
GARDNER DENVER®

13-9-560
1st Edition
January, 1998

ELECTRA-SAVER®

ELECTRA-SAVER II®

BASE-MOUNTED COMPRESSORS

AUTO SENTRY®-ES+ CONTROLS

AUTO SENTRY®-ES CONTROLS

MODELS

EBMQKF	–	AIR-COOLED	–	60 HP
EBMSKF	–	WATER-COOLED	–	60 HP
EBMQLF	–	AIR-COOLED	–	75 HP
EBMSLF	–	WATER-COOLED	–	75 HP
EAPQME	–	AIR-COOLED	–	100 HP
EAPSME	–	WATER-COOLED	–	100 HP
EBPQMD	–	AIR-COOLED	–	100 HP
EBPSMD	–	WATER-COOLED	–	100 HP

60 HZ DOMESTIC ONLY

PARTS LIST

Gardner
Denver

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 13-9/10-641

CONTROLLER MANUAL 13-9/10-647

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

Gardner Denver® Compressor genuine parts, engineered to original tolerances, are designed for optimum dependability — specifically for Gardner Denver compressor 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) 224-7814

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

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ELECTRA-SAVER II® COMPRESSORS – MODELS EBM_KF & EBM_LF
60 & 75 HP Air / Water-Cooled Base-Mounted Units – 60 Hz Only – 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	B	M	F									
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 & 3 – ELECTRA-SAVER II® FAMILY – Single Stage

COLUMN 4 – TYPE OF CONSTRUCTION

- Q. Air-Cooled Base Mounted (Std.)
- S. Water-Cooled Base Mounted (Std.)

COLUMN 5 – HORSEPOWER

- L. 60 HP
- M. 75 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 BOX & MAIN MOTOR STARTING

- | | |
|---------------------------------|------------------------------|
| A. 200 V – 60 HZ – Full Voltage | E. 200 V – 60 HZ – Wye Delta |
| B. 230 V – 60 HZ – Full Voltage | F. 230 V – 60 HZ – Wye Delta |
| C. 460 V – 60 HZ – Full Voltage | G. 460 V – 60 HZ – Wye Delta |
| D. 575 V – 60 HZ – Full Voltage | H. 575 V – 60 HZ – Wye Delta |

COLUMN 9 – CONTROL BOX / STARTER

- A. ES Control – Nema 12 – With Starter
- B. ES Control – Nema 4 – With Starter
- C. ES Control – Nema 12 – Without Starter
- D. ES Control – Nema 4 – Without Starter
- E. ES+ Control – Nema 12 – With Starter – Without Current Monitor
- F. ES+ Control – Nema 4 – With Starter – Without Current Monitor
- G. ES+ Control – Nema 12 – Without Starter – Without Current Monitor
- H. ES+ Control – Nema 4 – Without Starter – Without Current Monitor
- I. ES+ Control – Nema 12 – With Starter – With Current Monitor
- J. ES+ Control – Nema 4 – With Starter – With Current Monitor
- K. ES+ Control – Nema 12 – Without Starter – With Current Monitor
- L. ES+ Control – Nema 4 – Without Starter – With Current Monitor

COLUMN 10 – ENCLOSURE

- A. No Enclosure
- B. With Enclosure

COLUMN 11 – OIL COOLERS – AIR & WATER

- A. Standard Coolers with Aftercooler (Air or Water Cooled)
- B. Seacoast (Salt Water) Cooler With Aftercooler (Air or Water Cooled)
- C. Standard Coolers Less Aftercooler (Water Cooled Only)
- D. Salt Water Cooler Less Aftercooler (Water Cooled Only)

COLUMN 12 – COOLER ELECTRICS

- A. Air Cooled
- B. Water Cooled – Without Water Temperature Regulator – Without Shutoff Valve
- C. Water Cooled – With Water Temperature Regulator – With Shutoff Valve
- D. Water Cooled – With Water Temperature Regulator – Without Shutoff Valve
- E. Water Cooled – Without Water Temperature Regulator – With Shutoff Valve

COLUMN 13 – COMPRESSOR DRIVE MOTOR

- A. ODP
- B. TEFC
- C. ODP High Efficiency
- D. TEFC High Efficiency
- E. Less Main Motor – SSH Air End
- F. Less Main Motor – SSM Air End

ELECTRA-SAVER II® COMPRESSORS – MODELS EBP_MD
100 HP Air / Water-Cooled Base-Mounted Units – 60 Hz Only – 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.

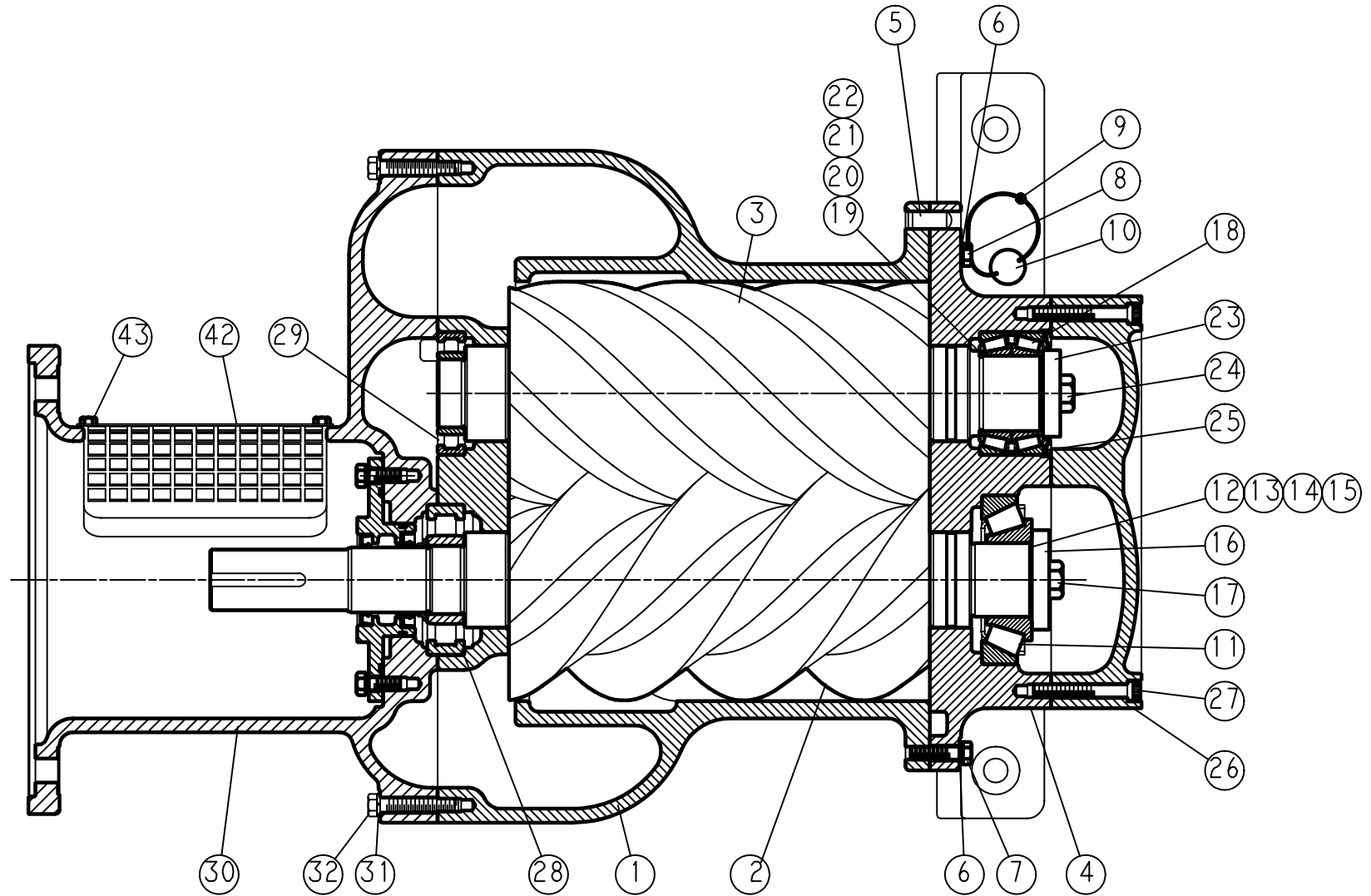
	E	B	P		D								
COLUMN NUMBER:	1	2	3	4	5	6	7	8	9	10	11	12	13
Follow the line down and over from each space thus filled in to find the appropriate construction option with which your machine is equipped. The number "9" in any column space indicates "NOT APPLICABLE." The number "8" in any column space indicates SPECIAL DESIGN—REFER TO FACTORY ORDER TICKET.													
COLUMNS 1, 2 & 3 – ELECTRA-SAVER II® FAMILY – Single Stage													
COLUMN 4 – TYPE OF 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 BOX & MAIN MOTOR STARTING													
A. 200 V – 60 HZ – Full Voltage(Less Starter)													
B. 230 V – 60 HZ – Full Voltage(Less Starter)													
C. 460 V – 60 HZ – Full Voltage													
D. 575 V – 60 HZ – Full Voltage													
E. 200 V – 60 HZ – Wye Delta													
F. 230 V – 60 HZ – Wye Delta													
G. 460 V – 60 HZ – Wye Delta													
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B. TEFC													
C. ODP High Efficiency													
D. TEFC High Efficiency													
E. Less Main Motor – 404 TSC Frame – ODP													
F. Less Main Motor – 405 TSC Frame – TEFC													

ELECTRA-SAVER® COMPRESSORS – MODELS EAP_ME
100 HP Air /Water-Cooled Base-Mounted Units – 60 Hz Only – 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.

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	1	2	3	4	5	6	7	8	9	10	11	12	13	
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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 – VOLTAGE														
A. 200 V – 60 HZ – Wye Delta														
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D. Water Cooled – With Water Temperature Regulator – Without Shutoff Valve														
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COLUMN 13 – COMPRESSOR DRIVE MOTOR														
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B. TEFC														
C. ODP High Efficiency														
D. TEFC High Efficiency														
E. Less Main Motor – 404 TSC Frame – ODP														
F. Less Main Motor – 405 TSC Frame – TEFC														

BARE COMPRESSOR – 60 HP – 125 & 150 PSI – SSH, EBM PACKAGE



207SSH810-C
(Ref. Drawing)

BARE COMPRESSOR – 60 HP – 125 & 150 PSI – SSH, EBM PACKAGE

Ref. No.	Name of Part	Qty.	Part No.	Ref. No.	Name of Part	Qty.	Part No.
1	CYLINDER	1	**	* 18	BEARING–ROLLER	1	12BA90
2	ROTOR	1	**	* 19	SHIM	2	77H53015
3	ROTOR	1	**	* 20	SHIM	3	77H53005
4	HOUSING–BEARING	1	**	* 21	SHIM	3	77H53003
5	PIN–DOWEL	2	**	* 22	SHIM	3	77H53002
6	LOCKWASHER	14	**	23	PLATE BEARING RETAINER ..	1	**
7	SCREW	10	**	24	SCREW	1	**
8	SCREW	2	**	* 25	SPRING	1	78W48
9	SEAL	1	**	26	PLATE–BEARING COVER	1	**
10	TAG–INSTRUCTION	1	**	27	SCREW	18	**
* 11	BEARING–ROLLER	1	12BA91	* 28	BEARING–ROLLER	1	12BA130
* 12	SHIM	2	77H54015	* 29	BEARING–ROLLER	1	12BA136
* 13	SHIM	3	77H54005	30	ADAPTOR	1	**
* 14	SHIM	3	77H54003	31	LOCKWASHER	16	**
* 15	SHIM	3	77H54002	32	SCREW	16	**
16	PLATE–BEARING RETAINER ..	1	**	42	GUARD COUPLING	1	**
17	SCREW	1	**	43	SCREW–FLANGED	4	**

* Parts included in Periodic Overhaul Kit. Refer to page 54.

** Shown for reference only.

AIR END SELECTION BY PSI – 60 HP

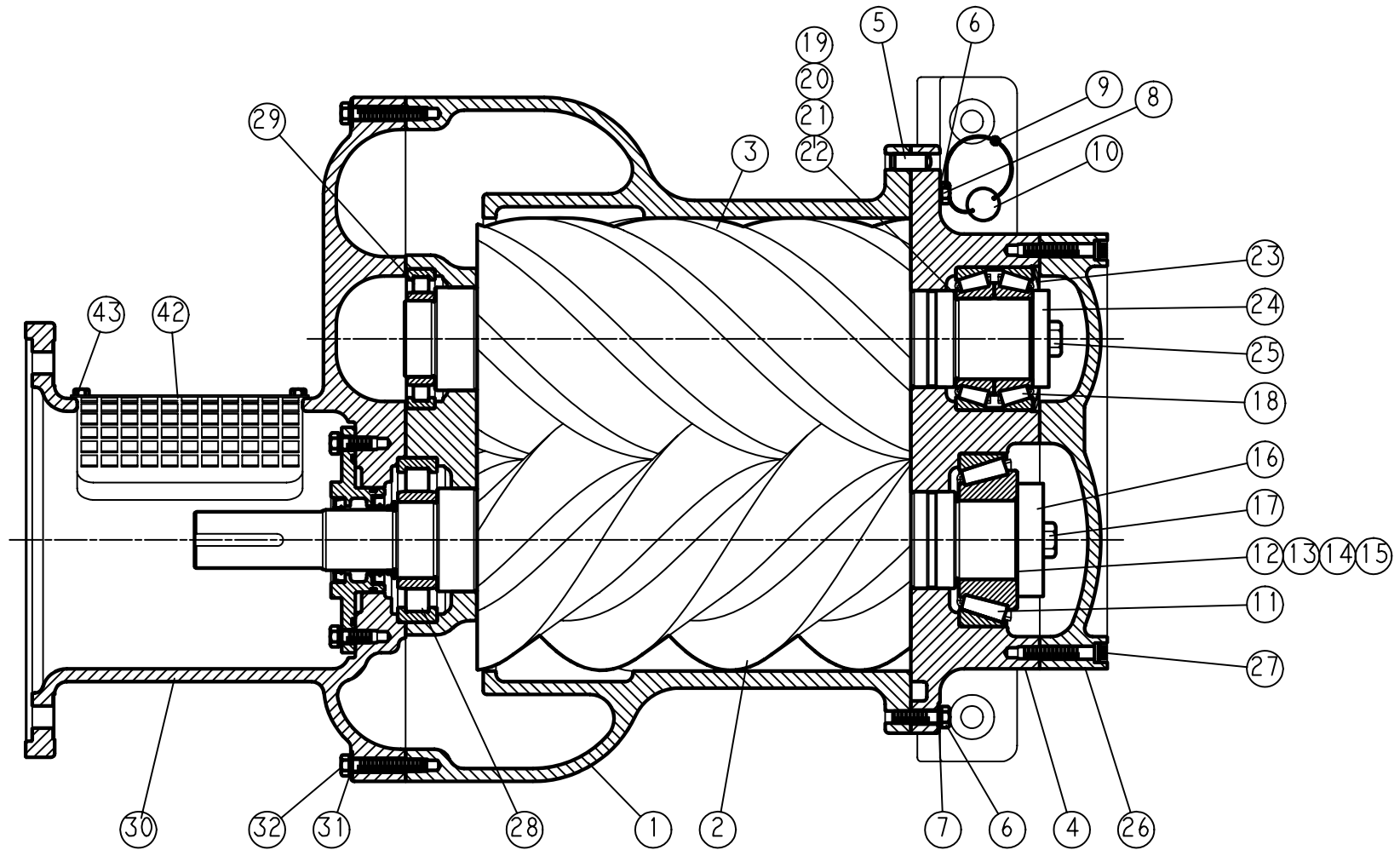
125 PSI

SSHCBD01

150 PSI

SSHCBD02

BARE COMPRESSOR – 60 HP – 100 PSI, AND 75 HP – 100, 125 & 150 PSI – SSM, EBM PACKAGE



209SSM810-B
(Ref. Drawing)

BARE COMPRESSOR – 60 HP – 100 PSI, AND 75 HP – 100, 125 & 150 PSI – SSM, EBM PACKAGE

Ref. No.	Name of Part	Qty.	Part No.	Ref. No.	Name of Part	Qty.	Part No.
1	CYLINDER	1	**	* 18	BEARING-ROLLER	1	12BA94
2	ROTOR	1	**	* 19	SHIM	2	77H57015
3	ROTOR	1	**	* 20	SHIM	3	77H57005
4	HOUSING-BEARING	1	**	* 21	SHIM	3	77H57003
5	PIN-DOWEL	2	**	* 22	SHIM	3	77H57002
6	SCREW	14	**	* 23	SPRING, WAVE (SSM)	1	78W53
7	LOCKWASHER	16	**	24	PLATE BEARING RETAINER ..	1	**
8	SCREW	2	**	25	SCREW	1	**
9	SEAL	1	**	26	PLATE-BEARING COVER	1	**
10	TAG-INSTRUCTION	1	**	27	SCREW	18	**
* 11	BEARING-ROLLER	1	12BA92	* 28	BEARING-ROLLER	1	12W34
* 12	SHIM	2	77H56015	* 29	BEARING-ROLLER	1	12BA93
* 13	SHIM	3	77H56005	30	ADAPTOR	1	**
* 14	SHIM	3	77H56003	31	LOCKWASHER	16	**
* 15	SHIM	3	77H56002	32	SCREW	16	**
16	PLATE-BEARING RETAINER ..	1	**	42	GUARD COUPLING	1	**
17	SCREW	1	**	43	SCREW-FLANGED	4	**

