
GARDNER DENVER®

13-9-549
2nd Edition
March, 1996

ELECTRA-SCREW®

STATIONARY

BASE-MOUNTED

COMPRESSORS

MODELS

EDHQMB – AIR COOLED – 100 HP

EDHSMB – WATER COOLED – 100 HP

PARTS LIST

Gardner
Denver

Manual Brought to You By: IndustrialAirPower.com

INSTRUCTIONS FOR ORDERING REPAIR PARTS

When ordering parts, specify Compressor MODEL, Method of Cooling, HORSE-POWER and SERIAL NUMBER (see nameplate on unit). The Serial Number is also stamped on top of the cylinder flange to the right of the inlet housing.

All orders for Parts should be placed with the nearest authorized distributor.

Where NOT specified, quantity of parts required per compressor or unit is one (1); where more than one is required per unit, quantity is indicated in parenthesis. SPECIFY EXACTLY THE NUMBER OF PARTS REQUIRED.

DO NOT ORDER BY SETS OR GROUPS.

To determine the Right Hand and Left Hand side of a compressor, stand at the motor end and look toward the compressor. Right Hand and Left Hand are indicated in parenthesis following the part name, (RH) & (LH), when appropriate.

For Operating and Service Instructions see:

SERVICE MANUAL # 13-8-606

TABLE OF CONTENTS

Page No.

Instructions For Ordering Repair Parts	Inside Front Cover
Maintain Compressor Reliability and Performance with Genuine Gardner Denver® Compressor	
Parts and Support Services	2
Remanufactured Air Ends	2
Matrix/Menu	3
Bare Compressor	4, 5
Oil Seal Detail	6
Inlet Valve	7
Air Filter	8
Oil Reservoir Group	9
Separator Housing Group	10
Discharge Piping	11
Oil Piping Group	12
Oil Filter – 200EBM369	13
Oil Piping Line	14
Compressor Base Group	15
Minimum Pressure Valve	16
Thermal Valve (Thermostatic Mixing)	17
Air Cooled Cooler Group	18, 19
Air Discharge Piping	20
Air–Cooled Fan Assembly	21
Water Cooled Heat Exchanger – With Aftercooler	22, 23
Water Cooled Heat Exchanger – Without Aftercooler	24, 25
Enclosure (Common Parts – Air/Water Cooled)	26, 27
Control Schematic	28, 29
Controller Assembly – Wye–Delta	30, 31
Main Motor Group	32
Enclosure – Hardware	33
Enclosure – Air Cooled Units	34
Enclosure – Water Cooled Units	35
Motor Group, Main Motors – Wye–Delta – 50 HZ (Selective)	36
Motor Group (Fan Motors) Air Cooled Cooling Modules	36
Identification and Instruction Group	37
Overload Relay Heater Conversion Listing	38
Repair Kits and Accessories	39

**MAINTAIN COMPRESSOR RELIABILITY AND PERFORMANCE WITH
GENUINE GARDNER DENVER®
PARTS AND SUPPORT SERVICES**

Gardner Denver® genuine parts, engineered to original tolerances, are designed for optimum dependability — specifically for Gardner Denver systems. Design and material innovations are the result of years of experience with hundreds of different compressor applications. Reliability in materials and quality assurance are incorporated in our genuine replacement parts.

Your authorized Gardner Denver® Compressor distributor offers all the backup you'll need. A worldwide network of authorized distributors provides the finest product support in the air compressor industry. Your local authorized distributor maintains a large inventory of genuine parts and he is backed up for emergency parts by direct access to the Gardner Denver Machinery Inc. Master Distribution Center (MDC) in Memphis, Tennessee.

Your authorized distributor can support your Gardner Denver® air compressor with these services:

1. Trained parts specialists to assist you in selecting the correct replacement parts.
2. Factory warranted new and remanufactured rotary screw air ends. Most popular model remanufactured air ends are maintained in stock at MDC for purchase on an exchange basis with liberal core credit available for the replacement unit.
3. A full line of factory tested AEON™ compressor lubricants specifically formulated for use in Gardner Denver compressors.
4. Repair and maintenance kits designed with the necessary parts to simplify servicing your compressor.

Authorized distributor service technicians are factory-trained and skilled in compressor maintenance and repair. They are ready to respond and assist you by providing fast, expert maintenance and repair services.

For the location of your local authorized Gardner Denver Air Compressor distributor refer to the yellow pages of your phone directory or contact:

Distribution Center:
Gardner Denver Machinery Inc.
Master Distribution Center
5585 East Shelby Drive
Memphis, TN 38141
Phone: (901) 542-6100
(800) 245-4946
Fax: (901) 542-6159

Factory:
Gardner Denver Machinery Inc.
1800 Gardner Expressway
Quincy, IL 62301
Phone: (217) 222-5400
Fax: (217) 223-5897

REMANUFACTURED AIR ENDS

Whenever an air end requires replacement or repair, Gardner Denver offers an industry unique, factory remanufactured air end exchange program. From its modern Remanufacturing Center in Indianapolis, IN, Gardner Denver is committed to supplying you with the highest quality, factory remanufactured air ends that are guaranteed to save you time, aggravation and money.

Immediately Available

Repair downtime costs you money, which is why there are over 200 remanufactured units in inventory at all times, ready for immediate delivery.

Skilled Craftsmen

Our Remanufacturing assembly technicians average over 20 years experience with air compression products.

Precision Remanufacturing

All potentially usable parts are thoroughly cleaned, inspected and analyzed. Only those parts that can be brought back to original factory specifications are remanufactured. Every remanufactured air end receives

a new overhaul kit: bearings, gears, seals, sleeves and gaskets.

Extensive Testing

Gardner Denver performs testing that repair houses just don't do. Magnaflux and ultrasonic inspection spot cracked or stressed castings, monochromatic light analysis exposes oil leaks, and coordinate measurement machine inspects to $\pm .0001$ ", insuring that all remanufactured air ends meet factory performance specifications.

Warranty

Gardner Denver backs up every remanufactured air end with a new warranty . . . 18 months from purchase, 12 months from service.

Gardner Denver remanufactured air ends deliver *quality without question . . . year in and year out.*

Call Gardner Denver for information on the air end exchange program and the name of your authorized distributor.

Phone Number: 800-245-4946 or
FAX: 901-542-6159

ELECTRA-SCREW® COMPRESSORS – MODELS EDHQMB & EDHSMB
100 HP Units – Matrix/Menu

NOTICE TO CUSTOMER – To find the construction options for your compressor unit, FILL IN THE BALANCE OF LETTERS OR NUMBERS FROM YOUR UNIT NAMEPLATE.

COLUMN NUMBER:

E D H B

1 2 3 4 5 6 7 8 9 10 11 12 13

Follow the line down and over from each space thus filled in to find the appropriate construction option with which your machine is equipped. The number "9" in any column space indicates "NOT APPLICABLE." The number "8" in any column space indicates SPECIAL DESIGN – REFER TO FACTORY ORDER TICKET.

COLUMNS 1 & 2 – ELECTRA-SCREW® Family — Single Stage

COLUMN 3 – AIR END
H.

COLUMN 4 – CONSTRUCTION
Q. Air-Cooled – Base Mounted (Std)
S. Water-Cooled – Base Mounted (Std)

COLUMN 5 – HORSEPOWER
M. 100 HP

COLUMN 6 – ENGINEERING SPECIFICATION

COLUMN 7 – PRESSURE & HZ

- A. 100 PSIG – 60 HZ
- B. 125 PSIG – 60 HZ
- C. 150 PSIG – 60 HZ

COLUMN 8 – CONTROL TYPE

NO OPTIONS

- A. AIR COOLED – YD STARTER
- B. WATER COOLED – YD STARTER

WITH VIBRATION SWITCH

- C. AIR COOLED – YD STARTER
- D. WATER COOLED – YD STARTER

COLUMN 9 – CONTROL BOX STARTER (Per HP/Voltage)/NEMA

- * A. 200V – 60 HZ – N 12
- B. 230V – 60 HZ – N 12
- C. 460V – 60 HZ – N 12
- D. 575V – 60 HZ – N 12
- E. 200V – 60 HZ – N4
- F. 230V – 60 HZ – N4
- G. 460V – 60 HZ – N4
- H. 575V – 60 HZ – N4

* Note: 200 V applications not available with main motor starter.

COLUMN 10 – ENCLOSURE

- A. NO ENCLOSURE (AIR/WATER COOLED)
- B. AIR COOLED ONLY (W/ENCLOSURE)
- D. WATER COOLED – 200V
- E. WATER COOLED – 230V
- F. WATER COOLED – 460V
- G. WATER COOLED – 575V

COLUMN 11 – OIL COOLERS – AIR & WATER

AIR COOLED – W/AFTERCOOLER

- A. WITH STD CLR – 60 HZ
- B. WITH SEACOAST COOLER – 60 HZ

WATER COOLED – FRESH WATER

- G. WITHOUT AFTERCOOLER
- H. WITH AFTERCOOLER
- I. WITHOUT AFT – WITH TEMP. REG.
- J. WITH AFT – WITH TEMP. REG.

COLUMN 12 – COOLER ELECTRICS

AIR COOLED

- A. 200V – 60 HZ
- B. 230V – 60 HZ
- C. 460V – 60 HZ
- D. 575V – 60 HZ

WATER COOLED

- J. NEMA 1
- K. NEMA 4
- L. LESS WATER SHUTOFF VALVE

COLUMN 13 – COMPRESSOR DRIVE MOTOR

ODP (STD. EFF.)

- A. 200V – 60 HZ
- B. 230V – 60 HZ
- C. 460V – 60 HZ
- D. 575V – 60 HZ

ODP (HI-EFF.)

- E. 200V – 60 HZ
- F. 230V – 60 HZ
- G. 460V – 60 HZ
- H. 575V – 60 HZ

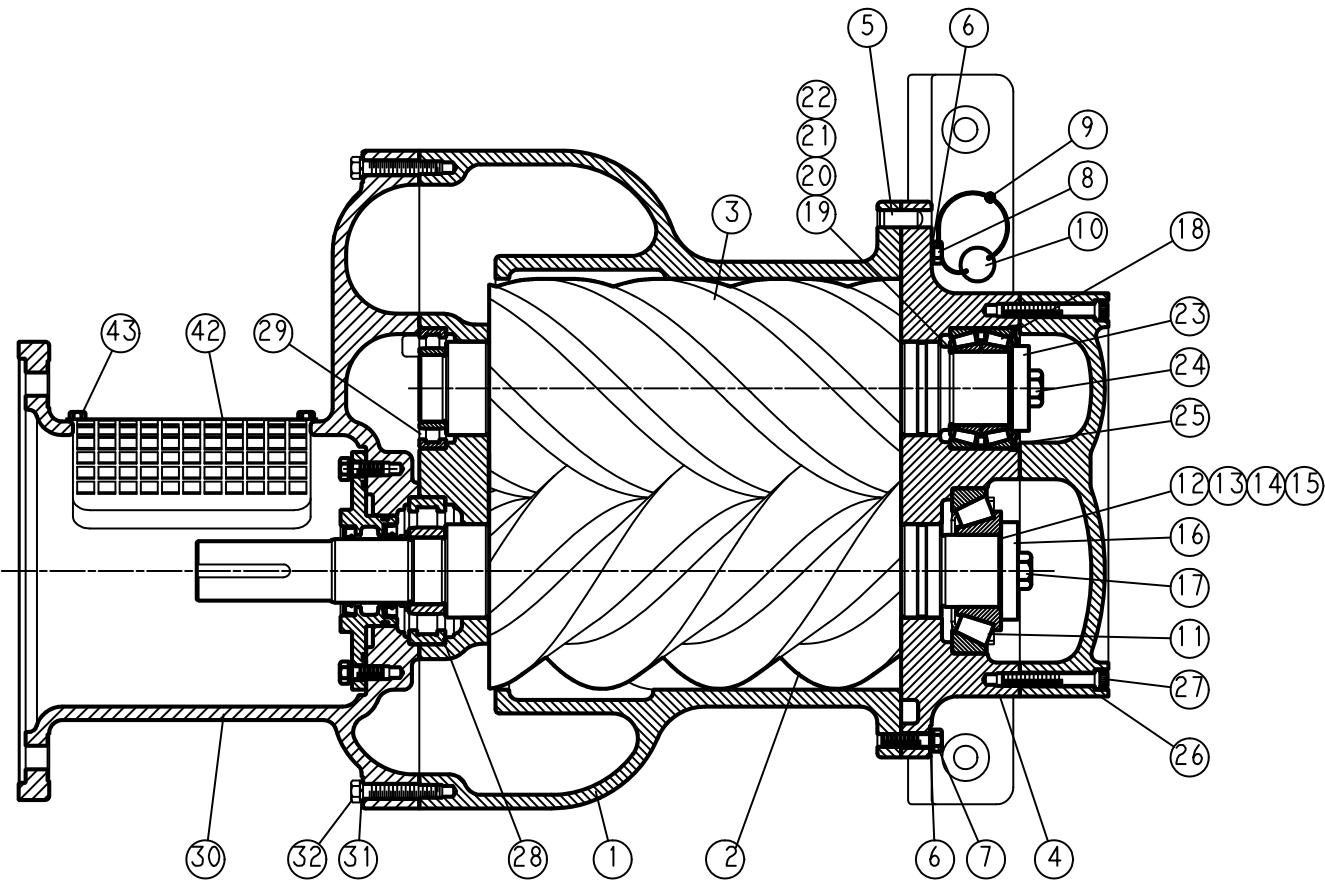
TEFC (STD. EFF.)

- I. 200V – 60 HZ
- J. 230V – 60 HZ
- K. 460V – 60 HZ
- L. 575V – 60 HZ

TEFC (HI-EFF.)

