
GARDNER DENVER®

13-8-532
Version: 01
May 18, 2004

INTEGRA™
BASE-MOUNTED
COMPRESSOR

MODELS

EFA99F
5, 7-1/2 & 10 HP

PARTS LIST

Gardner

Denver

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

Gardner Denver Compressor genuine parts, manufactured to design tolerances, are developed 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 is 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 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 airends. Most popular model remanufactured airends are maintained in stock at the Remanufacturing Center in Indianapolis, IN., 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
Master Distribution Center
5585 East Shelby Drive
Memphis, TN 38141
Phone: (901) 542-6100
(800) 245-4946
Fax: (901) 542-6159

Factory:

Gardner Denver
1800 Gardner Expressway
Quincy, IL 62301
Phone: (217) 222-5400
Fax: (217) 224-7814

REMANUFACTURED AIRENDS

Whenever an airend requires replacement or repair, Gardner Denver offers an industry unique, factory remanufactured airend exchange program. From its modern Remanufacturing Center in Indianapolis, IN., Gardner Denver is committed to supplying you with the highest quality, factory remanufactured airends 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 airend 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 +/- .0001", insuring that all remanufactured airends meet factory performance specifications.

Warranty

Gardner Denver backs up every remanufactured airend with a new warranty...18 months from purchase, 12 months from service. Gardner Denver remanufactured airends deliver *quality without question...year in and year out.* Call Gardner Denver for information on the airend exchange program and the name of your authorized distributor.

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

**TOTAL PRODUCT SUPPORT – GARDNER DENVER’S
CONTINUING COMMITMENT
TO YOUR AIR COMPRESSOR PERFORMANCE**

Commitment to total product support continues long after the purchase of your quality Gardner Denver rotary screw compressor.

Gardner Denver original parts incorporate years of experience and improvements in design, materials and quality assurance. Maintaining your compressor investment with Gardner Denver parts will insure protection for the air compressor unit and long, dependable service life.

Your authorized Gardner Denver compressor distributor maintains a complete stock of all common maintenance parts, factory approved AEON lubricants, and Gardner Denver factory warranted exchange airends. In addition, authorized distributor technicians are factory trained, and can provide complete diagnostic, compressor maintenance and repair services.

This manual is designed to assist you in maintaining high performance and receiving many years of dependable service you expect from your Gardner Denver compressor.

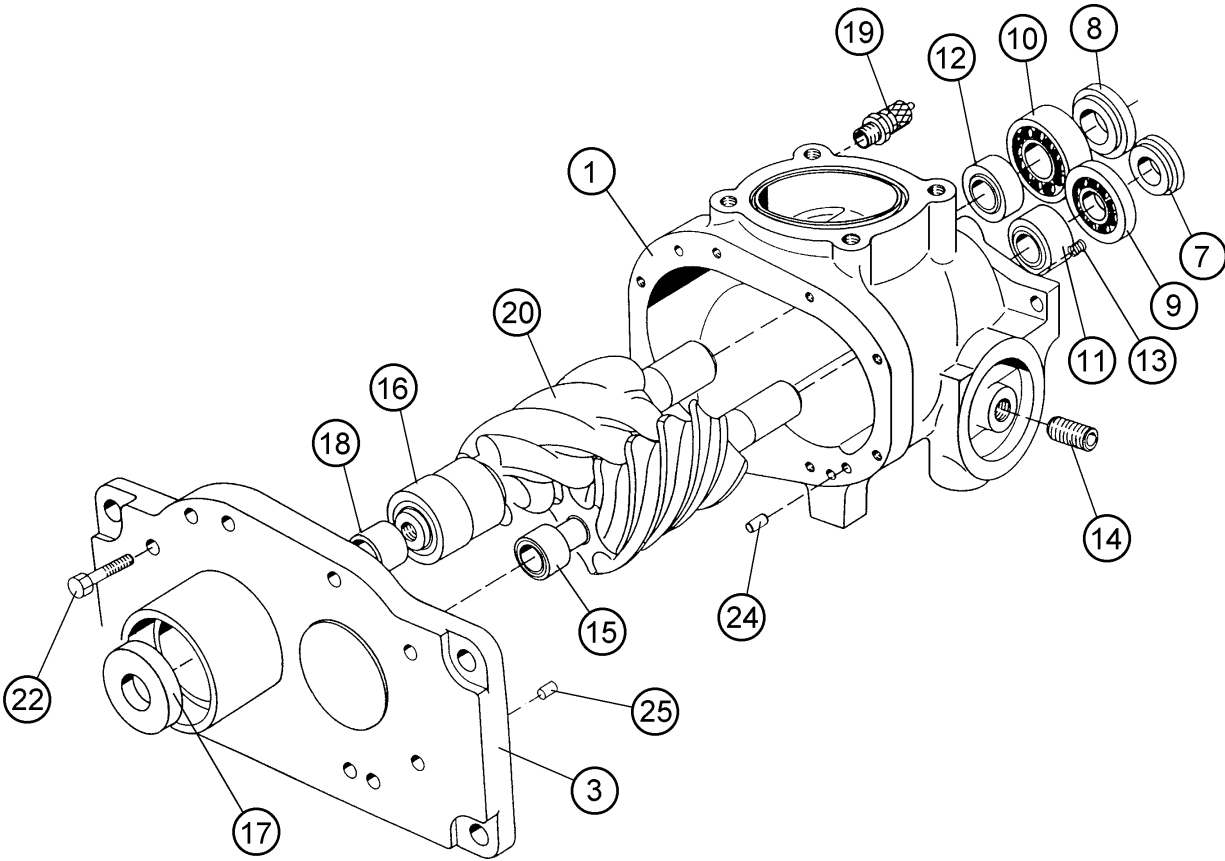
TABLE OF CONTENTS

Maintain Compressor Reliability And Performance With Genuine Gardner Denver Compressor Parts And Support Services	1
Remanufactured Airends	1
Total Product Support – Gardner Denver’s Continuing Commitment To Your Air Compressor Performance.....	2
Airend Group	4, 5
Integrated Compressor Parts	6, 7
Oil Filter And Air Filter	8
Minimum Pressure Valve Repair Parts	9
Inlet Valve Repair Parts	10, 11
Fan Assembly	12
Water Separator Assembly	13
Mounting Group	14, 15
Back Wall	16
Front Wall	17
Cover.....	18
Control Mount Group.....	19
Drive Group – 5, 7-1/2 & 10 HP	20
Drive Groups By Horsepower And Pressure	21
Base And Air Receiver	22
Dryer Assembly Less Cold Coalescer Less Afterfilter	23
Dryer Less Cold Coalescer, Less Afterfilter	24
Dryer With Cold Coalescer, Less Afterfilter	25
Dryer Assembly With Cold Coalescer With Afterfilter	26, 27
Moisture Drain With Two Connections.....	28
Moisture Drain With Three Connections	29
Air Receiver Automatic Drain Assembly	30
Air Discharge With Ball Valve	31
Application Chart For Dryers.....	32
Wiring Diagram – 3 Phase, 200-575 Volt.....	33-35
Control Box - EFA 5-10 HP, 3 Phase, 200, 230, 460, 575 Volt	36
Wiring Diagram – 1 Phase, 230 Volt.....	37-39
Control Box - EFA 5 & 7.5 HP, 1 Phase, 230 Volt	40
Motors	41
Overload Heaters	41
Group Identification And Instructions - Standard	42
Identification And Instructions – Air Receiver/Dryer	42
Repair Kits.....	43, 44

For Operating and Service Instruction, see:

SERVICE MANUAL 13-8-639

AIREND GROUP



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

AIREND GROUP

Ref. No.	Name of Part	Qty.	B/M: EFC03965238 Part No.
	AIREND.....		EFC03965238
	REPAIR KIT (Includes Reference No.'s 7-13, 15-17, 24 & 25)		EFC30855242
1	CYLINDER.....	1	EFC03962338
3	INLET BEARING HOUSING.....	1	EFC03778428
7	BUSHING.....	1	EFC03378108
8	BUSHING.....	1	EFC03378088
9	BEARING.....	1	EFC85387289
10	BEARING.....	1	EFC80057929
11	NEEDLE ROLLER BEARING.....	1	EFC85387569
12	NEEDLE ROLLER BEARING.....	1	EFC80180679
13	SPRING.....	2	EFC03378368
14	NIPPLE, OIL FILTER ON T3 AIREND.....	1	EFC03381588
15	NEEDLE ROLLER BEARING.....	1	EFC85386839
16	NEEDLE ROLLER BEARING.....	1	EFC85387439
* 17	SHAFT SEAL ASSEMBLY (Includes Reference No. 18).....	1	EFC89542409
19	CONNECTOR.....	1	EFC81744309
20	ROTOR SET.....	1	EFC03496438
22	SCREW.....	8	EFC44250260
24	DOWEL PIN.....	2	EFC89512279
25	DOWEL PIN.....	1	EFC85386559

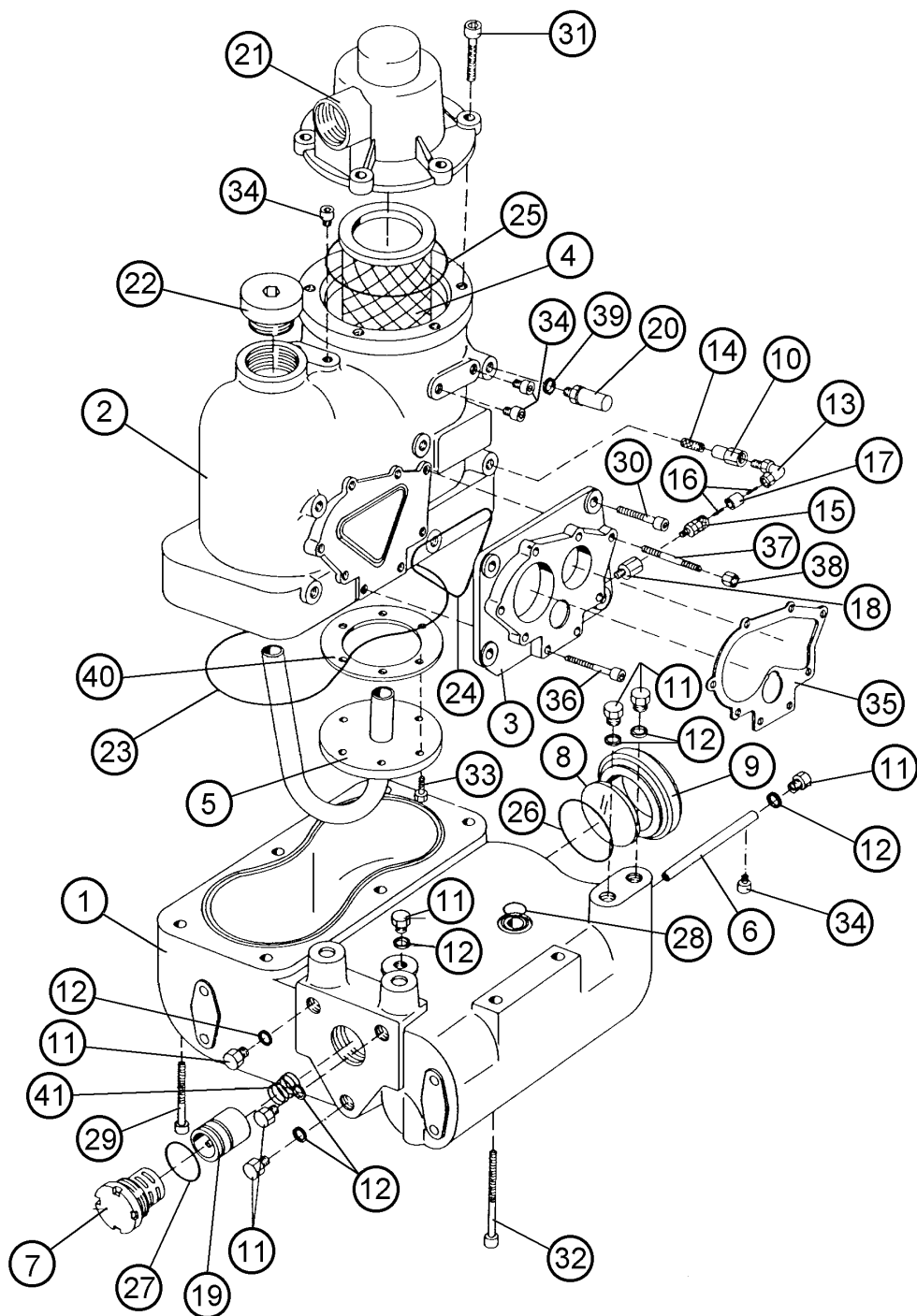
* Not shown

Tools required for Shaft Seal Removal:

EFC03476918 – Locking Key for Sheave

EFC03477088 – Wear Sleeve Removal Tool

INTEGRATED COMPRESSOR PARTS



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

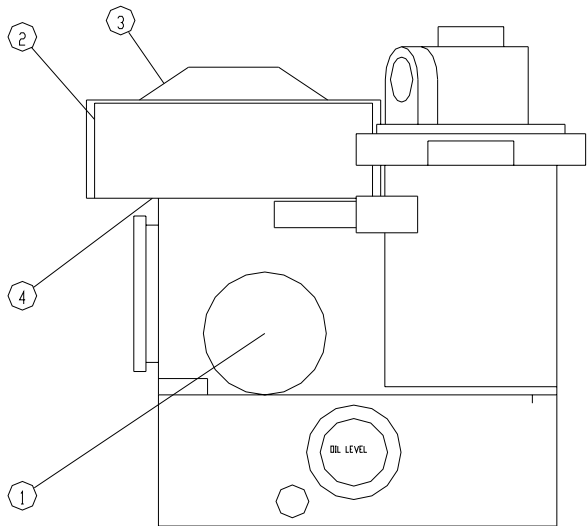
INTEGRATED COMPRESSOR PARTS

Ref. No.	Name of Part	Qty.	Part No.
1	OIL SUMP/BASE	1	EFC04028178
2	SEPARATOR HOUSING	1	EFC04028208
3	DISCHARGE BEARING HOUSING	1	EFC03977698
* 4	OIL SEPARATOR	1	EFC03582228
5	AIR SEPARATION SHOTGUN	1	EFC37622058
6	TUBE, SUCTION	1	EFC37622188
7	THERMOSTAT HOUSING	1	EFC37622208
8	OIL SITE GLASS	1	EFC30899578
9	RETAINER, OIL SITE GLASS	1	EFC30915118
10	HOUSING, OIL SCAVENGE LINE SCREEN	1	EFC30941448
11	PLUG	7	EFC03381178
12	GASKET	7	EFC80034799
13	ELBOW	1	EFC85267219
14	OIL SCAVENGE LINE SCREEN	1	EFC85588619
15	CONNECTOR	1	EFC81744309
16	ORIFICE TUBE	2	EFC30897558
17	PLASTIC TUBE	1	EFC85200299
18	CHECK VALVE	1	EFC89597779
19	THERMOSTAT ELEMENT		
	150° F STANDARD	1	EFC89560169
	180° F OPTIONAL	1	EFC89626099
20	PRESSURE RELIEF VALVE	1	EFC89592299
21	MINIMUM PRESSURE/CHECK VALVE ASSEMBLY	1	EFC03603078
22	PLUG	1	EFC85328079
23	O-RING	1	EFC87284609
24	O-RING	1	EFC89586739
25	O-RING	1	EFC85387979
26	O-RING	1	EFC89573939
27	O-RING	1	EFC85646299
28	O-RING	1	EFC89594469
29	SCREW	6	EFC89558649
30	SCREW	4	EFC44582440
31	SCREW	6	EFC44572670
32	SCREW	2	EFC89586869
33	SCREW	6	EFC80242159
34	PLUG	5	EFC80704779
35	GASKET	1	EFC03598208
36	SCREW	6	EFC81840789
37	STUD	2	EFC87198129
38	NUT	2	EFC80177459
39	GASKET	1	EFC80180269
40	GASKET	1	EFC30809658
41	SPRING	1	EFC89565369

* For Repair, order Oil Separator Kit Part Number 302EBA6013. See page 43.

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

342EBA810-A
(Ref. Drawing)



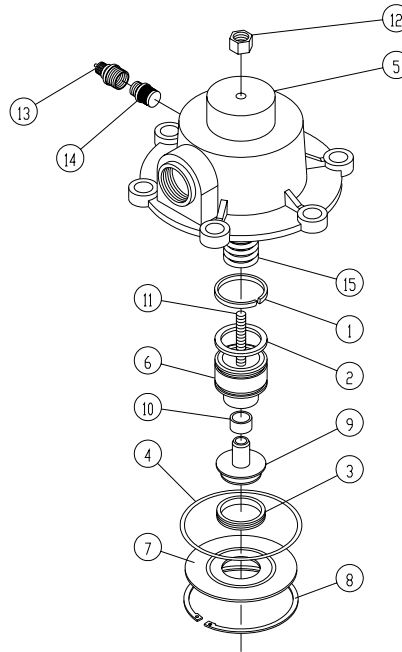
OIL FILTER AND AIR FILTER

Ref. No.	Name of Part	Qty.	Part No.
* 1	OIL FILTER	1	EFC81649209
* 2	AIR FILTER ELEMENT	1	EFC85644309
3	COVER, AIR FILTER	1	EFC03748298
4	BOTTOM PLATE, AIR FILTER	1	EFC03589988

* For Repair, order Routine Maintenance Kit Part Number 300EBA6013, see page 43.

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

341EBA810-A
(Ref. Drawing)

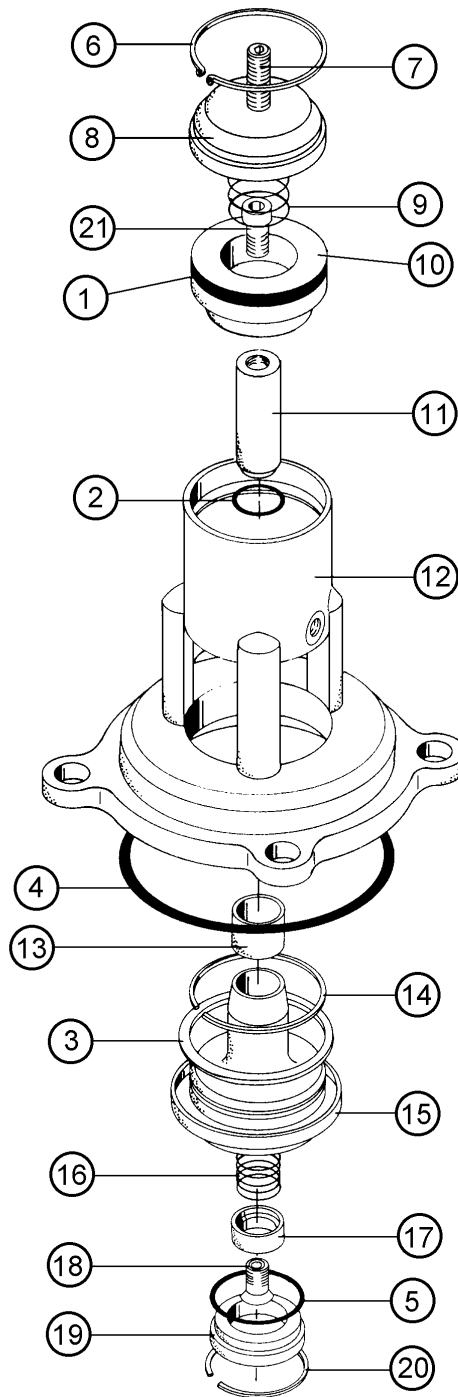


MINIMUM PRESSURE VALVE REPAIR PARTS

Ref. No.	Name of Part	Qty.	Part No.
	MINIMUM PRESSURE/CHECK VALVE ASSEMBLY		EFC03603078
	MINIMUM PRESSURE VALVE SEAL KIT (Includes Reference No.'s 1-4).....		EFC03389270
*	MINIMUM PRESSURE VALVE ASSEMBLY KIT (Includes Reference No.'s 1-4, 10 & 15)		EFC89555599
1	RING	1	
2	PISTON GASKET	1	
3	GASKET.....	1	
4	O-RING	1	
5	FRAME.....	1	
6	PISTON	1	
7	PLATE	1	
8	LOCK RING	1	
9	PLATE.....	1	
10	BEARING.....	1	
11	SCREW.....	1	
12	NUT.....	1	
13	CONNECTOR – T3 MINIMUM PRESSURE VALVE.....	1	EFC03398578
14	FILTER - - T3 MINIMUM PRESSURE VALVE	1	EFC85588619
15	SPRING	1	

* For Repair, see Periodic Maintenance Kit Part Number 301EBA6013, page 43.

INLET VALVE REPAIR PARTS



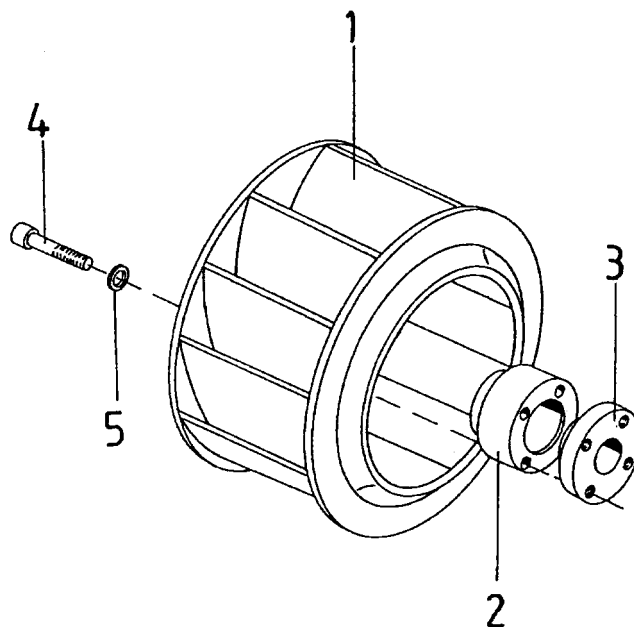
Order by Part Number and Description. Reference Numbers are for your convenience only.

INLET VALVE REPAIR PARTS

Ref. No.	Name of Part	Qty.	Part No.
	INLET VALVE ASSEMBLY		EFC03388708
	INLET VALVE SEAL KIT (Includes Reference No.'s 1-5)		EFC03389010
	* INLET VALVE REPAIR KIT (Includes Reference. No.'s. 1-5, 9, 13, & 16).....		EFC89555189
1	GASKET	1	
2	O-RING	1	
3	GASKET	1	
4	O-RING	1	
5	O-RING	1	
6	LOCK RING	1	
7	SCREW	1	
8	COVER	1	
9	SPRING	1	EFC03397308
10	PISTON	1	
11	PISTON SHAFT	1	
12	FRAME.....	1	
13	BEARING BUSHING	1	
14	RETAINING RING.....	1	
15	PLATE	1	
16	SPRING	1	
17	BEARING BUSHING	1	
18	SCREW	1	
19	PLUG	1	
20	LOCK RING	1	
21	SCREW	1	

* For Repair, see Periodic Maintenance Kit (Inlet Valve) Part Number 301EFA6013, page 43.

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

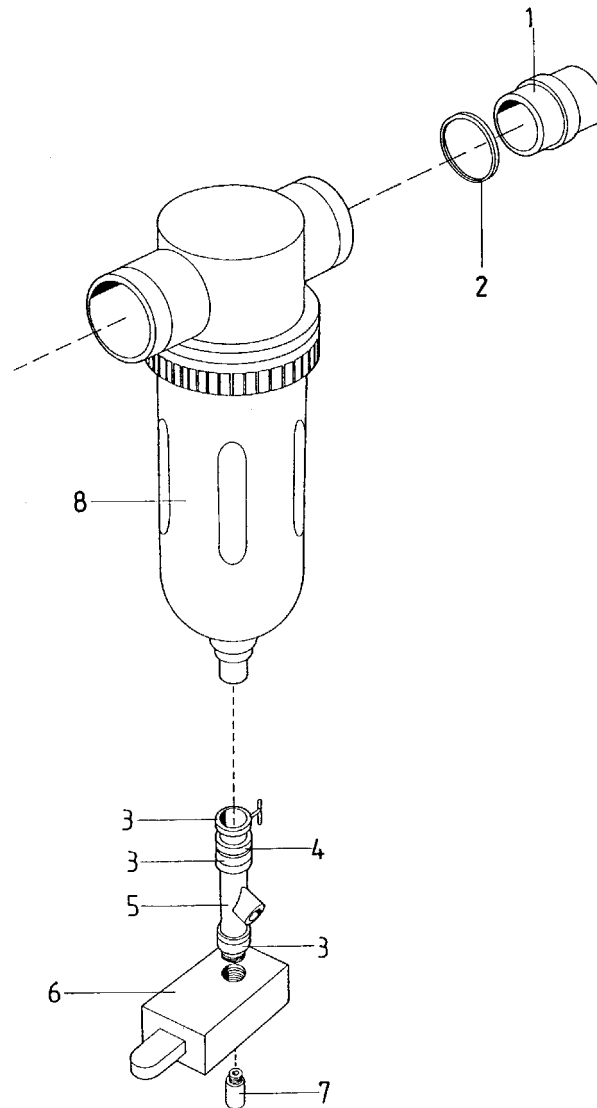


FAN ASSEMBLY

B/M: EFC30993603
EFC30993604

Ref. No.	Name of Part	Qty.	Part No. 5 HP	Part No. 7-1/2 & 10 HP
1	FAN	1	EFC37655901	EFC37655901
2	SPACER	1	EFC30984763	EFC30984764
3	BUSHING-SHEAVE	1	EFC30984893	EFC30984894
4	SCREW	4	EFC44577900	EFC89737729
5	LOCKWASHER	4	EFC85323979	EFC85323979