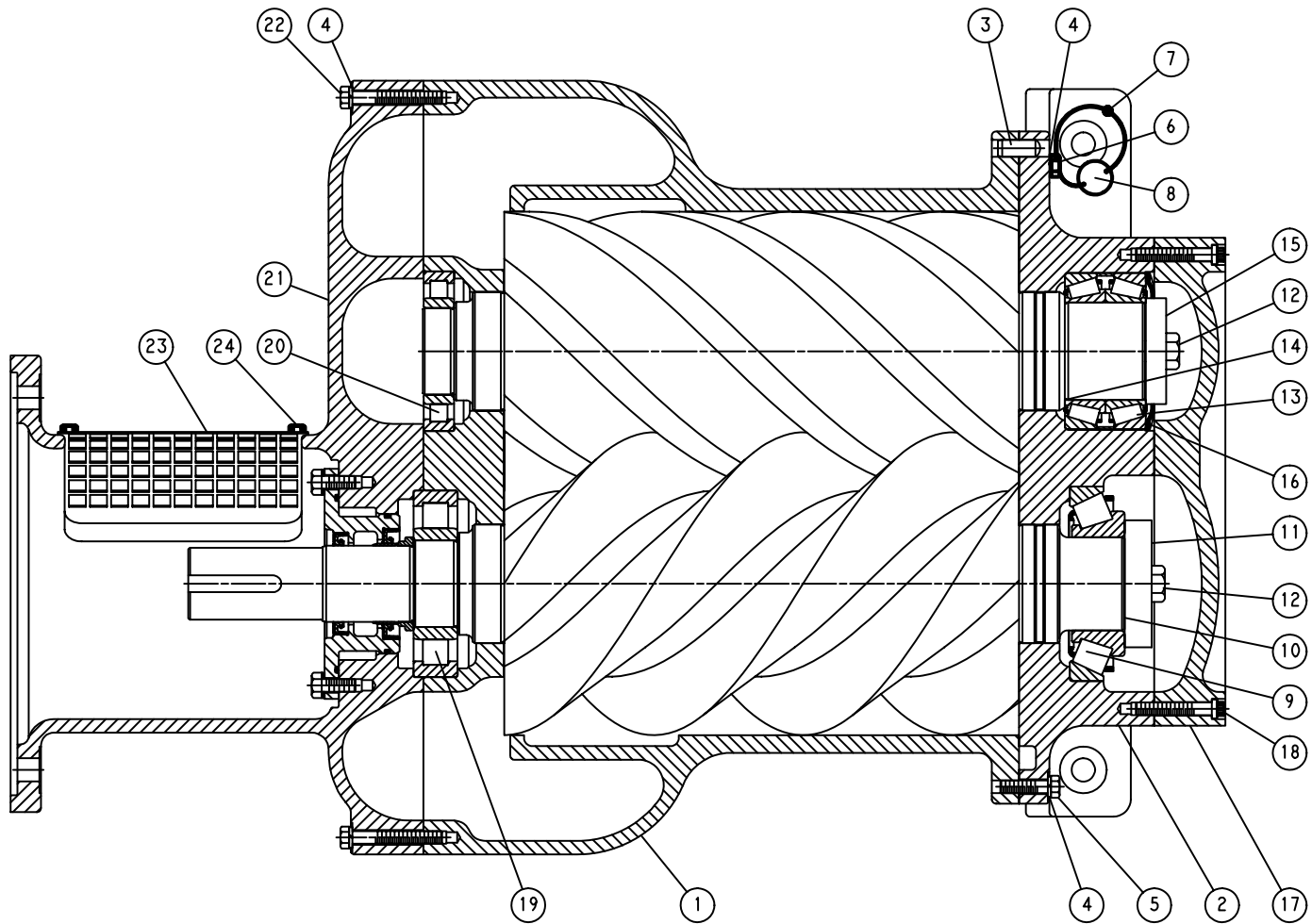
* Parts included in Periodic Overhaul Kit. Refer to page 54.

** Shown for reference only.

AIR END SELECTION BY PSI

60 HP 100 PSI	75 HP 100 PSI	75 HP 125 PSI	75 HP 150 PSI
SSMNBB03	SSMNBB01	SSMNBB02	SSMNBB03

BARE COMPRESSOR – 100 HP – 100, 125 & 150 PSI – EAP AND EBP PACKAGE



216SSP810-A
(Ref. Drawing)

BARE COMPRESSOR – 100 HP – 100, 125 & 150 PSI – EAP AND EBP PACKAGE

Ref. No.	Name of Part	Qty.	Part No.	Ref. No.	Name of Part	Qty.	Part No.
1	CYLINDER	1	**	* 13	BEARING-ROLLER	1	12BA106
2	HOUSING-BEARING	1	**	* 14	SHIM	1	77H62
3	PIN-DOWEL	2	**	15	PLATE BEARING RETAINER ..	1	**
4	LOCKWASHER	36	**	* 16	SPRING	1	78W52
5	SCREW	14	**	17	PLATE-BEARING COVER	1	**
6	SCREW	2	**	18	SCREW	18	**
7	SEAL	1	**	* 19	BEARING-ROLLER	1	12BA104
8	TAG-INSTRUCTION	1	**	* 20	BEARING-ROLLER	1	12BA103
* 9	BEARING-ROLLER	1	12BA105	21	ADAPTOR	1	**
* 10	SHIM	1	77H63	22	SCREW	20	**
11	PLATE-BEARING RETAINER ..	1	**	23	GUARD COUPLING	1	**
12	SCREW	2	**	24	SCREW-FLANGED	4	**

* Parts included in Periodic Overhaul Kit. Refer to page 54.

** Shown for reference only.

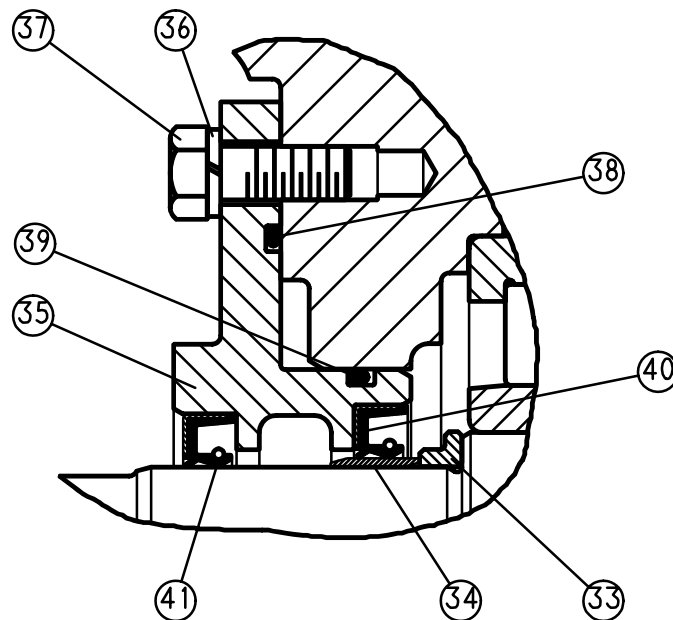
AIR END SELECTION – EAP

100 PSI	125 PSI	150 PSI
SSPABD01	SSPABD01	SSPABD01

AIR END SELECTION – EBP

100 PSI	125 PSI	150 PSI
SSPNBB01	SSPNBB02	SSPNBB03

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



207SSH810-C
209SSM810-B
(Ref. Drawing)

OIL SEAL DETAIL – EBM

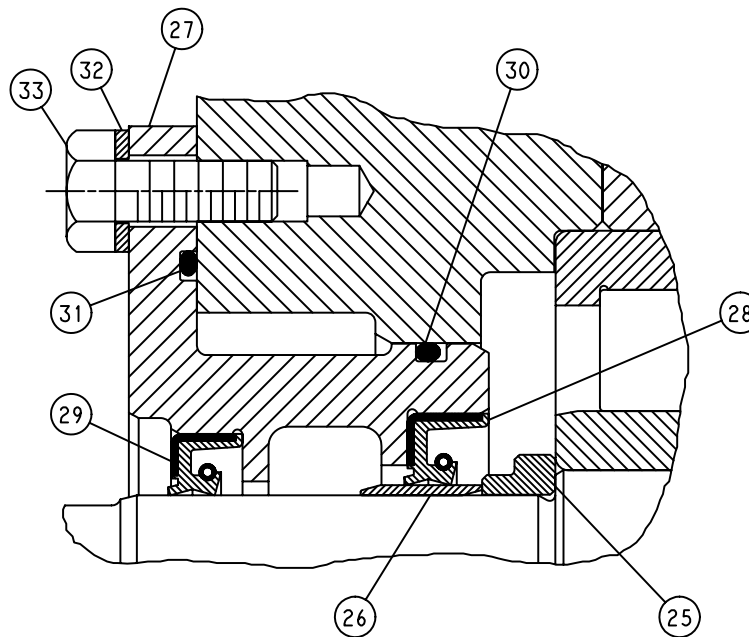
Ref. No.	Name of Part	Qty.	Part No.
33	SPACER-SHAFT	1	200SSH600
34 *	SLEEVE	1	80M12
35	HOUSING-SEAL	1	202SSH362
36	LOCKWASHER	8	95B5
37	SCREW	8	655EE050
38 *	O-RING	1	8502140
39 *	O-RING	1	25BC165
40 *	SEAL-OIL	1	60DD679
41 *	SEAL-OIL	1	60DD690
*	CHECK VALVE (Not shown)	1	90AR923

* Included in Oil Seal Kit, see page 54.

To replace Oil Seal, order kit # 302SSH6013 consisting of reference items 34, 38, 39, 40, 41 and Check Valve.

Wear Sleeve installation and removal kit part # 200SSH4017 (includes Wear Sleeve Puller and installation tool). See Wear Sleeve Installation / Removal Kit, page 54.

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



216SSP810-A
(Ref. Drawing)

OIL SEAL DETAIL – EAP & EBP

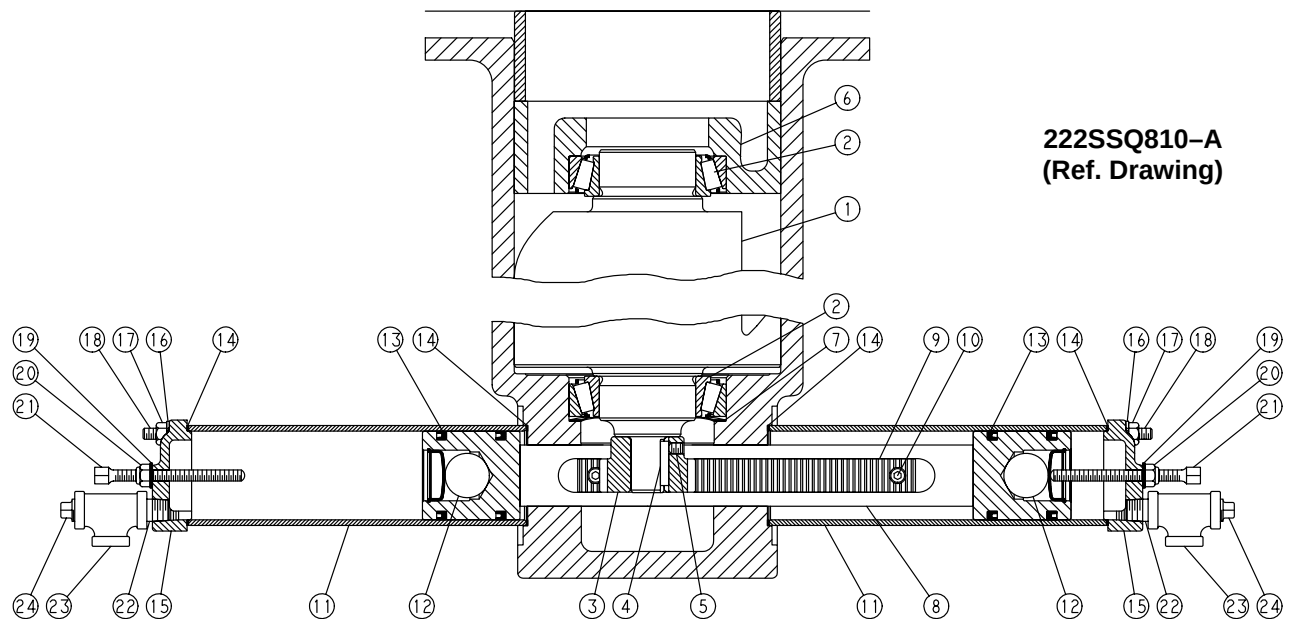
Ref. No.	Name of Part	Qty.	Part No.
25	SPACER-SHAFT	1	200SSP600
26 *	SLEEVE-WEAR	1	200SSP1458
27	HOUSING-SEAL	1	204SSP362
28 *	SEAL-OIL	1	60DD693
29 *	SEAL-OIL	1	60DD692
30 *	O-RING	1	25BC380
31 *	O-RING	1	8502140
32	LOCKWASHER	8	95B5
33	SCREW	8	655EE050
*	CHECK VALVE (Not shown)	1	90AR923

* Included in Oil Seal Kit, see page 55.

To replace oil seal, order kit # 300SSP6013 consisting of reference items 26, 28, 29, 30, 31 and Check Valve.

Wear Sleeve installation and removal kit part # 200SSP4017 (includes Wear Sleeve Puller and installation tool). See Wear Sleeve Installation / Removal Kit, page 55.

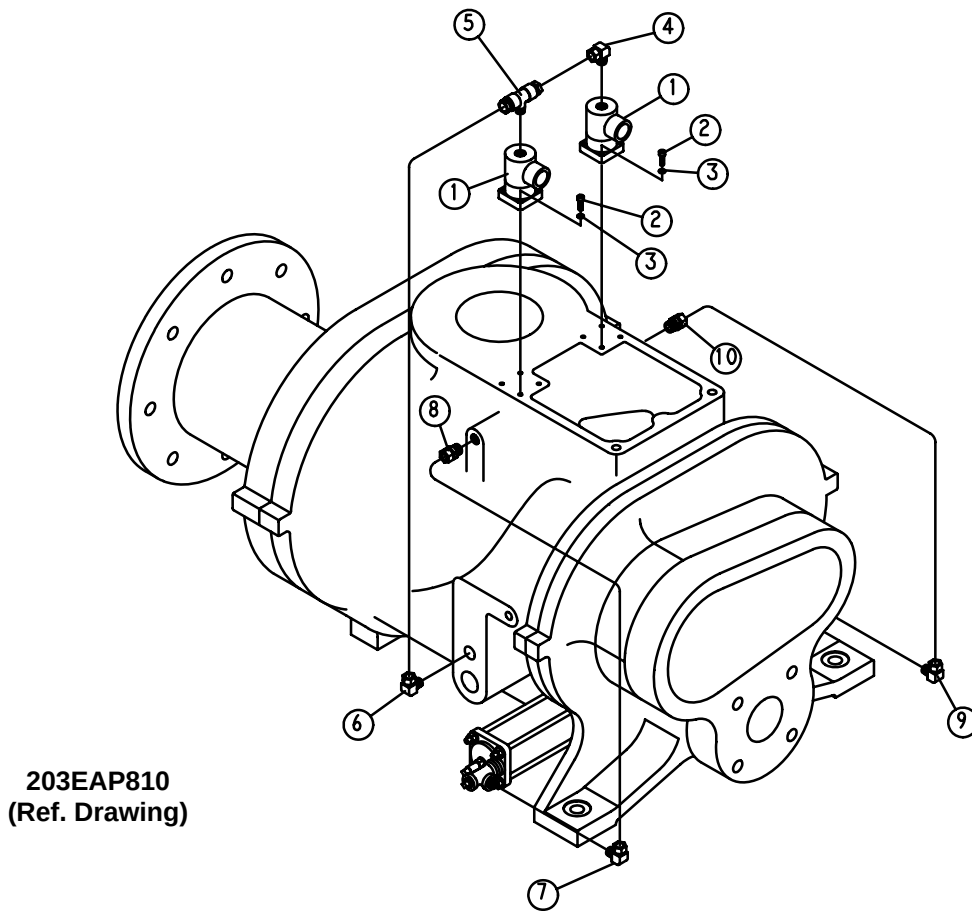
Order by Part Number and Description. Reference Numbers are for your convenience only.



**TURN VALVE & PARTS
(EAP UNITS ONLY)**

Ref. No.	Name of Part	Qty.	Part No.
1	VALVE	1	202SSQ238
2	BEARING-ROLLER	2	12BA51
3	GEAR-AUXILIARY	1	200SSU031
4	KEY-SQUARE	1	35C114
5	SETSCREW	1	76G21N
6	HOUSING-BEARING	1	215SSQ006
7	SPRING	1	78W50
8	SHAFT-CONTROL	1	200SSU081
9	RACK	1	200SSU360
10	SCREW	2	75P11N
11	CYLINDER-CONTROL	2	200SSU082
12	ASM CONTROL PISTON	2	SSU80565
13	PACKING-RING	4	60AM46
14	GASKET	4	25BC138N
15	HEAD-CONTROL CYLINDER	2	200RPA083
16	LOCKWASHER	8	95B1
17	NUT	8	50B1
18	STUD	8	79AL5
19	SEAL-FASTENER	2	60DD65
20	NUT	2	50AW24
21	SET SCREW	2	76D226
22	NIPPLE	2	63D1G
23	TEE-PIPE	2	64G3G
24	PLUG	2	64AA5

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

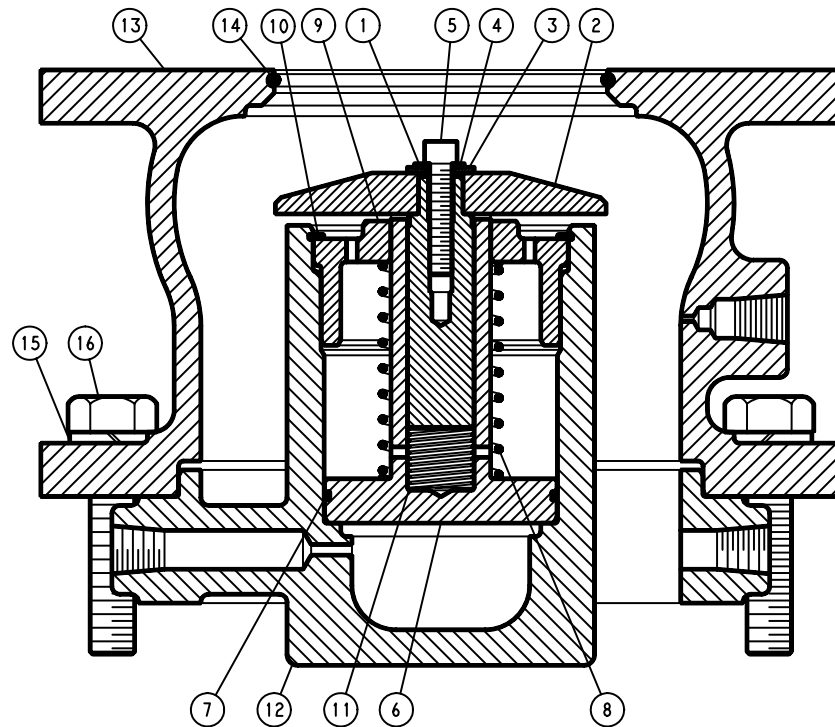


**TURN VALVE SOLENOID VALVE
(EAP UNITS ONLY)**

Ref. No.	Name of Part	Qty.	Part No.
1	VALVE, SOLENOID	2	91B82
2	SCREW	8	75V3
3	LOCKWASHER	8	95B13
4	ELBOW-TUBE	1	86E60
5	TEE-TUBE	1	86E119
6	ELBOW-TUBE	1	86E60
7	ELBOW-TUBE	1	86E60
8	CONNECTOR-TUBE	1	86E4
9	ELBOW-TUBE	1	86E60
10	CONNECTOR-TUBE	1	86E4
*	TUBE	10 Ft.	85K3
*	O-RING, SOLENOID VALVE TO CYLINDER (Small)	1	25W7
*	O-RING, SOLENOID VALVE TO CYLINDER (Large)	1	126156

* Not shown on drawing.

