI Range, 8-16 PSI Differential, SPST Switch,
HW Pressuretrol, no Siphon
43270 L404C-1162 10-150 PSI Range, no Adjustment Differential, SPST

| | |
|-------|--|
| | Switch, HW Pressuretrol, Manual Reset |
| 43280 | L404C-1147 2-15 PSI Range, no adjustment Differential, SPST Switch, HW Pressuretrol, Manual Reset, no Siphon |
| 43040 | L91B-1035 0-15 PSI Range, 1-12 Throttling Range, HW Proportioning Pressuretrol, Modulating |
| 43050 | L91B-1050 5-150 PSI Range, 5-23 Throttling Range, HW Proportioning Pressuretrol, Modulating |

WATER TEMPERATURE CONTROLS

| | |
|-------|--|
| 42000 | L4006A-1009 100 ⁰ -240 ⁰ F HW Aquastat |
| 42030 | L4006A-1678 100 ⁰ -240 ⁰ F with 5 ⁰ -30 ⁰ F Differential, Vertical HW Aquastat |
| 42060 | L4006E-1000 110 ⁰ -290 ⁰ F Manual Reset, Well included HW Aquastat |
| 42200 | L6006A-1012 100 ⁰ -240 ⁰ F with 5 ⁰ -30 ⁰ F Adjustable Differential, HW Aquastat |
| 42300 | 112622AA, Immersible Well for HW T991A-1/2" |
| 42305 | 112630AA, Immersible Well for HW T991A-3/4" |
| 44050 | T991A-1061 160 ⁰ -260 ⁰ F, Modulating, 5' Element, HW Thermostat |
| 44060 | T991A-1079 160 ⁰ -260 ⁰ F, Modulating, 20' Element, HW Thermostat |
| 42315 | 121371-A, Immersible Well for HW L4006-1/2" |
| 42330 | 121371-B, Immersible Well for HW L4006-3/4" |

18.7 RELAYS

| | |
|-------|-------------------------------|
| 55300 | PRD3-AYO (SPST) |
| 55453 | KUP14A55 (3PDT) |
| 55628 | TGML B115SC2 (Delay on Break) |
| 55642 | THC105SC (Delay on Make) |

18.8 CONTACTORS

| | |
|-------|---------------------------------|
| 56370 | 8910DPA22S24V02 (2 Pole 25 AMP) |
| 56372 | 8910DPA33S24V02 (3 Pole 30 AMP) |

18.9 MOTOR STARTERS WITH INTEGRAL SOLID STATE OVERLOADS

| | |
|-------|---|
| 56308 | 8911DPSO33S8V02DB1F - .63 - 1.0 Amp OL (30AMP, 3 Pole) |
| 56310 | 8911DPSO33S8V02DB1.6F - 1.0 - 1.6 Amp OL (30 AMP, 3 Pole) |

| | |
|-------|---|
| 56314 | 8911DPSO33S8V02DB2.5F - 1.6 - 2.5 Amp OL (30 AMP, 3 Pole) |
| 56316 | 8911DPSO33S8V02DB4 - 2.5 - 4.0 Amp OL (30 AMP, 3 Pole) |
| 56318 | 8911DPSO33S8V02DB6 - 4.0 - 6.0 Amp OL (30 AMP, 3 Pole) |
| 56320 | 8911DPSO33S8V02DB8 - 6.0 - 8.0 Amp OL (30 AMP, 3 Pole) |
| 56322 | 8911DPSO33S8V02DB10 - 7.0 - 10.0 Amp OL (30 AMP, 3 Pole) |
| 56324 | 8911DPSO33S8V02DB13 - 9.0 - 13.0 Amp OL (30 AMP, 3 Pole) |
| 56326 | 8911DPSO33S8V02DB18 - 12.0 - 18.0 Amp OL (30 AMP, 3 Pole) |
| 56340 | 8911DPSO33S8V02DB25 - 17.0 - 25.0 Amp OL (30 AMP, 3 Pole) |
| 56342 | 8911DPSO33S8V02DB30 - 23.0 - 30.0 Amp OL (30 AMP, 3 Pole) |

18.12 OVERLOAD HEATERS

(Three required)

| | |
|-------|---------------|
| 56501 | For P/N 56308 |
| 56502 | For P/N 56310 |
| 56504 | For P/N 56314 |
| 56505 | For P/N 56316 |
| 56506 | For P/N 56318 |
| 56507 | For P/N 56320 |
| 56508 | For P/N 56322 |
| 56509 | For P/N 56324 |
| 56510 | For P/N 56326 |
| 56511 | For P/N 56340 |
| 56513 | For P/N 56342 |

Using the motor nameplate Full Load Amps (FLA) for motor in service select the motor starter where the FLA falls within the amp range of the overload. Set the overload rating adjustment to the FLA of the motor. Maximum rating of the motor starters is 10 HP.