- M. 200V – 60 HZ
- N. 230V – 60 HZ
- O. 460V – 60 HZ
- P. 575V – 60 HZ
- Q. LESS MOTOR – 405TSC FR. – TEFC ONLY
- R. LESS MOTOR – 365TSC FR. – ODP ONLY

BARE COMPRESSOR



207SSH810-C
(Ref. Drawing)

AIR END SELECTION BY PSI

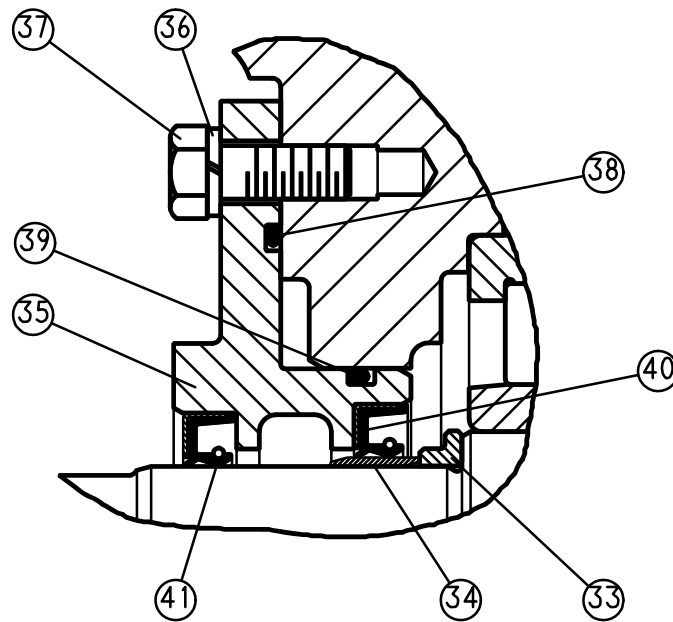
PSI	AIR END
100	SSHCBD01
125	SSHCBD02

BARE COMPRESSOR

Ref. No.	Name of Part	Qty.
1	CYLINDER	1
2	ROTOR	1
3	ROTOR	1
4	HOUSING-BEARING	1
5	PIN-DOWEL	2
6	LOCKWASHER	14
7	SCREW	10
8	SCREW	2
9	SEAL	1
10	TAG-INSTRUCTION	1
11 *	BEARING-ROLLER	1
12 *	SHIM	2
13 *	SHIM	3
14 *	SHIM	3
15 *	SHIM	3
16	PLATE-BEARING RETAINER	1
17	SCREW	1
18 *	BEARING-ROLLER	1
19 *	SHIM	2
20 *	SHIM	3
21 *	SHIM	3
22 *	SHIM	3
23	PLATE-BEARING RETAINER	1
24	SCREW	1
25 *	SPRING	1
26	PLATE-BEARING COVER	1
27	SCREW	18
28 *	BEARING-ROLLER	1
29 *	BEARING-ROLLER	1
30	ADAPTOR	1
31	LOCKWASHER	16
32	SCREW	16
42	GUARD COUPLING	1
43	SCREW-FLANGED	4

* Parts included in PERIODIC OVERHAUL KIT. Refer to page NO TAG.

Order by Part Number and Description. Reference Numbers are for your convenience only.



207SSH810-C
(Ref. Drawing)

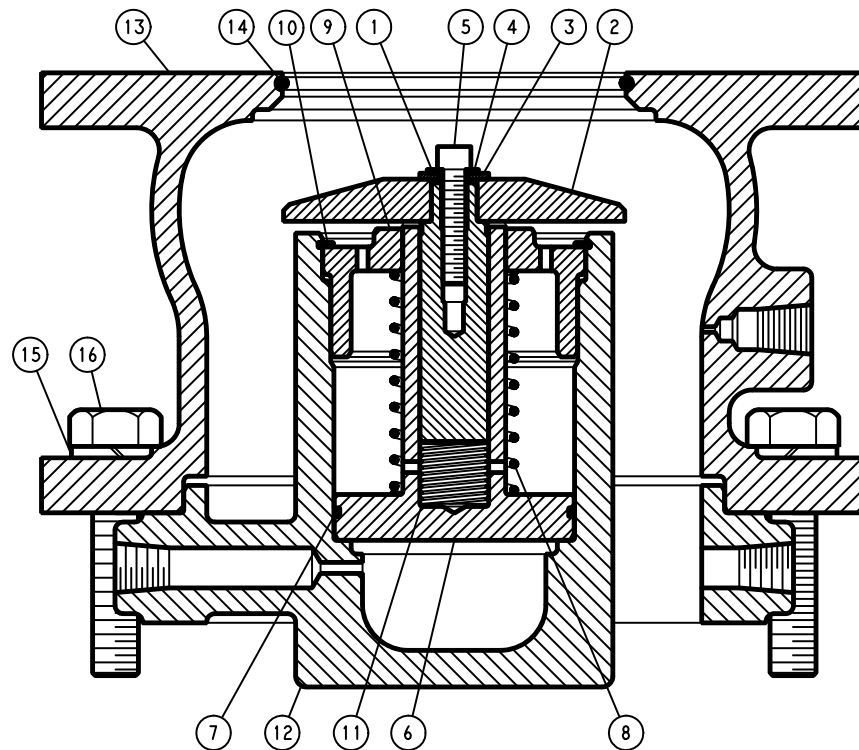
OIL SEAL DETAIL

Ref. No.	Name of Part	Qty.	Part No.
33	SPACER-SHAFT	1	200SSH600
34	SLEEVE	1	80M12
35	HOUSING-SEAL	1	202SSH362
36	LOCKWASHER	8	95B5
37	SCREW	8	655EE050
38 *	O-RING	1	8502140
39 *	O-RING	1	25BC165
40 *	SEAL-OIL	1	60DD679
41 *	SEAL-OIL	1	60DD690

* Parts included in PERIODIC OVERHAUL KIT. Refer to page NO TAG.

To replace oil seal, order kit 300SSM6013, consisting of reference number items 38, 39, 40 and 41.

Order by Part Number and Description. Reference Numbers are for your convenience only.



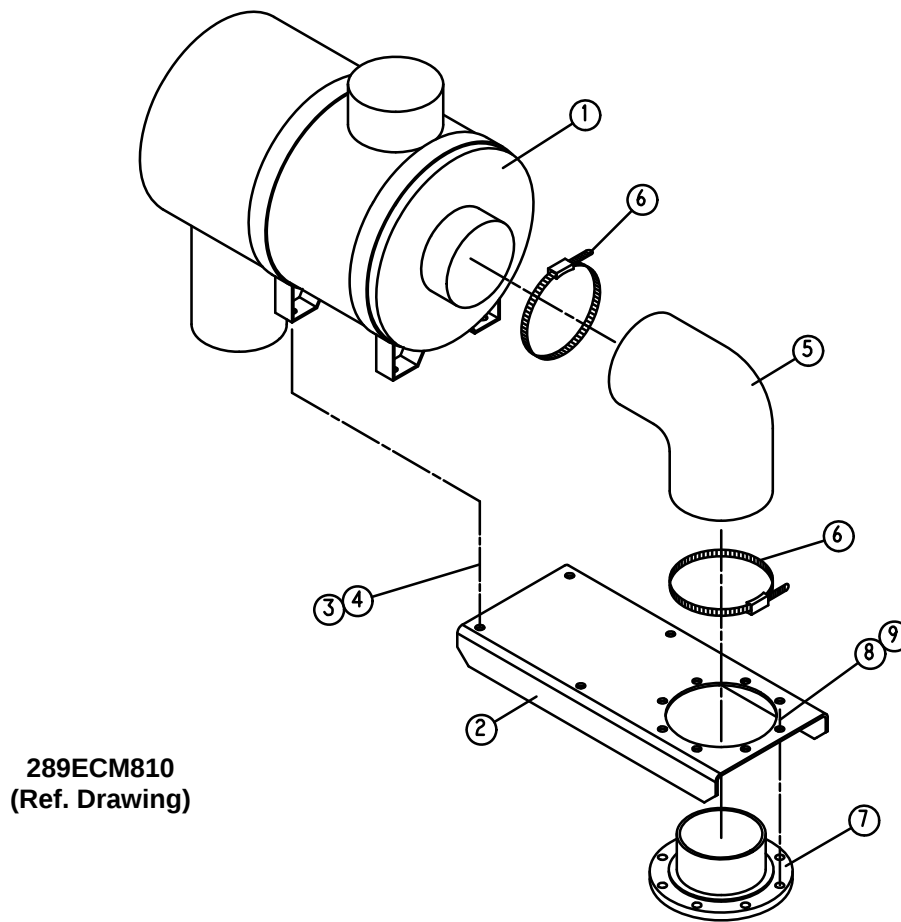
208SSM810-C
(Ref. Drawing)

INLET VALVE

Ref. No.	Name of Part	Qty.	Part No.
1	GUIDE-VALVE	1	200SSM483
2	VALVE-INLET	1	200SSM044
3	WASHER	1	95A1
4	LOCKWASHER	1	95H56
5	SCREW	1	655EC05N
6	PISTON-INLET VALVE	1	201SSM043
7 *	O-RING	1	25BC447
8 *	SPRING	1	78G19
9	RETAINER	1	200SSM205
10	RING-RETAINING	1	74D88
11 *	SPRING	1	78W63
12	HOUSING-INLET	1	205SSM041
13	SEAT	1	203SSM256
14 *	O-RING	1	25AM29
15	LOCKWASHER	8	95B5
16	SCREW	8	655EE100

* Parts included in PERIODIC OVERHAUL KIT. Refer to page NO TAG.

Order by Part Number and Description. Reference Numbers for your convenience only.

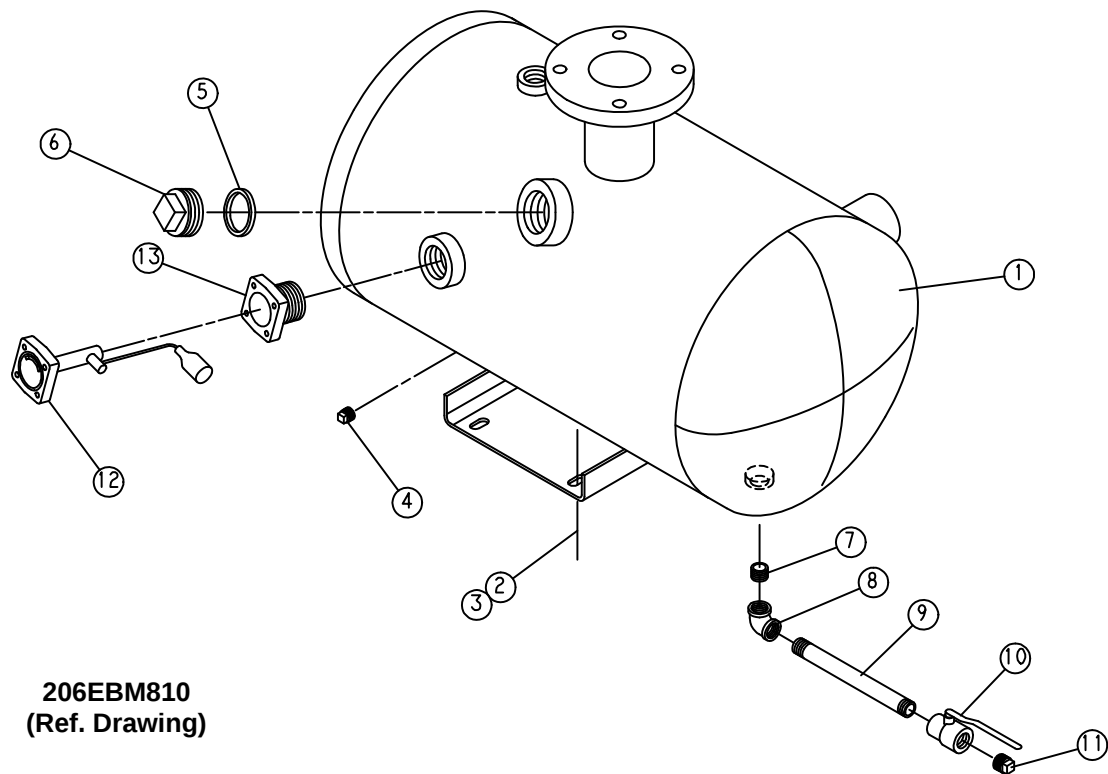


AIR FILTER

Ref. No.	Name of Part	Qty.	Part No.
1	FILTER-AIR	1	5L263
2	BRACKET-FILTER	1	202ECM389
3	SCREW-FLANGED	4	75LM51
4	NUT-FLANGED	4	50AW5
5	HOSE MOLDED	1	2009503
6	CLAMP-HOSE	2	2009644
7	ADAPTOR-FILTER	1	200EBM070
8	SCREW	8	655EE060
9	LOCKWASHER	8	95B5
*	GASKET-ELIMINATOR	0.5	25BC256
*	ELEMENT, AIR FILTER	1	2116713

* Not shown.

Order by Part Number and Description. Reference Numbers for your convenience only.



206EBM810
(Ref. Drawing)

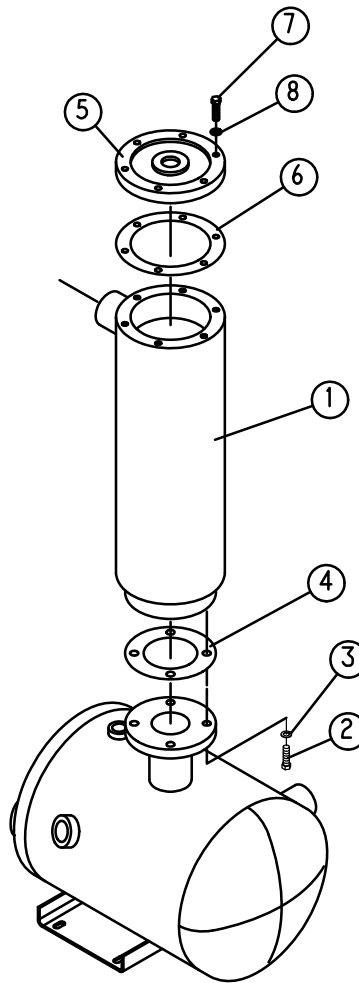
OIL RESERVOIR GROUP

Ref. No.	Name of Part	Qty.	Part No.
1	RESERVOIR	1	200EBM037
2	SCREW-FLANGED	4	75LM135
3	NUT-FLANGED	4	50AW35
4	PLUG	1	64AA5
5	O-RING	1	54C214
6	COVER-FILLER	1	200SPF156
7	NIPPLE	1	63F1G
8	ELBOW	1	64C4G
9	NIPPLE	1	63F13G
10	VALVE-BALL	1	90AR360
11	PLUG	1	64AA7
12	GAUGE-FLOAT	1	202ECM303
13	ADAPTOR-GAUGE	1	200EDE058
*	GASKET, FLOAT GAUGE	1	54C204

* Not shown.

Order by Part Number and Description. Reference Numbers for your convenience only.