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



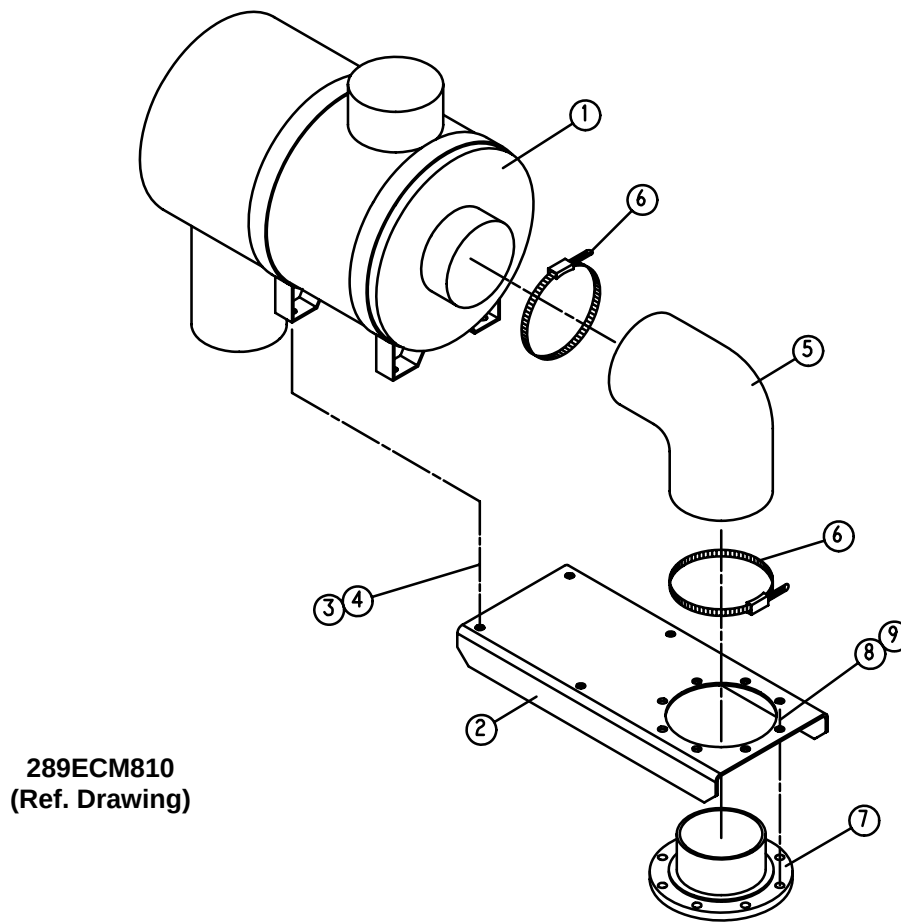
208SSM810-C
(Ref. Drawing)

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	655ED100

* Parts included in Periodic Maintenance Kit, Part # 302SSM6013. Refer to page 53.

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



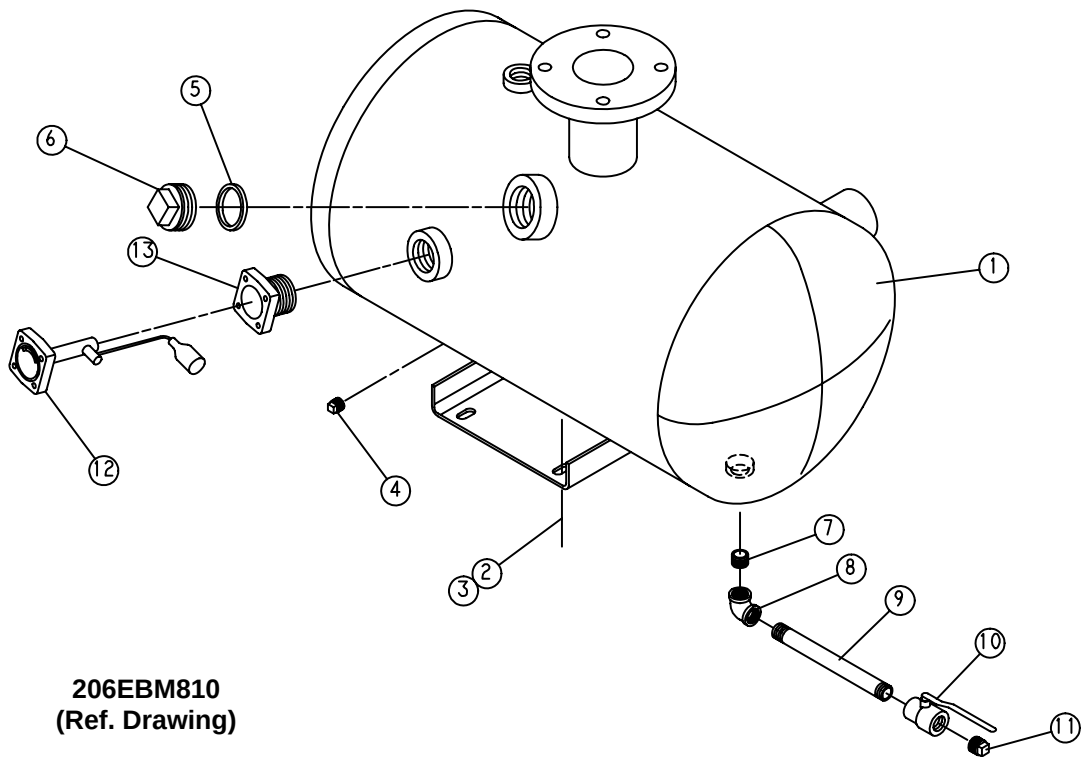
AIR FILTER

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	1	25BC256
**	ELEMENT, AIR FILTER	1	2116713

* Not shown.

** Repair element for air filter.

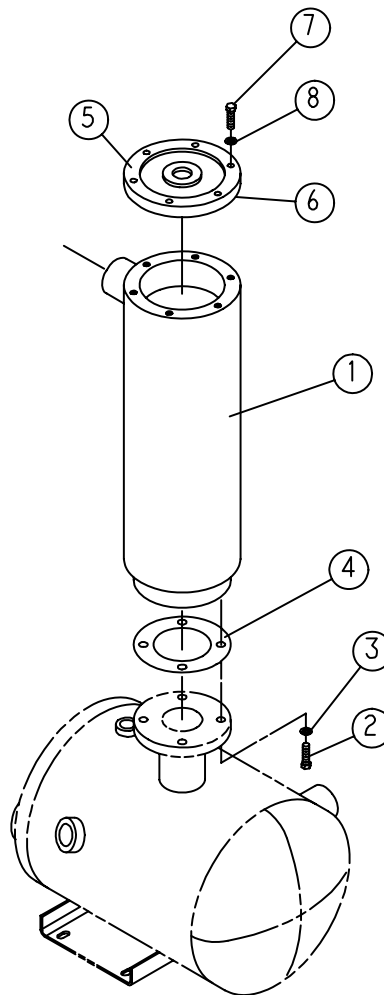
Order by Part Number and Description. Reference Numbers are for your convenience only.



OIL RESERVOIR GROUP

Ref. No.	Name of Part	Qty.	Part No.
1	RESERVOIR-OIL	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	300EBM303
13	ADAPTOR-GAUGE	1	200EDE058

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

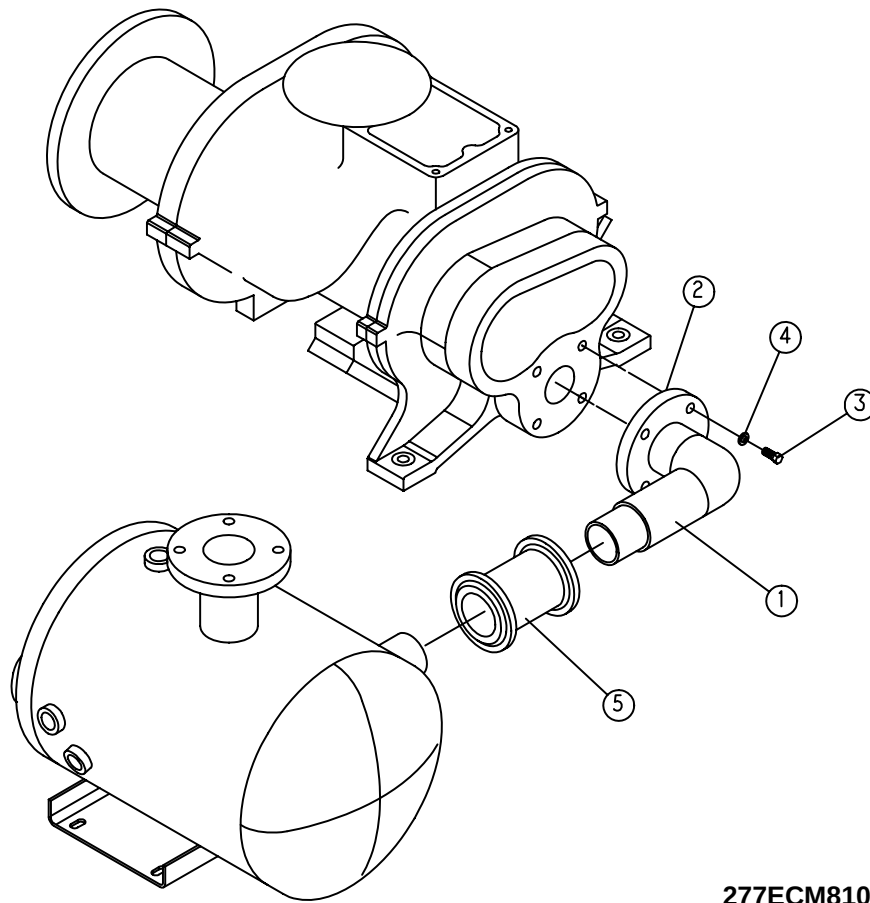


274ECM810-B
(Ref. Drawing)

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 ELIMINATOR	1	25BC222
7	SCREW	6	655EE070
8	LOCKWASHER	6	95B5

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



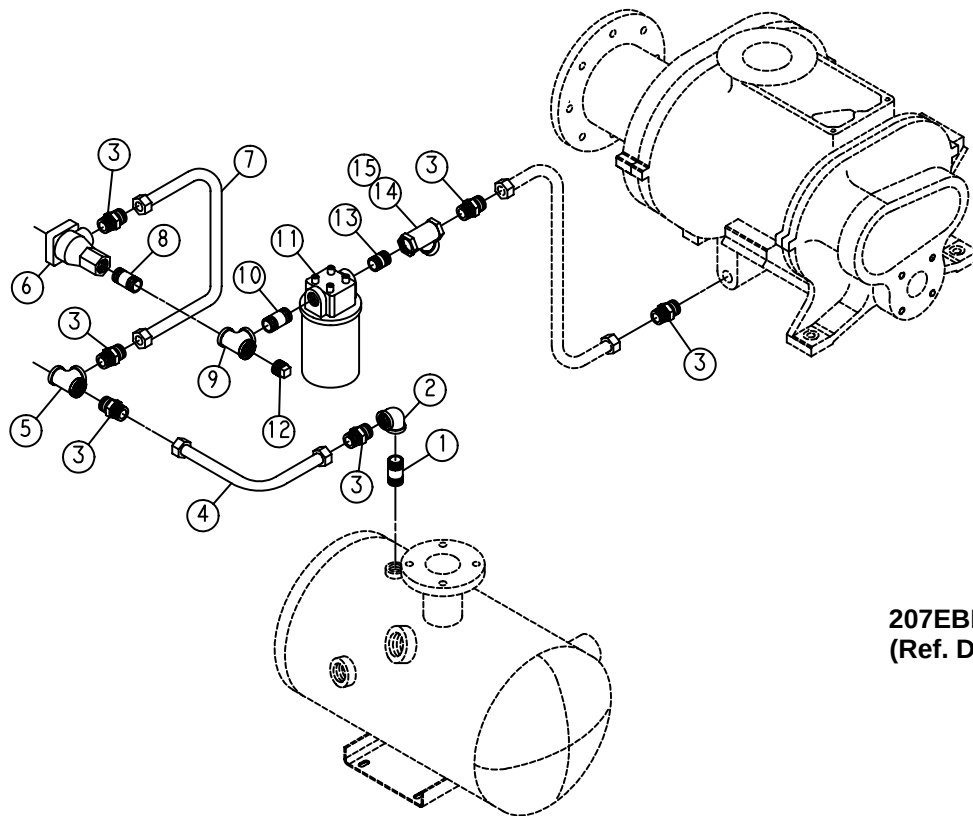
277ECM810-A
(Ref. Drawing)

DISCHARGE PIPING

Ref. No.	Name of Part	Qty.	Part No.
1	MANIFOLD	1	201ECM286
2	GASKET ELIMINATOR	1	25BC222
3	SCREW	4	655EF070
4	LOCKWASHER	4	95B7
5	COUPLING-FLEXIBLE	1	64EB802
*	GASKET, FLEXIBLE COUPLING (For Repair)	2	2117160

* Not shown.

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



207EBM810-A
(Ref. Drawing)

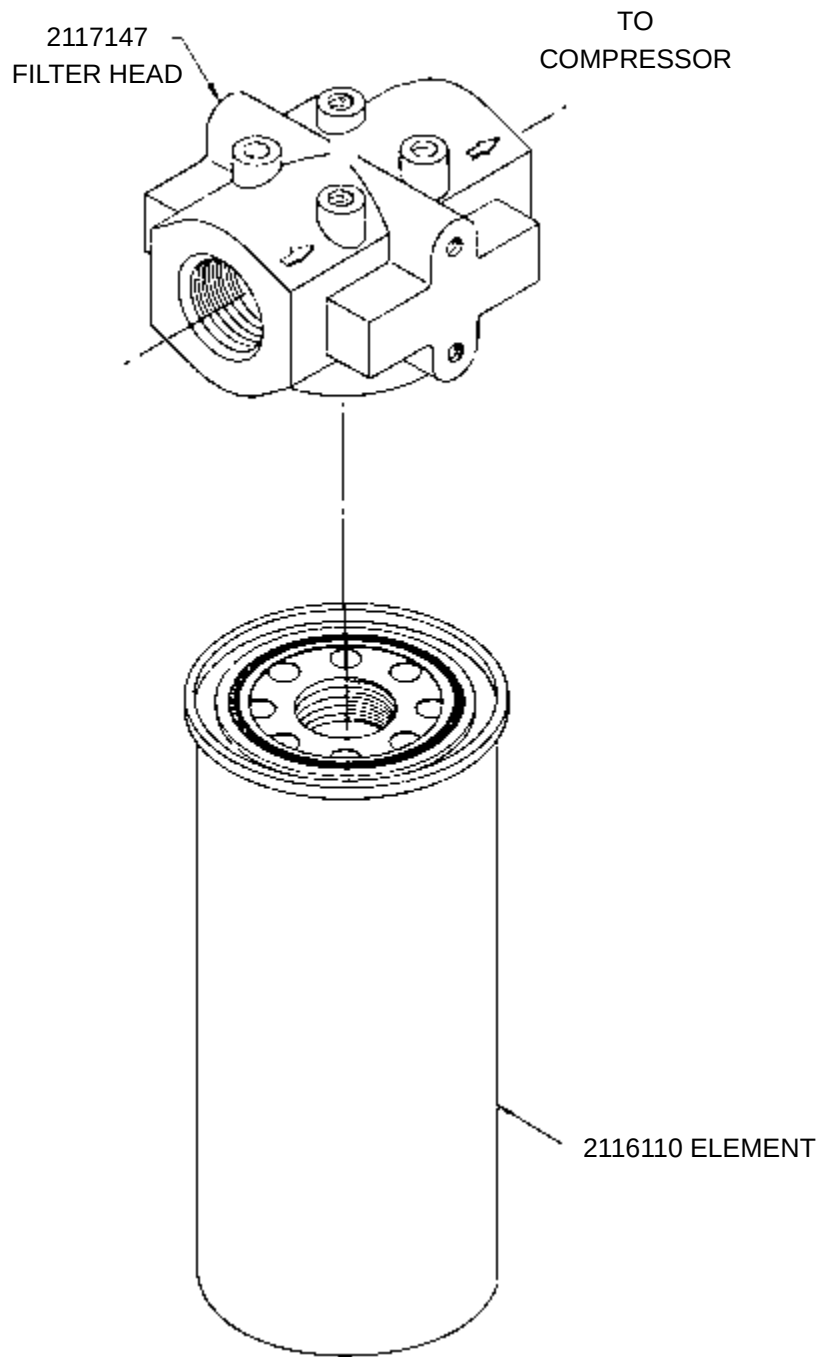
OIL PIPING GROUP

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	TEE-PIPE	1	64G8G
6	VALVE-THERMAL (See page 27)	1	90AR167
7	TUBE-WITH FITTINGS	1	201EBM863
8	NIPPLE	1	63H1G
9	TEE-PIPE	1	64G8G
10	NIPPLE	1	63H1G
11	* FILTER-OIL	1	200EBM369
12	PLUG	1	64AA1
13	NIPPLE	1	63H1G
14	STRAINER	1	82E39
15	PLUG	1	64AA3

* FOR REPAIR:

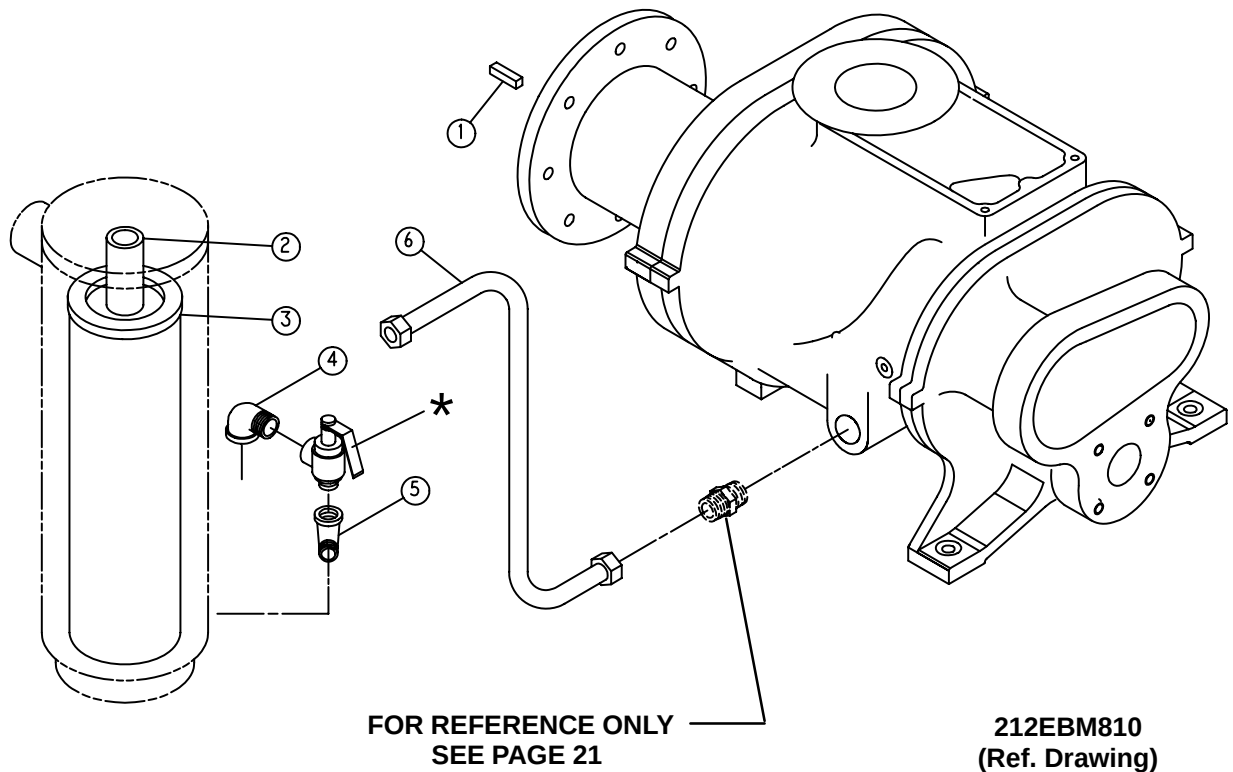
FILTER ELEMENT – Order Part Number 2116110

OIL FILTER - 200EBM369



WITH 212ECM077 DECAL AFFIXED TO ELEMENT

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

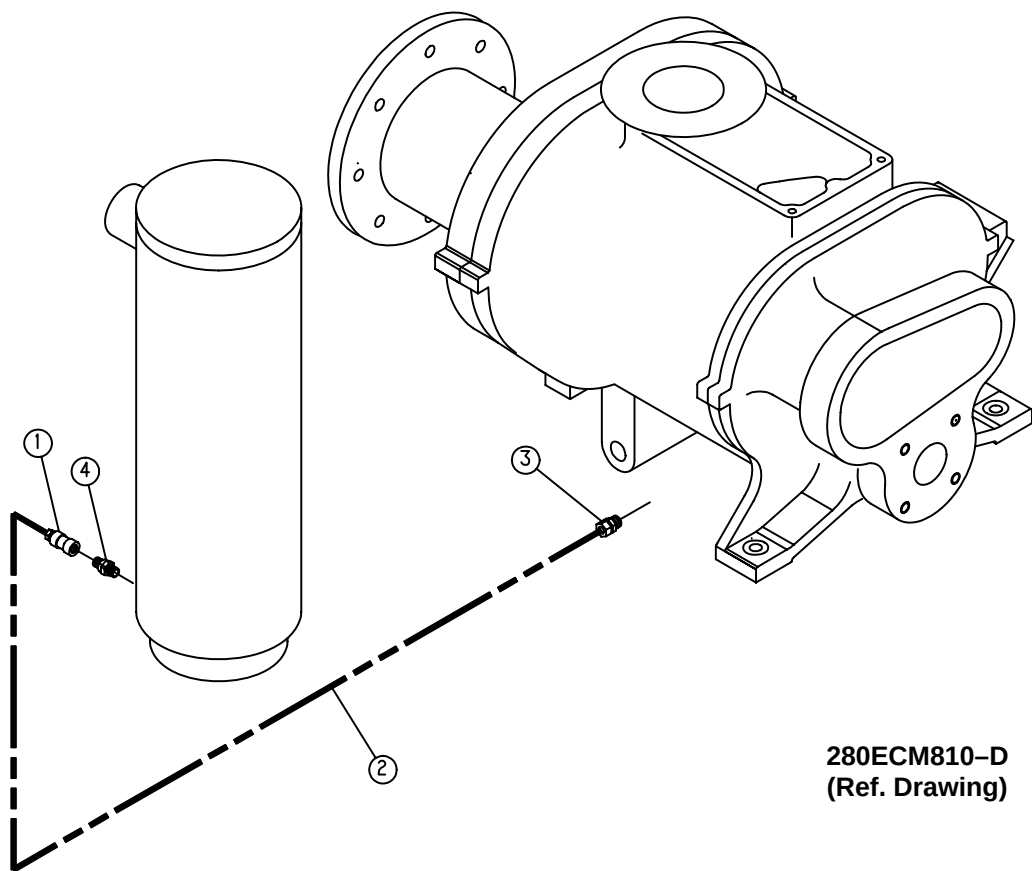


OIL PIPING LINE

Ref. No.	Name of Part	Qty.	Part No.
1	KEY-SQUARE (SSH and SSM Air Ends)	1	8500109
	KEY-SQUARE (SSP Air Ends)	1	35L37
2	SPACER (PIPE)	1	200ECM392
3 **	SEPARATOR (For Reference Only. See Kit Part Number below) ...	1	
4	ELBOW	1	64D10G
5	ELBOW	1	64D6G
6	TUBE WITH FITTINGS – EBM	1	200EBM863
6	TUBE WITH FITTINGS – EAP	1	200EAP863
6	TUBE WITH FITTINGS – EBP	1	200EBP863
	BUSHING-PIPE, EBP Units Only (Not Shown)	1	64E13
*	RELIEF VALVES		
	100 PSI UNITS		90AR381
	125 PSI UNITS		90AR382
	150 PSI UNITS		90AR146

** Refer to page 53, Separator Kit 208EAP6013, for parts listing.

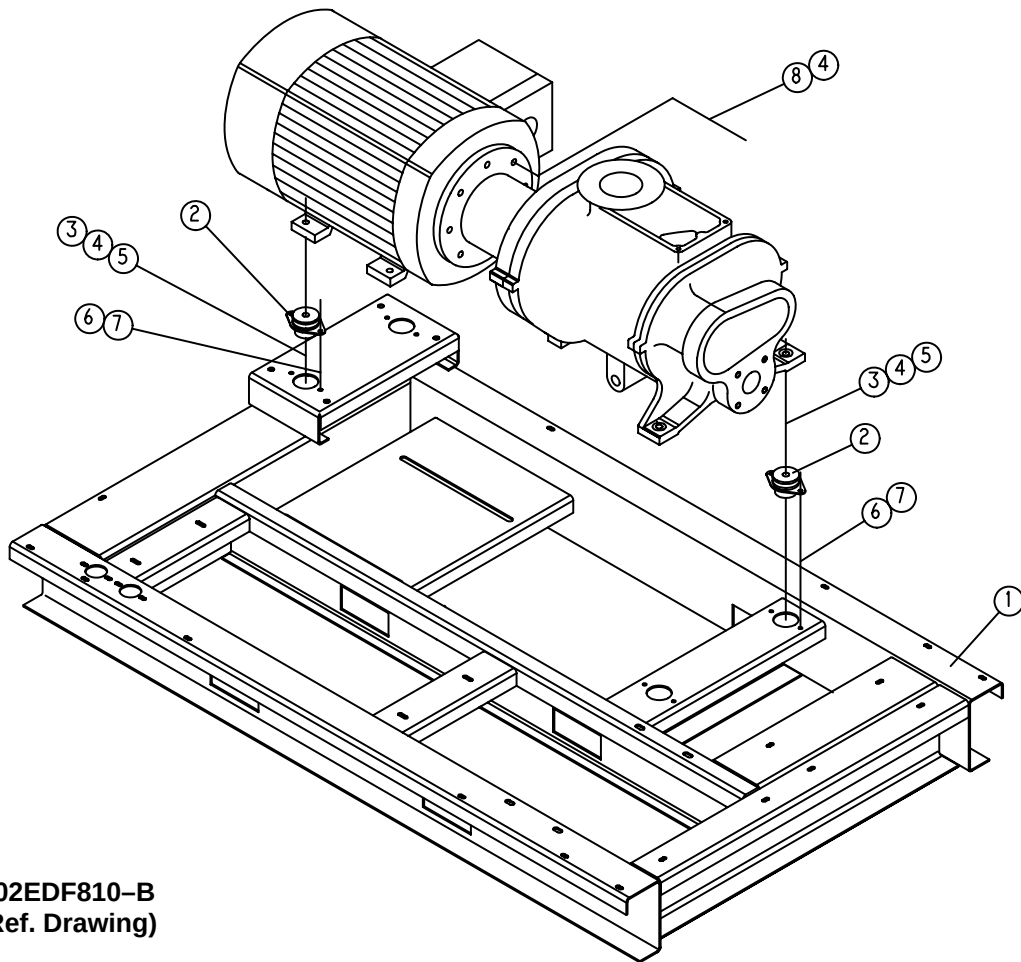
Order by Part Number and Description. Reference Numbers are for your convenience only.



OIL SCAVENGE LINE

Ref. No.	Name of Part	Qty.	Part No.
1	ELBOW-TUBE	1	86E28
2	TUBE	5 Ft.	85K3
3	CONNECTOR-TUBE	1	86E4
4	VALVE-CHECK	1	90AR261

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

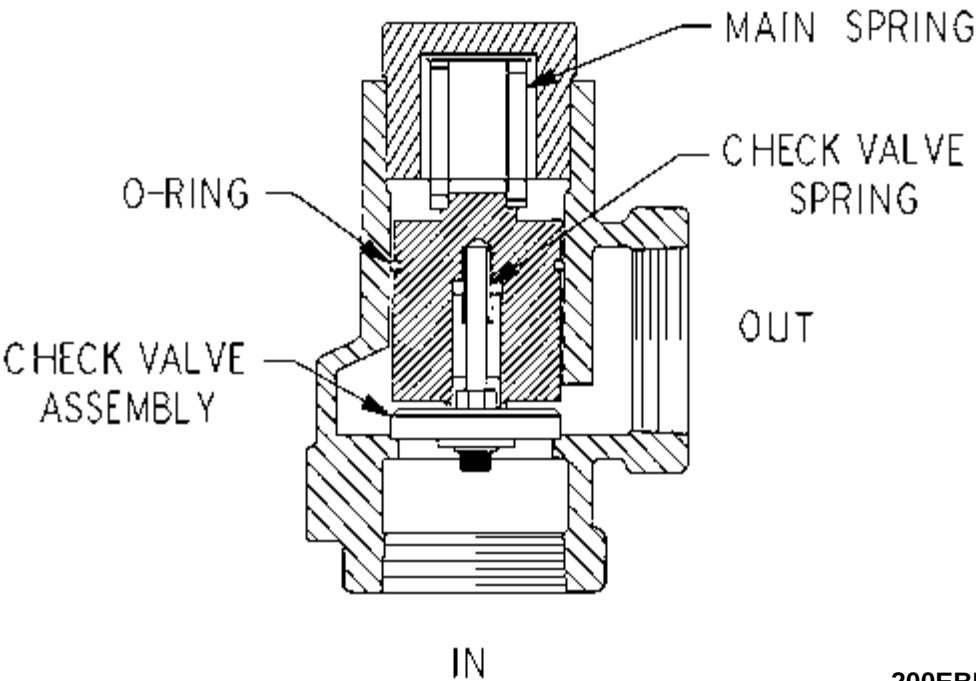


202EDF810-B
(Ref. Drawing)

COMPRESSOR BASE GROUP

Ref. No.	Name of Part	Qty.	Part No.
1	BASE	1	201EDF285
2	VIBRATION-ISOLATOR	4	49C47
3	SCREW	4	655EF200
4	LOCKWASHER	12	95B7
5	NUT	4	50B7
6	SCREW-FLANGED	8	75LM51
7	NUT-FLANGED	8	50AW5
8	SCREW	8	655EF070

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

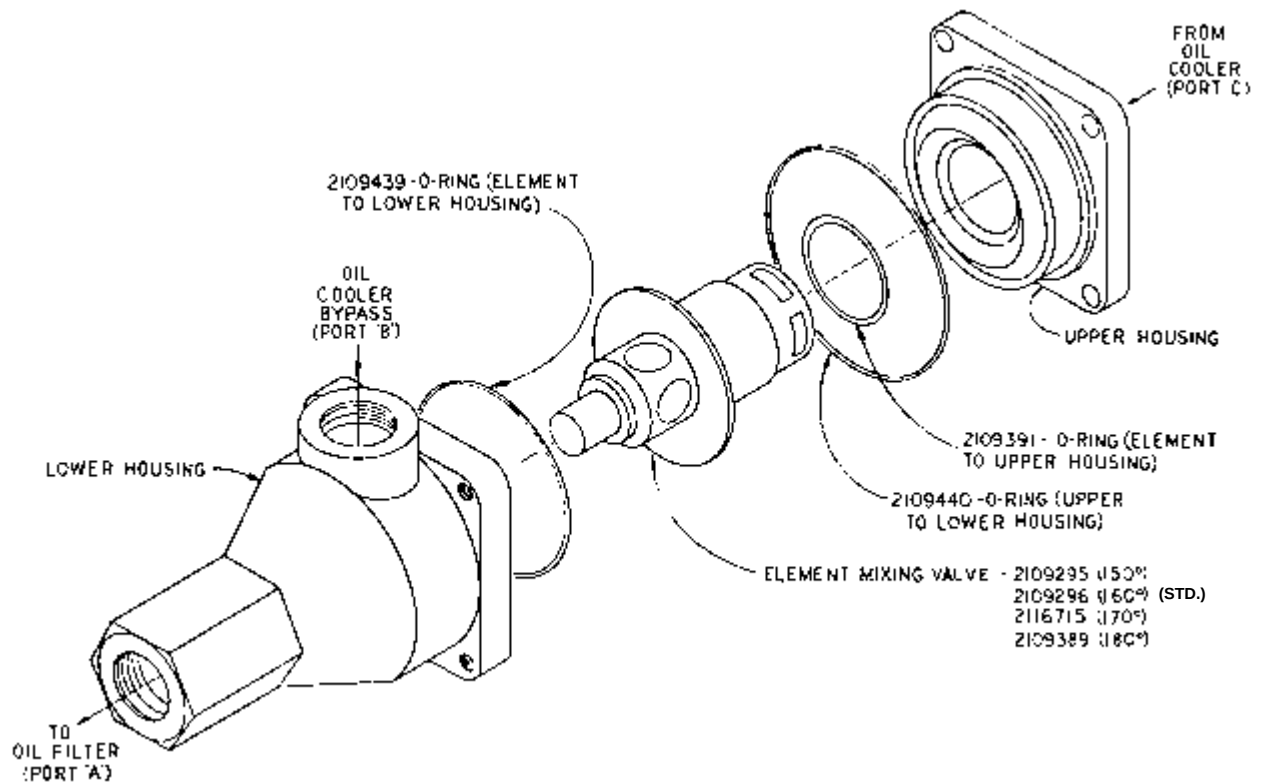


200EBM810
(Ref. Drawing)

MINIMUM PRESSURE VALVE

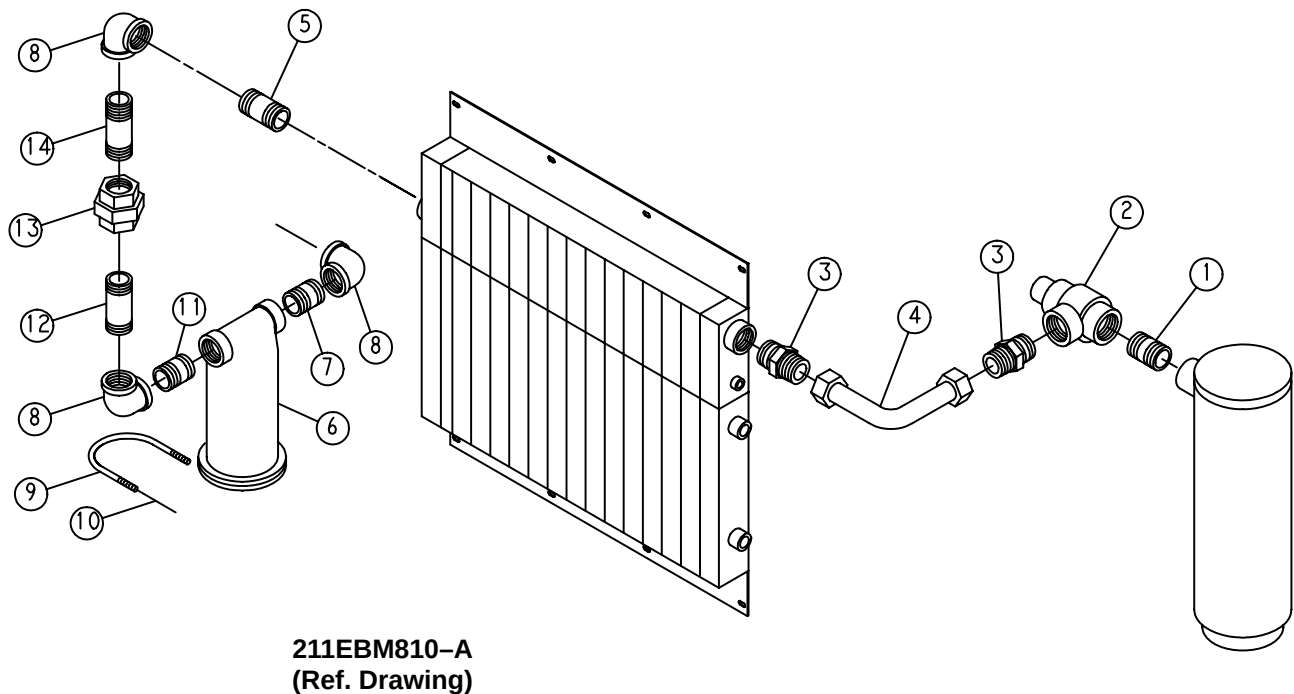
Ref. No.	Name of Part	Qty.	Part No.
	MINIMUM PRESSURE VALVE ASSEMBLY	1	200EBM527
	REPAIR KIT – Includes the following:	1	2116854
	O-RING	1	
	SPRING, CHECK VALVE	1	
	CHECK VALVE ASSEMBLY	1	
	SPRING, MAIN	1	