18.13 LIGHTS

SIGNAL LIGHTS - STANDARD 1"

| | |
|-------|-------------------------|
| 65500 | White |
| 65510 | Amber |
| 65520 | Red |
| 65530 | Green |
| 65540 | Blue |
| 65710 | Dialco Base (Oil Tight) |
| 65305 | Dialco Bulb |
| 65711 | Dialco Red Lens |
| 65712 | Dialco Green Lens |
| 65713 | Dialco Amber Lens |
| 65714 | Dialco Blue Lens |

65715 Dialco White Lens

DIRECTOR LIGHTS AND ACCESSORIES

65570 5SD1LRN1-36 1/2" Red
65571 5SD1LAN1-36 1/2" Amber
65572 5SD1LBZ1-36 1/2" Blue
65573 5SD1LGX1-36 1/2" Green
65575 1/2" Timmerman Clip
93890 60843-1 2 Circuit Commoning Tab
93891 60842-1 3 Circuit Commoning Tab
93892 60620-1 Loose Piece Pin
93893 60619-1 Loose Piece Socket
93894 1-480324-0 Pin Housing
93895 1-480323-0 Socket Housing

18.14 CONTROL SWITCHES

14040 SPST Control Circuit
14054 1172 - 3/4 Red Tip

18.15 SWITCHES

14002 4PDT Fuel Selector Switch
14030 DPDT No Center Off Manual-Auto

18.16 TERMINAL STRIP COMPONENTS

61035 KT3 3 Pole 600V Connectron Terminal Block
61036 KAD End Mounting Adaptor
61037 MT 12 1/2" Marking Strip

18.17 MICRO SWITCH

14120 BZE6-2RQ

18.18 STEPDOWN TRANSFORMERS

33210 AT72D-1089 115/24 (Modulating Motor) (Panel Mount)
33395 500VA 230/460/115 (Panel Mount)
33396 500VA 208/115 (Panel Mount)

33499 500VA 208/115 (External Mount)
33510 500VA 240/480/115 (External Mount)

18.19 CONTROL CIRCUIT FUSES, 300 VOLT

93489 FUSE BLOCK
93555 SC-2 2 AMP
93556 SC-3 3 AMP
93557 SC-4 4 AMP
93570 SC-5 5 AMP
93579 SC-6 6 AMP
93580 SC-10 10 AMP
93590 SC-15 15 AMP

18.20 POTENTIOMETERS

48017 250 OHM (Limiting)
48020 150 OHM
48055 Knob
91236 Label

18.21 METERS

47055 0-25 DC Volt
47110 0-50 Micro Amp
93050 117053 Cable Connector for Micro-Amp Meter

18.22 ENGRAVED LABEL - ADHESIVE BACK

91310 210-221 1/16" X 1/2" X 2" Blank (specify verbiage required when ordering)

18.23 PRESSURE SENSITIVE PREPRINTED LABELS - 1/2" X 2"

91400 Control
91401 Power On
91402 Main Fuel
91403 Manual-Auto
91404 Manual-Pot
91405 Fuel Valve
91406 Low Fire Hold
91407 Alarm Silencing
91408 Flame Failure
91409 Service Switch
91410 Call For Heat

18.23 PRESSURE SENSITIVE PREPRINTED LABELS - 1/2" X 2" (Continued)

91411 Ignition On
91412 Low Water
91413 Pilot Failure
91414 Oil-Auto
91415 Oil-Gas
91416 Pilot On
91418 No. 1 Lead No. 2 Lead
91419 Flame Out
Consult Factory for additional Labels

19 OIL PUMP COUPLING ADAPTORS (INTEGRAL)

C13182 7/8" X 1/2" for Standard Pump
C13183 7/8" X 1/2" X 5" For C4 Integral Pump

19.2 BELT DRIVEN OIL PUMP SHEAVES

77151 4.0 PDA X 5/8 (Motor)
77178 6.7 PDA X 1/2 AC70 (Pump)
77191 9.8 PDA MA100

20 OIL PUMP COUPLING

C14100 31G 7 1/2" X 1/2" X 7/16" for C3/4 (includes Reinforcing Piece)