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

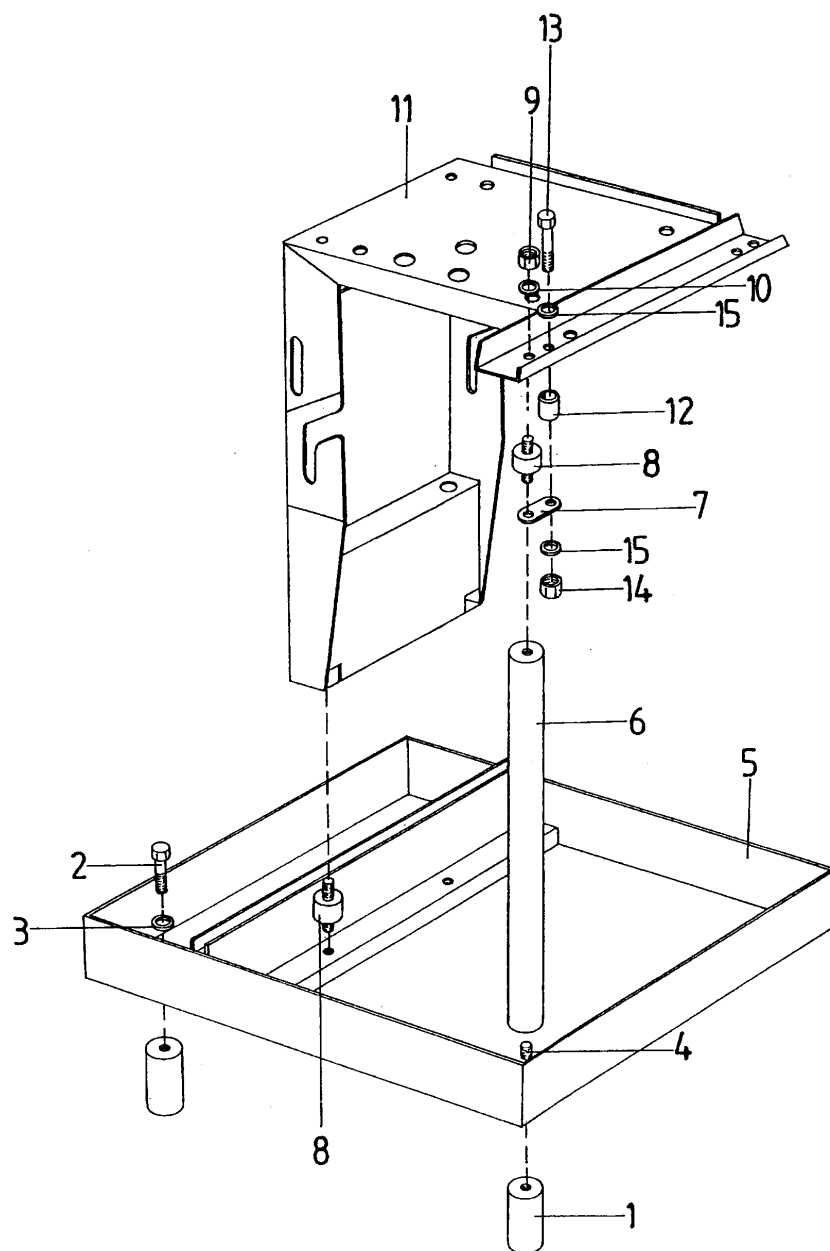


WATER SEPARATOR ASSEMBLY

B/M: EFC30995878

Ref. No.	Name of Part	Qty.	Part No.
1	ADAPTOR	1	EFC81316839
2	GASKET	1	EFC80034819
3	HOSE	3	EFC62540220
4	VALVE	1	EFC81344809
5	STRAINER	1	EFC81862479
6	SOLENOID VALVE	1	EFC87997629
7	CONNECTOR	1	EFC81859669
8	MOISTURE SEPARATOR	1	EFC81743959

MOUNTING GROUP



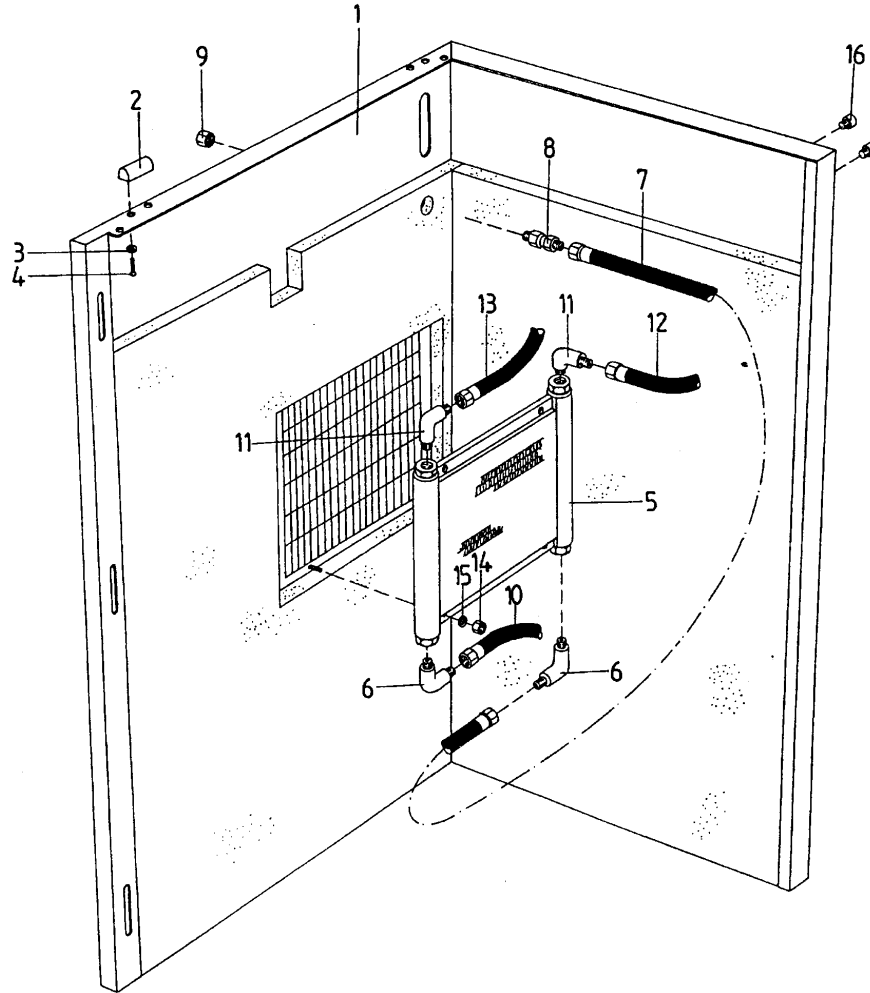
Order by Part Number and Description. Reference Numbers are for your convenience only.

MOUNTING GROUP

B/M: EFC37711501

Ref. No.	Name of Part	Qty.	Part No.
1	POLE.....	4	EFC30978778
2	SCREW.....	2	EFC80043279
3	WASHER.....	2	EFC42118130
4	SCREW.....	2	EFC89737989
5	BASE.....	1	EFC37653328
6	POLE.....	2	EFC30984508
7	SUPPORT.....	2	EFC30988828
8	VIBRATION ISOLATOR.....	4	EFC89737859
9	NUT.....	4	EFC81262269
10	WASHER.....	4	EFC42118130
11	LOCKWASHER.....	2	EFC85106809
12	TUBE.....	2	EFC89733409
13	SCREW.....	2	EFC80052729
14	NUT.....	2	EFC81262269
15	WASHER.....	4	EFC42118130
16	FRAME.....	1	EFC37652988
17	FRAME.....	1	EFC37699008
18	SCREW.....	4	EFC80242159
19	NUT.....	4	EFC80177459
20	WASHER.....	8	EFC42116520
21	WASHER.....	1	EFC30952768
22	WASHER.....	4	EFC30987668
23	SCREW.....	2	EFC80047059
24	CONNECTOR.....	2	EFC30991918
25	BUSHING.....	2	EFC30992088
26	SCREW.....	2	EFC44859320
27	WASHER.....	4	EFC42118130
28	SCREW.....	4	EFC80052729
29	FITTING.....	4	EFC03494138

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

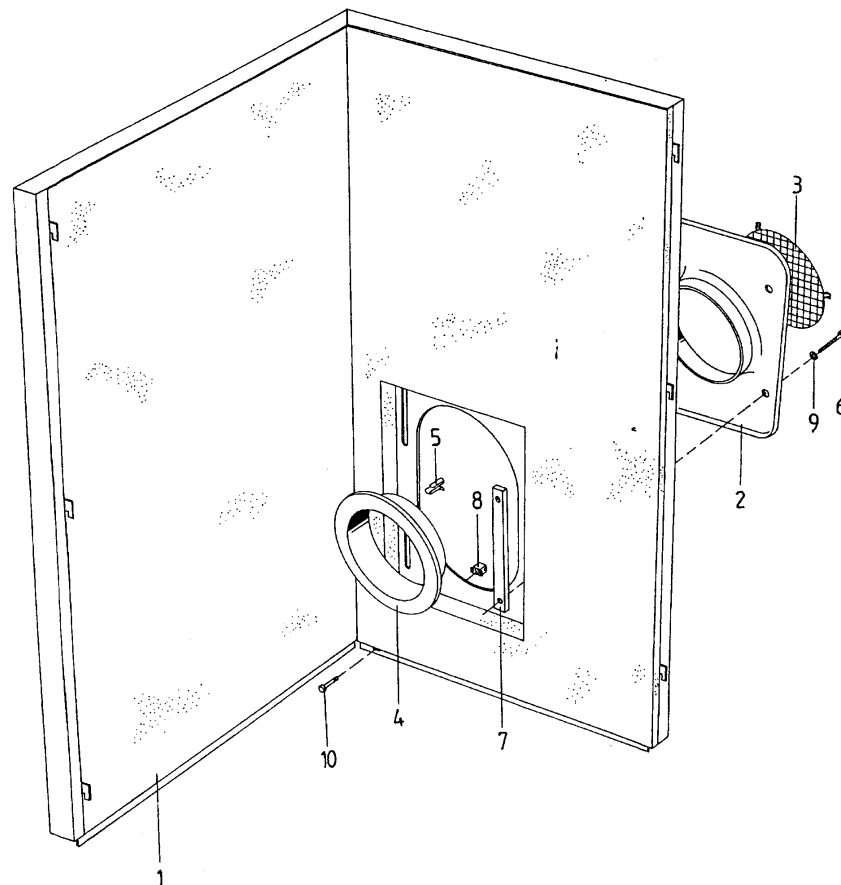


BACK WALL

B/M: EFC37711002

Ref. No.	Name of Part	Qty.	Part No.
1	PLATE COVER	1	EFC03846301
2	HINGE	1	EFC85205779
3	WASHER.....	4	EFC42116520
4	SCREW	4	EFC44710320
5	COOLER	1	EFC89754889
6	ELBOW	2	EFC81266999
7	HOSE	1	EFC89744609
8	BULKHEAD FITTING	1	EFC81129469
9	LOCK NUT	1	EFC81129209
10	HOSE	1	EFC82190939
11	ELBOW	2	EFC80034539
12	HOSE ASSEMBLY	1	EFC86536849
13	HOSE	1	EFC89554999
14	NUT	4	EFC80177459
15	WASHER.....	4	EFC89514729
16	PLUG.....	2	EFC89740669

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

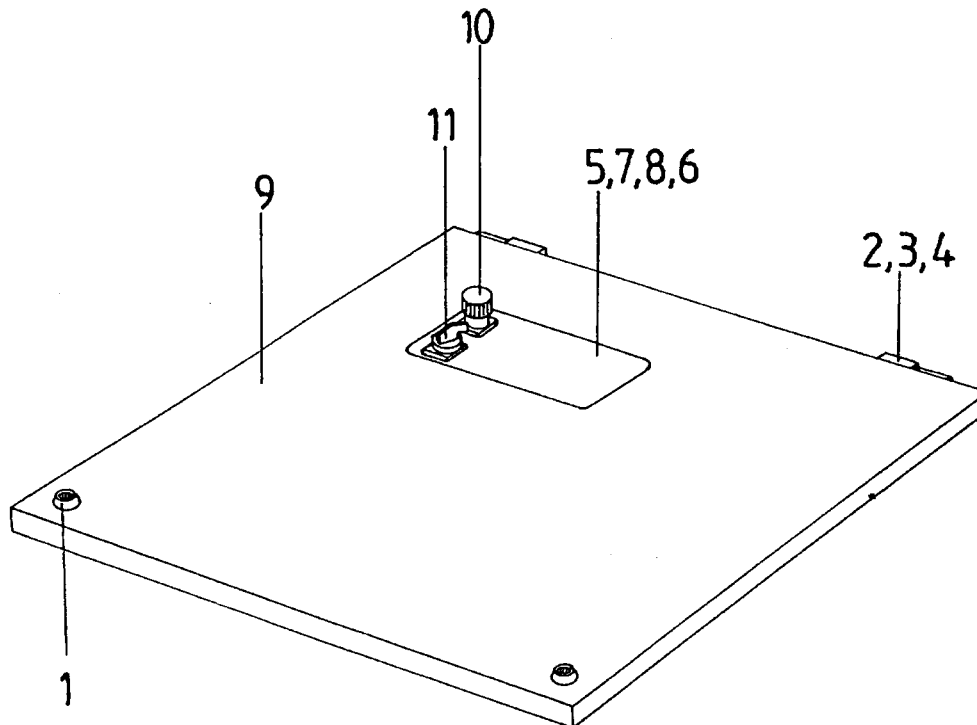


FRONT WALL

B/M: EFC37711302

Ref. No.	Name of Part	Qty.	Part No.
1	PLATE.....	1	EFC03831052
2	GUIDE.....	1	EFC30993118
3	GUARD-FAN	1	EFC30993098
4	ORIFICE-FAN	1	EFC30992928
5	CLIP	3	EFC89737579
6	SCREW.....	4	EFC89740819
7	LOCKWASHER	2	EFC30978648
8	NUT.....	1	EFC89735559
9	WASHER	4	EFC89740949
10	CLIP.....	1	EFC89735429