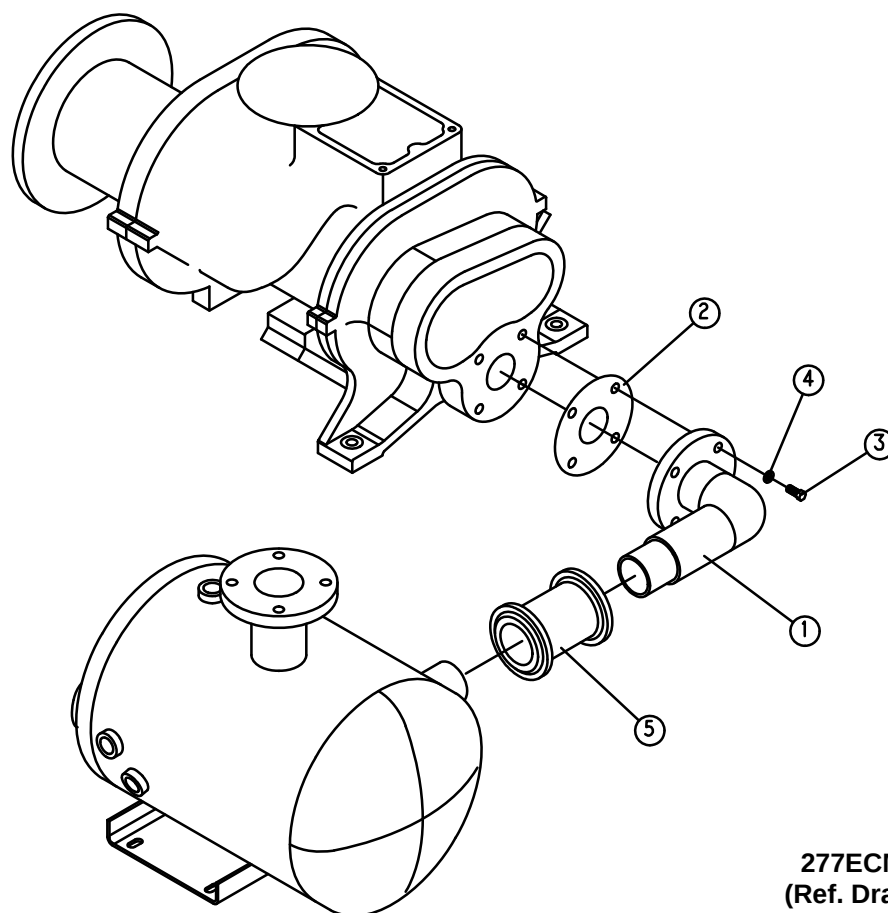
274ECM810-A
(Ref. Drawing)



SEPARATOR HOUSING GROUP

Ref. No.	Name of Part	Qty.	Part No.
1	HOUSING	1	200ECM405
2	SCREW	4	655EF070
3	LOCKWASHER	4	95B7
4	GASKET	1	25C802
5	COVER	1	203ECM225
6	GASKET	1	25C1788N
7	SCREW	6	655EE070
8	LOCKWASHER	6	95B5

Order by Part Number and Description. Reference Numbers for your convenience only.

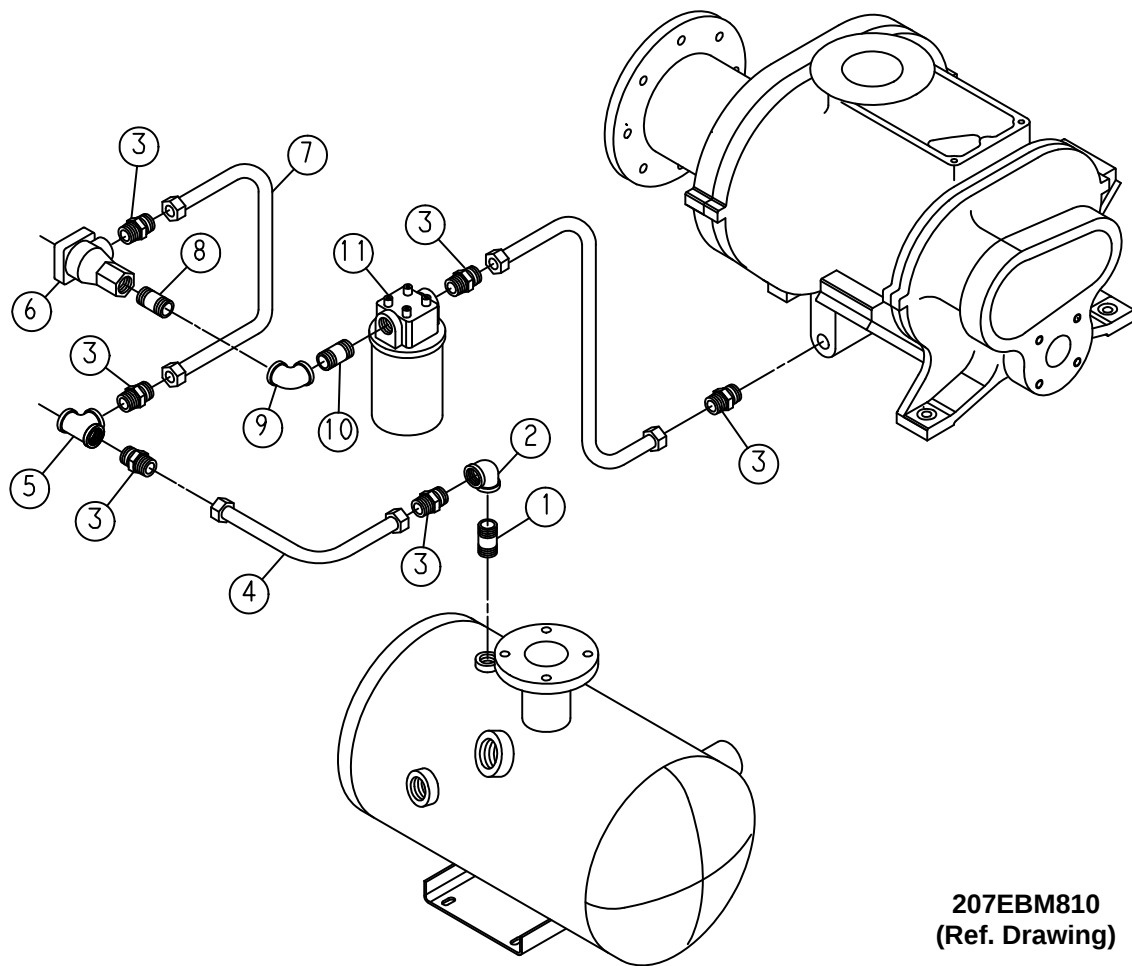


DISCHARGE PIPING

Ref. No.	Name of Part	Qty.	Part No.
1	MANIFOLD	1	201ECM286
2	GASKET-RING	1	25C1230N
3	SCREW	4	655EF070
4	LOCKWASHER	4	95B7
5	FLEXIBLE COUPLING	1	64EB802
*	GASKET, FLEXIBLE COUPLING (For Repair)	2	2117160

* Not shown.

Order by Part Number and Description. Reference Numbers for your convenience only.

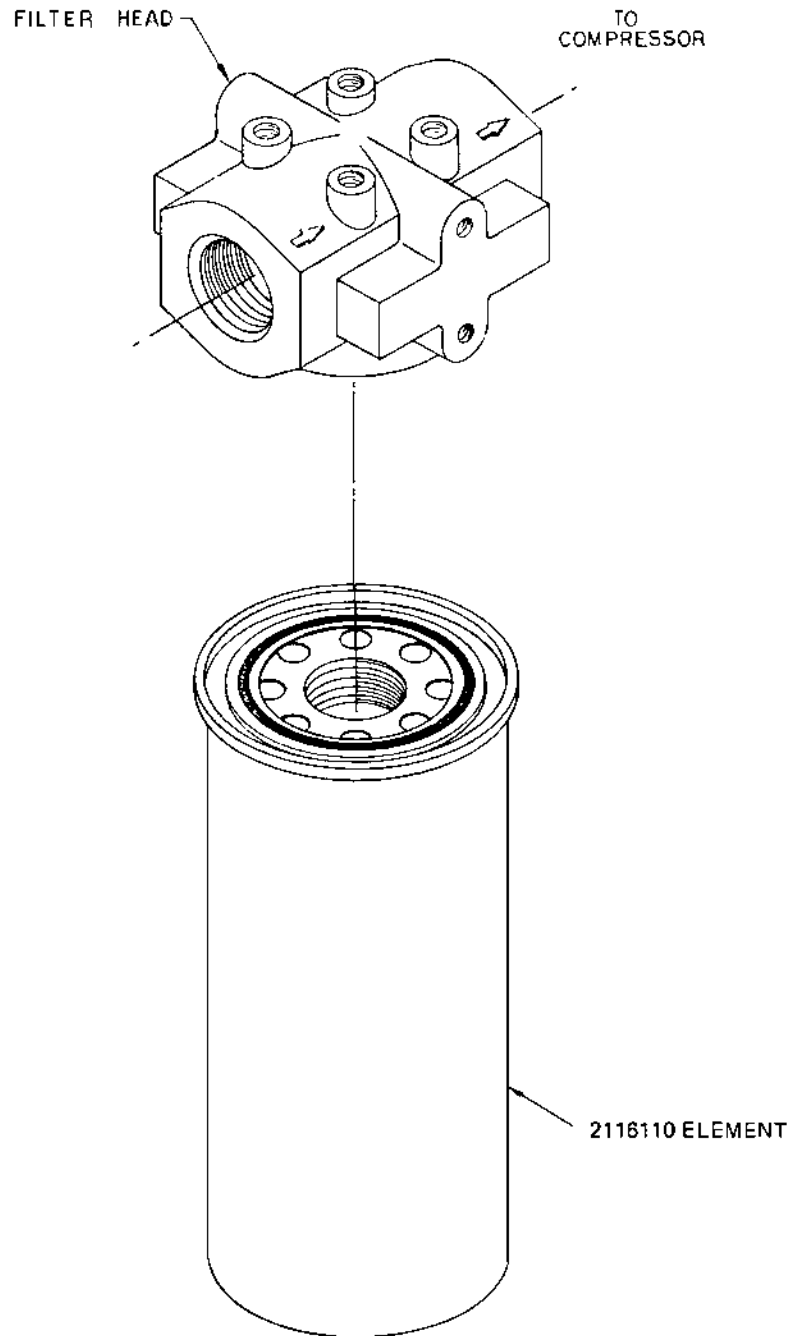


207EBM810
(Ref. Drawing)

OIL PIPING

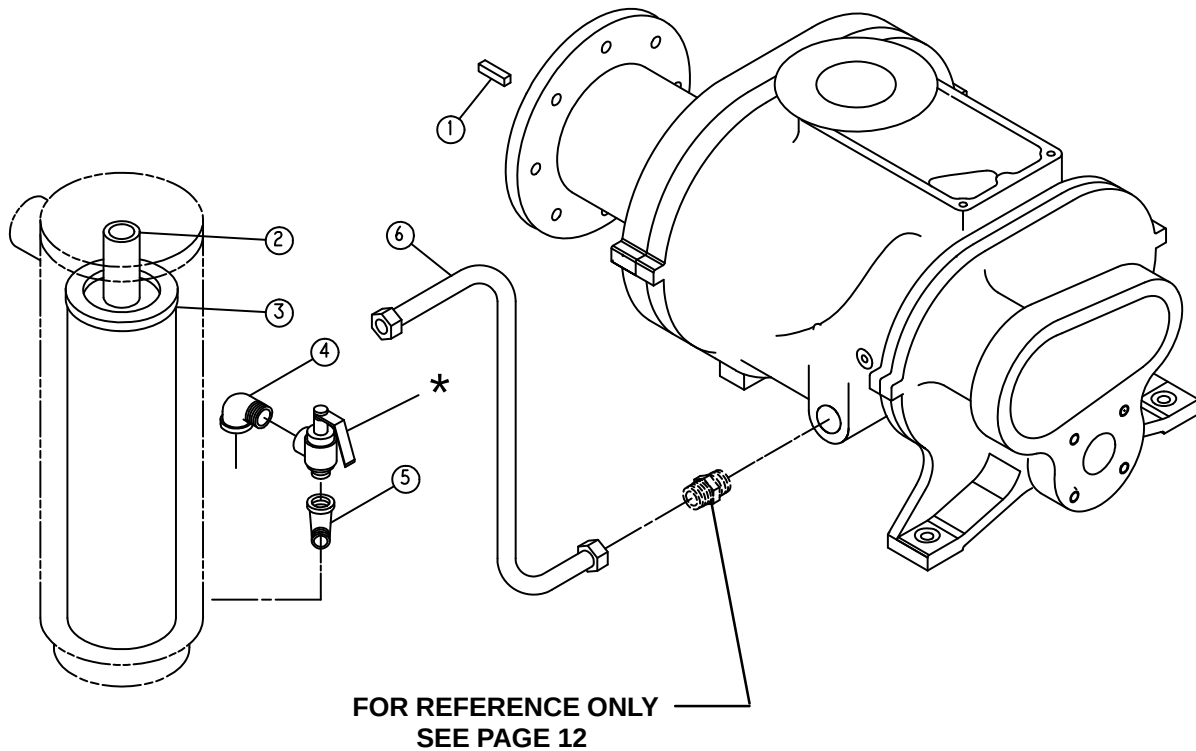
Ref. No.	Name of Part	Qty.	Part No.
1	NIPPLE	1	63H2G
2	ELBOW	1	64C6G
3	CONNECTOR-TUBE	6	86H138
4	TUBE WITH FITTINGS	1	202EBM863
5	ELBOW	1	64C8G
6	VALVE-THERMAL	1	90AR966
7	TUBE WITH FITTINGS	1	201EBM863
8	NIPPLE	1	63H2G
9	ELBOW	1	64C6G
10	NIPPLE	1	63H2G
11	FILTER-OIL	1	200EBM369

OIL FILTER – 200EBM369



WITH 211ECM077 DECAL AFFIXED TO ELEMENT

Order by Part Number and Description. Reference Numbers for your convenience only.