20.1 PARTS ONLY FOR OIL PUMP COUPLING

X02550 Reinforcing Piece for C14100-C3/4 7 1/2" X 1/2" X 7/16"
12300 36" Length Rubber Body Only
12040 7/16" Metal End Only
12050 1/2" Metal End Only

21 OIL PUMPS

10040 H8KCN-C200H Suntec 55 GPH-300 PSI 1725 RPM
10061 H4PA-D253 Suntec
10062 H5PB-D153 Suntec
10063 H6PA-D153 Suntec
10096 18B1H2FX-6R Webster 65 GPH - 300 PSI 1725 RPM
10111 37B1H2FX-6R Webster 130 GPH - 300 PSI 1725 RPM
10220 VO56C-4DO20 Webster 130 GPH - 100 PSI 1725 RPM
10316 FH432X Viking Pump

21.1 REMOTE OIL PUMP PARTS

**THRU
21.5**

12110 ALO-90 Coupling
10235 Combu Remote Fuel Unit Stand
C13180 Pump Stand
P23210 Oil Pump Base Weld Assembly
10236 Remote Pump Adaptor Plate
C13186 Remote Pump Stand Cover Plate
10010 Suntec Adaptor Flange
10070 134444 Suntec Pump Bracket
10071 134462 Suntec Pump Motor Adaptor Plate
(Refer to Item Numbers (15) and (21) for Motors and Pumps)

21.6 AIR PRESSURE SWITCH - ATOMIZING AIR

43235 L404B-1320 5-50 PSI Range HW Pressuretrol

21.7 COMBU OIL FILTERS

COMBU OIL FILTERS - GENERAL PURPOSE - ALUMINUM

98539 70101-100, 100 Micron, 1" NPT, 320 GPH, AT .5" Mercury,
Nozzle Capacity 60 GPH
98540 70101-300, 300 Micron, 1" NPT, 320 GPH, AT .5" Mercury,
Nozzle Capacity 60 GPH

COMBU OIL FILTER ELEMENTS - STAINLESS STEEL

98593 100 Micron Pleated for 70101-100
98594 300 Micron Pleated for 70101-300

21.8 SIMPLEX OIL STRAINERS - KRAISSL CAST IRON

73292 72-07 1" with 100 MESH Brass Basket
73294 72-07 1" with 1/32" Opening Brass Basket

21.9 BELT DRIVEN OIL PUMP BEARING

10306 3-530-001-047 Outboard Bearing

21.10 OIL PUMP BELT GUARD

P23250 Oil Pump Belt Guard Assembly

21.11 OIL PUMP BELTS

77005 A49
77004 A48

22.1 OIL VALVES (SOLENOID, REGULATOR AND BRACKET)

**THRU
22.4**

X02504 UACF 2NV 1/4" Alcon
21090 K10AB263 1/4" NC GC
22020 13065 FRM2 Regulator
C13190 3/8" Single Oil Valve Bracket

22.7 OIL PRESSURE GAUGES

46002 0-60 PSI 2 1/2" Dial Liquid Filled
46530 0-100 PSI 2 1/2" Dial Liquid Filled

22.8 OIL TEMPERATURE THERMOMETER

49011 0-250⁰F

22.9 PURGE VALVE

21201 8262C-2M 1/8" ASCO

25 OIL GUN ASSEMBLIES

INCLUDES NOZZLE

USES NOZZLE P/N

| | | |
|--------|-----------|--|
| C30053 | HAC3 | X02728 C170WA 30 GPH 90 ⁰ |
| C30054 | HACR3 | X02728 C170WA 30 GPH 90 ⁰ |
| C30240 | HAC4 2&4 | X02722 C169WA 30 GPH 100 ⁰ |
| C30260 | HACR4 2&4 | X02722 C169WA 30 GPH 100 ⁰ |
| C30200 | HAC4 | X02717 C169WA 60 GPH 100 ⁰ |
| C30220 | HACR4 | X02717 C169WA 60 GPH 100 ⁰ |
| C30320 | HAC5 2&4 | X02718 C169WA 40 GPH 100 ⁰ |
| C30340 | HACR5 2&4 | X02718 C169WA 40 GPH 100 ⁰ |
| C30280 | HAC4/5 | X02719 C169WA 80 GPH 100 ⁰ |
| C30300 | HACR4/5 | X02719 C169WA 80 GPH 100 ⁰ |
| C30360 | HAC6 | X02721 C169WA 125 GPH 100 ⁰ |
| C30380 | HACR6 | X02721 C169WA 125 GPH 100 ⁰ |