**THERMAL VALVE
(THERMOSTATIC MIXING)**



90AR167 THERMAL VALVE (ALUMINUM HOUSING)

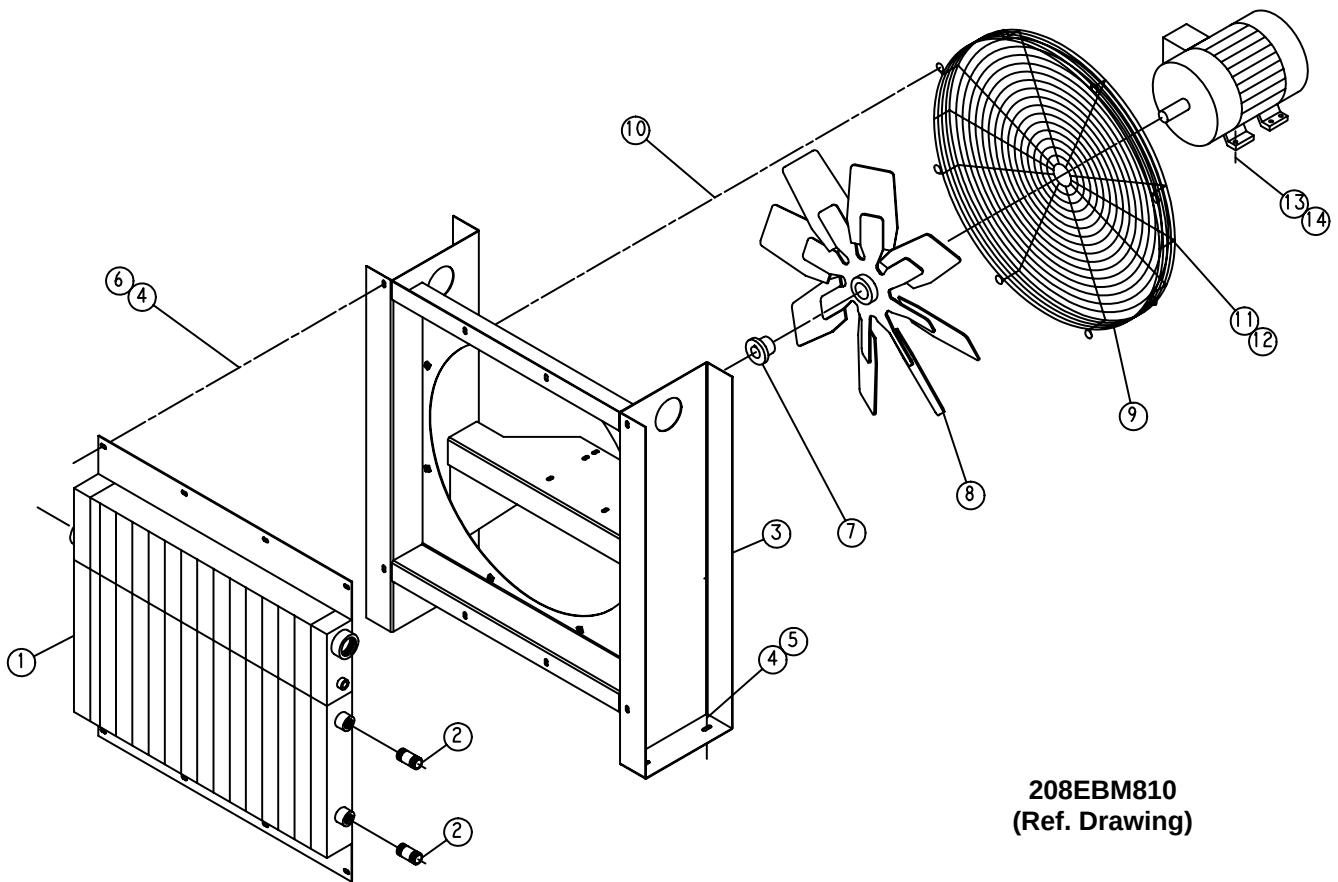
Order by Part Number and Description. Reference Numbers are for your convenience only.



AIR DISCHARGE PIPING

Ref. No.	Name of Part	Qty.	Part No.
1	NIPPLE	1	63L1G
2	VALVE-MINIMUM PRESSURE (See page 26)	1	200EBM527
3	CONNECTOR-TUBE	2	86H142
4	TUBE WITH FITTINGS	1	204EBM863
5	NIPPLE	1	63L15G
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
* Repair Gasket for Trap – 2117588			
Repair Valve & Seat Kit – 2117587			
Repair Float – 2117589			

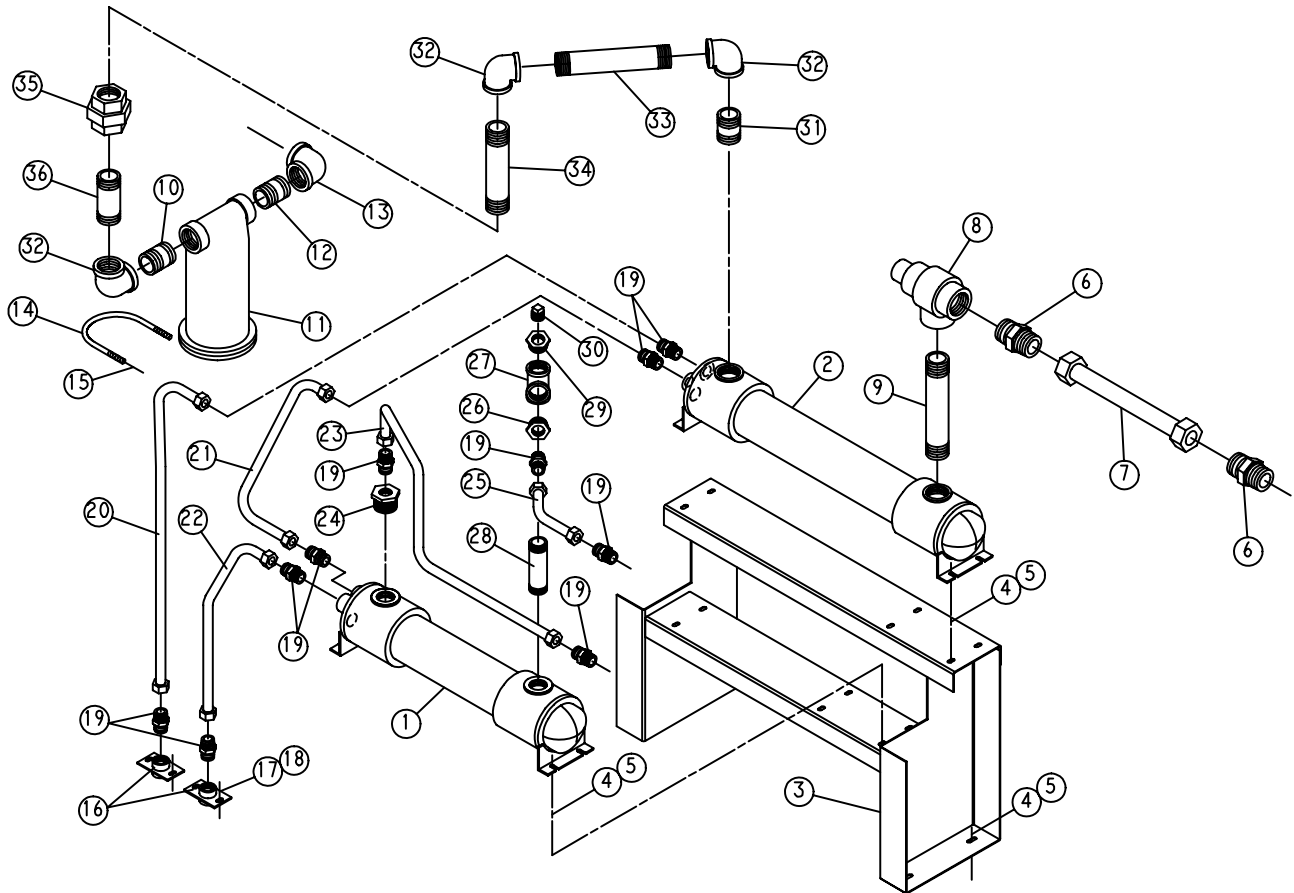
Order by Part Number and Description. Reference Numbers are for your convenience only.



AIR COOLED COOLER GROUP

Ref. No.	Name of Part	Qty.	60 – 75 HP Part No.	100 HP Part No.
1	COOLER-OIL/AIR	1	200EBM201	200EBP201
	COOLER-OIL/AIR SEACOAST (OPTIONAL)	1	201EBM201	201EBP201
2	NIPPLE-PIPE	2	63H4G	63H4G
3	SUPPORT	1	200EBM165	200EBM165
4	SCREW-FLANGED	12	75LM51	75LM51
5	NUT-FLANGED	12	50AW5	50AW5
6	WASHER	8	95A3	95A3
7	BUSHING-HUB	1	22G2	22G2
8	FAN	1	201ECM701	201ECM701
9	GUARD-FAN	1	200EBM393	200EBM393
10	SCREW-FLANGED	8	75LM51	75LM51
11	SCREW-FLANGED	4	75LM50	75LM50
12	NUT-FLANGED	4	50AW4	50AW4
13	SCREW-FLANGED	4	75K48	75LM78
14	NUT-FLANGED	4	50AW5	50AW5

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.	60 HP Part No.	75/100 HP Part No.
1	EXCHANGER-HEAT (OIL/WATER)	1	202ESJ349	204ESM349
	EXCHANGER-HEAT (OIL/WATER) – SEACOAST OPTION	1	203ESJ349	203ESM349
	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	200ESL292	201ESM292
	AFTERCOOLER – SEACOAST OPTION	1	201ESL292	202ESM292
	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	206EBM863	202EBP863
8	VALVE-MINIMUM PRESSURE	1	200EBM527	200EBM527
9	NIPPLE	1	63L28G	63L28G
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	205EBM863	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-SQHD PIPE	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

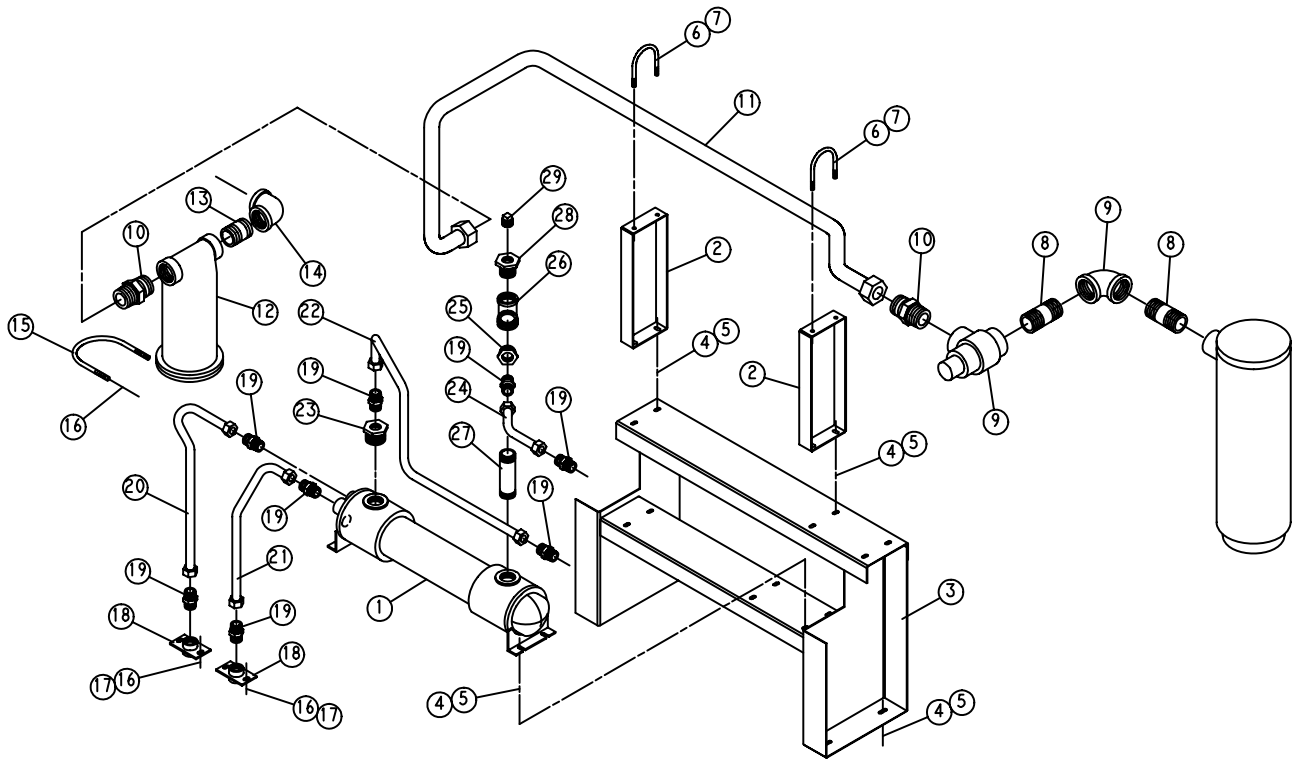
* Not Shown.

** Repair Gasket for Trap – 2117588

Repair Valve & Seat Kit – 2117587

Repair Float – 2117589

WATER COOLED HEAT EXCHANGER – WITHOUT AFTERCOOLER



210EBM810
(Ref. Drawing)

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.	60 HP Part No.	75/100 HP Part No.
1	EXCHANGER-HEAT (OIL/WATER)	1	202ESJ349	204ESM349
	EXCHANGER-HEAT (OIL/WATER) – SEACOAST OPTION	1	203ESJ349	203ESM349
	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	15U111	15U111
7	NUT-FLANGED	4	50AW5	50AW5
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	205EBM863	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

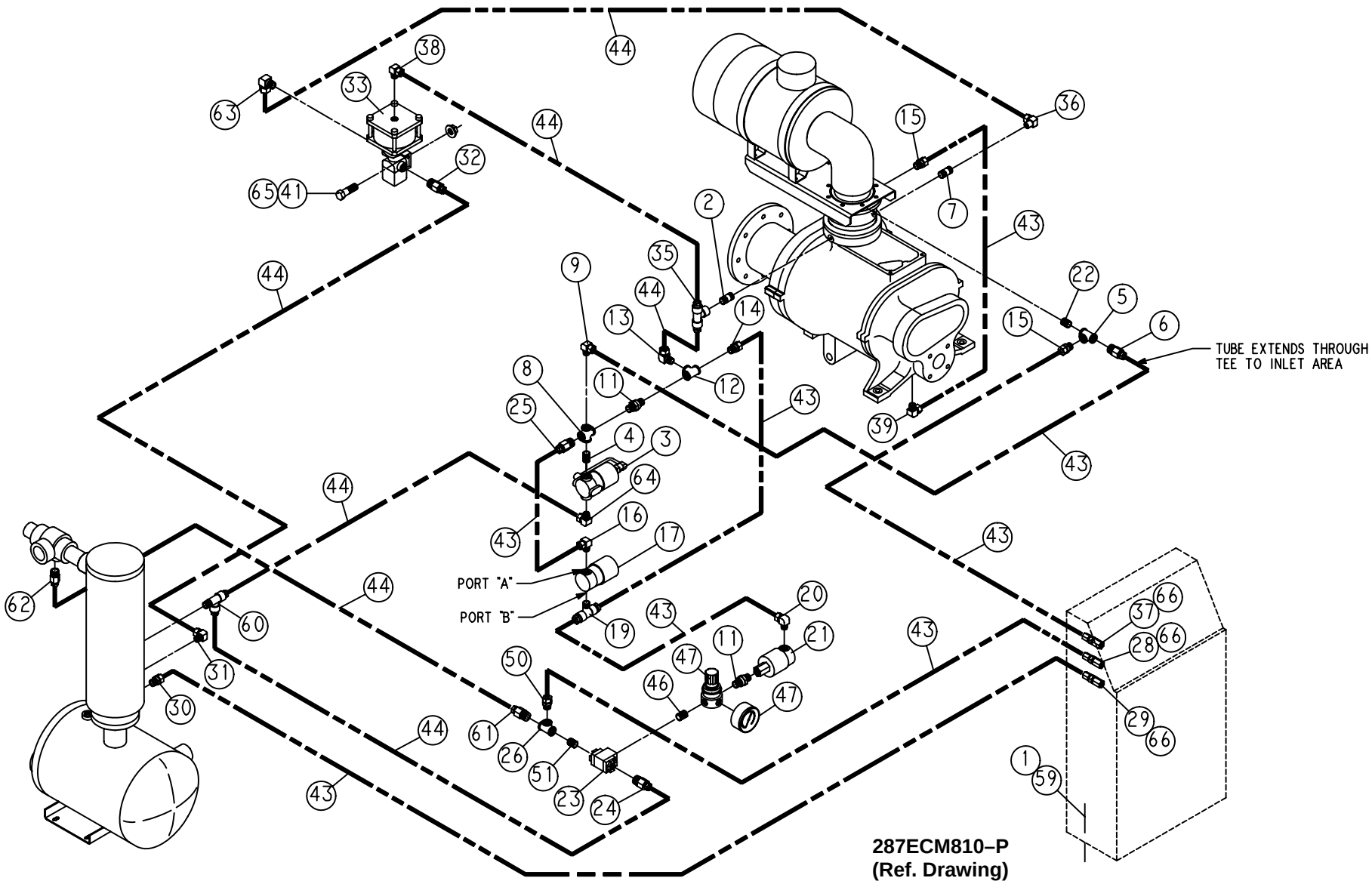
* Not Shown.