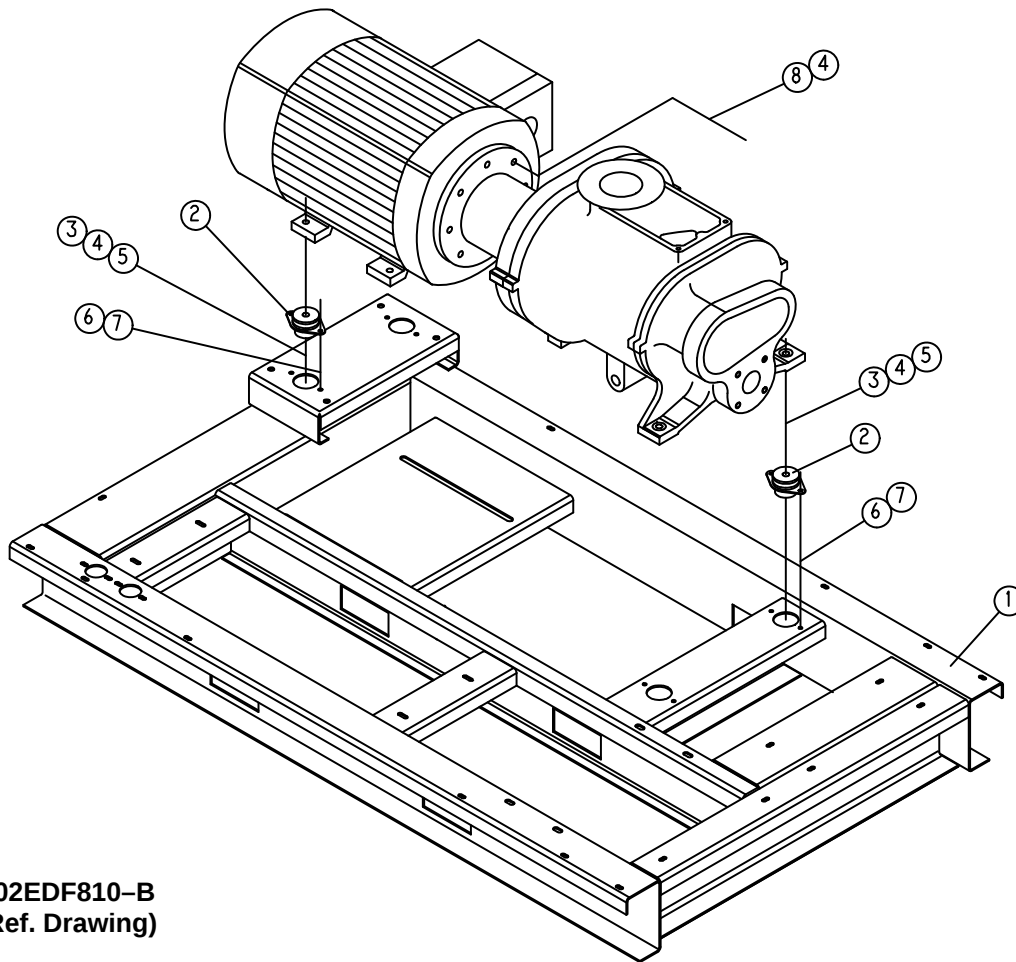
212EBM810
(Ref. Drawing)

OIL PIPING LINE

Ref. No.	Name of Part	Qty.	Part No.
1	KEY-SQUARE	1	8500109
2	SPACER (PIPE)	1	200ECM392
3 **	SEPARATOR	1	200ECM035
4	ELBOW	1	64D10G
5	ELBOW	1	64D6G
6	TUBE WITH FITTINGS	1	200EBH863
*	RELIEF VALVES		
	100 PSI UNITS		90AR381
	125 PSI UNITS		90AR382

** Refer to page 40, Separator Kit 204EAP6013, for parts listing.

Order by Part Number and Description. Reference Numbers are for your convenience only.

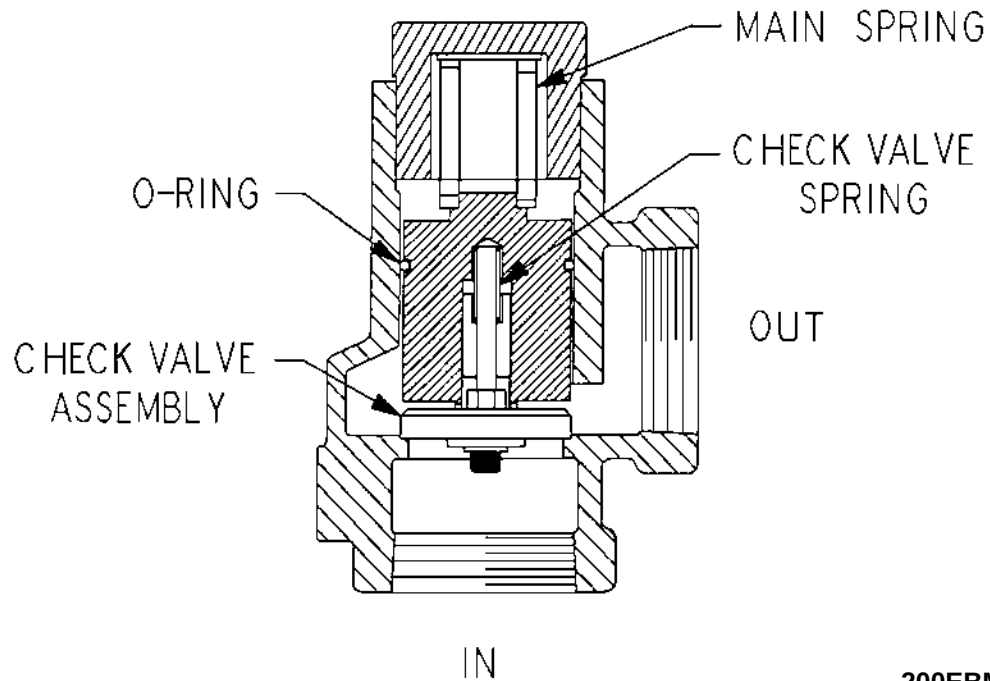


202EDF810-B
(Ref. Drawing)

COMPRESSOR BASE GROUP

Ref. No.	Name of Part	Qty.	Part No.
1	BASE	1	201EDF285
2	ISOLATOR-VIBRATION	4	49C47
3	SCREW	4	655EF200
4	LOCKWASHER	4	95B7
5	NUT	4	50B7
6	SCREW-FLANGED	8	75K48
7	NUT-FLANGED	8	50AW5
8	SCREW	8	655EF060

Order by Part Number and Description. Reference Numbers for your convenience only.

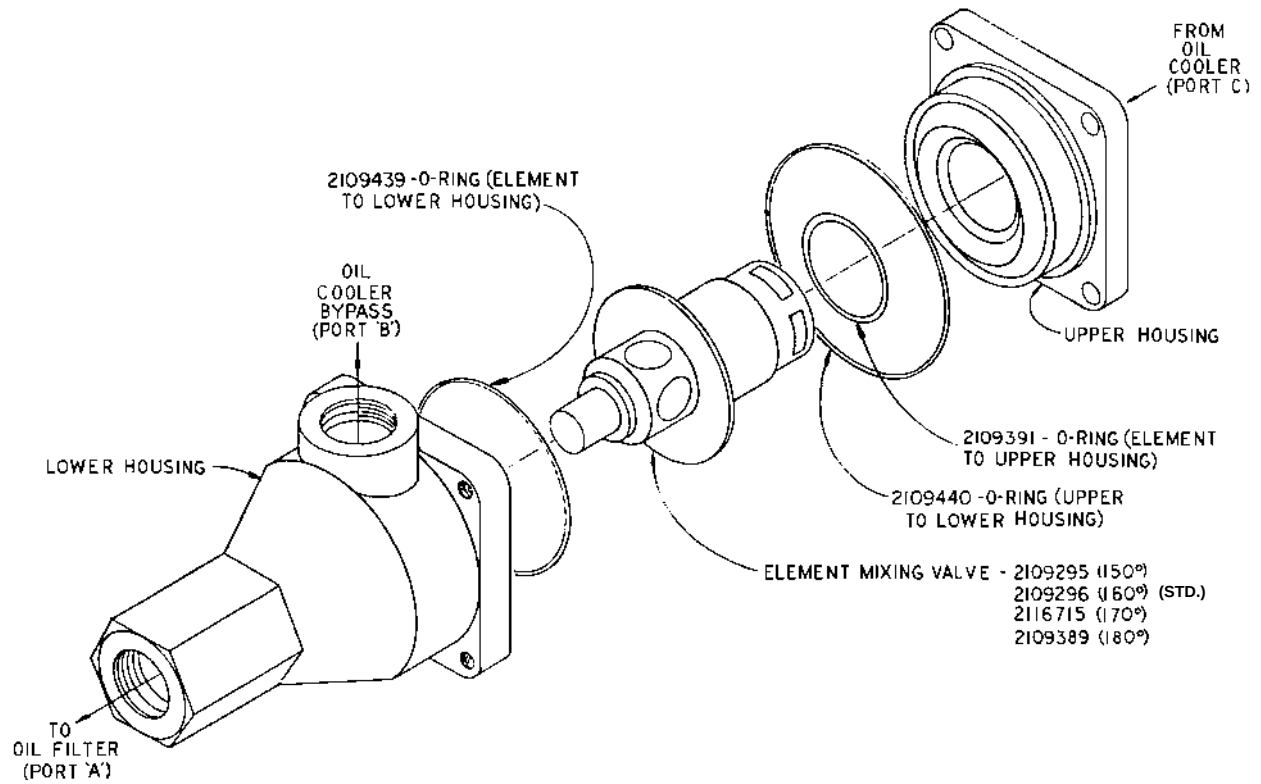


200EBM810
(Ref. Drawing)

MINIMUM PRESSURE VALVE

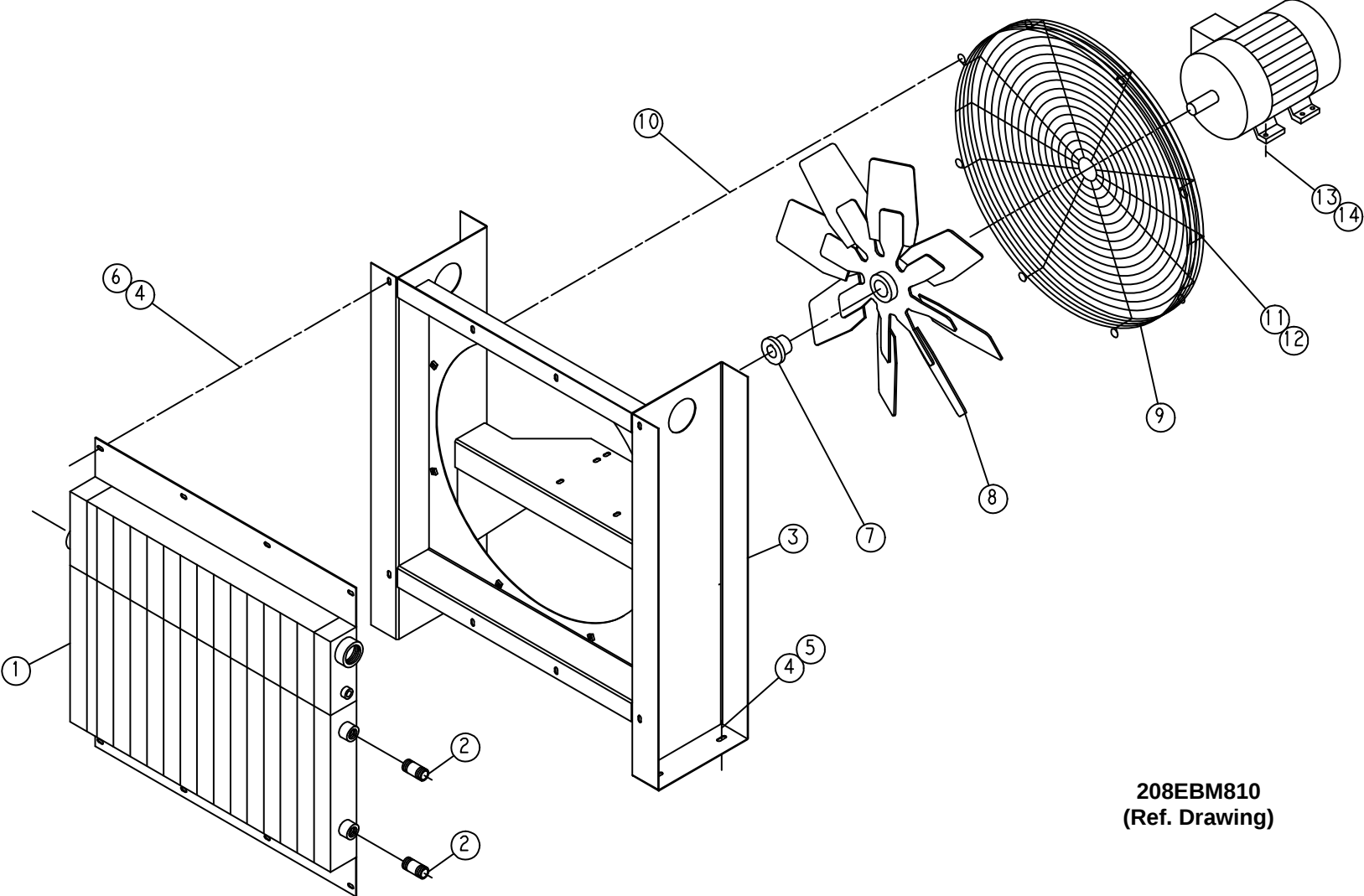
Ref. No.	Name of Part	Qty.	Part No.
	MINIMUM PRESSURE VALVE ASSEMBLY	1	200EBM527
	REPAIR KIT – Includes the following:	1	2116854
	O-RING	1	
	SPRING, CHECK VALVE	1	
	CHECK VALVE ASSEMBLY	1	
	SPRING, MAIN	1	

THERMAL VALVE **(Thermostatic Mixing)**



90AR167 THERMAL VALVE (ALUMINUM HOUSING)

AIR COOLED COOLER GROUP



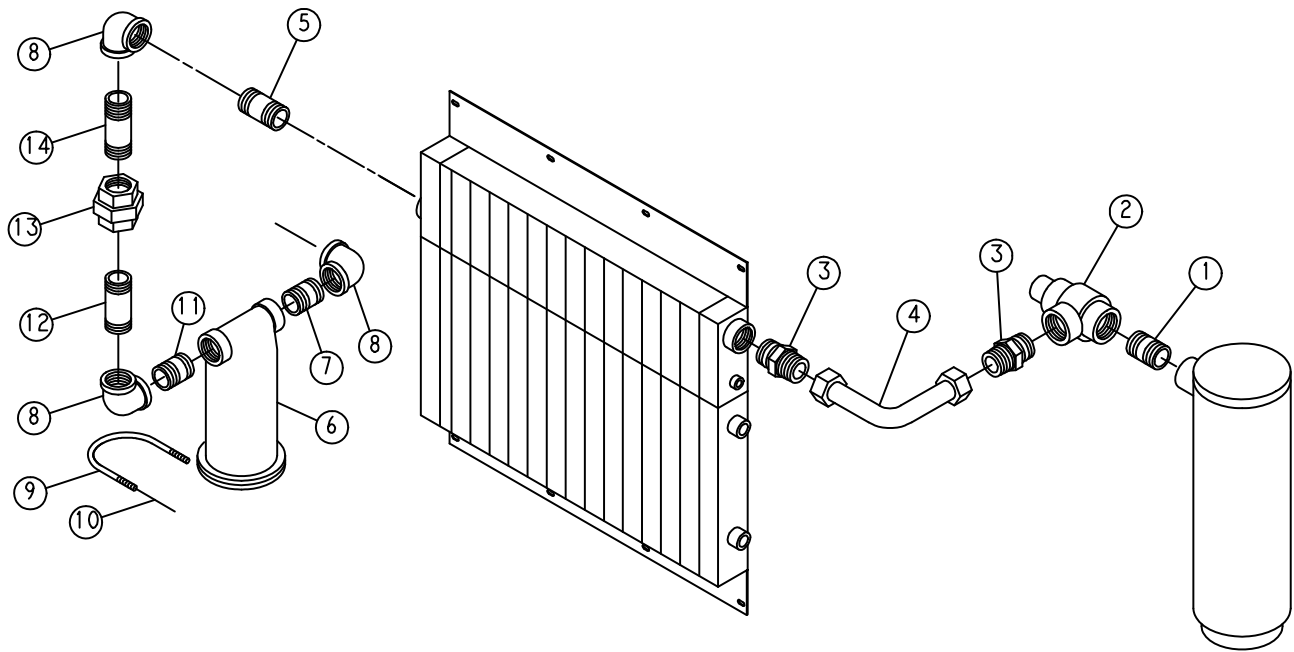
208EBM810
(Ref. Drawing)

Order by Part Number and Description. Reference Numbers are for your convenience only.