27 OIL NOZZLES (See Gun Assembly #25 for correct nozzle)

X02717 C169WA 60 GPH 100⁰
X02718 C169WA 40 GPH 100⁰
X02719 C169WA 80 GPH 100⁰
X02721 C169WA 125 GPH 100⁰

X02722 C169WA 30 GPH 100⁰
X02728 C170WA 30 GPH 90⁰

30 **GUN MOUNTING PLATES**

C24332 HAC3/4/5
C24333 HAC6

34.2 **SCANNERS**

FIREYE

37440 48PT2-1007 Lead Sulfide
37460 UV-1A6 Ultraviolet

HONEYWELL

40280 C7015A-1076 Lead Sulfide
40290 105061 Heat Insulator for C7015A-1076
40320 C7027A-1023 Ultraviolet

44-50 **DAMPER ACCESSORIES**

X02387 Long Brass Pin (2 Required)
X09662 Horseshoe Clip (2 Required)
M80010 5/16" X 1 5/8" Damper Arm
C13140 Oil Pump Mounting Hole Cover Plate

56 **LINKAGE CROSS STRAPS**

C83241 HAC2/3 Damper Cross Link
C83245 HAC4/5/6 Damper Cross Link
C95302 HAC4/5/6 Damper Cross Link Assembly

57 **LINKAGE ACCESSORIES**

THRU
57.13

M90001 Stamped Steel Crank Arm and Aluminum Hub Assembly for Modulating Motor and Gas Valve (3/8" Sq.)
C83170 Stamped Steel Crank Arm Only, for Butterball Butterfly Valve
X06002 Aluminum Hub Only (3/8" Sq.)
M80030 Stamped Steel 7 Ga. Crank Arm and Steel Hub Assembly for External Shaft (1/2" ID)
M80029 Stamped Steel 7 Ga. Crank Arm and Steel Hub Assembly for

North American Oil Valve and Hauck Valve
M80028 Stamped Steel 7 Ga. Crank Arm and Steel Hub Assembly for Damper(5/16" ID)
X09374 Screws for Mounting Hub to Crank Arm 10-24 X 1/2" Round Slot Head Machine Screws
X09380 Screws for Mounting Extension Shaft to Modulating Motor 10-24 X 3/8" Round Slot Head Machine Screws
91100 Swivel (Ball Joint)
Y00470 5/16" Push Rod (36" Long)
M89100 Extension Shaft for Modulating Motor
M80011 5/16" X 1 5/8" Damper Arm (Tapped)
M80031 6 X 3/4 7 Ga. Linkage Arm Assembly for Modulating Oil Valve
M80035 Stamped Steel Crank Arm only, for Eclipse Butterfly Valve on HAC3
M80036 Stamped Steel Crank Arm only, for Eclipse Butterfly Valve on HAC4-6

58 PRESSURE SWITCHES

- 58.1** 17101 8024204107 SPDT Antunes Combustion Air Switch

17100 AFSA SPDT Cleveland Combustion Air Switch
- 58.2** 43325 L404V1026 Low Oil Pressure Switch - 25 - 150 PSI

59 GAS PILOT ASSEMBLIES

- 59.1** F30061 HAC Case Type includes 62.1, 63, 69, 62.3
- 59.2** F30081 HAC Round includes 62.1, 62.2, 69, 62.3

60 OIL VALVES, MODULATING AND BRACKETS

NORTH AMERICAN

26000 1813M-03
26010 1813M-02A
26020 1813M-02B
26030 1813M-02C
26040 1813M-02D
C24240 6" Bracket Bolt on North American
C13040 6" Bracket

HAUCK

26224 S-3-3
26225 S-3-5
26226 S-3-7
26227 S-3-9
26228 S-3-11
26230 S-3-13
C24242 Metering Valve Bolt on Bracket
C24244 Metering Valve Bolt on Bracket with Varicam

61 MODULATING MOTORS AND BRACKETS

06008 M9184B-1017
06025 M9174C-1025 Requires Spacer on C4,5 & 6
06067 M9184C-1031
06070 220738A Mod IV Modulating Motor Spacer Bracket

62 - PILOT IGNITION ELECTRODES AND CABLE
62.2

X04210 Pilot Ignition Electrode with Porcelain
F10630 Round Pilot Ignition Electrode
F10415 Ignition Electrode Clamp