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

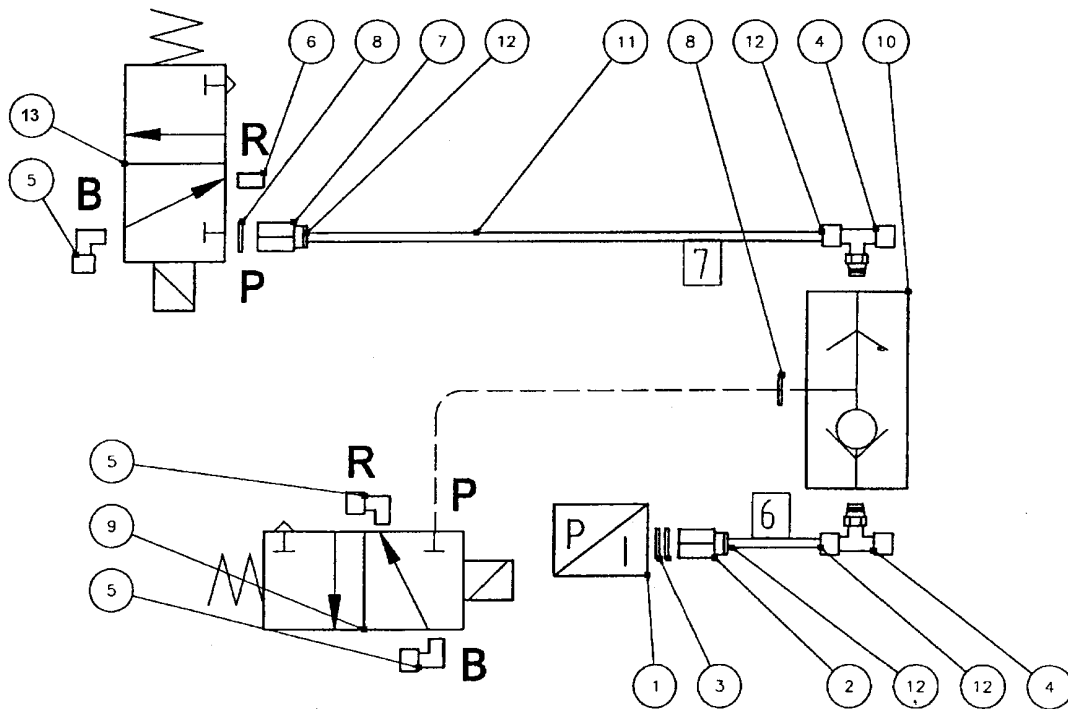


COVER

B/M: EFC37710701

Ref. No.	Name of Part	Qty.	Part No.
1	LATCH	2	EFC89515999
2	HINGE.....	1	EFC85205779
3	WASHER.....	4	EFC42116520
4	SCREW.....	4	EFC44710320
5	ELECTRONIC CONTROLLER (AIRPILOT).....	1	EFC89552289
6	NUT.....	12	EFC80047189
7	NUT.....	6	EFC80177209
8	WASHER	12	EFC42115510
9	ENCLOSURE DOOR.....	1	EFC37654901
10	EMERGENCY STOP.....	1	EFC89528259
11	SWITCH.....	1	EFC89528409

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

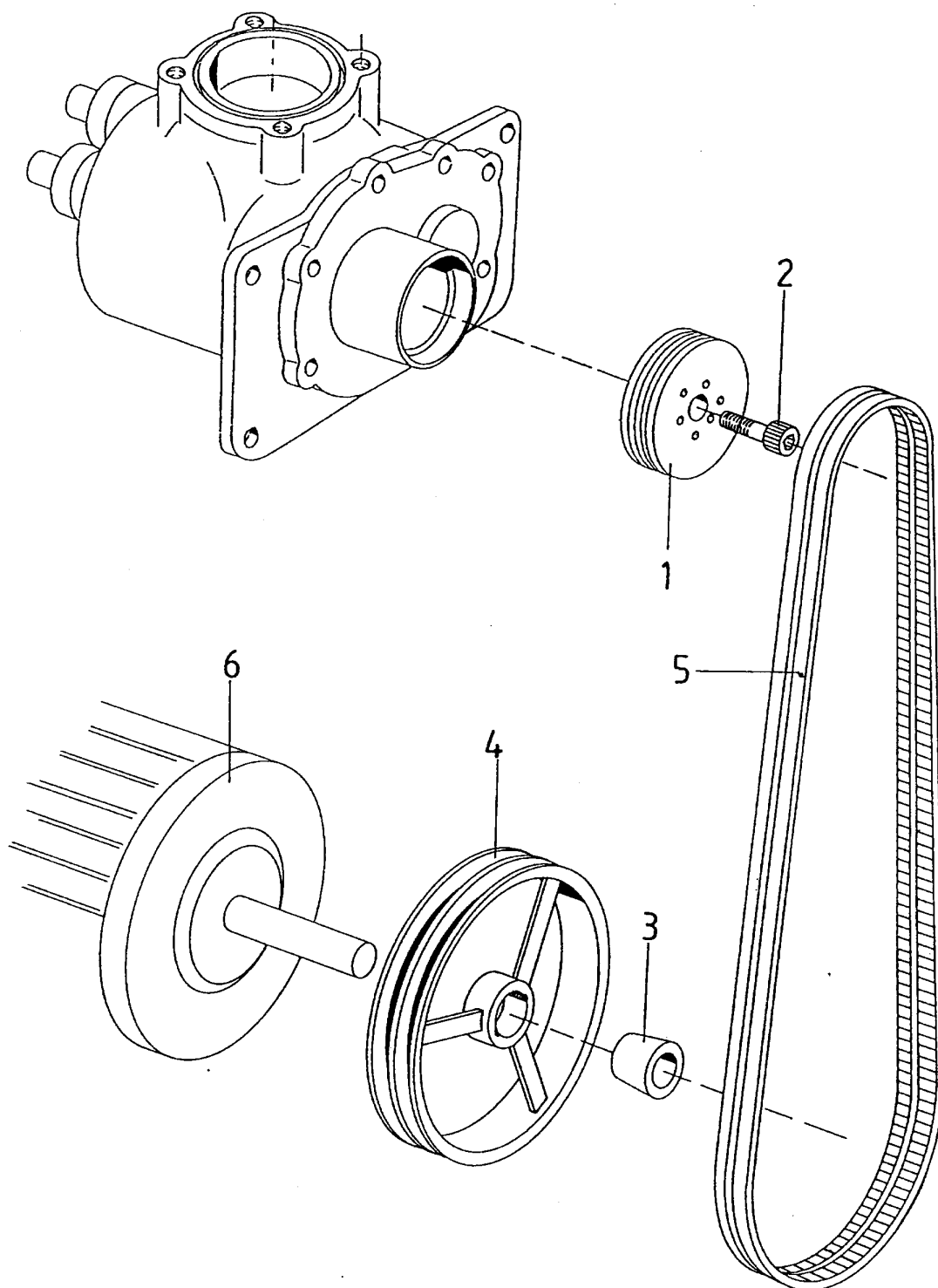


CONTROL MOUNT GROUP

B/M: EFC30618700

Ref. No.	Name of Part	Qty.	Part No.
1	PRESSURE TRANSDUCER	1	EFC89529549
2	CONNECTOR	1	EFC89531889
3	WASHER	2	EFC42118950
4	TUBE TEE	2	EFC81780409
5	ELBOW	3	EFC81744279
6	PLUG	1	EFC80704779
7	CONNECTOR	1	EFC81744429
8	GASKET	2	EFC81356309
9	SOLENOID VALVE (Inlet Valve)	1	EFC87997479
10	VALVE CHECK	1	EFC85838209
11	PLASTIC TUBE	1	EFC85200299
12	CONNECTOR-TUBE	4	EFC89556479
13	SOLENOID VALVE (Blowdown Valve)	1	EFC89698009

DRIVE GROUP – 5, 7-1/2 & 10 HP



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

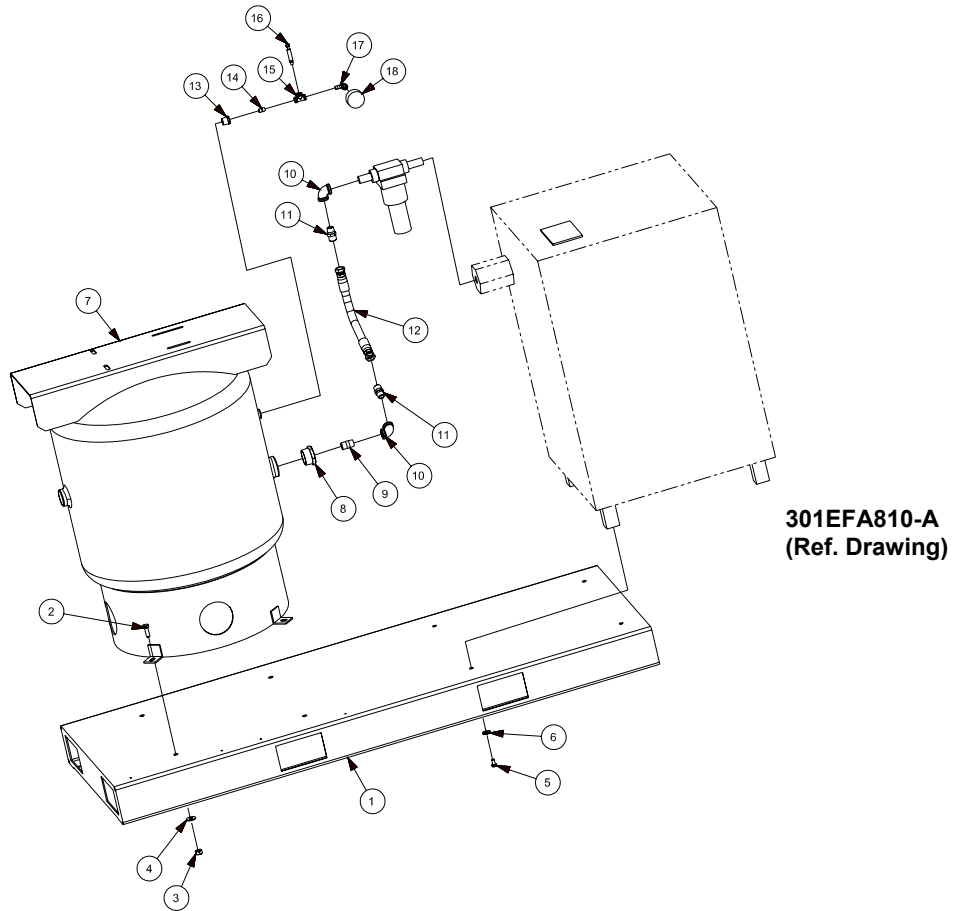
DRIVE GROUPS BY HORSEPOWER AND PRESSURE

Ref. No.	Drive Group 5 HP Name of Part	Qty.	100 PSIG 319EFA4004 Part No.	125 PSIG 320EFA4004 Part No.	150 PSIG 321EFA4004 Part No.	175 PSIG Part No.
1	SHEAVE	1	EFC03383888	EFC03383888	EFC03383888	not available
2	SCREW	1	EFC03378238	EFC03378238	EFC03378238	not available
3	BUSHING	1	EFC89773709	EFC89598809	EFC89598809	not available
4	SHEAVE	1	EFC85443119	EFC85443099	EFC85443099	not available
5	BELT	2	EFC89618089	EFC89614869	EFC89614869	not available
6	MAIN MOTOR	1	See Page 41			not available

Ref. No.	Drive Group 7.5 HP Name of Part	Qty.	100 PSIG 322EFA4004 Part No.	125 PSIG 323EFA4004 Part No.	150 PSIG 324EFA4004 Part No.	175 PSIG 325EFA4004 Part No.
1	SHEAVE	1	EFC03383888	EFC03383888	EFC03383888	EFC03383888
2	SCREW	1	EFC03378238	EFC03378238	EFC03378238	EFC03378238
3	BUSHING	1	EFC89519369	EFC89519369	EFC89519369	EFC89519369
4	SHEAVE	1	EFC89699959	EFC85440509	EFC89616479	EFC89616349
5	BELT	2	EFC85437669	EFC89609069	EFC89608909	EFC89618089
6	MAIN MOTOR	1	See Page 41			