AIR COOLED COOLER GROUP

Ref. No.	Name of Part	Qty.	Part No.
1	COOLER-OIL	1	200EBP201
	COOLER-OIL SEACOAST (OPTIONAL)	1	201EBP201
2	NIPPLE	2	63H4G
3	SUPPORT	1	200EBM165
4	SCREW-FLANGED	12	75LM51
5	NUT-FLANGED	12	50AW5
6	WASHER	8	95A3
7	BUSHING-HUB	1	22G2
8	FAN	1	201ECM701
9	GUARD-FAN	1	200EBM393
10	SCREW-FLANGED	8	75LM51
11	SCREW-FLANGED	4	75LM50
12	NUT-FLANGED	4	50AW4
13	SCREW-FLANGED	4	75K48
14	NUT-FLANGED	4	50AW5

Order by Part Number and Description. Reference Numbers are for your convenience only.



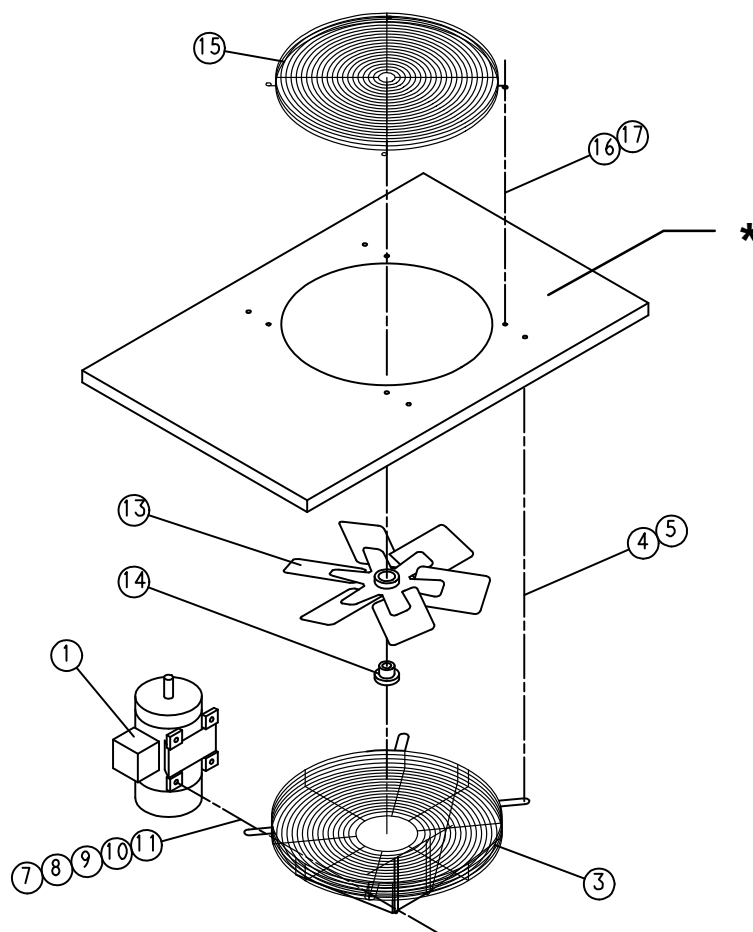
211EBM810-A
(Ref. Drawing)

AIR DISCHARGE PIPING

Ref. No.	Name of Part	Qty.	Part No.
1	NIPPLE	1	63L9G
2	VALVE-MINIMUM PRESSURE	1	200EBM527
3	CONNECTOR-TUBE	2	86H142
4	TUBE WITH FITTINGS	1	204EBM863
5	NIPPLE	1	63L16G
6	TRAP	1	83C84
7	NIPPLE	1	63L1G
8	ELBOW	3	64C9G
9	U-BOLT	1	15U64
10	NUT-FLANGED	2	50AW5
11	NIPPLE	1	63L9G
12	NIPPLE	1	63L20G
13	UNION-STRAIGHT	1	64Z2
14	NIPPLE	1	63L22G

* Not shown.

Order by Part Number and Description. Reference Numbers for your convenience only.



285ECM810
(Ref. Drawing)

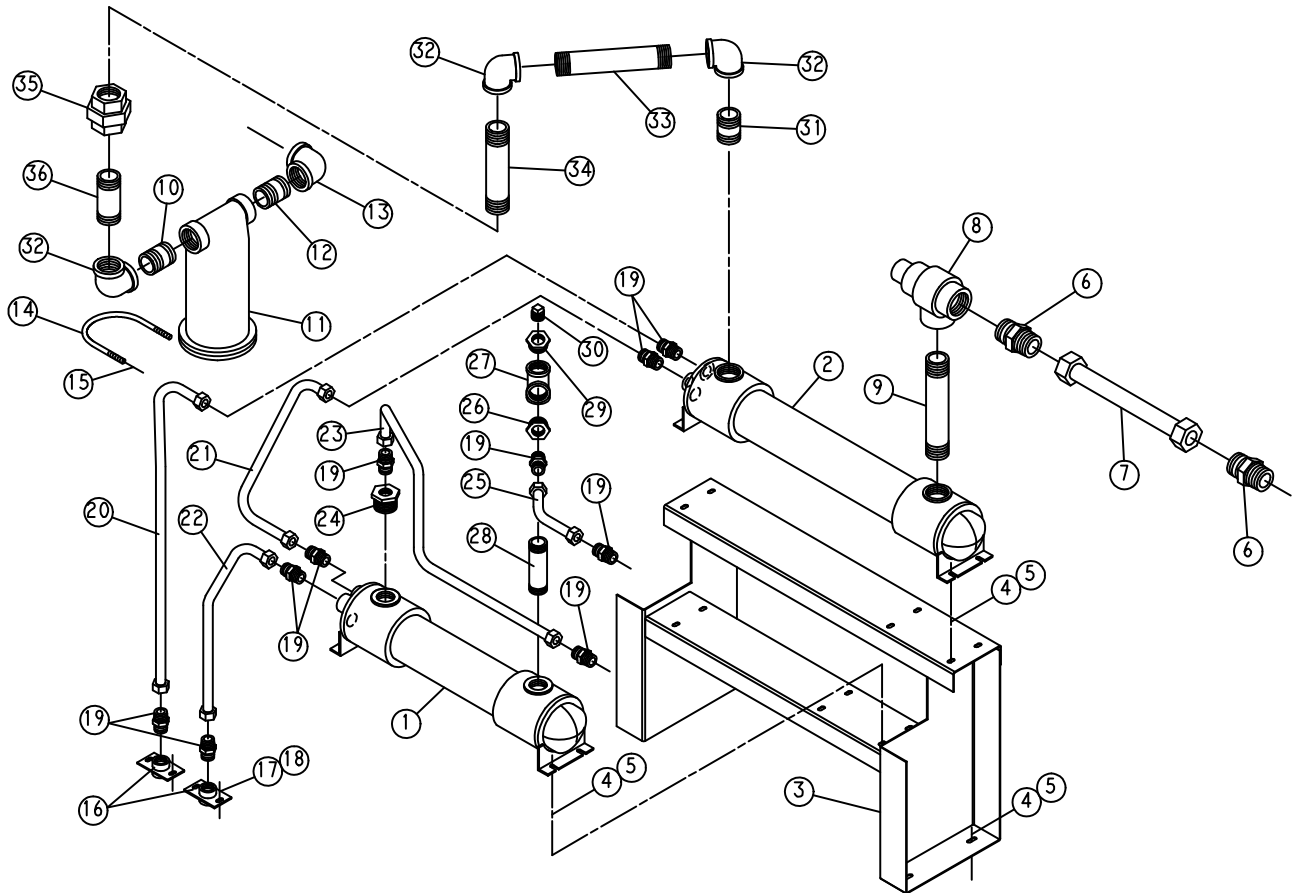
AIR-COOLED FAN ASSEMBLY

Ref. No.	Name of Part	Qty.	Part No.
1	MOTOR	1	**
3	GUARD-FAN	1	202ECM393
4	SCREW-FLANGED	4	75K48
5	WASHER	4	95A5
7	SCREW	4	75A35
8	RETAINER	4	2014731
9	WASHER	4	95A2
10	LOCKWASHER	4	95B2
11	NUT	4	50B2
13	FAN	1	202ECM701
14	HUB BUSHING	1	22G27
15	GUARD-FAN	1	200ECM393
16	SCREW-FLANGED	4	75LM51
17	NUT-FLANGED	4	50AW5

* Refer to page 35 for Vent Fan Panel.

** See page 36 for Selective.

WATER COOLED HEAT EXCHANGER – WITH AFTERCOOLER



209EBM810-A
(Ref. Drawing)

Order by Part Number and Description. Reference Numbers are for your convenience only.

WATER COOLED HEAT EXCHANGER – WITH AFTERCOOLER

Ref. No.	Name of Part	Qty.	Seacoast Option 100 HP Part No.	Fresh Water 100 HP Part No.
1	EXCHANGER-HEAT (OIL/WATER)	1	203ESM349	204ESM349
	BONNET-IN & OUT (For Repair)	1	2109060	2109060
	BONNET-RETURN (For Repair)	1	2109061	2109061
	GASKET-IN & OUT (For Repair)	1	2109058	2109058
	GASKET-RETURN (For Repair)	1	2109059	2109059
2	AFTERCOOLER	1	202ESM292	201ESM292
	BONNET-IN & OUT (For Repair)	1	2109060	2109060
	BONNET-RETURN (For Repair)	1	2109061	2109061
	GASKET-IN & OUT (For Repair)	1	2109058	2109058
	GASKET-RETURN (For Repair)	1	2109059	2109059
3	SUPPORT	1	213ECM165	213ECM165
4	SCREW-FLANGED	12	75LM51	75LM51
5	NUT-FLANGED	12	50AW5	50AW5
6	CONNECTOR-TUBE	2	86H142	86H142
7	TUBE WITH FITTINGS	1	202EBP863	202EBP863
8	VALVE-MINIMUM PRESSURE	1	200EBM527	200EBM527
9	NIPPLE	1	63L29G	63L29G
10	NIPPLE	1	63L9G	63L9G
11	TRAP	1	83C84	83C84
12	NIPPLE	1	63L9G	63L9G
13	ELBOW	1	64C9G	64C9G
14	U-BOLT	1	15U64	15U64
15	NUT-FLANGED	2	50AW5	50AW5
16	MANIFOLD-WATER	2	200ECM072	200ECM072
17	SCREW-FLANGED	4	75LM51	75LM51
18	NUT-FLANGED	4	50AW5	50AW5
19	CONNECTOR-TUBE	10	86H138	86H138
20	TUBE WITH FITTINGS	1	209EBM863	209EBM863
21	TUBE WITH FITTINGS	1	208EBM863	208EBM863
22	TUBE WITH FITTINGS	1	210EBM863	210EBM863
23	TUBE WITH FITTINGS	1	207EBM863	207EBM863
24	BUSHING-PIPE	1	64E13	64E13
25	TUBE WITH FITTINGS	1	201EBP863	201EBP863
26	BUSHING-PIPE	1	64E13	64E13
27	TEE	1	64G11G	64G11G
28	NIPPLE	1	63K6G	63K6G
29	BUSHING-PIPE	1	64E13	64E13
30	PLUG	1	64AA1	64AA1
31	NIPPLE	1	63L9G	63L9G
32	ELBOW	3	64C9G	64C9G
33	NIPPLE	1	63L34G	63L34G
34	NIPPLE	1	63L27G	63L27G
35	UNION-STRAIGHT	1	64Z2	64Z2
36	NIPPLE	1	63L20G	63L20G
*	TEMPERATURE REGULATOR	1	90AR326	90AR326
*	SOLENOID VALVE (NEMA 1)	1	90AC118	90AC118
*	SOLENOID VALVE (NEMA 4)	1	90AC103	90AC103

* Not Shown.