62.3 IGNITION CABLE

Y08000 #14-19 GTO 15,000V 3 Foot Cable
X09927 #2 Rajah Ring Terminal
93111 #CT-11 Rajah Cage Terminal

63 PILOT ORIFICE

X04350 1/4" Natural Gas HAC3/4/5/6 Scanner
X04350 #19 LP Gas HAC3/4/5/6 Scanner

69 PILOT MOUNTING PLATES

C24110 HAC2/3
C24130 HAC4/5/6

70 PILOT GAS REGULATOR

30280 325-3 3/8" Cad Spring 2.0" - 6.0"

71 PILOT VALVES

20239 S301AF02N9CF5 3/8" ITT

20245 U-28-45-21-18 1/4" Alcon

78 GAS IGNITION TRANSFORMER

32000 120/6000 Volt

79 GAS VALVE OPERATORS

HONEYWELL

19070 V4055A-1098, 13 Seconds
19080 V4055A-1064, 26 Seconds

OPERATORS WITH PROOF OF CLOSURE

19090 V4055D-1019, 13 Seconds
19100 V4055D-1001, 26 Seconds

ASCO GENERAL CONTROLS

19900 AH2B112A1, 15 Seconds
19910 AH2B102A4, 30 Seconds

OPERATOR WITH PROOF OF CLOSURE

19901 AH2B112S4, 15 Seconds

79.1 GAS VALVE BODIES

HONEYWELL

19250 V5055A-1020 1 1/2"
19260 V5055A-1038 2"
19270 V5055A-1046 2 1/2"
19280 V5055A-1053 3"

BODIES WITH PROOF OF CLOSURE

19410 V5055C-1059 1 1/2"
19420 V5055C-1000 2"
19430 V5055C-1018 2 1/2"
19440 V5055C-1026 3"

ASCO GENERAL CONTROLS

19620 V710 HAS 1 1/2"
19630 V710 JAS 2"

19640 V710 KAS 2 1/2"
19650 V710 LAS 3"

BODIES WITH PROOF OF CLOSURE

19743 V710 HASV22 1 1/2"
19744 V710 JASV22 2"
19745 V710 KASV22 2 1/2"
19746 V710 LASV22 3"

79.5 GAS LINE STRAINERS

Y STRAINERS WITH 100 MESH STAINLESS STEEL BASKET

73120 3/4"
73130 1"
73135 1 1/4"
73150 1 1/2"
73160 2"
73165 2 1/2"
73175 3"

80 GAS COCKS AND HANDLES

35226 170M Milliken Lube 1 1/2"
35236 170M Milliken Lube 2"
35246 170M Milliken Lube 2 1/2"
35256 170M Milliken Lube 3"
35266 170M Milliken Lube 4"
35335 "G" Handle 1", 1 1/4" 170M
35336 "J" Handle 1 1/2", 2" 170M
35337 "L" Handle 2 1/2", 3" 170M
35338 "O" Handle 4" 170M
27465 BB2-100 Milwaukee 1 1/2"
27470 BB2-100 Milwaukee 2"

80 BALL VALVES

98003 1/4"
98006 3/8"
98014 1/2"
98016 3/4"
98021 1"
98024 1" with Pressure Tap
98027 1 1/4"

| | |
|-------|--------------------------|
| 98026 | 1 1/4" with Pressure Tap |
| 98031 | 1 1/2" with Pressure Tap |
| 98032 | 1 1/2" |
| 98036 | 2" with Pressure Tap |
| 98037 | 2" |
| 98040 | 2 1/2" |
| 98045 | 3" |
| 98050 | 4" |

84 **BUTTERFLY VALVES**

| | |
|-------|---|
| 27320 | 105BV Eclipse 1 1/4" - Does not include Linkage Arm, see Item 57 |
| 27330 | 106BV Eclipse 1 1/2" - Does not include Linkage Arm, see Item 57 |
| 27340 | 108BV Eclipse 2" - Does not include Linkage Arm, see Item 57 |
| 27350 | 110BV Eclipse 2 1/2" - Does not include Linkage Arm, see Item 57 |
| 27360 | 112BV Eclipse 3" - Does not include Linkage Arm, see Item 57 |
| 27370 | 105BVR Eclipse 1 1/4" - Does not include Linkage Arm, see Item 57 |
| 27371 | 106BVR Eclipse 1 1/2" - Does not include Linkage Arm, see Item 57 |
| 27372 | 108BVR Eclipse 2" - Does not include Linkage Arm, see Item 57 |
| 27373 | 110BVR Eclipse 2 1/2" - Does not include Linkage Arm, see Item 57 |