** Repair Gasket for Trap – 2117588

Repair Valve & Seat Kit – 2117587

Repair Float – 2117589

CONTROL PIPING SCHEMATIC



CONTROL PIPING SCHEMATIC

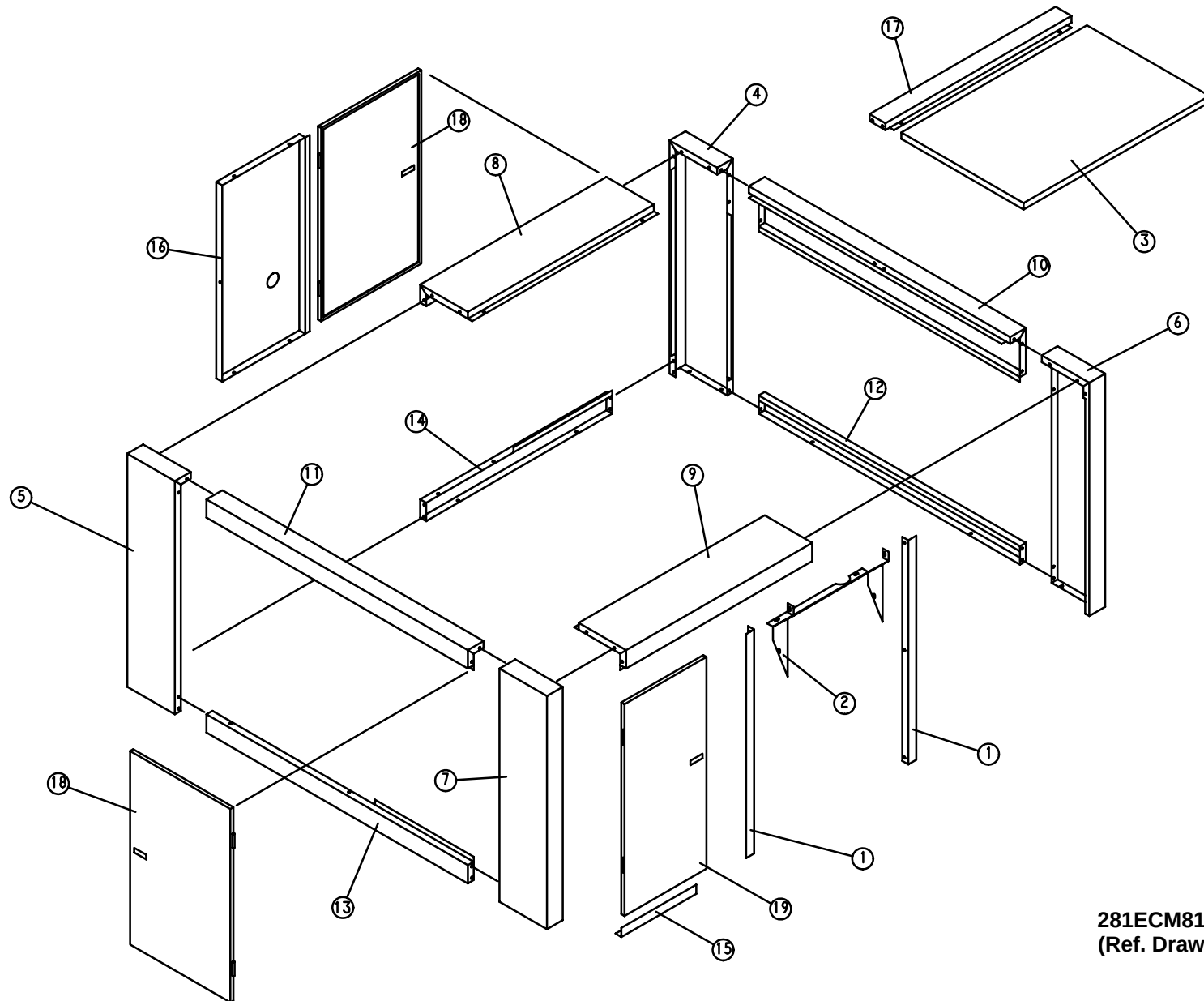
Ref. No.	Name of Part	Qty.	Part No.
1	SCREW-FLANGED	4	75LM51
2	NIPPLE	1	63D5G
3	VALVE-SOLENOID	1	91B70
4	NIPPLE	1	63D1G
5	TEE-PIPE	1	64G3G
6	CONNECTOR	1	86N272
7	NIPPLE	1	63D5G
8	CROSS	1	64K1G
9	ELBOW	1	86E60
11	VALVE-CHECK	1	90AR261
12	TEE	1	64G3G
13	CONNECTOR-TUBE	1	86E64
14	ORIFICE	1	86N289
15	CONNECTOR-TUBE	2	86E4
16	ELBOW	1	86E60
17	VALVE-SOLENOID	1	91B81
18	BUSHING-PIPE	1	64E2G
19	TEE	1	86E119
20	ELBOW	1	86E60
21	VALVE-SOLENOID	1	91B80
22	NIPPLE	1	63D1G
23	VALVE-CONTROL	1	90AR107
24	CONNECTOR-TUBE	1	86E9
25	CONNECTOR-TUBE	1	86E4
26	TEE	1	64G3G
28	CONNECTOR-TUBE	1	86N287

Ref. No.	Name of Part	Qty.	Part No.
29	CONNECTOR-TUBE	1	86N287
30	CONNECTOR-TUBE	1	86E4
31	ELBOW	1	86E64
32	CONNECTOR-TUBE	1	86E9
33 *	VALVE-CONTROL	1	90AR35
35	TEE	1	86E147
36	ELBOW	1	86E82
37	CONNECTOR-TUBE	1	86N287
38	ELBOW	1	86E64
39	ELBOW	1	86E60
41	NUT-FLANGED	2	50AW3
43	TUBE	28	85K3
44	TUBE	24	85K5
46	NIPPLE	1	63D1G
47	REGULATOR	1	88H139
	GAUGE (For Repair)	1	2116732
50	CONNECTOR-TUBE	1	86E4
51	NIPPLE	1	63D1G
59	NUT-FLANGED	4	50AW5
60	TEE	1	86E136
61	CONNECTOR-TUBE	1	86E9
62	CONNECTOR-TUBE	1	86E9
63	ELBOW	1	86E64
64	ELBOW	1	86E64
65	SCREW	2	75P4
66	O-RING	3	165011

* Diaphragm – 2116130

Repair Kit – 2109652 (Consists of O-Rings, Gasket and Grommets for normal repair).

ENCLOSURE
(COMMON PARTS - AIR/WATER COOLED)

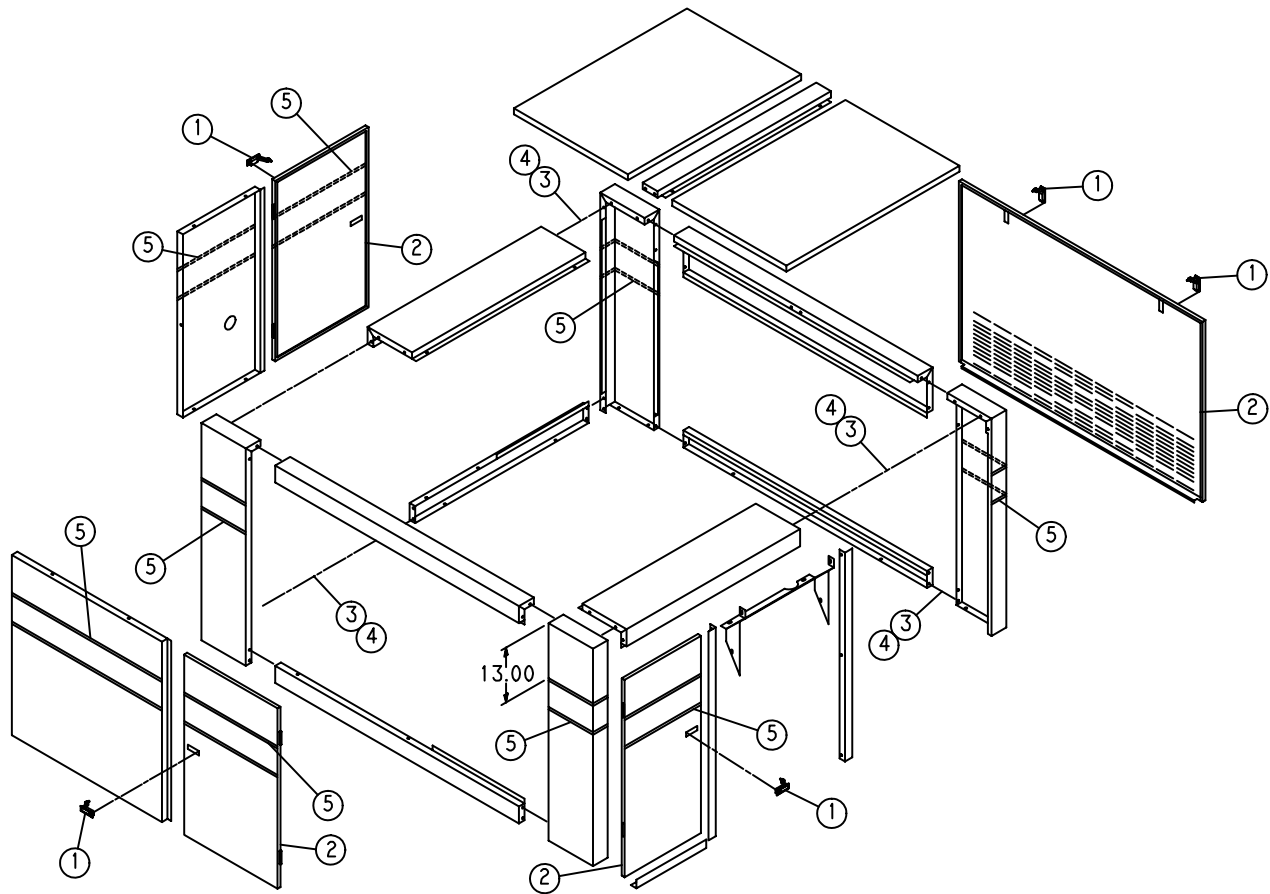


281ECM810-A
(Ref. Drawing)

**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

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

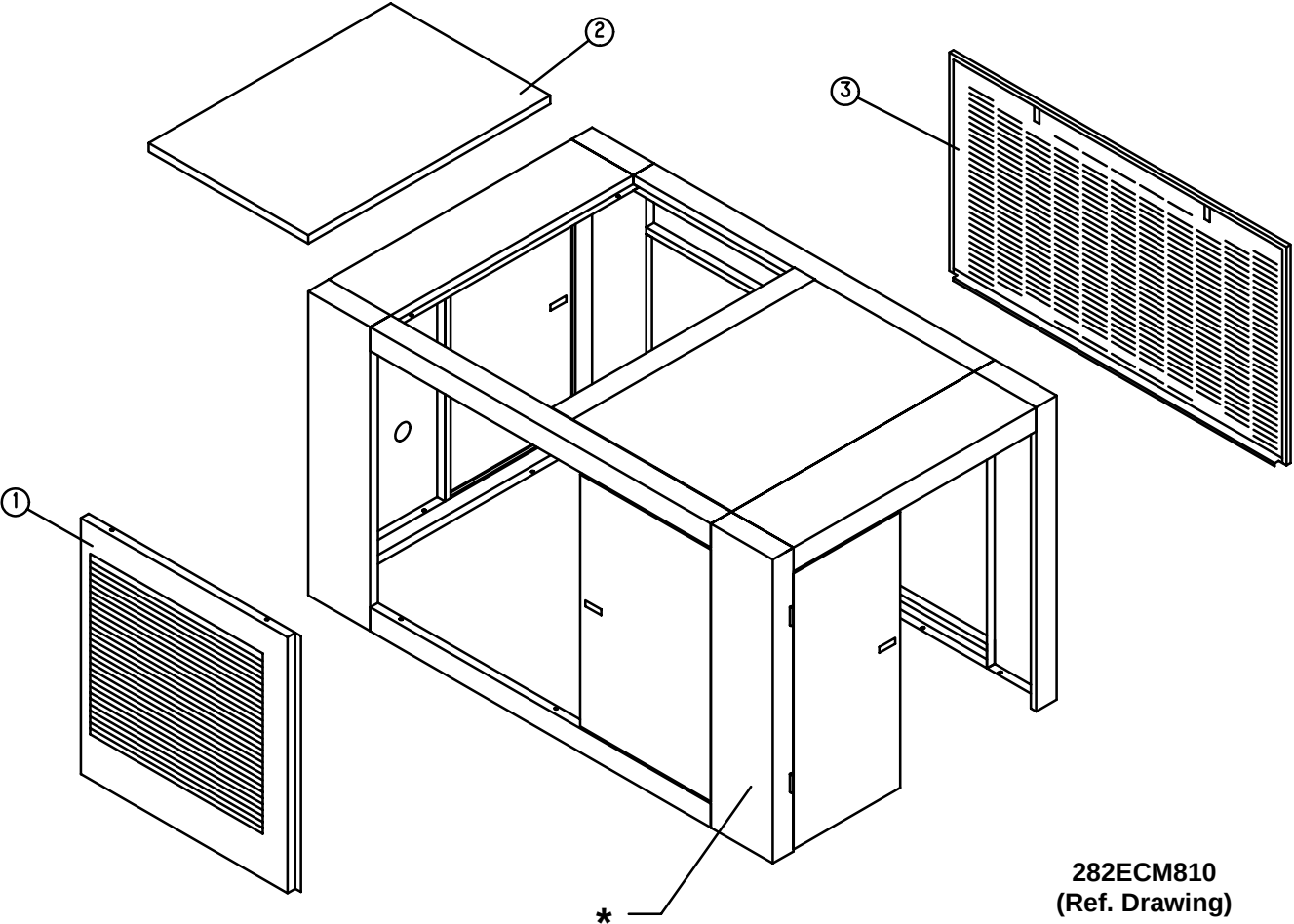


205EBM810-B
(Ref. Drawing)

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

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

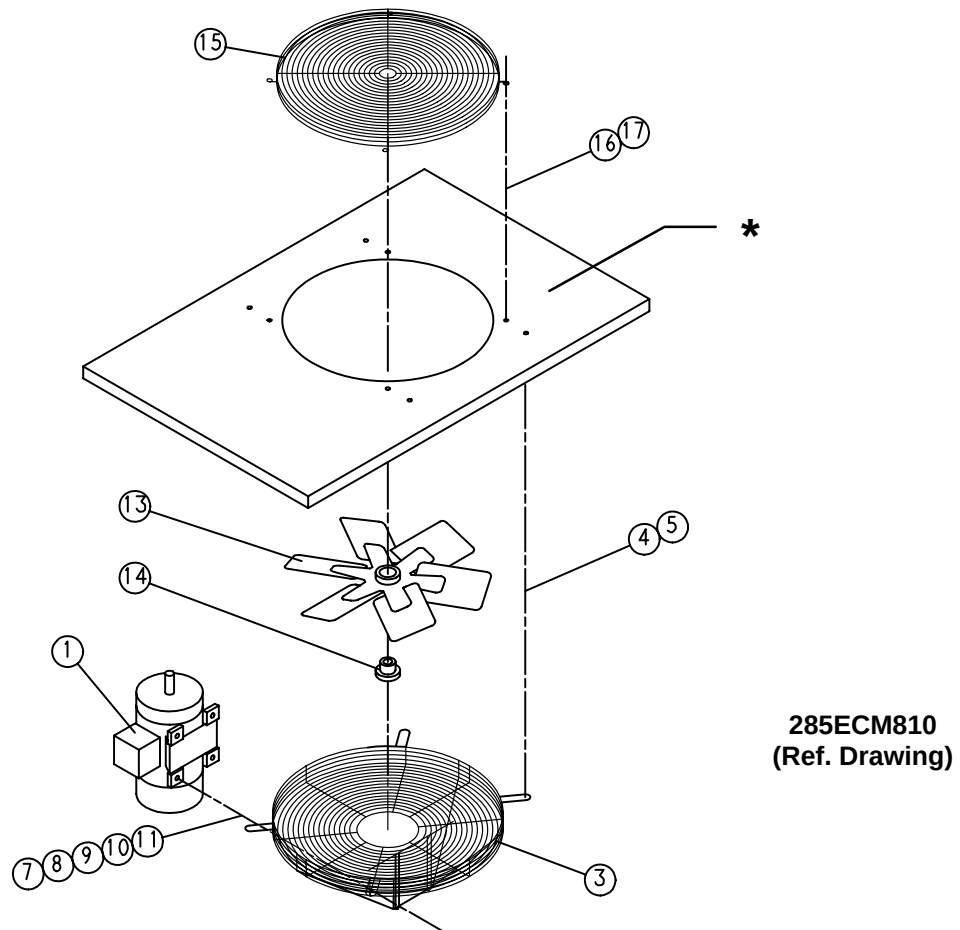


ENCLOSURE – AIR COOLED UNITS

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

* Refer to pages 36 and 37 for Enclosure Parts and page 38 for Enclosure Hardware.