This exploded view diagram illustrates the assembly of a water pump system. The components are numbered as follows:

- 1**: Main pump body
- 2**: Vertical support plate
- 3**: Horizontal support plate
- 4**: Mounting bracket
- 5**: Mounting bracket
- 6**: Hose clamp
- 7**: Hose clamp
- 8**: Hose clamp
- 9**: Hose clamp
- 10**: Hose clamp
- 11**: Hose clamp
- 12**: Hose clamp
- 13**: Hose clamp
- 14**: Hose clamp
- 15**: Hose clamp
- 16**: Hose clamp
- 17**: Hose clamp
- 18**: Hose clamp
- 19**: Hose clamp
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- 21**: Hose clamp
- 22**: Hose clamp
- 23**: Hose clamp
- 24**: Hose clamp
- 25**: Hose clamp
- 26**: Hose clamp
- 27**: Hose clamp
- 28**: Hose clamp
- 29**: Hose clamp

13-9-549 Page 24

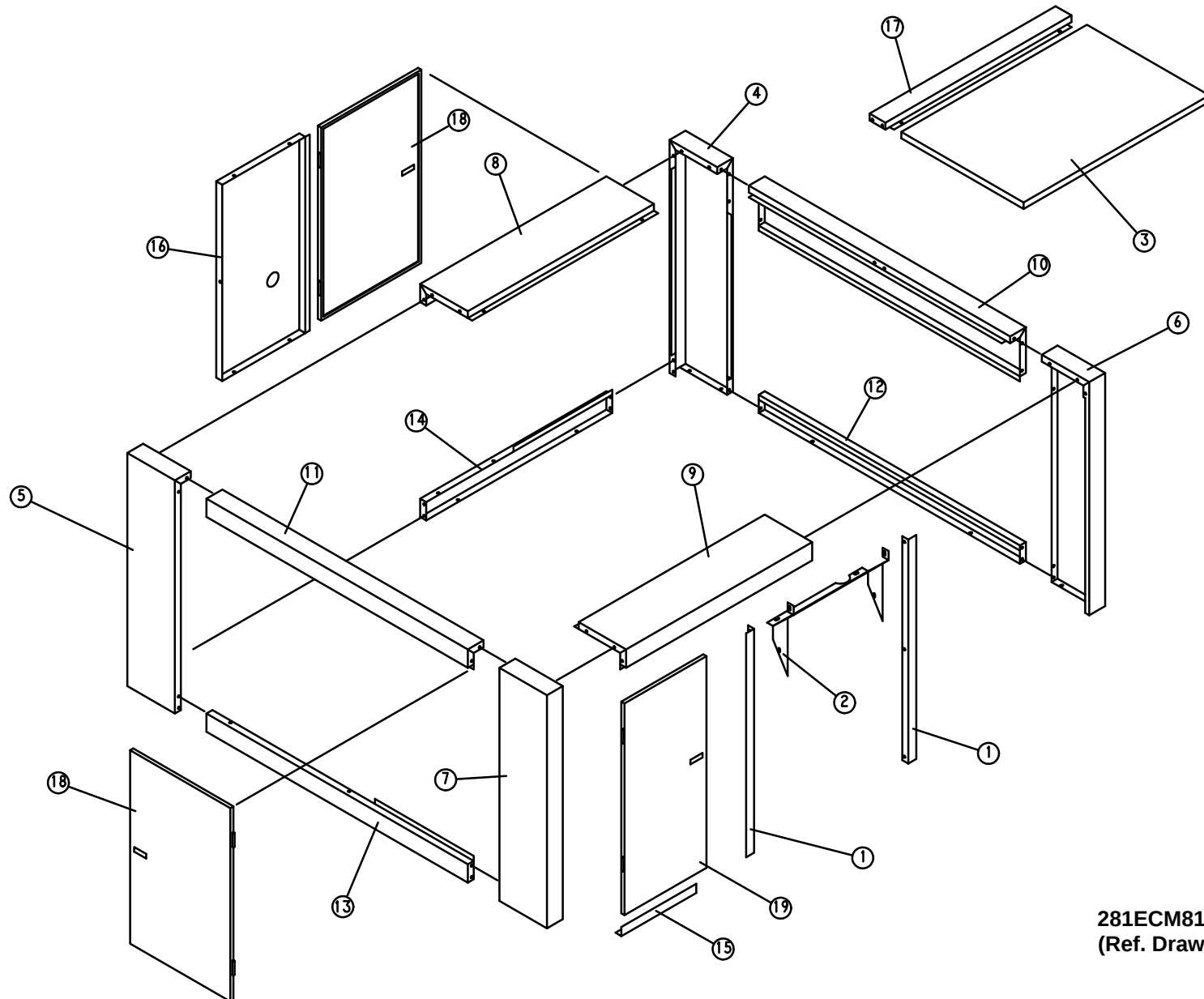
Order by Part Number and Description. Reference Numbers are for your convenience only.

WATER COOLED HEAT EXCHANGER – WITHOUT AFTERCOOLER

Ref. No.	Name of Part	Qty.	Seacoast Option 100 HP Part No.	Fresh Water 100 HP Part No.
1	EXCHANGER-HEAT (OIL/WATER)	1	203ESM349	204ESM349
	BONNET-IN & OUT (For Repair)	1	2109060	2109060
	BONNET-RETURN (For Repair)	1	2109061	2109061
	GASKET-IN & OUT (For Repair)	1	2109058	2109058
	GASKET-RETURN (For Repair)	1	2109059	2109059
2	BRACKET-PIPE	2	201ECM108	201ECM108
3	SUPPORT	1	213ECM165	213ECM165
4	SCREW-FLANGED	12	75LM51	75LM51
5	NUT-FLANGED	12	50AW5	50AW5
6	U-BOLT	2	15U101	15U101
7	NUT-FLANGED	4	50AW35	50AW35
8	NIPPLE	2	63L9G	63L9G
9	VALVE-MINIMUM PRESSURE	1	200EBM527	200EBM527
10	CONNECTOR-TUBE	2	86H142	86H142
11	TUBE WITH FITTINGS	1	213EBM863	213EBM863
12	TRAP	1	83C84	83C84
13	NIPPLE	1	63L1G	63L1G
14	ELBOW	1	64C9G	64C9G
15	U-BOLT	1	15U64	15U64
16	NUT-FLANGED	6	50AW5	50AW5
17	SCREW-FLANGED	4	75LM51	75LM51
18	MANIFOLD-WATER	2	200ECM072	200ECM072
19	CONNECTOR-TUBE	8	86H138	86H138
20	TUBE WITH FITTINGS	1	211EBM863	211EBM863
21	TUBE WITH FITTINGS	1	210EBM863	210EBM863
22	TUBE WITH FITTINGS	1	207EBM863	207EBM863
23	BUSHING-PIPE	1	64E13	64E13
24	TUBE WITH FITTINGS	1	201EBP863	201EBP863
25	BUSHING-PIPE	1	64E13	64E13
26	TEE	1	64G11G	64G11G
27	NIPPLE	1	63K6G	63K6G
28	BUSHING-PIPE	1	64E13	64E13
29	PLUG.	1	64AA1	64AA1
*	TEMPERATURE REGULATOR	1	90AR326	90AR326
*	SOLENOID VALVE (NEMA 1)	1	90AC118	90AC118
*	SOLENOID VALVE (NEMA 4)	1	90AC103	90AC103

* Not Shown.

ENCLOSURE
(COMMON PARTS - AIR/WATER COOLED)

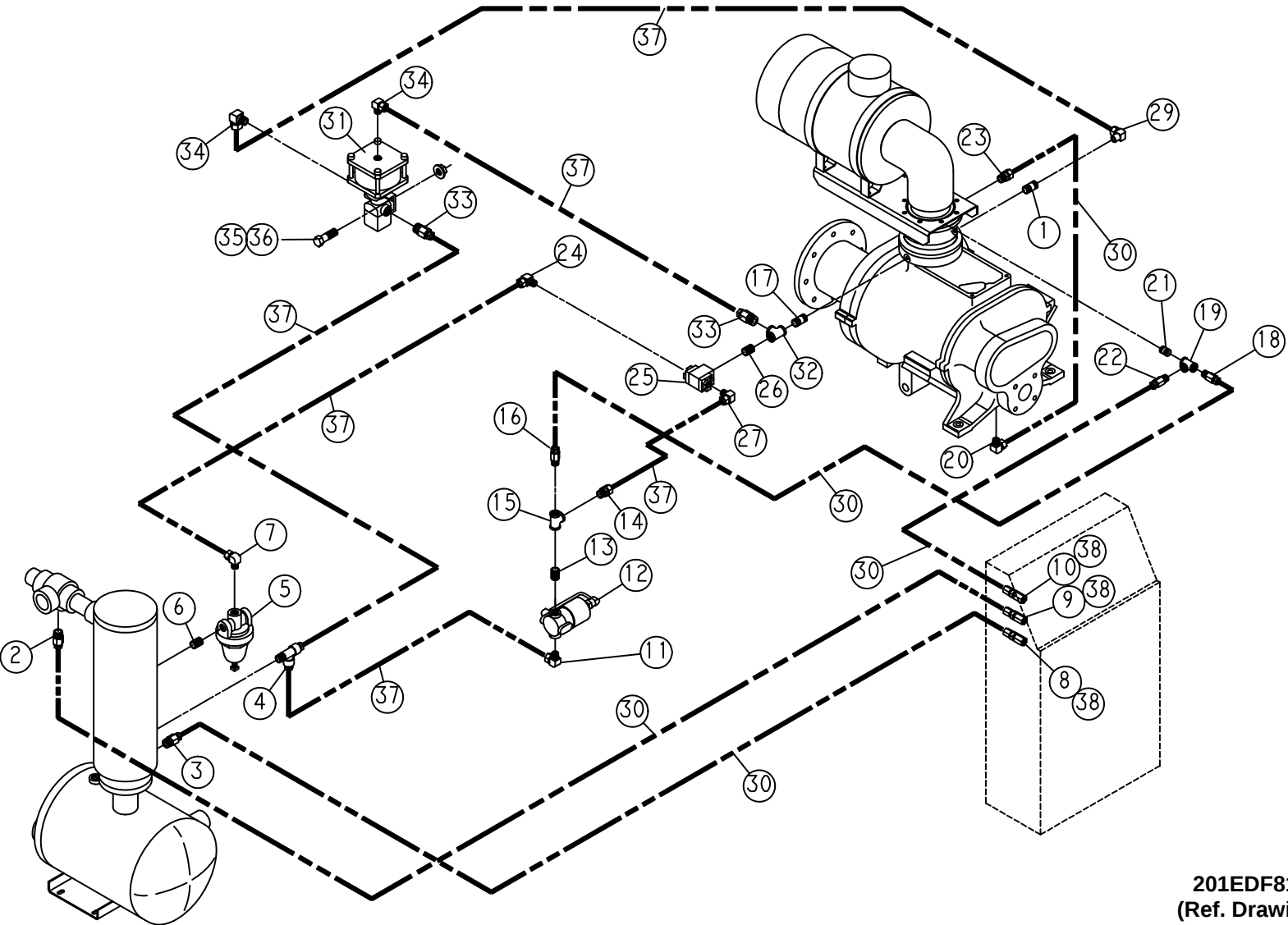


281ECM810-A
(Ref. Drawing)

**ENCLOSURE
(COMMON PARTS – AIR/WATER COOLED)**

Ref. No.	Name of Part	Qty.	Part No.
1	BRACKET	2	215ECM142
2	BRACKET	1	216ECM142
3	PANEL	1	217ECM216
4	POST	1	208ECM313
5	POST	1	209ECM313
6	POST	1	213ECM313
7	POST	1	214ECM313
8	FRAME	1	215ECM314
9	FRAME	1	216ECM314
10	FRAME	1	217ECM314
11	FRAME	1	218ECM314
12	FRAME	1	219ECM314
13	FRAME	1	220ECM314
14	FRAME	1	221ECM314
15	FRAME	1	222ECM314
16	BRACE	1	206ECM326
17	BRACE	1	205ECM326
18	DOOR-CANOPY	2	210ECM334
19	DOOR-CANOPY	1	211ECM334

CONTROL SCHEMATIC

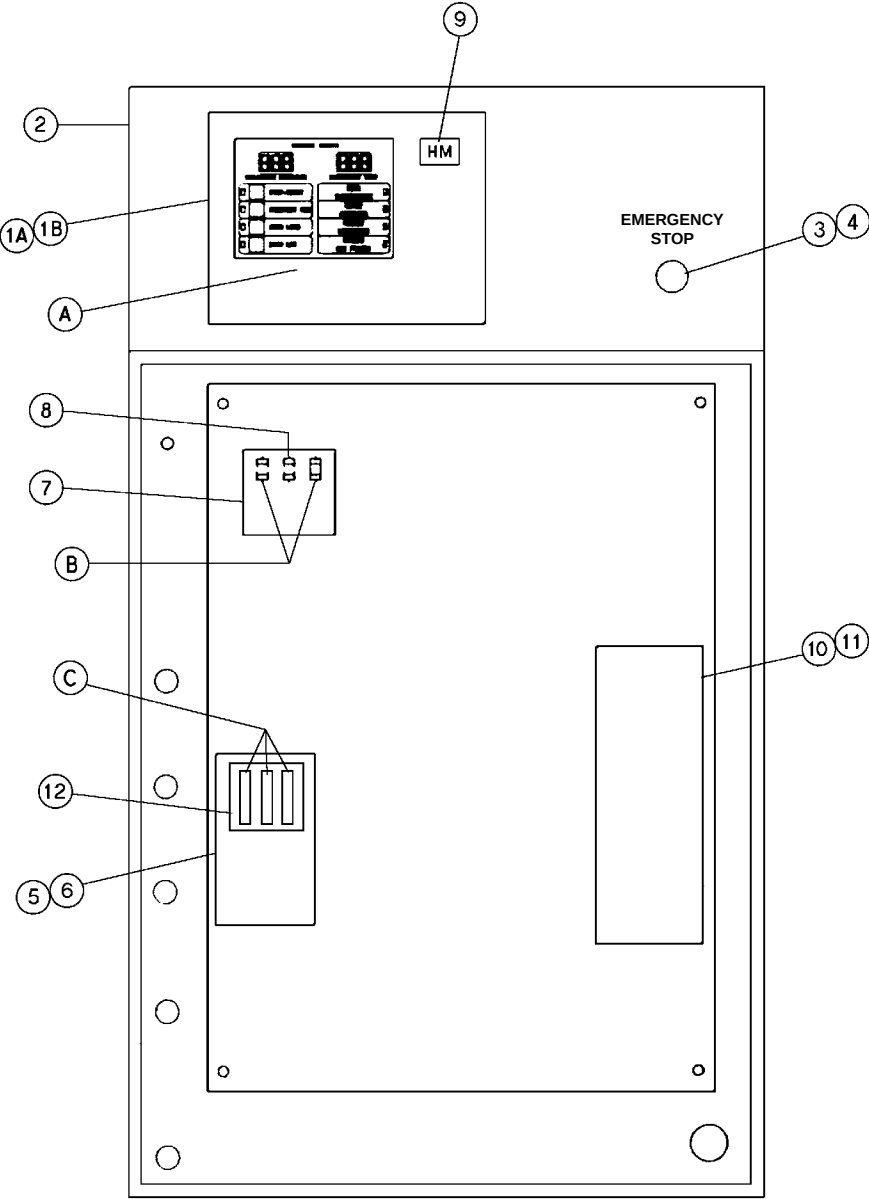


201EDF810
(Ref. Drawing)