84 **BUTTERFLY VALVES, (Continued)**

| | |
|--------|---|
| 27374 | 112BVR Eclipse 3" - Does not include Linkage Arm, see Item 57 |
| M90020 | PF-FP Butterball 1 1/4" - Includes Linkage Arm |
| M90025 | PF-FP Butterball 1 1/2" - Includes Linkage Arm |
| M90030 | PF-FP Butterball 2" - Includes Linkage Arm |
| M90060 | PF-RP Butterball 1 1/4" - Includes Linkage Arm |
| M90065 | PF-RP Butterball 1 1/2" - Includes Linkage Arm |
| M90070 | PF-RP Butterball 2" - Includes Linkage Arm |
| M90075 | PF-RP Butterball 2 1/2" - Includes Linkage Arm |

89 **HIGH GAS PRESSURE SWITCHES**

| | |
|-------|---------------------|
| 16320 | C645B-1013 3-21" |
| 16000 | C437D-1005 1-26" |
| 16345 | HGP-A Antunes 2-16" |
| 16110 | HGP-G Antunes 2-20" |

90 **LOW GAS PRESSURE SWITCHES**

| | |
|-------|---------------------|
| 16310 | C645A-1030 3-21" |
| 16030 | C437E-1004 1-26" |
| 16315 | C645A-1055 5-35" |
| 16331 | LGP-A Antunes 1-6" |
| 16330 | LGP-A Antunes 2-14" |
| 16100 | LGP-G Antunes 1-20" |

91 MAIN GAS PRESSURE REGULATORS 1 PSI MAXIMUM INLET

30070 RV-81 1 1/2" Pink 3"-8" Spring
30080 RV-91 2" Pink 3"-8" Spring
30090 RV-91 2 1/2" Pink 3"-8" Spring
30100 RV-111 2 1/2" Violet 4"-12" Spring
30110 RV-111 3" Violet 4"-12" Spring
30120 RV-131 4" Violet 4"-12" Spring

92 OIL RETURN CHECK VALVES

23300 3/8" Firomatic B-100-HCV
23412 3/4" Milwaukee (Air)

93 PILOT SHUTOFF COCK

98003 1/4" Ball Valve

94 SIGHT GLASS

X09910 2 1/2" Square

95 SOLENOID GAS VALVES

28110 S261SAO2N3JK4 2"
28120 S261SAO2N3KK4 2 1/2"
28130 S261SAO2N3LK4 3"

96 N.O. VENT VALVES

28405 8030G083 3/4"
28450 S262SAO2N3FJ5 1"
28460 S262SAO2N3GJ7 1 1/4"
28470 S262SAO2N3JK4 2"

97 GAS PRESSURE GAUGES

46310 2 1/2" Dial 0-18 OZ. 0-32" W.C.
46300 2 1/2" Dial 0-15" W.C.

100 TAPPED NIPPLES

M10553 1 1/2" X 2 1/2"
M10554 2" X 2 1/2"
M10555 2 1/2" X 3 1/2"
M10557 2 1/2" X 6"
M10556 3" X 3 1/2"

101 TEST PORT NIPPLES - INCLUDES 1/4" NPT HALF COUPLING WELDED

| | |
|--------|-------------|
| M20220 | 1 1/2" X 4" |
| M20230 | 2" X 4" |
| M20235 | 2 1/2" X 4" |
| M20244 | 2" X 6" |
| M20245 | 2 1/2" X 6" |
| M20240 | 3" X 4" |
| M20246 | 3" X 6" |

102 TEST PORT NIPPLES - INCLUDES 1/2" NPT HALF COUPLING

| | |
|--------|-------------|
| M20261 | 1 1/2" X 4" |
| M20262 | 2" X 4" |
| M20264 | 2 1/2" X 4" |
| M20263 | 2" X 6" |
| M20265 | 2 1/2" X 6" |
| M20266 | 3" X 4" |
| M20267 | 3" X 6" |

103 PILOT NIPPLES - INCLUDES 1/4" AND 3/8" NPT HALF COUPLING

| | |
|--------|-------------|
| M20228 | 1 1/2" X 4" |
| M20241 | 2" X 4" |
| M20242 | 2 1/2" X 4" |
| M20243 | 3" X 4" |

104 DAMPER GUARDS

| | |
|-------|----------|
| 99002 | HAC3 |
| 99004 | HAC4/5/6 |