Ref. No.	Drive Group 10 HP Name of Part	Qty.	100 PSIG 326EFA4004 Part No.	125 PSIG 327EFA4004 Part No.	150 PSIG 328EFA4004 Part No.	175 PSIG 329EFA4004 Part No.
1	SHEAVE	1	EFC03383758	EFC03383758	EFC03383758	EFC03383758
2	SCREW	1	EFC03378238	EFC03378238	EFC03378238	EFC03378238
3	BUSHING	1	EFC89519369	EFC89519369	EFC89519369	EFC89519369
4	SHEAVE	1	EFC89737169	EFC89699959	EFC89608749	EFC85440509
5	BELT	2	EFC85437669	EFC89609199	EFC89609069	EFC89608909
6	MAIN MOTOR	1	See Page 41`			

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

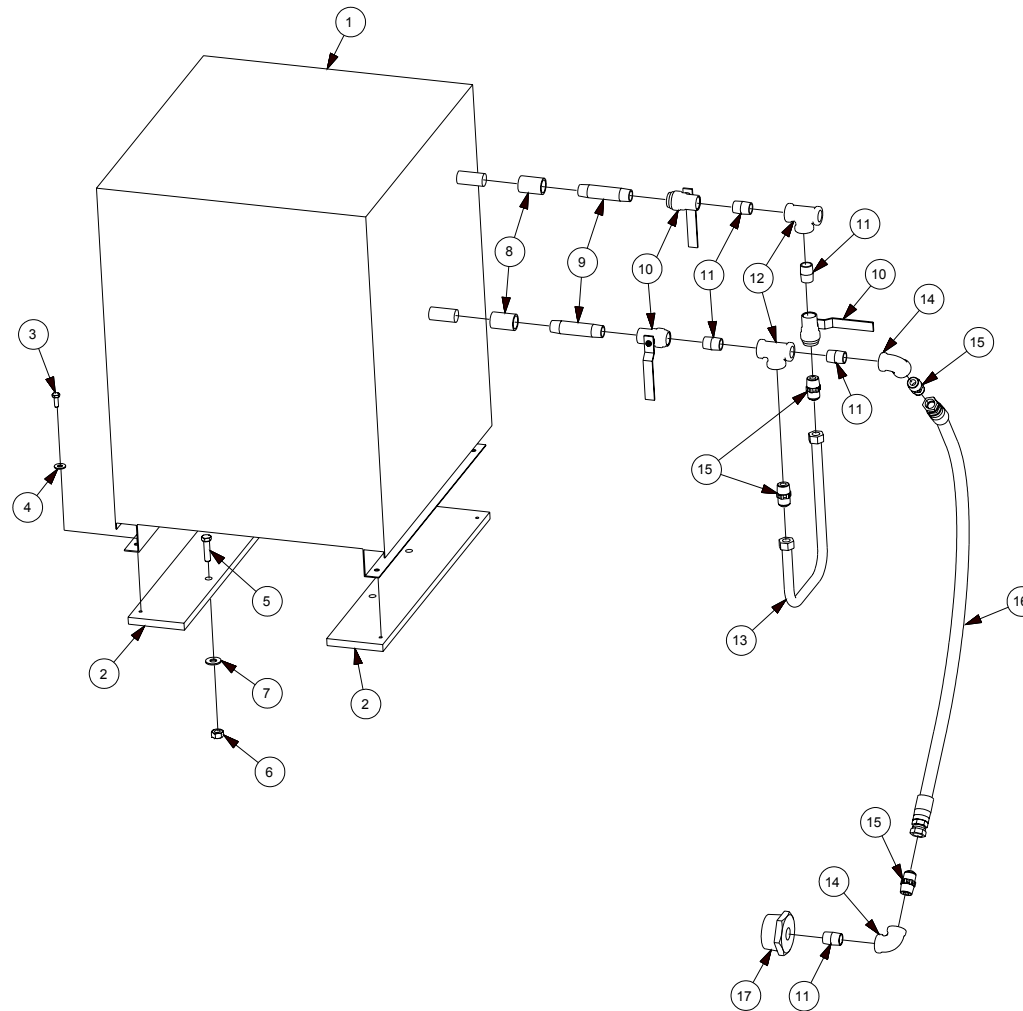


BASE AND AIR RECEIVER

B/M: 300EFA4017

Ref. No.	Name of Part	Qty.	Part No.
1	AIR RECEIVER BASE	1	300EFA285
2	SCREW	4	655EE060
3	NUT	4	50B5
4	WASHER	4	95A5
5	SCREW (METRIC).....	4	665HMCA100200
6	WASHER	4	670FPSR100
7	AIR RECEIVER.....	1	300EFA645
8	PIPE BUSHING.....	1	64E9
9	NIPPLE.....	1	63G1G
10	ELBOW	2	64C5G
11	TUBE CONNECTOR	2	86H137
12	HOSE	1	300EFA127
13	PIPE BUSHING.....	1	64E3
14	NIPPLE.....	1	63D1G
15	TEE	1	64G3G
16	PRESSURE RELIEF VALVE	1	90AR657
17	ELBOW	1	64D2G
18	GAUGE	1	27P196

DRYER ASSEMBLY LESS COLD COALESCER LESS AFTERFILTER



302EFA810-A
(Ref. Drawing)

See Pages 24 & 25

DRYER LESS COLD COALESCER, LESS AFTERFILTER

Ref. No.	Name of Part	Qty.	25 Dryer B/M: 300EFA4019	35 Dryer B/M: 303EFA4019	50 Dryer B/M: 306EFA4019	75 Dryer B/M: 304EFC4019
* 1	AIR DRYER.....	1	300EFA463	302EFA463	304EFC463	300EFC463
2	BRACKET.....	2	300EFA142	300EFA142	305EFC142	305EFC142
3	SCREW	4	655EC030	655EC030	655EC030	655EC030
4	WASHER.....	4	95A1	95A1	95A1	95A1
5	SCREW	4	655ED060	655ED060	655ED060	655ED060
6	NUT	4	50B3	50B3	50B3	50B3
7	WASHER.....	4	95A3	95A3	95A3	95A3
8	COUPLING.....	2	64AB17	64AB17	64AB17	64AB18
9	NIPPLE.....	2	63F5G	63F5G	63G5G	63G15G
10	BALL VALVE	3	90AR360	90AR360	90AR360	90AR361
11	NIPPLE.....	5	63F21G	63F21G	63G21G	63G1G
12	PIPE TEE	2	64G6G	64G6G	64G6G	64G7G
13	TUBE WITH FITTING.....	1	300EFA863	300EFA863	300EFB863	305EFC863
14	ELBOW.....	2	64C4G	64C4G	64C4G	64C5G
15	TUBE CONNECTOR.....	4	86H139	86H139	86H139	86H137
16	HOSE	1	301EFA127	301EFA127	301EFC127	306EFC127
17	PIPE BUSHING.....	1	64E29	64E29	64E29	64E9

See page 23 for Drawing Assembly.

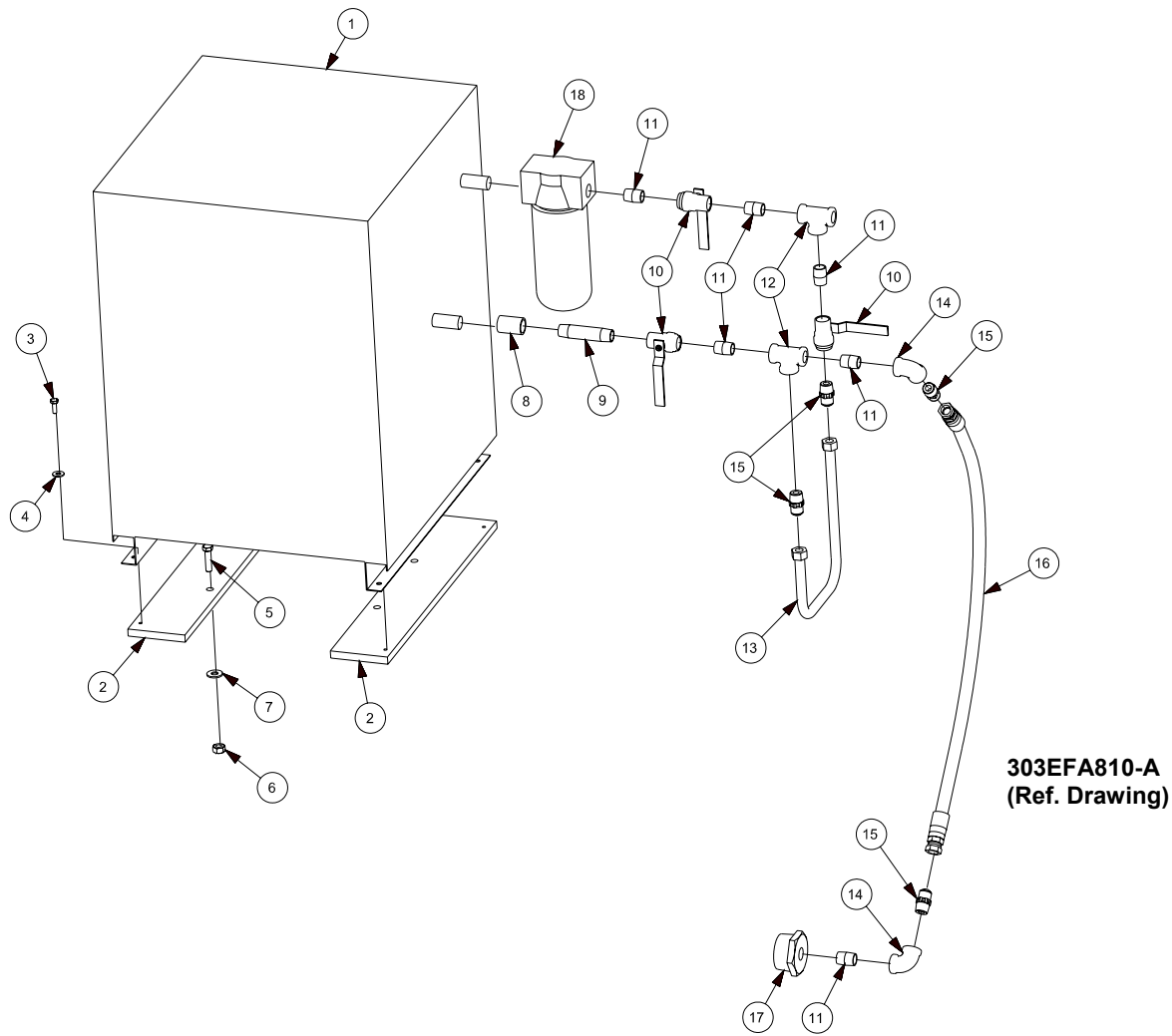
Order by Part Number and Description. Reference Numbers are for your convenience only.

DRYER WITH COLD COALESCER, LESS AFTERFILTER

Ref. No.	Name of Part	Qty.	25 Dryer B/M: 301EFA4019	35 Dryer B/M: 304EFA4019	50 Dryer B/M: 307EFA4019	75 Dryer B/M: 305EFC4019
* 1	AIR DRYER.....	1	301EFA463	303EFA463	305EFA463	301EFC463
2	BRACKET.....	2	300EFA142	300EFA142	300EFA142	305EFC142
3	SCREW	4	655EC030	655EC030	655EC030	655EC030
4	WASHER.....	4	95A1	95A1	95A1	95A1
5	SCREW	4	655ED060	655ED060	655ED060	655ED060
6	NUT	4	50B3	50B3	50B3	50B3
7	WASHER.....	4	95A3	95A3	95A3	95A3
8	COUPLING.....	2	64AB17	64AB17	64AB17	64AB18
9	NIPPLE.....	2	63F5G	63F5G	63F5G	63G15G
10	BALL VALVE	3	90AR360	90AR360	90AR360	90AR361
11	NIPPLE.....	5	63F21G	63F21G	63F21G	63G1G
12	PIPE TEE	2	64G6G	64G6G	64G6G	64G7G
13	TUBE WITH FITTING.....	1	300EFA863	300EFA863	300EFA863	305EFC863
14	ELBOW.....	2	64C4G	64C4G	64C4G	64C5G
15	TUBE CONNECTOR.....	4	86H139	86H139	86H139	86H137
16	HOSE	1	301EFA127	301EFA127	301EFA127	306EFC127
17	PIPE BUSHING.....	1	64E29	64E29	64E29	64E9

See page 23 for Drawing Assembly.