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

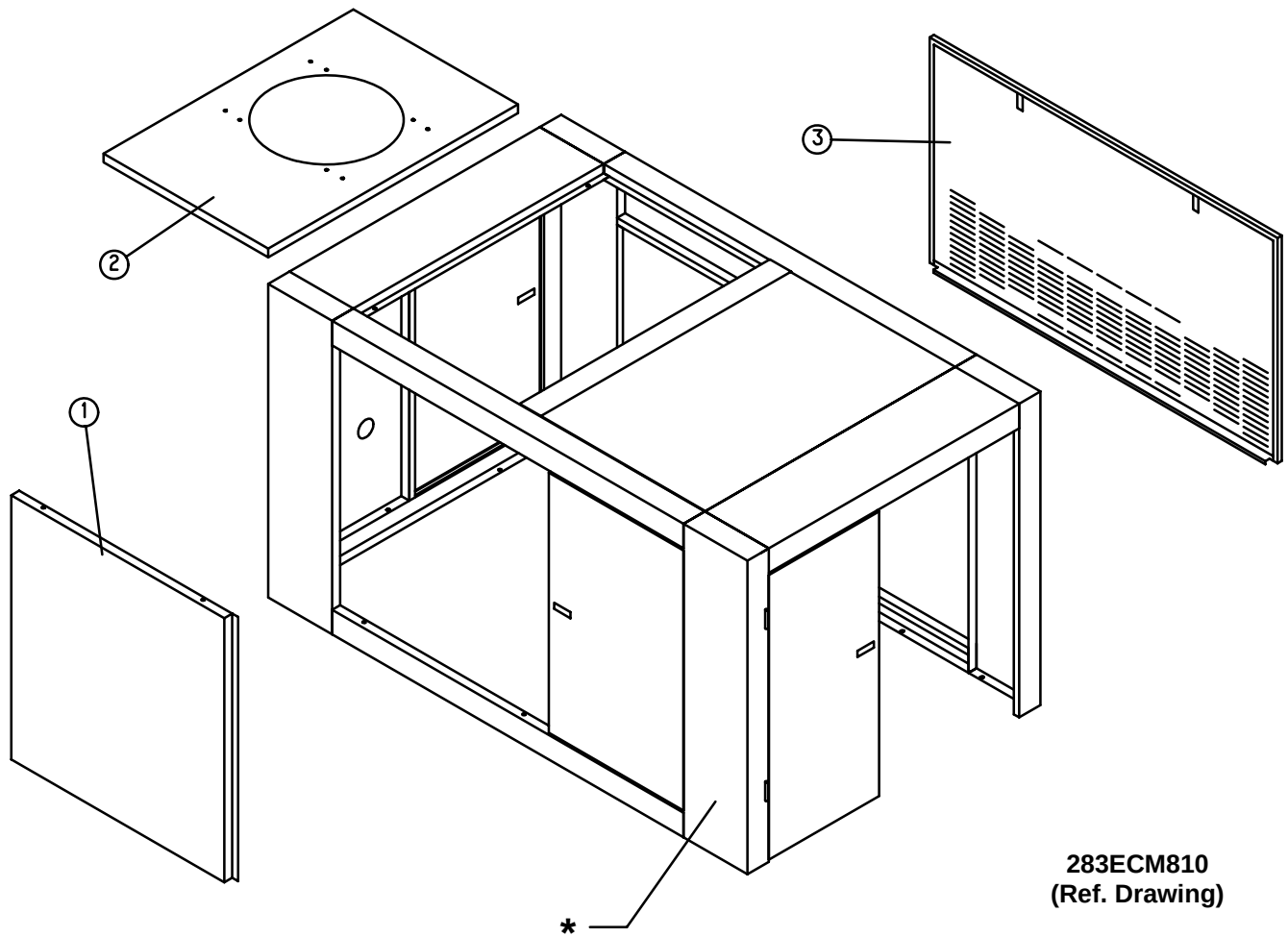


ENCLOSURE – VENT FAN ASSEMBLY (WATER COOLED UNITS ONLY)

Ref. No.	Name of Part	Qty.	Part No.
1	MOTOR	1	See Page 51
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 41 for Vent Fan Panel.

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

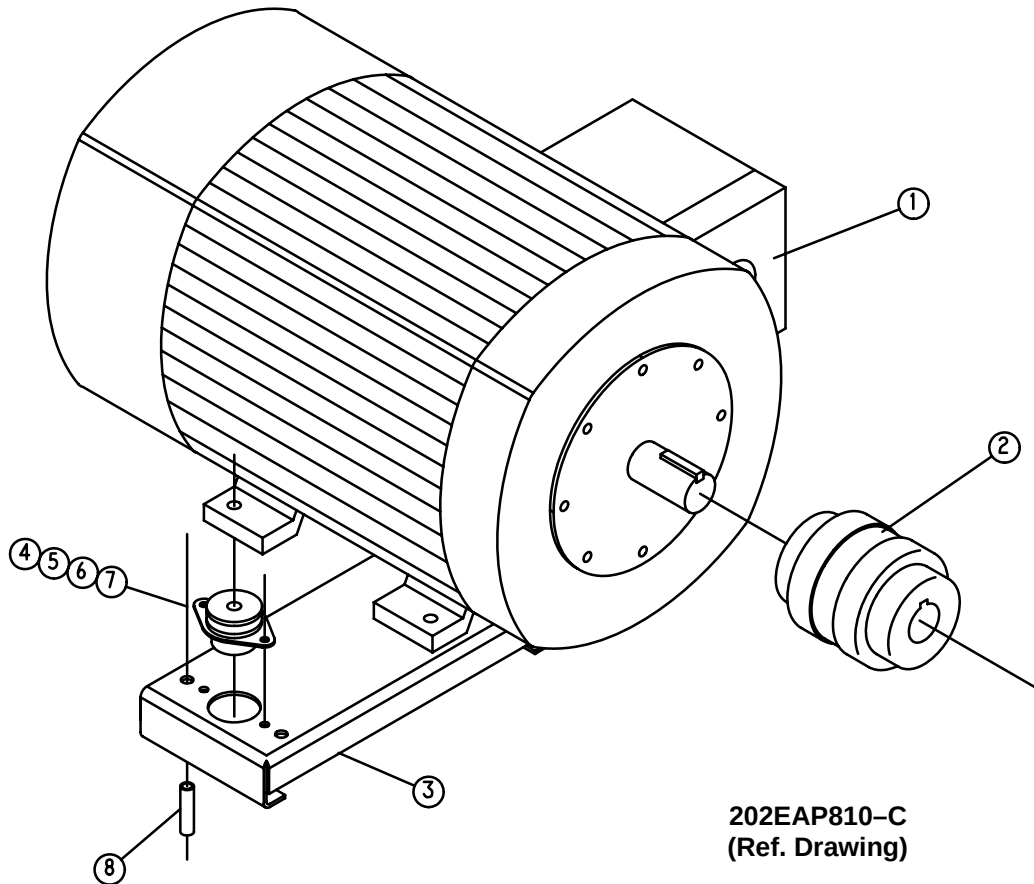


ENCLOSURE – WATER COOLED UNITS

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

* Refer to pages 36 and 37 for Enclosure Parts and page 38 for Enclosure Hardware.

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



MAIN MOTOR GROUP

Ref. No.	Name of Part	Qty.	Part No.
1	MOTOR	1	*
2	COUPLING-FLEXIBLE (SSH and SSM Air Ends)	1	51L167***
	COUPLING-FLEXIBLE (SSP Air Ends)	1	51L10**
3	SUPPORT-MOTOR – 326 FRAME MOTOR	1	202EDF620
	SUPPORT-MOTOR – 364 & 365 FRAME MOTOR	1	201EDF620
	SUPPORT-MOTOR – 404 & 405 FRAME MOTOR	1	202EAP620
4	SCREW	4	655EF160
5	WASHER	4	95A7
6	LOCKWASHER	4	95B7
7	NUT	4	50B7
8	NIPPLE	4	63AM12X26G

* Selective – see page 51.

** Drive Coupling Kit – ECK77781 (Includes (6) 2109116 Cushions)

*** Drive Coupling Cushion – 2117297 – 1 piece required.

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

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CONTROLLER ASSEMBLY
(60/75/100 HP FULL VOLTAGE STARTERS)
(Refer to drawing on page 44)

	QTY.	60 – 75 HP 200V	60 – 100 HP 230V	60 – 100 HP 460V	60 – 100 HP 575V
* ASSEMBLED PANEL – ES : NEMA 12	1	384EAP466	381EAP466	380EAP466	390EAP466
* ASSEMBLED PANEL – ES : NEMA 4	1	385EAP466	383EAP466	382EAP466	391EAP466
* ASSEMBLED PANEL – ES+ : NEMA 12, W/O Current Monitor .	1	320EAP466	317EAP466	316EAP466	326EAP466
* ASSEMBLED PANEL – ES+ : NEMA 4, W/O Current Monitor	1	321EAP466	319EAP466	318EAP466	327EAP466
* ASSEMBLED PANEL – ES+ : NEMA 12, With Current Monitor .	1	352EAP466	349EAP466	348EAP466	358EAP466
* ASSEMBLED PANEL – ES+ : NEMA 4, With Current Monitor	1	353EAP466	351EAP466	350EAP466	359EAP466
A FUSE, CONTROL BOARD	1	24CA2932	24CA2932	24CA2932	24CA2932
B FUSE, TRANSFORMER PRIMARY	2	24CA2786	24CA2786	24CA2783	24CA3722
C FUSE, FAN MOTOR, AIR COOLED	3	24CA4097	24CA3952	24CA4095	24CA4094
C FUSE, FAN MOTOR, WATER COOLED	3	24CA4093	24CA4093	24CA4091	24CA4090
1 ELECTRICAL CONTROL ASSEMBLY – ES CONTROLLER . . .	1	202EAP1173	202EAP1173	202EAP1173	202EAP1173
1 ELECTRICAL CONTROL ASSEMBLY WITH CONNECTORS – ES CONTROLLER	1	200EAP2006	200EAP2006	200EAP2006	200EAP2006
1 ELECTRICAL CONTROL ASSEMBLY – ES+ CONTROLLER .	1	200EAU1173	200EAU1173	200EAU1173	200EAU1173
1 ELECTRICAL CONTROL ASSEMBLY WITH CONNECTORS – ES+ CONTROLLER	1	200EAU2006	200EAU2006	200EAU2006	200EAU2006
2 ELECTRICAL CONTROL ENCLOSURE	1	200EAP179	200EAP179	200EAP179	200EAP179
3 OPERATOR, 22mm PUSH/PULL EMERGENCY STOP	1	24CA2907	24CA2907	24CA2907	24CA2907
4 CONTACT BLOCK, 22mm SPNC	1	24CA2908	24CA2908	24CA2908	24CA2908
5 CONTROL TRANSFORMER	1	2116371	2116372	2116372	2116373
6 FUSE, TRANSFORMER SECONDARY	1	24CA3728	24CA3728	24CA3728	24CA3728
7 FUSEHOLDER	1	24CA4098	24CA4098	24CA4098	24CA4098
8 STARTER, FAN MOTOR	1	24CA4408	24CA4408	24CA4408	24CA4408
9 REPLACEMENT COIL FOR ITEM 8	1	2115950	2115950	2115950	2115950
10 OVERLOAD RELAY	1	24CA4086	24CA4086	24CA4086	24CA4086
11 TERMINAL BLOCK	6	24CA2633	24CA2633	24CA2633	24CA2633
12 STARTER, MAIN MOTOR	1	24CA3490	24CA3490	24CA3881	24CA3881
13 REPLACEMENT COIL FOR ITEM 12	1	2115952	2115952	2115952	2115952
14 OVERLOAD RELAY	1	24CA4086	24CA4086	24CA4086	24CA4086
15 CURRENT TRANSFORMER (SEE NOTE BELOW)	1	24CA4242	24CA4242	24CA4242	24CA4242
16 CURRENT TRANSDUCER (SEE NOTE BELOW)	1	24CA4241	24CA4241	24CA4241	24CA4241

NOTE: USED WITH ES+ WITH CURRENT MONITORING UNITS ONLY.

The diagram shows the front panel of the control unit with the following components labeled:

- A**: Main power switch
- 1**: Emergency stop button
- ***: Emergency stop button (star symbol)
- 2**: Emergency stop button (star symbol)
- 3**: Emergency stop button (star symbol)
- 4**: Emergency stop button (star symbol)
- 5**: Emergency stop button (star symbol)
- 6**: Emergency stop button (star symbol)
- 7**: Emergency stop button (star symbol)
- 8**: Emergency stop button (star symbol)
- 9**: Emergency stop button (star symbol)
- 10**: Emergency stop button (star symbol)
- 11**: Emergency stop button (star symbol)
- 12**: Emergency stop button (star symbol)
- 13**: Emergency stop button (star symbol)
- 14**: Emergency stop button (star symbol)
- 15**: Emergency stop button (star symbol)
- 16**: Emergency stop button (star symbol)
- 17**: Emergency stop button (star symbol)

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**CONTROLLER ASSEMBLY
(60/75/100 HP WYE DELTA STARTERS)
(Refer to drawing on page 46)**

	QTY.	60 HP 200V	60 – 75 HP 230V	60 HP 460V	75 – 100 HP 460V
* ASSEMBLED PANEL – ES : NEMA 12	1	364EAP466	361EAP466	360EAP466	361EAP466
* ASSEMBLED PANEL – ES : NEMA 4	1	365EAP466	363EAP466	362EAP466	363EAP466
* ASSEMBLED PANEL – ES+ : NEMA 12, W/O Current Monitor .	1	300EAP466	297EAP466	296EAP466	297EAP466
* ASSEMBLED PANEL – ES+ : NEMA 4, W/O Current Monitor	1	301EAP466	299EAP466	298EAP466	299EAP466
* ASSEMBLED PANEL – ES+ : NEMA 12, With Current Monitor .	1	332EAP466	329EAP466	328EAP466	329EAP466
* ASSEMBLED PANEL – ES+ : NEMA 4, With Current Monitor	1	333EAP466	331EAP466	330EAP466	331EAP466
A FUSE, CONTROL BOARD	1	24CA2932	24CA2932	24CA2932	24CA2932
B FUSE, TRANSFORMER PRIMARY	2	24CA2786	24CA2786	24CA2783	24CA2783
C FUSE, FAN MOTOR, AIR COOLED	3	24CA4097	24CA3952	24CA4095	24CA4095
C FUSE, FAN MOTOR, WATER COOLED	3	24CA4093	24CA4093	24CA4091	24CA4091
1 ELECTRICAL CONTROL ASSEMBLY – ES CONTROLLER . . .	1	202EAP1173	202EAP1173	202EAP1173	202EAP1173
1 ELECTRICAL CONTROL ASSEMBLY WITH CONNECTORS – ES CONTROLLER	1	200EAP2006	200EAP2006	200EAP2006	200EAP2006
1 ELECTRICAL CONTROL ASSEMBLY – ES+ CONTROLLER .	1	200EAU1173	200EAU1173	200EAU1173	200EAU1173
1 ELECTRICAL CONTROL ASSEMBLY WITH CONNECTORS – ES+ CONTROLLER	1	200EAU2006	200EAU2006	200EAU2006	200EAU2006
2 ELECTRICAL CONTROL ENCLOSURE	1	200EAP179	200EAP179	200EAP179	200EAP179
3 OPERATOR, 22mm PUSH/PULL EMERGENCY STOP	1	24CA2907	24CA2907	24CA2907	24CA2907
4 CONTACT BLOCK, 22mm SPNC	1	24CA2908	24CA2908	24CA2908	24CA2908
5 CONTROL TRANSFORMER	1	2116371	2116372	2116372	2116372
6 FUSE, TRANSFORMER SECONDARY	1	24CA3728	24CA3728	24CA3728	24CA3728
7 FUSEHOLDER	1	24CA4098	24CA4098	24CA4098	24CA4098
8 STARTER, FAN MOTOR	1	24CA4408	24CA4408	24CA4408	24CA4408
9 REPLACEMENT COIL FOR ITEM 8	1	2115950	2115950	2115950	2115950
10 OVERLOAD RELAY	1	24CA4086	24CA4086	24CA4086	24CA4086
11 TERMINAL BLOCK	6	24CA2633	24CA2633	24CA2633	24CA2633
12 STARTER, MAIN MOTOR	1	24CA3255	24CA3255	24CA4142	24CA3255
13 REPLACEMENT COIL FOR ITEMS 12 AND 15	3	2116555	2116555	2116124	2116555
14 OVERLOAD RELAY	1	24CA4086	24CA4086	24CA4087	24CA4086
15 CONTACTOR	2	24CA3259	24CA3259	24CA3258	24CA3259
16 CURRENT TRANSFORMER (SEE NOTE BELOW)	1	24CA4242	24CA4242	24CA4242	24CA4242
17 CURRENT TRANSDUCER (SEE NOTE BELOW)	1	24CA4241	24CA4241	24CA4241	24CA4241

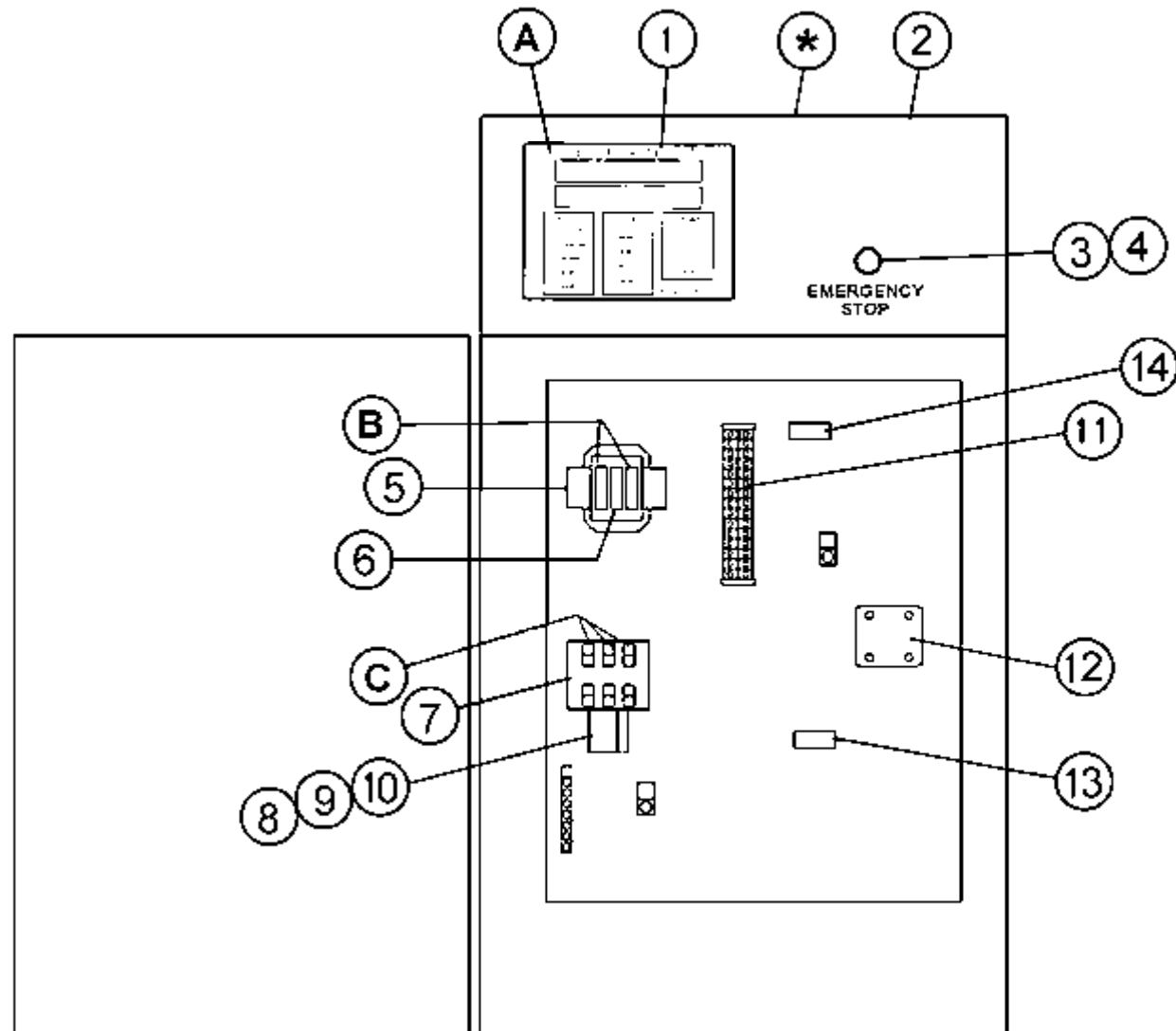
NOTE: USED WITH ES+ WITH CURRENT MONITORING UNITS ONLY.