CONTROL SCHEMATIC

Ref. No.	Name of Part	Qty.	Part No.
1	NIPPLE	1	63D5G
2	CONNECTOR-TUBE	1	86E4
3	CONNECTOR-TUBE	1	86E4
4	TEE	1	86E136
5	VALVE-SUBTRACTIVE PILOT	1	2009398
6	NIPPLE	1	63D1G
7	ELBOW-TUBE	1	86E60
8	CONNECTOR-TUBE	1	86N287
9	CONNECTOR-TUBE	1	86N287
10	CONNECTOR-TUBE	1	86N287
11	ELBOW-TUBE	1	86E60
12	VALVE-SOLENOID	1	91B77
13	NIPPLE	1	63D1G
14	CONNECTOR-TUBE	1	86E9
15	TEE-PIPE	1	64G3G
16	ORIFICE	1	86N291
17	NIPPLE	1	63D5G
18	CONNECTOR	1	86N272
19	TEE-PIPE	1	64G3G
20	ELBOW-TUBE	1	86E60
21	NIPPLE	1	63D1G
22	CONNECTOR-TUBE	1	86E4
23	CONNECTOR-TUBE	1	86E4
24	ELBOW	1	86E64
25	VALVE-CONTROL	1	90AR107
26	NIPPLE	1	63D1G
27	ELBOW	1	86E64
28	ELBOW-TUBE	1	86E60
29	ELBOW	1	86E64
30	TUBE	38	85K3
31	VALVE-CONTROL	1	90AR35
32	TEE-PIPE	1	64G3G
33	CONNECTOR-TUBE	2	86E9
34	ELBOW	2	86E64
35	NUT-FLANGED	2	50AW3
36	SCREW	2	75P4
37	TUBE	1	85K5
38	O-RING	3	165011

CONTROLLER ASSEMBLY

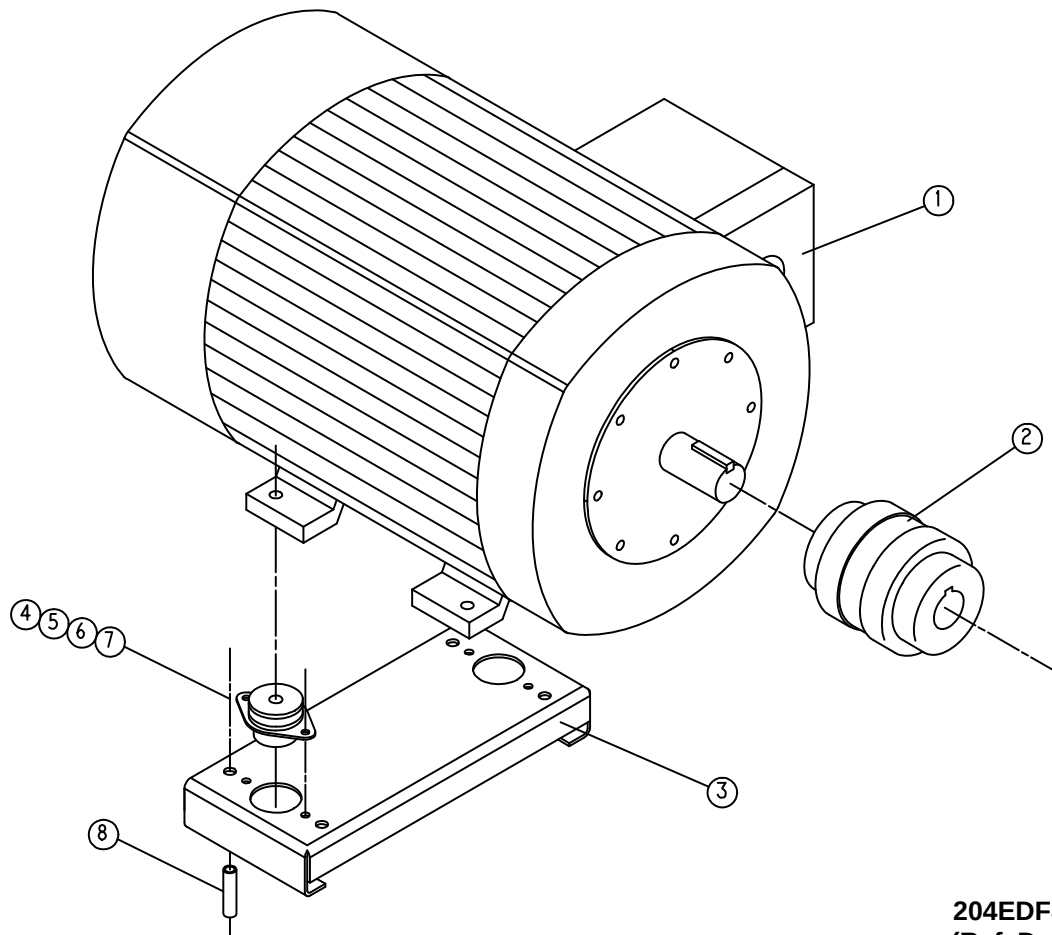


Order by Part Number and Description. Reference Numbers for your convenience only.

CONTROLLER ASSEMBLY – FULL VOLTAGE

			230V	460V	575V
* ASSEMBLED PANEL: NEMA 12	1	274EDF466	280EDF466	282EDF466	
* ASSEMBLED PANEL: NEMA 4	1	275EDF466	281EDF466	283EDF466	
A FUSE, CONTROL BOARD	1	24CA2932	24CA2932	24CA2932	
B FUSE, TRANSFORMER PRIMARY	1	24CA2781	24CA2779	24CA2898	
C FUSE, FAN MOTOR, AIR-COOLED	1	24CA2478	24CA2477	24CA2477	
C FUSE, FAN MOTOR, WATER-COOLED	1	24CA2476	24CA2475	24CA2475	
1A KEYPAD	1	200EBE375	200EBE375	200EBE375	
1B ELECTRONIC CONTROLLER ASSEMBLY	1	200EBE1173	200EBE1173	200EBE1173	
2 BOX-CONTROL ENCLOSURE	1	200EAP179	200EAP179	200EAP179	
3 OPERATOR, 22mm PUSH-PULL E-STOP	1	24CA2907	24CA2907	24CA2907	
4 CONTACT BLOCK	1	24CA2908	24CA2908	24CA2908	
5 STARTER, FAN MOTOR	1	24CA4133	24CA4133	24CA4133	
6 REPLACEMENT COIL FOR ITEM 5	1	2116394	2116394	2116394	
7 CONTROL TRANSFORMER, 105 VA	1	2116617	2116617	2116619	
8 FUSE, TRANSFORMER SECONDARY	1	24CA3729	24CA3729	24CA3729	
9 HOURMETER	1	24CA2895	24CA2895	24CA2895	
10 STARTER, MAIN MOTOR	1	24CA4129	24CA3939	24CA3940	
11 REPLACEMENT COIL FOR ITEM 10	1	2116849	2116722	2116850	
12 HOLDER, FUSE	1	24CA2554	24CA2554	24CA2554	

Order by Part Number and Description. Reference Numbers for your convenience only.



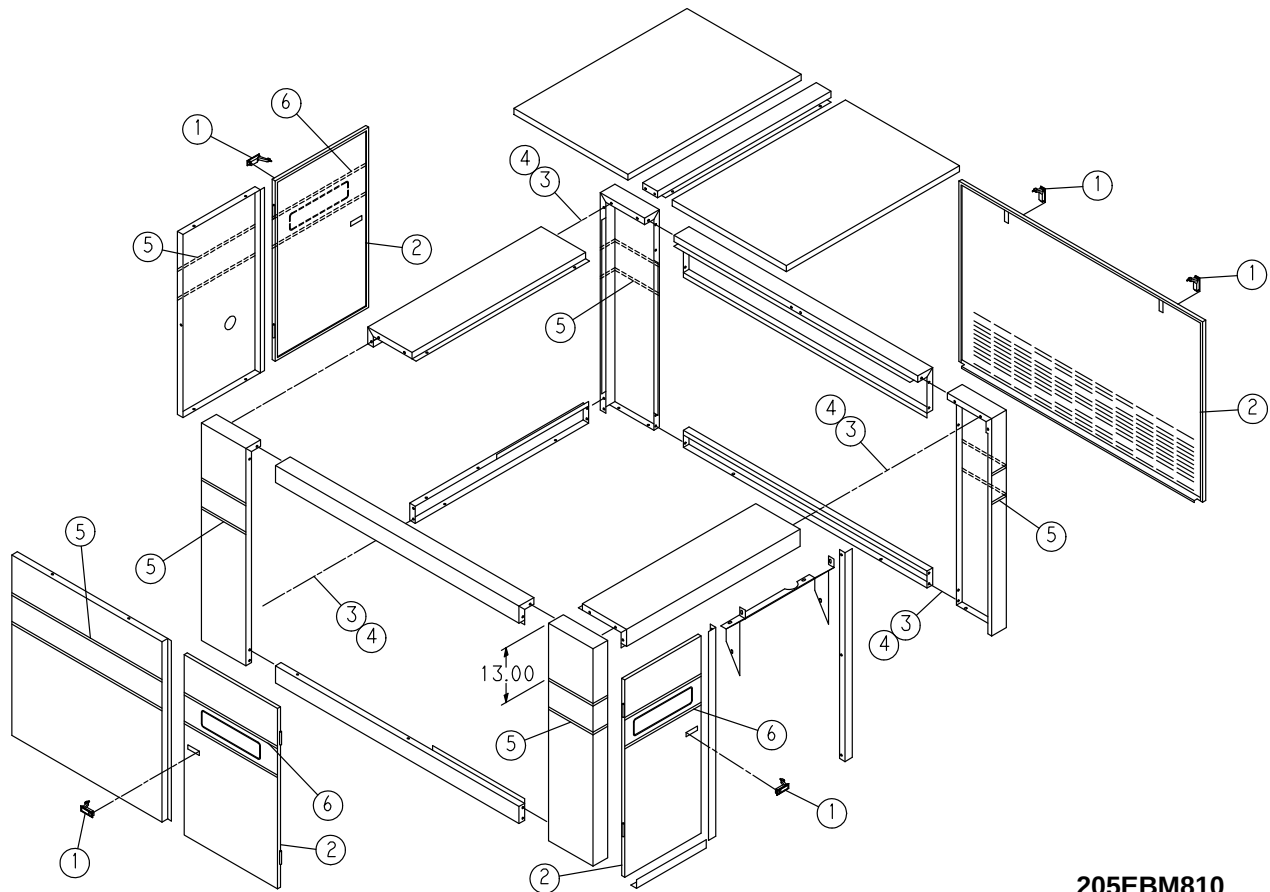
204EDF810-A
(Ref. Drawing)

MAIN MOTOR GROUP

Ref. No.	Name of Part	Qty.	ODP 365TSC Part No.	TEFC 405TSC Part No.
1	MOTOR	1	(See Page 36)	(See Page 36)
2 *	COUPLING-FLEXIBLE	1	51L58	51L59
3	SUPPORT-MOTOR	1	201EDF620	200EDH620
4	SCREW	4	655EF160	655EF160
5	WASHER	4	95A7	95A7
6	LOCKWASHER	4	95B7	95B7
7	NUT	4	50B7	50B7
8	NIPPLE	4	63AM12X36G	63AM6X160

* DRIVE COUPLING KIT, For Repair Order (1) ECK77781 (which includes (6) 2109116 CUSHIONS)

Order by Part Number and Description. Reference Numbers are for your convenience only.

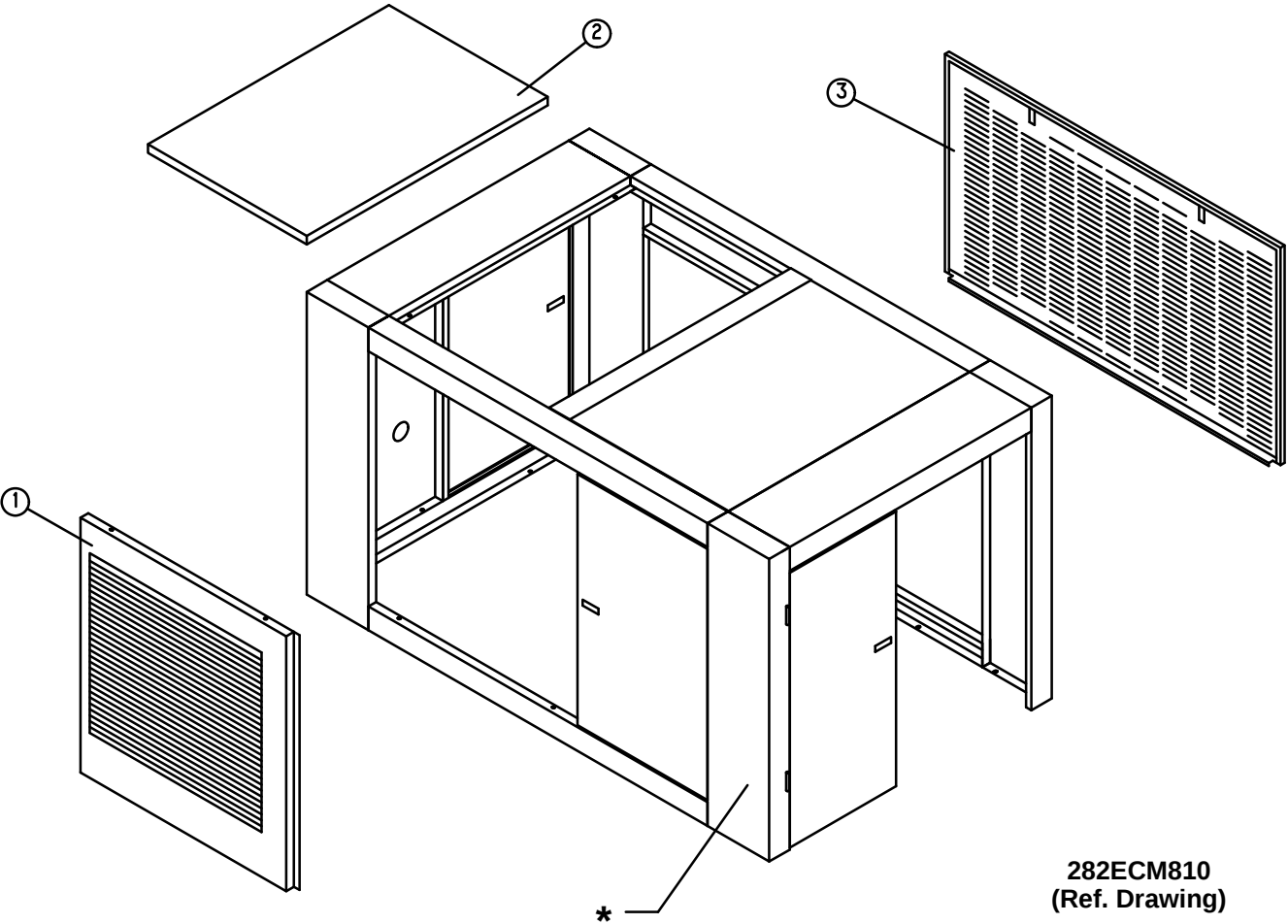


205EBM810
(Ref. Drawing)

ENCLOSURE – HARDWARE

Ref. No.	Name of Part	Qty.	Part No.
1	LATCH	5	31D58
2	SEAL	51 Ft.	32E12
3	SCREW-FLANGED	86	75LM51
4	NUT-FLANGED	78	50AW5
5	DECAL	6	203ESO077
6	DECAL	3	215ECM077

Order by Part Number and Description. Reference Numbers are for your convenience only.