DRYER ASSEMBLY WITH COLD COALESCER WITH AFTERFILTER



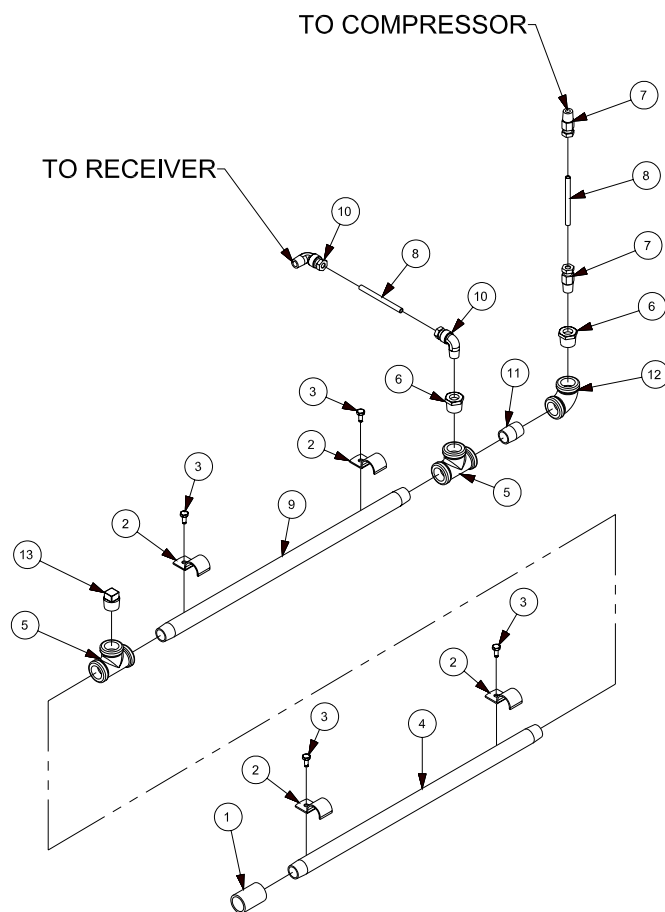
Order by Part Number and Description. Reference Numbers are for your convenience only

DRYER ASSEMBLY WITH COLD COALESCER WITH AFTERFILTER

Ref. No.	Name of Part	Qty.	25 Dryer B/M: 301EFA4019	35 Dryer B/M: 304EFA4019	50 Dryer B/M: 307EFA4019	75 Dryer B/M: 305EFC4019
* 1	AIR DRYER.....	1	301EFA463	303EFA463	305EFA463	301EFC463
2	BRACKET.....	2	300EFA142	300EFA142	300EFA142	305EFC142
3	SCREW	4	655EC030	655EC030	655EC030	655EC030
4	WASHER.....	4	95A1	95A1	95A1	95A1
5	SCREW	4	655ED060	655ED060	655ED060	655ED060
6	NUT	4	50B3	50B3	50B3	50B3
7	WASHER.....	4	95A3	95A3	95A3	95A3
8	COUPLING.....	1	64AB17	64AB17	64AB17	64AB18
9	NIPPLE.....	1	63F5G	63F5G	63F5G	63G15G
10	BALL VALVE	3	90AR360	90AR360	90AR360	90AR361
11	NIPPLE.....	6	63F21G	63F21G	63F21G	63G1G
12	PIPE TEE	2	64G6G	64G6G	64G6G	64G7G
13	TUBE WITH FITTING.....	2	300EFA863	300EFA863	300EFA863	305EFC863
14	ELBOW.....	2	64C4G	64C4G	64C4G	64C5G
15	TUBE CONNECTOR.....	4	86H139	86H139	86H139	86H137
16	HOSE	1	301EFA127	301EFA127	301EFA127	306EFC127
17	PIPE BUSHING.....	1	64E29	64E29	64E29	64E9
18	AFTERFILTER	1	300EFA784	300EFA784	301EFA784	300EFC784

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

306EFA810-A
(Ref. Drawing)

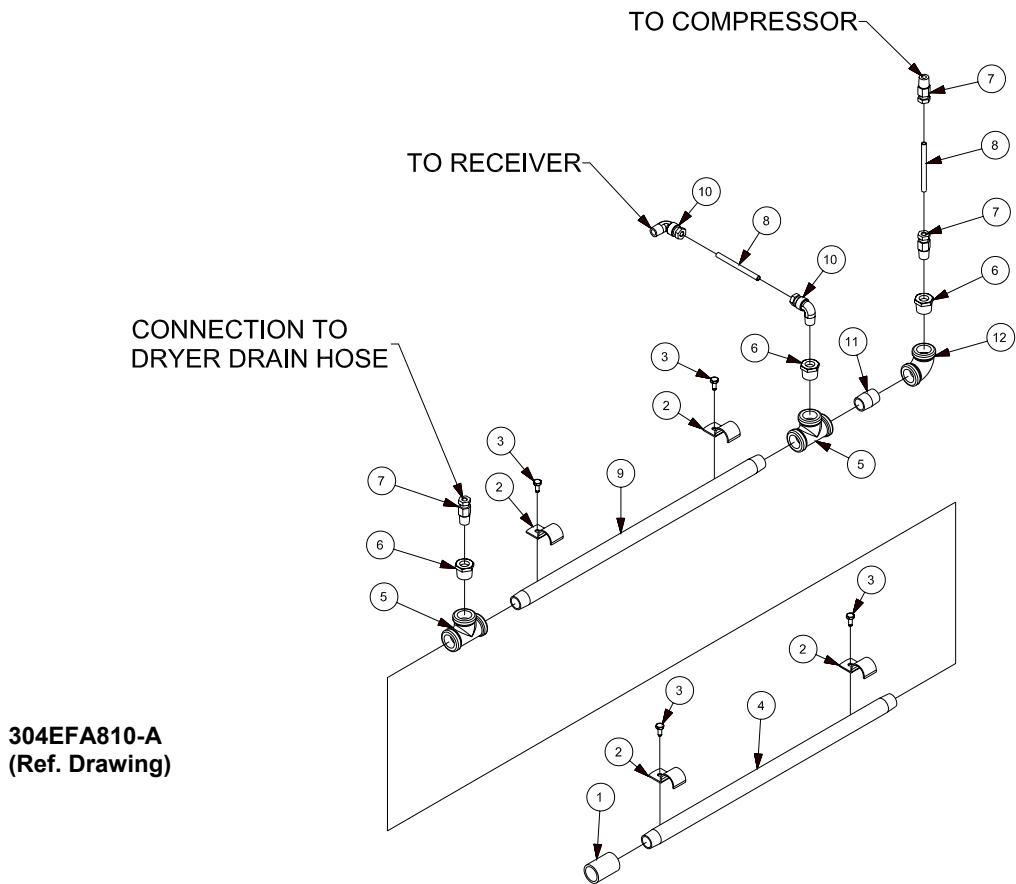


MOISTURE DRAIN WITH TWO CONNECTIONS

B/M: 311EFA4019

Ref. No.	Name of Part	Qty.	Part No.
1	COUPLING	1	64AB17
2	CLAMP	4	98H3
3	SCREW	4	75LM215
4	NIPPLE.....	1	63N8X180G
5	TEE	2	64G6G
6	PIPE BUSHING.....	2	64E2
7	TUBE CONNECTOR	2	86E4
8	TUBE (IN FEET)	8	85G3
9	NIPPLE.....	1	63N8X180G
10	ELBOW	2	86E60
11	NIPPLE.....	1	63F21G
12	ELBOW	1	64C4G
13	PLUG.....	1	64AA7

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

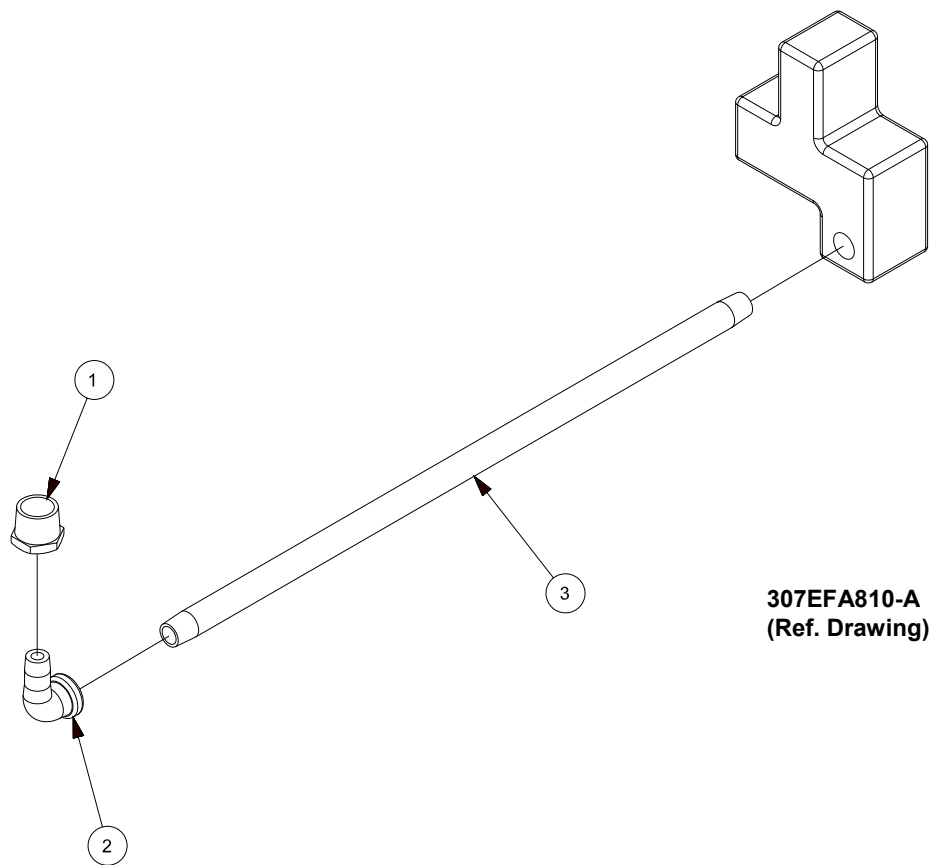


MOISTURE DRAIN WITH THREE CONNECTIONS

B/M: 309EFA4019

Ref. No.	Name of Part	Qty.	Part No.
1	COUPLING	1	64AB17
2	CLAMP	4	98H3
3	SCREW	4	75LM215
4	NIPPLE.....	1	63N8X180G
5	TEE	2	64G6G
6	PIPE BUSHING.....	3	64E2G
7	TUBE CONNECTOR	4	86E4
8	TUBE (IN FEET)	12	85G3
9	NIPPLE.....	1	63N8X180G
10	ELBOW	2	86E60
11	NIPPLE.....	1	63F21G
12	ELBOW	1	64C4G

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

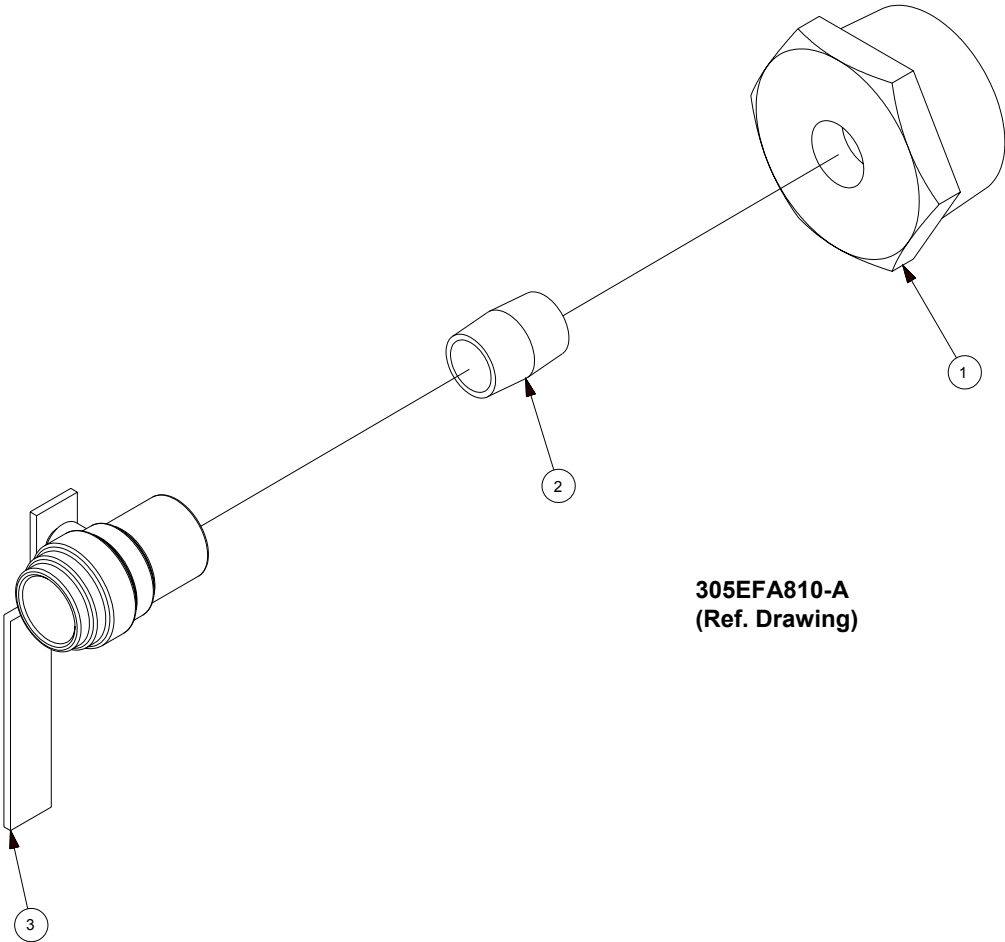


AIR RECEIVER AUTOMATIC DRAIN ASSEMBLY

B/M: 312EFA4019

Ref. No.	Name of Part	Qty.	Part No.
1	PIPE BUSHING.....	1	64E2
2	ELBOW	1	64D2G
3	NIPPLE.....	1	63N4X180G
4	TRAP.....	1	300EFA209