**CONTROLLER ASSEMBLY
(60/75/100 HP WYE DELTA STARTERS)
(Refer to drawing on page 46)**

		QTY.	60 – 75 HP 575V	100 HP 575V
*	ASSEMBLED PANEL – ES : NEMA 12	1	368EAP466	369EAP466
*	ASSEMBLED PANEL – ES : NEMA 4	1	370EAP466	371EAP466
*	ASSEMBLED PANEL – ES+ : NEMA 12, W/O Current Monitor	1	304EAP466	305EAP466
*	ASSEMBLED PANEL – ES+ : NEMA 4, W/O Current Monitor	1	306EAP466	307EAP466
*	ASSEMBLED PANEL – ES+ : NEMA 12, With Current Monitor	1	336EAP466	337EAP466
*	ASSEMBLED PANEL – ES+ : NEMA 4, With Current Monitor	1	338EAP466	339EAP466
A	FUSE, CONTROL BOARD	1	24CA2932	24CA2932
B	FUSE, TRANSFORMER PRIMARY	2	24CA3722	24CA3722
C	FUSE, FAN MOTOR, AIR COOLED	3	24CA4094	24CA4094
C	FUSE, FAN MOTOR, WATER COOLED	3	24CA4090	24CA4090
1	ELECTRICAL CONTROL ASSEMBLY – ES CONTROLLER	1	202EAP1173	202EAP1173
1	ELECTRICAL CONTROL ASSEMBLY WITH CONNECTORS – ES CONTROLLER	1	200EAP2006	200EAP2006
1	ELECTRICAL CONTROL ASSEMBLY – ES+ CONTROLLER	1	200EAU1173	200EAU1173
1	ELECTRICAL CONTROL ASSEMBLY WITH CONNECTORS – ES+ CONTROLLER	1	200EAU2006	200EAU2006
2	ELECTRICAL CONTROL ENCLOSURE	1	200EAP179	200EAP179
3	OPERATOR, 22mm PUSH/PULL EMERGENCY STOP	1	24CA2907	24CA2907
4	CONTACT BLOCK, 22mm SPNC	1	24CA2908	24CA2908
5	CONTROL TRANSFORMER	1	2116373	2116373
6	FUSE, TRANSFORMER SECONDARY	1	24CA3728	24CA3728
7	FUSEHOLDER	1	24CA4098	24CA4098
8	STARTER, FAN MOTOR	1	24CA4408	24CA4408
9	REPLACEMENT COIL FOR ITEM 8	1	2115950	2115950
10	OVERLOAD RELAY	1	24CA4086	24CA4086
11	TERMINAL BLOCK	6	24CA2633	24CA2633
12	STARTER, MAIN MOTOR	1	24CA4142	24CA3255
13	REPLACEMENT COIL FOR ITEMS 12 AND 15	3	2116124	2116555
14	OVERLOAD RELAY	1	24CA4087	24CA4086
15	CONTACTOR	2	24CA3258	24CA3259
16	CURRENT TRANSFORMER (SEE NOTE BELOW)	1	24CA4242	24CA4242
17	CURRENT TRANSDUCER (SEE NOTE BELOW)	1	24CA4241	24CA4241

NOTE: USED WITH ES+ WITH CURRENT MONITORING UNITS ONLY.

CONTROLLER ASSEMBLY
(60/75/100 HP LESS MAIN MOTOR STARTER)



Refer to parts list on page 50.

**CONTROLLER ASSEMBLY
(60/75/100 HP LESS MAIN MOTOR STARTER)
(Refer to drawing on page 49)**

		QTY.	200V	230V	460V	575V
*	ASSEMBLED PANEL – ES : NEMA 12	1	373EAP466	372EAP466	372EAP466	375EAP466
*	ASSEMBLED PANEL – ES : NEMA 4	1	377EAP466	376EAP466	376EAP466	379EAP466
*	ASSEMBLED PANEL – ES+ : NEMA 12, W/O Current Monitor .	1	309EAP466	308EAP466	308EAP466	311EAP466
*	ASSEMBLED PANEL – ES+ : NEMA 4, W/O Current Monitor	1	313EAP466	312EAP466	312EAP466	315EAP466
*	ASSEMBLED PANEL – ES+ : NEMA 12, With Current Monitor .	1	341EAP466	340EAP466	340EAP466	343EAP466
*	ASSEMBLED PANEL – ES+ : NEMA 4, With Current Monitor	1	345EAP466	344EAP466	344EAP466	347EAP466
A	FUSE, CONTROL BOARD	1	24CA2932	24CA2932	24CA2932	24CA2932
B	FUSE, TRANSFORMER PRIMARY	2	24CA2786	24CA2786	24CA2783	24CA3722
C	FUSE, FAN MOTOR, AIR COOLED	3	24CA4097	24CA3952	24CA4095	24CA4094
C	FUSE, FAN MOTOR, WATER COOLED	3	24CA4093	24CA4093	24CA4091	24CA4090
1	ELECTRICAL CONTROL ASSEMBLY – ES CONTROLLER . . .	1	202EAP1173	202EAP1173	202EAP1173	202EAP1173
1	ELECTRICAL CONTROL ASSEMBLY WITH CONNECTORS – ES CONTROLLER	1	200EAP2006	200EAP2006	200EAP2006	200EAP2006
1	ELECTRICAL CONTROL ASSEMBLY – ES+ CONTROLLER .	1	200EAU1173	200EAU1173	200EAU1173	200EAU1173
1	ELECTRICAL CONTROL ASSEMBLY WITH CONNECTORS – ES+ CONTROLLER	1	200EAU2006	200EAU2006	200EAU2006	200EAU2006
2	ELECTRICAL CONTROL ENCLOSURE	1	200EAP179	200EAP179	200EAP179	200EAP179
3	OPERATOR, 22mm PUSH/PULL EMERGENCY STOP	1	24CA2907	24CA2907	24CA2907	24CA2907
4	CONTACT BLOCK, 22mm SPNC	1	24CA2908	24CA2908	24CA2908	24CA2908
5	CONTROL TRANSFORMER	1	2116371	2116372	2116372	2116373
6	FUSE, TRANSFORMER SECONDARY	1	24CA3728	24CA3728	24CA3728	24CA3728
7	FUSEHOLDER	1	24CA4098	24CA4098	24CA4098	24CA4098
8	STARTER, FAN MOTOR	1	24CA4408	24CA4408	24CA4408	24CA4408
9	REPLACEMENT COIL FOR ITEM 8	1	2115950	2115950	2115950	2115950
10	OVERLOAD RELAY	1	24CA4086	24CA4086	24CA4086	24CA4086
11	TERMINAL BLOCK	7	24CA2633	24CA2633	24CA2633	24CA2633
12	CONTROL RELAY	1	24CA3896	24CA3896	24CA3896	24CA3896
13	CURRENT TRANSFORMER (SEE NOTE BELOW)	1	24CA4242	24CA4242	24CA4242	24CA4242
14	CURRENT TRANSDUCER (SEE NOTE BELOW)	1	24CA4241	24CA4241	24CA4241	24CA4241

NOTE: USED WITH ES+ WITH CURRENT MONITORING UNITS ONLY.

MOTOR GROUP (MAIN DRIVE MOTORS)

FULL VOLTAGE *

WYE-DELTA

	60 HP	75 HP	100 HP	60 HP	75 HP	100 HP
	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.

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

MOTOR, 200V	24CA3740	24CA3743	24CA3746	24CA2952	24CA2956	24CA2960
MOTOR, 230V	24CA3741	24CA3744	24CA3747	24CA3013	24CA3014	24CA3015
MOTOR, 460V	24CA3741	24CA3744	24CA3747	24CA3013	24CA3014	24CA3015
MOTOR, 575V	24CA3742	24CA3745	24CA3748	24CA2955	24CA2959	24CA2963

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

MOTOR, 200V	24CA3755	24CA3758	24CA3761	24CA2968	24CA2972	24CA2976
MOTOR, 230V	24CA3756	24CA3759	24CA3762	24CA3017	24CA3018	24CA3019
MOTOR, 460V	24CA3756	24CA3759	24CA3762	24CA3017	24CA3018	24CA3019
MOTOR, 575V	24CA3757	24CA3760	24CA3763	24CA2971	24CA2975	24CA2979

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

MOTOR, 200V	24CA3770	24CA3773	24CA3776	24CA2984	24CA2988	24CA2992
MOTOR, 230V	24CA3771	24CA3774	24CA3777	24CA3021	24CA3022	24CA3023
MOTOR, 460V	24CA3771	24CA3774	24CA3777	24CA3021	24CA3022	24CA3023
MOTOR, 575V	24CA3772	24CA3775	24CA3778	24CA2987	24CA2991	24CA2995

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

MOTOR, 200V	24CA3785	24CA3788	24CA3791	24CA2996	24CA3000	24CA3004
MOTOR, 230V	24CA3786	24CA3789	24CA3792	24CA3024	24CA3025	24CA3026
MOTOR, 460V	24CA3786	24CA3789	24CA3792	24CA3024	24CA3025	24CA3026
MOTOR, 575V	24CA3787	24CA3790	24CA3793	24CA2999	24CA3003	24CA3007

MOTOR GROUP (FAN MOTORS)

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

VOLTAGE

P/N

MOTOR, 200V	24CA4259
MOTOR, 230V	24CA4260
MOTOR, 460V	24CA4260
MOTOR, 575V	24CA4261

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

VOLTAGE

P/N

MOTOR, 200V	24CA4177
MOTOR, 230V	24CA2464
MOTOR, 460V	24CA2464
MOTOR, 575V	24CA4178

* EBM AND EPB PACKAGES ONLY. EAP PACKAGES ARE ONLY OFFERED AS WYE DELTA.

IDENTIFICATION AND INSTRUCTION GROUP

Ref. No.	Name of Part	Qty.	Part No.
1	DECAL, OPERATION & MAINTENANCE	1	217ECM077
2	DECAL, WARNING	1	227EAQ077
3	DECAL, PARTS LIST/SERVICE MANUAL #	1	204EDE077
4	DECAL, WARNING – ELECTRICAL SHOCK	1	216EAQ077
5	DECAL, DANGER – DO NOT MODIFY	1	218EAQ077
6	DECAL, WARNING – ELECTRICAL SHOCK	1	213EAQ077
7	DECAL, WARNING – READ OPERATOR MANUAL	1	215EAQ077
8	DECAL, CAUTION – USE FLOOR PLATE	1	221EAQ077
9	DECAL, WARNING – SEE WIRING DIAGRAM	1	222EAQ077
10	DECAL, DANGER – HOT OIL UNDER PRESSURE	1	212EAQ077
11	DECAL, WARNING – INSPECT OIL RESERVOIR	1	217EAQ077
12	DECAL	1	243EAQ077
13	DECAL, NOTICE – USE GARDNER DENVER PARTS	1	214EAQ077
14	DECAL, NOTICE – USE GARDNER DENVER PARTS	1	214EAQ077
15	DECAL, CAUTION – DO NOT LIFT	1	208EAQ077
16	DECAL, WARNING – ROTATING MACHINERY	1	211EAQ077
17	DECAL, DANGER – DO NOT BREATHE	1	206EAQ077
18	DECAL, DRAIN MOISTURE DAILY	1	205ESO077
19	DECAL, GARDNER DENVER LOGO	1	69F18
20	RIVET	4	70E13
21	DECAL, HEAT EXCHANGER “IN”	1	200ESP077
22	DECAL, HEAT EXCHANGER “OUT”	1	201ESP077
23	DECAL, SAVER II LOGO	1	201ECP077
24	DECAL, SAVER II LOGO	3	200ECP077
25	TAG–INSTRUCTION	1	203EAQ304
26	DECAL, NAMEPLATE	1	69F64
28	DECAL	1	240EAQ077
29	DECAL	1	251EAQ077
30	TAG–INSTRUCTION	1	204EAQ304
31	TAG–INSTRUCTION	1	205EAQ304

REPAIR KITS

Name of Part	Qty.	Part No.
ROUTINE MAINTENANCE KIT – HEAVY DUTY AIR FILTER (Includes next two items)		202ECM6013
ELEMENT, AIR FILTER	2	2116713
ELEMENT, OIL FILTER	3	2116110
PERIODIC MAINTENANCE KIT (INLET VALVE) (Includes next five items) ..		302SSM6013
O-RING	1	25BC447
SPRING	1	78G19
SPRING	1	78W63
O-RING	1	25AM29
RETAINER RING	1	74D88
SEPARATOR KIT (Includes next three items)		208EAP6013
OIL SEPARATOR	1	200ECM035
GASKET	1	25C1788N
LUBRICANT	1	2116755
PNEUMATIC CONTROLS & GAUGES (Includes next five items)		302EAQ6013
CHECK VALVE	2	90AR261
SHUTTLE VALVE	2	90AR107
PURGE VALVE	1	90AR35
PRESSURE REGULATOR	1	88H139
PRESSURE GAUGE	1	27P104
ELECTRICAL CONTROL KIT (Includes next six items)		206EAP6013
SOLENOID VALVE	1	91B70
SOLENOID VALVE	1	91B80
SOLENOID VALVE	1	91B81
THERMISTOR PROBE	2	21D264
TRANSDUCER	1	88H242
VACUUM SWITCH	1	88H195
DRIVE COUPLING KIT (Includes next item)	1	ECK77781
CUSHIONS (Includes 6)		2109116
LUBRICANT (AEON 9000 SP)		
5-GALLON PAIL	1	28H109
55-GALLON DRUM	1	28H110
TOUCH-UP PAINT, WHITE		
5-GALLON PAIL	1	28H76
1-GALLON CAN	1	28H84
1-QUART CAN	1	28H83
WATER TEMPERATURE REGULATOR (Optional)		90AR326
MAGNETIC WATER SHUTOFF VALVE – NEMA 4 (Optional)		ECH75596

REPAIR KITS (Continued)

Name of Part	Qty.	Part No.
PERIODIC OVERHAUL KIT (SSM AIR END) (Includes next seven items) . . .		303SSM6013
GASKET KIT (SEE BELOW)	1	304SSM6013
OIL SEAL KIT (SEE BELOW)	1	302SSH6013
ROLLER BEARING	1	12BA92
ROLLER BEARING	1	12BA94
ROLLER BEARING	1	12W34
ROLLER BEARING	1	12BA93
SPRING	1	78W53
GASKET KIT (SSM AIR END) (Includes next five items)		304SSM6013
PERIODIC MAINTENANCE KIT (SEE ABOVE)	1	302SSM6013
SHIM SET (SHAFT)	1	77H56
SHIM SET	1	77H57
GASKET (AIR END TO DISCHARGE MANIFOLD)	1	25C1230N
GASKET ELIMINATOR	1	25BC222
PERIODIC OVERHAUL KIT (SSH AIR END) (Includes next seven items) . . .		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 (SSH AIR END) (Includes next five items)		304SSH6013
PERIODIC MAINTENANCE KIT (SEE ABOVE)	1	302SSM6013
SHIM SET (SHAFT)	1	77H54
SHIM SET	1	77H53
GASKET (AIR END TO DISCHARGE MANIFOLD)	1	25C1230N
GASKET ELIMINATOR	1	25BC222
OIL SEAL KIT (SSH AND SSM AIR ENDS) (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 (SSH and SSM Air Ends) .		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.
PERIODIC OVERHAUL KIT (SSP AIR END) (Includes next nine items)		302SSP6013
GASKET KIT (SEE BELOW)	1	303SSP6013
OIL SEAL KIT (SEE BELOW)	1	300SSP6013
ROLLER BEARING	1	12BA105
ROLLER BEARING	1	12BA106
ROLLER BEARING	1	12BA104
ROLLER BEARING	1	12BA103
ROLLER BEARING	2	12BA51
SPRING	1	78W50
SPRING	1	78W52
GASKET KIT (SSP AIR END) (Includes next eight items)		303SSP6013
PERIODIC MAINTENANCE KIT (SEE ABOVE)	1	302SSM6013
SHIM SET (SHAFT)	1	77H63
SHIM SET	1	77H62
GASKET RING	2	25C603N
PACKING RING	4	60AM46
FASTENER SEAL	4	60DD65
GASKET	4	25C138N
GASKET ELIMINATOR	1	25BC222
OIL SEAL KIT (SSP AIR ENDS) (Includes next seven items)		300SSP6013
WEAR SLEEVE	1	200SSP1458
OIL SEAL	1	60DD692
OIL SEAL	1	60DD693
O-RING	1	8502140
O-RING	1	25BC380
GASKET ELIMINATOR	1	25BC222
CHECK VALVE	1	90AR923
WEAR SLEEVE INSTALLATION / REMOVAL KIT (SSP Air Ends)		200SSP4017
(Includes next seven items)		
PULLER	1	200SSP219
PLATE-PULLER	1	200SSP340
SCREW	1	75LM192
SCREW	1	655ED120
SCREW	2	75D177
GUIDE	1	200SSP450
TOOL	1	200SSP074
AIR COOLED FIELD INSTALLED ENCLOSURE KIT	1	282ECM4017
AIR COOLED FIELD INSTALLED ENCLOSURE KIT	1	283ECM4017

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