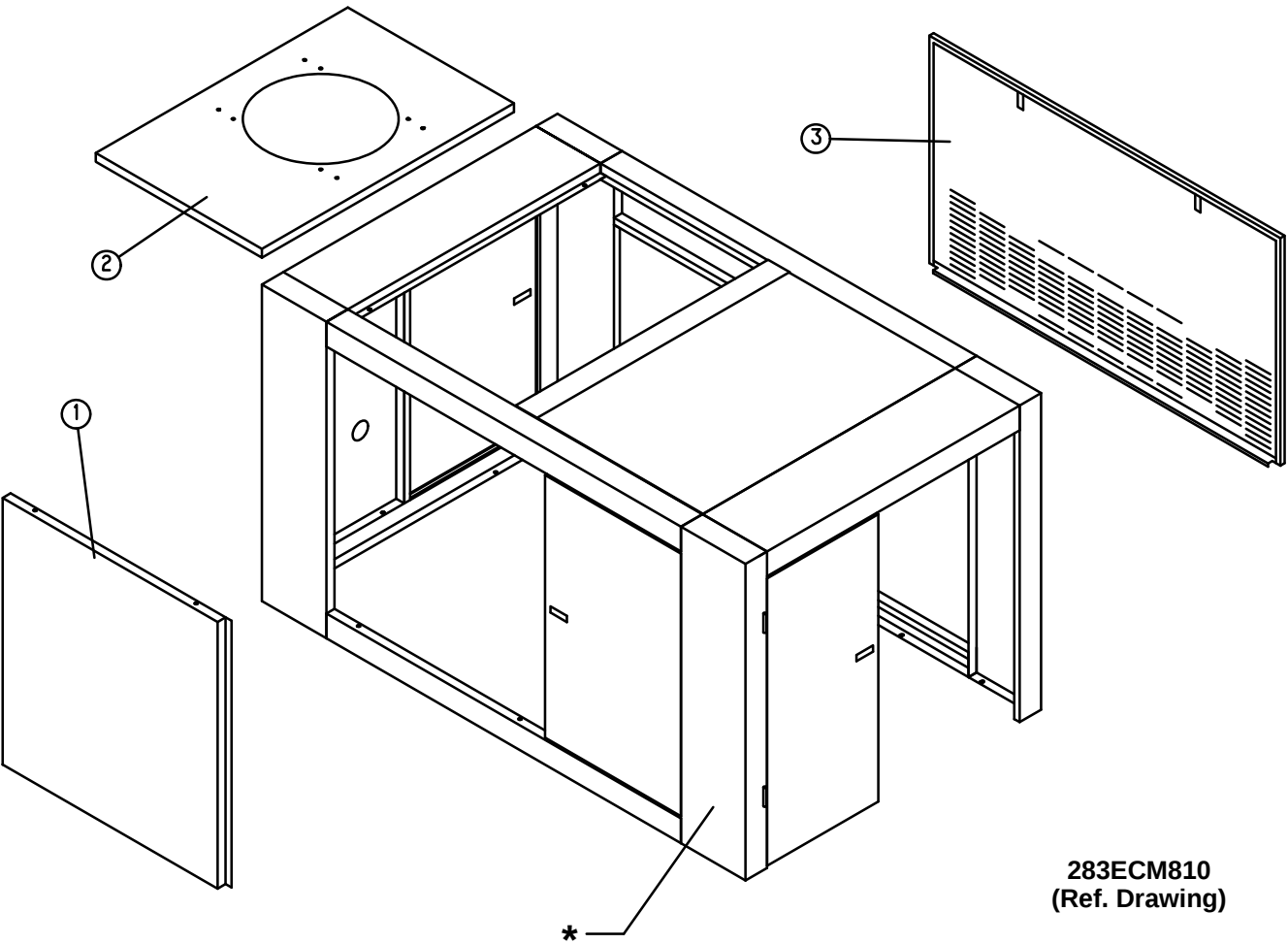


ENCLOSURE – AIR COOLED UNITS

Ref. No.	Name of Part	Qty.	Part No.
1	PANEL	1	220ECM216
2	PANEL	1	217ECM216
3	PANEL	1	215ECM216

* Refer to pages 26 and 27 for Enclosure Parts and page 33 for Enclosure Hardware.

Order by Part Number and Description. Reference Numbers are for your convenience only.



ENCLOSURE – WATER COOLED UNITS

Ref. No.	Name of Part	Qty.	Part No.
1	PANEL	1	219ECM216
2	PANEL	1	216ECM216
3	PANEL	1	218ECM216

* Refer to pages 26 and 27 for Enclosure Parts and page 33 for Enclosure Hardware.

**MOTOR GROUP
(MAIN DRIVE MOTORS)**

COLUMN CODE	NAME OF PART	100 HP PART NO.
------------------------	---------------------	----------------------------

**OPEN DRIP PROOF
(60 HZ – ODP)**

13A	MOTOR, 200V	24CA3208
13B	MOTOR, 230V	24CA3211
13C	MOTOR, 460V	24CA3211
13D	MOTOR, 575V	24CA3214

**OPEN DRIP PROOF
(60 HZ – ODP – HIGH EFFICIENCY)**

13E	MOTOR, 200V	24CA3217
13F	MOTOR, 230V	24CA3220
13G	MOTOR, 460V	24CA3220
13H	MOTOR, 575V	24CA3223

**TOTALLY ENCLOSED FAN COOLED
(60 HZ – TEFC)**

13I	MOTOR, 200V	24CA3226
13J	MOTOR, 230V	24CA3229
13K	MOTOR, 460V	24CA3229
13L	MOTOR, 575V	24CA3232

**TOTALLY ENCLOSED FAN COOLED
(60 HZ – TEFC – HIGH EFFICIENCY)**

13M	MOTOR, 200V	24CA3235
13N	MOTOR, 230V	24CA3238
13O	MOTOR, 460V	24CA3238
13P	MOTOR, 575V	24CA3241

**MOTOR GROUP
AIR COOLED FAN MOTOR (COOLING MODULE)
(T.E.F.C., 3 H.P., 1200 RPM, 60 HZ, 1.33 S.F.)**

VOLTAGE	Part No.
MOTOR, 200V	24CA4259
MOTOR, 230V	24CA4260
MOTOR, 460V	24CA4260
MOTOR, 575V	24CA4261

**WATER COOLED FAN MOTOR (ENCLOSED VENT FAN)
(T.E.F.C., 1200 RPM, 60 HZ, 1.0 S.F.)**

VOLTAGE	Part No.	H.P.
MOTOR, 200V	24CA4177	1/4
MOTOR, 230V	24CA2464	1/4
MOTOR, 460V	24CA2464	1/4
MOTOR, 575V	24CA4178	1/4

IDENTIFICATION AND INSTRUCTION GROUP

Name of Part	Qty.	Part No.
DECAL, CONTROL VOLTAGE	1	69D38
DECAL, GROUNDING	1	208EDG077
DECAL, COPPER WIRE ONLY	1	214ESG 077
DECAL, WARNING	2	202ESG077
DECAL, PARTS LIST/SERVICE MANUAL #	1	204EDE077
DECAL, DRAIN MOISTURE DAILY	1	205ESO077
DECAL, DANGER – DO NOT BREATHE	1	206EAQ077
DECAL, WARNING – AUTO RESTART	3	207EAQ077
DECAL, CAUTION – DO NOT LIFT	1	208EAQ077
DECAL, AEON 9000 LUBRICANT	1	210EAQ077
DECAL, WARNING – ROTATING MACHINERY	1	211EAQ077
DECAL, DANGER – HOT OIL UNDER PRESSURE	1	212EAQ077
DECAL, WARNING – ELECTRICAL SHOCK	1	213EAQ077
DECAL, NOTICE – USE GD PARTS	1	214EAQ077
DECAL, WARNING – READ OPERATOR MANUAL	1	215EAQ077
DECAL, WARNING – ELECTRICAL SHOCK	1	216EAQ077
DECAL, WARNING – INSPECT OIL RESERVOIR	1	217EAQ077
DECAL, DANGER – DO NOT MODIFY	1	218EAQ077
DECAL, CAUTION – USE FLOOR PLATE	1	221EAQ077
DECAL, WARNING – SEE WIRING DIAGRAM	1	222EAQ077
DECAL, OPERATION & MAINTENANCE	1	217ECM077
DECAL, WARNING	1	227ECM077
DECAL, ENCLOSURE	3	214ECM077
DECAL, ENCLOSURE – BASE LOAD	1	216ECM077

OVERLOAD RELAY HEATER CONVERSION LISTING

Refer to Motor Nameplate “Amperage” and Decal in Control Panel for Selection of Overload Relay Heater Packs.

CUTLER-HAMMER PART NUMBER

GARDNER DENVER PART NUMBER

H2002B	24CA4101
H2003B	24CA4102
H2004B	24CA4103
H2005B	24CA4104
H2006B	24CA4105
H2007B	24CA4106
H2008B	24CA4107
H2009B	24CA4108
H2010B	24CA4109
H2011B	24CA4110
H2012B	24CA4111
H2013B	24CA4112
H2014B	24CA4113
H2015B	24CA4114
H2016B	24CA4115
H2017B	24CA4116
H2018	24CA2924
H2019	24CA2925
H2020	24CA2926
H2021	24CA2927
H2022	24CA2893
H2023	24CA2894
H2024	24CA2928

REPAIR KITS

Name of Part	Qty.	Part No.
ROUTINE MAINTENANCE KIT – HEAVY DUTY AIR FILTER		202ECM6013
(Includes next two items)		
ELEMENT, AIR FILTER	2	2116713
ELEMENT, OIL FILTER	3	2116110
PERIODIC MAINTENANCE KIT (INLET VALVE)		302SSM6013
(Includes next five items)		
O-RING	1	25BC447
SPRING	1	78G19
SPRING	1	78W63
O-RING	1	25AM29
RETAINER-RING	1	74D88
PERIODIC OVERHAUL KIT (Includes next seven items)	1	303SSH6013
GASKET KIT (See below)	1	304SSH6013
OIL SEAL KIT (See below)	1	302SSH6013
ROLLER BEARING	1	12BA91
ROLLER BEARING	1	12BA90
ROLLER BEARING	1	12BA130
ROLLER BEARING	1	12BA136
SPRING	1	78W48
GASKET KIT (Includes next five items)		304SSH6013
PERIODIC MAINTENANCE KIT (INLET VALVE)	1	302SSM6013
SHIM SET (SHAFT)	1	77H54
SHIM SET	1	77H53
GASKET	1	25C1230N
GASKET ELIMINATOR	1	25BC222
OIL SEAL KIT (Includes next seven items)		302SSH6013
WEAR SLEEVE	1	80M12
OIL SEAL	1	60DD679
OIL SEAL	1	60DD690
O-RING	1	8502140
O-RING	1	25BC165
GASKET ELIMINATOR	1	25BC222
CHECK VALVE	1	90AR923
WEAR SLEEVE INSTALLATION / REMOVAL KIT		200SSH4017
(Includes next seven items)		
PULLER	1	200SSH219
PLATE-PULLER	1	200SSH340
SCREW	1	75LM192
SCREW	1	655ED120
SCREW	2	75D176
GUIDE	1	200SSH450
TOOL	1	200SSH074

REPAIR KITS (Continued)

Name of Part	Qty.	Part No.
SEPARATOR KIT (Includes next three items)		204EAP6013
OIL SEPARATOR	1	200ECM035
GASKET	1	25C1788N
LUBRICANT (OIL SEAL GREASE)	1	2116755
PNEUMATIC CONTROLS AND GAUGES (Includes next four items) ...		300EBE6013
CHECK VALVE	1	90AR261
SHUTTLE VALVE	1	90AR107
PURGE VALVE	1	90AR35
SUBTRACTIVE PILOT VALVE	1	2009398
ELECTRICAL CONTROL KIT (Includes next six items)		301EBE6013
SOLENOID VALVE	1	91B77
THERMISTOR PROBE	2	21D264
TRANSDUCER	2	88H242
VACUUM SWITCH	1	88H195
DRIVE COUPLING KIT (Includes next item)	1	200EDH6003
CUSHIONS (Includes 6)		2116477
LUBRICANT (AEON 4000)		
5 GALLON PAIL		28H57
55 GALLON DRUM		28H36
TOUCH-UP PAINT		
5 GALLON PAIL		28H76
1 GALLON CAN		28H84
1 QUART CAN		28H83
WATER TEMPERATURE REGULATOR (Optional)		90AR326
MAGNETIC WATER SHUTOFF VALVE – NEMA 1 (Optional)		ECH75554
MAGNETIC WATER SHUTOFF VALVE – NEMA 4 (Optional)		ECH75596



For additional information contact your local representative or
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Telephone: (800) 682-9868 FAX: (217) 224-7814



Sales and Service in all major cities.

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