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



AIR DISCHARGE WITH BALL VALVE

B/M: 310EFA4019			
Ref. No.	Name of Part	Qty.	Part No.
1	PIPE BUSHING.....	1	64E29
2	NIPPLE.....	1	63F21G
3	BALL VALVE.....	1	90AR360

APPLICATION CHART FOR DRYERS

HP	PSI	WITH DRYER	WITH HI-TEMP DRYER	WITH DRYER WITH COLD COALESCER	WITH HI-TEMP DRYER WITH COLD COALESCER
5	100	300EFA463	302EFC463	301EFA463	303EFA463
	125	300EFA463	302EFC463	301EFA463	303EFA463
	150	300EFA463	302EFA463	301EFA463	303EFA463
7.5	100	302EFC463	304EFA463	303EFA463	305EFA463
	125	302EFC463	304EFA463	303EFA463	305EFA463
	150	302EFA463	304EFA463	303EFA463	305EFA463
	175	300EFA463	302EFA463	301EFA463	303EFA463
10	100	304EFA463	300EFC463	305EFA463	301EFC463
	125	304EFA463	300EFC463	305EFA463	301EFC463
	150	302EFA463	304EFA463	303EFA463	305EFA463
	175	302EFA463	304EFA463	303EFA463	305EFA463

111112113114115116117118119120121122123124125126127128

A
B
C
D
E
F
G
H
J
K
L
M
N
P
R
S
T
U

a
b
c
d
e
f
g
h
i
j
k
l
m
n
p
r
s
t
u

Customer's supply

V	HP	Type	Set value
200-208V	5	LRD-21	16.3 A
	7.5	LRD-32	24.9 A
	10	LRD-32	31.7 A
230V	5	LRD-21	14.2 A
	7.5	LRD-22	21.7 A
	10	LRD-32	27.6 A
460V	5	LRD-12	7.6 A
	7.5	LRD-14	10.8 A
	10	LRD-21	13.8 A
575V	5	LRD-12	5.7 A
	7.5	LRD-14	8.7 A
	10	LRD-16	11 A

Motor of the compressor

Transformer connection for 200 - 460 V

200-208V/115V

230V/115V

460V/115V

Motor connection

200-208 V			230 V			460 V			575 V		
L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
6	4	5	1	2	3	1	2	3	6	4	5
1	2	3	12	10	11	12	10	11	1	2	3
			7	8	5	7	5	8			
			6	4	9	6	9	4			
Type	A		Type	A		Type	A		Type	A	
5 HP	184T	13.7 A	5 HP	184T	12.4 A	5 HP	184T	6.2 A	5 HP	184T	5 A
7.5 HP	213T	22 A	7.5 HP	213T	20 A	7.5 HP	213T	10 A	7.5 HP	213T	8 A
10 HP	215T	28 A	10 HP	215T	25 A	10 HP	215T	12.5 A	10 HP	215T	10 A

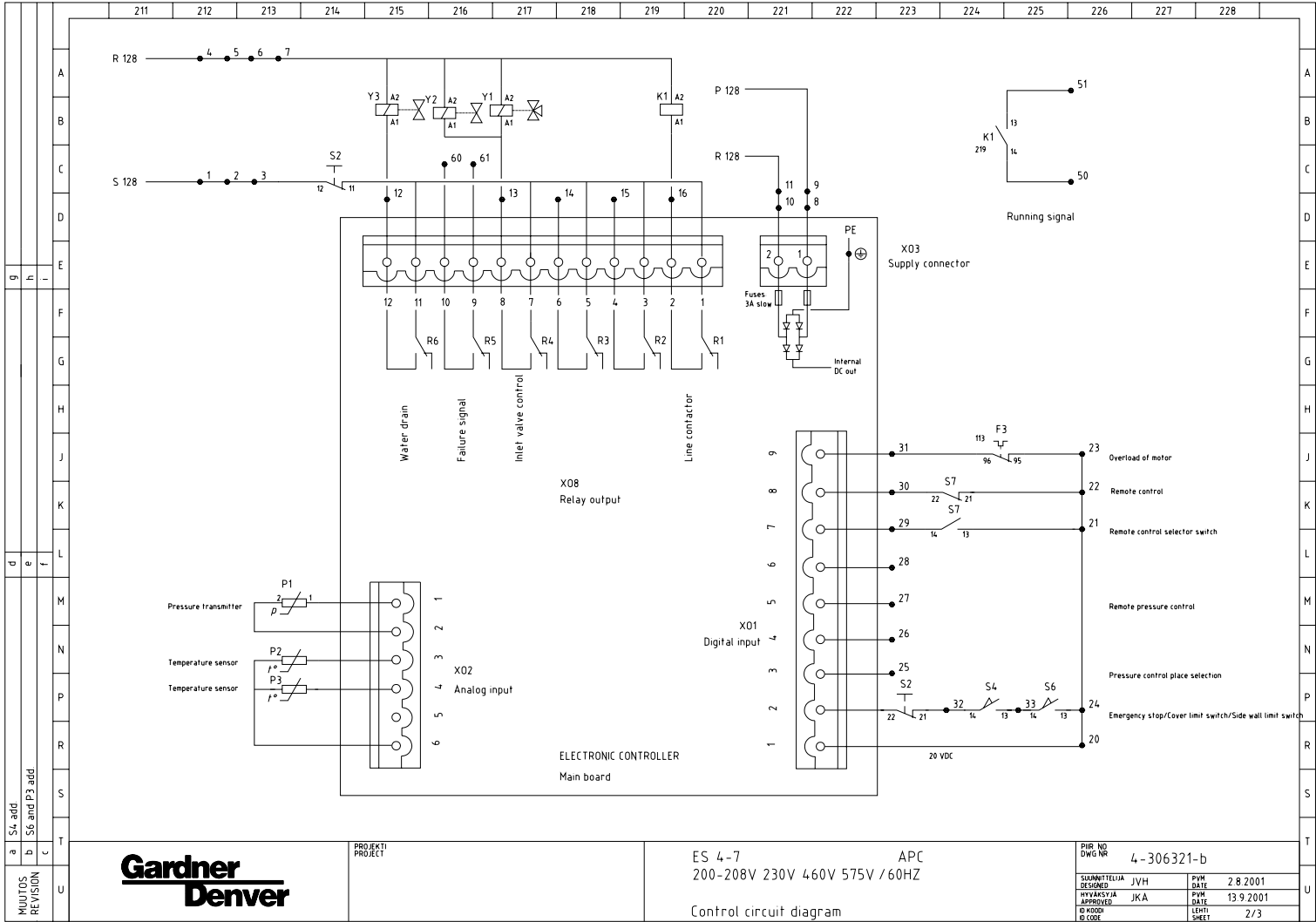
Control

ES 4-7 APC
200-208V 230V 460V 575V / 60HZ

Main circuit diagram

PIR No DWG NR		4-306321-b	
SUUNNITELIJÄ DESIGNED	JVH	PYM DATE	2.8.2001
HYVAKSYYTÄ APPROVED	JKA	PYM DATE	13.9.2001
© KOODI © CODE		LEHTI SHEET	1/3

WIRING DIAGRAM – 3 PHASE, 200-575 VOLT



311312313314315316317318319320321322323324325326327328

g

h

i

j

k

l

m

n

o

p

q

r

s

t

u

a S4 add

b S6 and P3 add

c

Electricity supply ↓

S2

S7

ES 4-7 APC

200-208V 230V 460V 575V / 60HZ

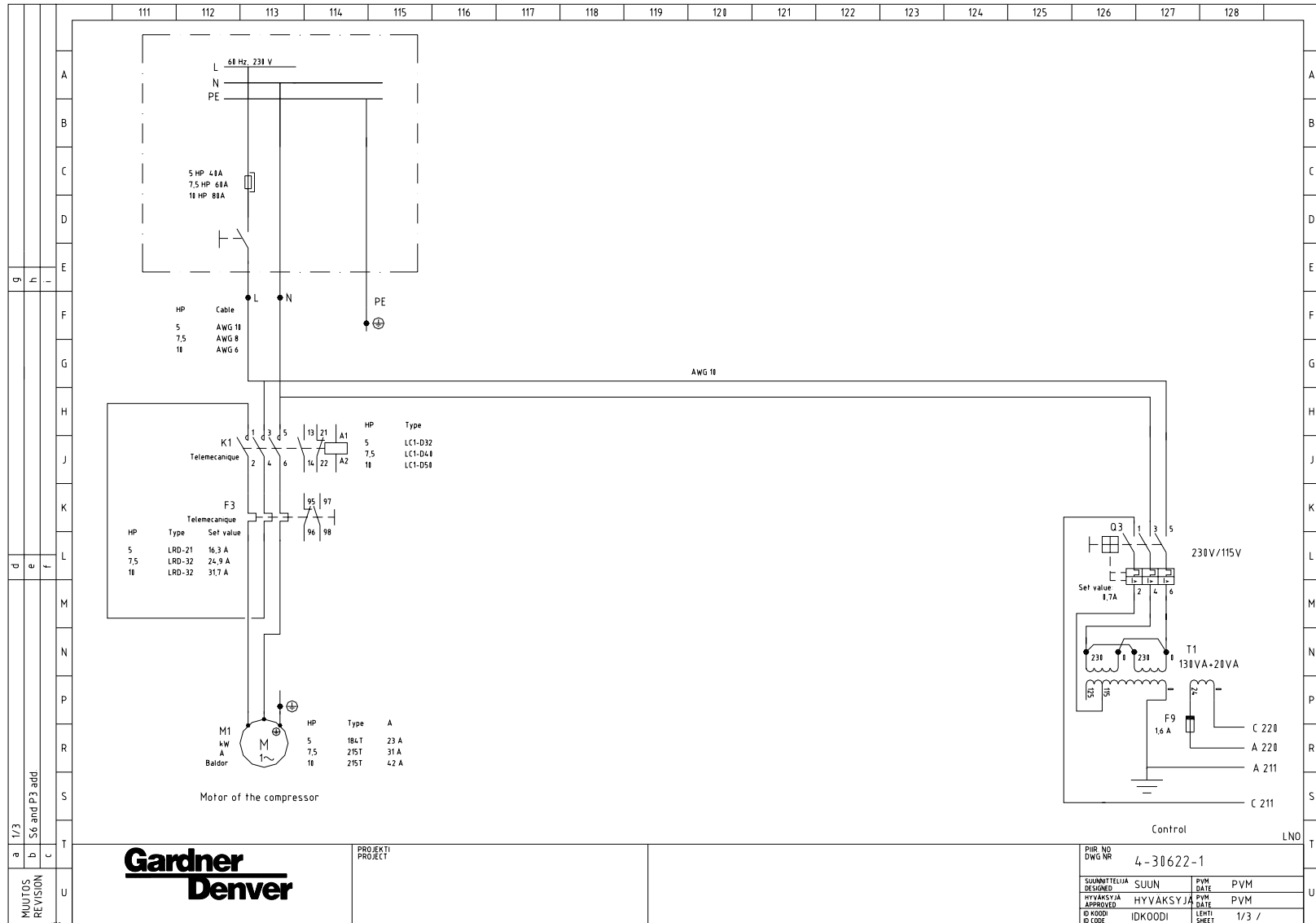
Component layout

PIR NO DWG NR		4-306321-b	
SKUUNNITTELIJA DESIGNED	JVH	PYM DATE	2 8 2001
HYVAKSTYKKA APPROVED	JKA	PYM DATE	13 9 2001
ID KODI ID CODE		LEHTI SHEET	3 / 3

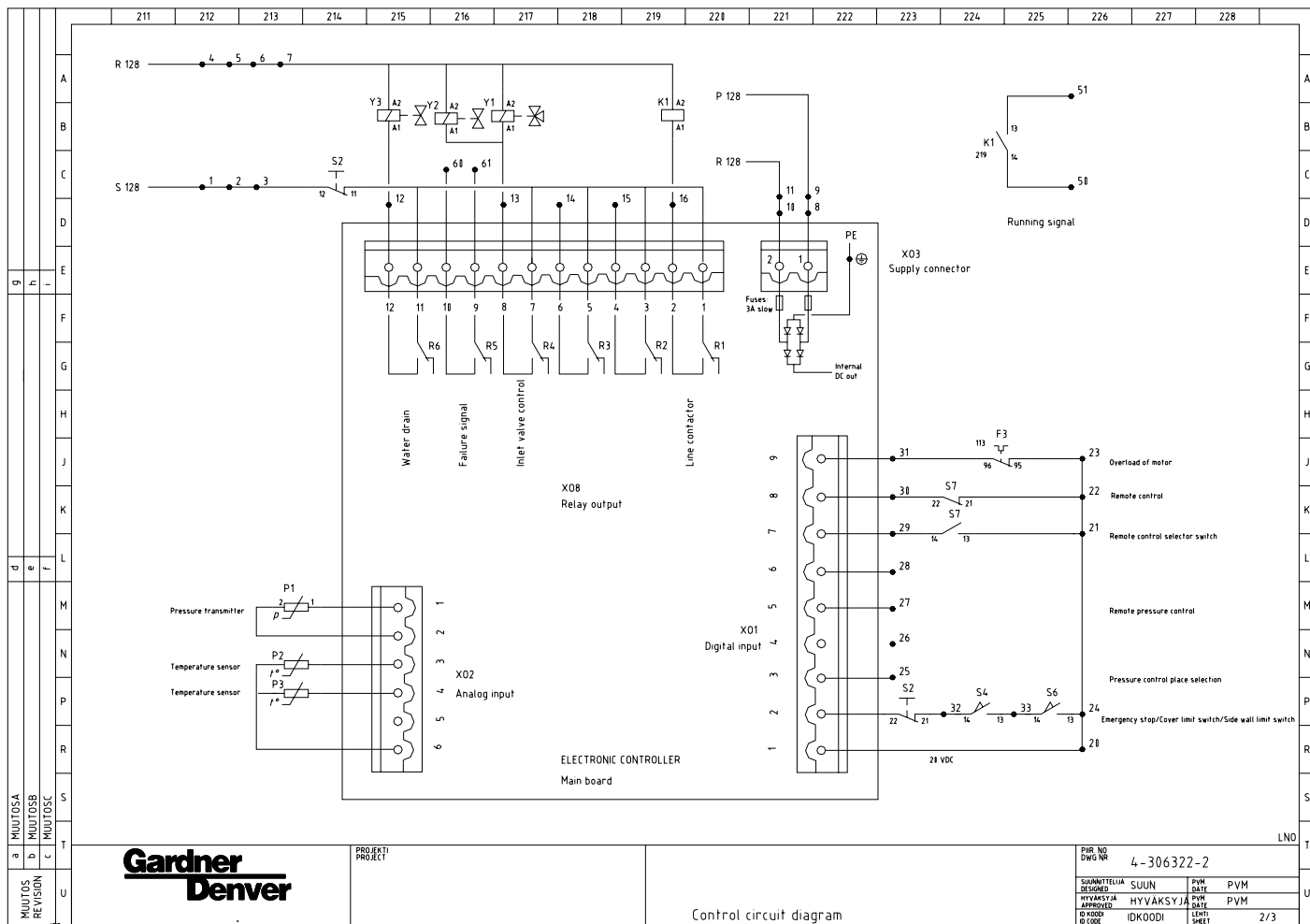
CONTROL BOX - EFA
5-10 HP, 3 PHASE, 200, 230, 460, 575 VOLT

Item No.	Description	Qty.	B/M: 300EFA466 Part No.
L1, L2, L3	TERMINAL	3	EFC89776449
PE	TERMINAL	2	EFC89776579
K1	CONTACTOR	1	EFC89775309
S2	EMERGENCY STOP	1	EFC89760909
S2	EMERGENCY STOP	1	EFC89762509
S5	VACUUM SWITCH	1	EFC85196699
S7	SELECTOR SWITCH	1	EFC89761069
S7	SELECTOR SWITCH	1	EFC89762639
T1	TRANSFORMER	1	EFC89618109
F3	OVERLOAD RELAY	1	EFC89776039
F9	FUSE.....	1	EFC89760749
F9	FUSE HOLDER	1	EFC89724649
Y1	SOLENOID VALVE (Inlet Valve).....	1	EFC87997479
Y2	SOLENOID VALVE (Blowdown and Purge Air).....	1	EFC89698009
Y3	SOLENOID VALVE (Moisture Separator).....	1	EFC87997629
P1	PRESSURE TRANSDUCER	1	EFC89529549
P2	TEMPERATURE SENSOR.....	2	EFC89529679
X1	TERMINAL BLOCKS	32	EFC81623739
X2	TERMINAL BLOCKS	3	EFC89589899
X03	PCB SWITCH TERMINAL	1	EFC89527529
X02	PCB SWITCH TERMINAL	1	EFC89527789
X01	PCB SWITCH TERMINAL	1	EFC89527809
X08	PCB SWITCH TERMINAL	1	EFC89569429
S4	COVER LIMIT SWITCH.....	1	EFC89779509
S6	SIDE WALL LIMIT SWITCH	1	EFC89785209
	ELECTRONIC CONTROLLER	1	EFC89552289
Q3	CIRCUIT BREAKER	1	EFC89544689

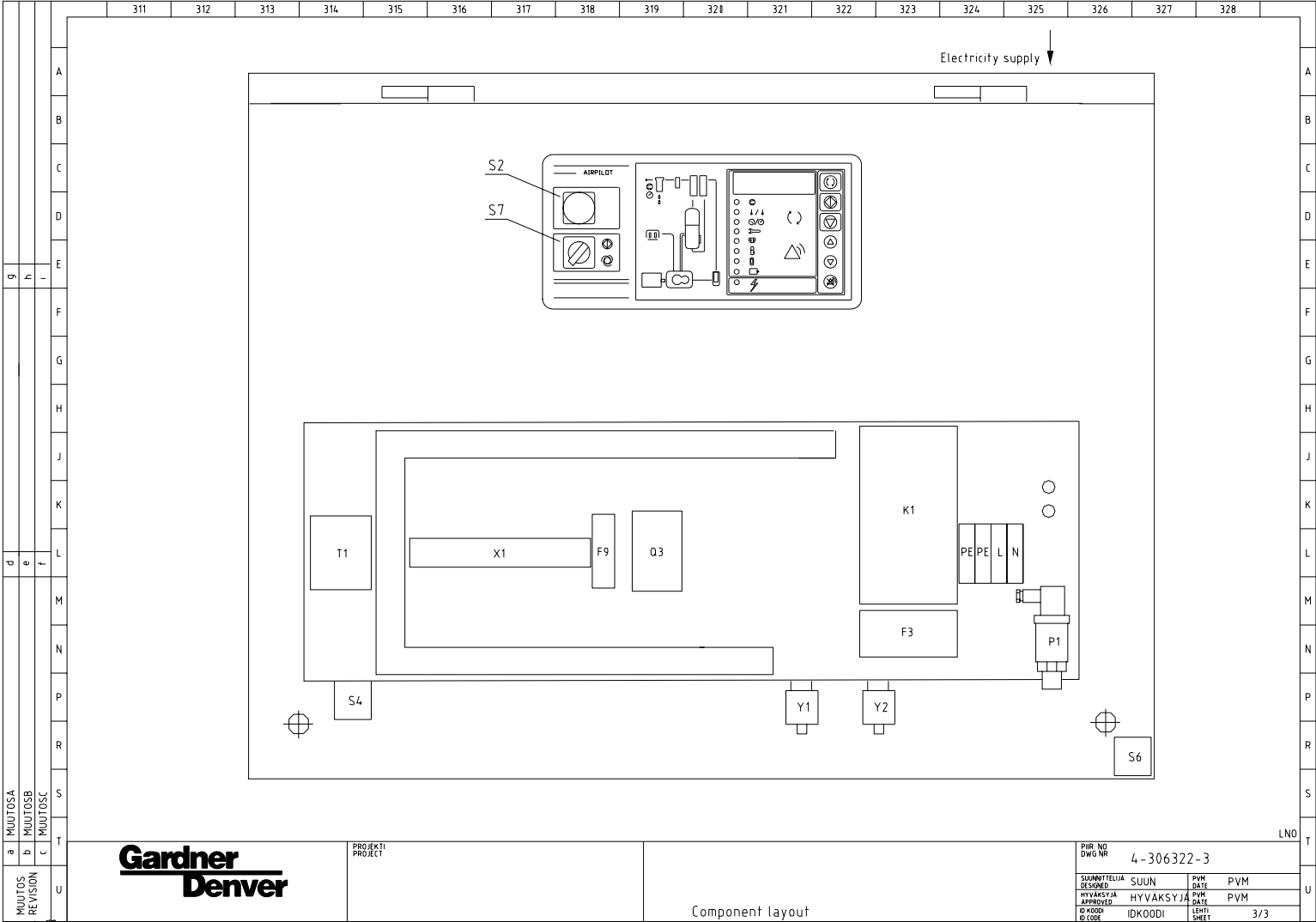
WIRING DIAGRAM – 1 PHASE, 230 VOLT



WIRING DIAGRAM – 1 PHASE, 230 VOLT



WIRING DIAGRAM – 1 PHASE, 230 VOLT



CONTROL BOX - EFA
5 & 7.5 HP, 1 PHASE, 230 VOLT

Item No.	Description	Qty.	B/M: 301EFA466 Part No. 5 HP	B/M: 302EFA466 Part No. 7.5 HP
L	TERMINAL	3	EFC89776449	EFC89776449
PE	TERMINAL	1	EFC89776579	EFC89776579
K1	CONTACTOR	1	EFC89775309	EFC89775309
S2	EMERGENCY STOP	1	EFC89760909	EFC89760909
S2	EMERGENCY STOP	1	EFC89762509	EFC89762509
S5	VACUUM SWITCH	1	EFC85196699	EFC85196699
S7	SELECTOR SWITCH	1	EFC89761069	EFC89761069
S7	SELECTOR SWITCH	1	EFC89762639	EFC89762639
T1	TRANSFORMER	1	EFC89618109	EFC89618109
F3	OVERLOAD RELAY	1	EFC89502409	EFC89502409
F9	FUSE.....	1	EFC89760749	EFC89760749
F9	FUSE HOLDER	1	EFC89724649	EFC89724649
Y1	SOLENOID VALVE (Inlet Valve).....	1	EFC87997479	EFC87997479
Y2	SOLENOID VALVE (Blowdown and Purge Air)....	1	EFC89698009	EFC89698009
Y3	SOLENOID VALVE (Moisture Separator).....	1	EFC87997629	EFC87997629
P1	PRESSURE TRANSDUCER	1	EFC89529549	EFC89529549
P2	TEMPERATURE SENSOR.....	2	EFC89529679	EFC89529679
X1	TERMINAL BLOCKS	32	EFC81623739	EFC81623739
X03	PCB SWITCH TERMINAL	3	EFC89527529	EFC89527529
X02	PCB SWITCH TERMINAL	1	EFC89527789	EFC89527789
X01	PCB SWITCH TERMINAL	1	EFC89527809	EFC89527809
X08	PCB SWITCH TERMINAL	1	EFC89569429	EFC89569429
S4	COVER LIMIT SWITCH.....	1	EFC89779509	EFC89779509
S6	SIDE WALL LIMIT SWITCH	1	EFC89785209	EFC89785209
Q3	CIRCUIT BREAKER	1	EFC89544689	EFC89544689
	ELECTRONIC CONTROLLER	1	EFC89552289	EFC89552289

MOTORS

Description	Part No.
Main Motor 5 HP 230 volt 1 phase	EFC89777739
Main Motor 7.5 HP 230 volt 1 phase	EFC89777869
Main Motor 5 HP 200 volt 3 phase	EFC89776989
Main Motor 5 HP 230 volt 3 phase	EFC89776859
Main Motor 5 HP 460 volt 3 phase	EFC89776859
Main Motor 5 HP 575 volt 3 phase	EFC89777049
Main Motor 7.5 HP 200 volt 3 phase	EFC89777209
Main Motor 7.5 HP 230 volt 3 phase	EFC89777179
Main Motor 7.5 HP 460 volt 3 phase	EFC89777179
Main Motor 7.5 HP 575 volt 3 phase	EFC89777329
Main Motor 10 HP 200 volt 3 phase	EFC89777589
Main Motor 10 HP 230 volt 3 phase	EFC89777459
Main Motor 10 HP 460 volt 3 phase	EFC89777459
Main Motor 10 HP 575 volt 3 phase	EFC89777609

OVERLOAD HEATERS

Description	Part No.
Overload Relay 5 HP 230 volt 1 phase	2118171
Overload Relay 7.5 HP 230 volt 1 phase	2118165
Overload Relay 5 HP 200 volt 3 phase	2118169
Overload Relay 5 HP 230 volt 3 phase	2118169
Overload Relay 5 HP 460 volt 3 phase	2118166
Overload Relay 5 HP 575 volt 3 phase	2118166
Overload Relay 7.5 HP 200 volt 3 phase	2118171
Overload Relay 7.5 HP 230 volt 3 phase	2118170
Overload Relay 7.5 HP 460 volt 3 phase	2118167
Overload Relay 7.5 HP 575 volt 3 phase	2118167
Overload Relay 10 HP 200 volt 3 phase	2118171
Overload Relay 10 HP 230 volt 3 phase	2118171
Overload Relay 10 HP 460 volt 3 phase	2118169
Overload Relay 10 HP 575 volt 3 phase	2118168

GROUP IDENTIFICATION AND INSTRUCTIONS - STANDARD

B/M: 301EFA4011

Ref. No.	Name of Part	Qty.	Part No.
1	DECAL, DANGER (DO NOT BREATHE DISCHARGE AIR).....	1	305EFC077
2	DECAL (OIL FILTER ELEMENT – GARDNER DENVER)	1	301EBAC077
3	DECAL, WARNING (ROTATING MACHINERY)	2	307EFC077
4	DECAL, WARNING (UNIT CAN AUTO RESTART)	2	306EFC077
5	DECAL, DANGER (DO NOT MODIFY W/O PERMISSION)	1	309EFC077
6	DECAL, DANGER (AIR/OIL UNDER PRESSURE).....	1	308EFC077
7	DECAL	1	228EAQ077
8	DECAL ROTATION ARROW.....	1	304EFC077
9	DECAL (GD INTEGRA, 16" LONG).....	1	301EFE077
10	DECAL OPERATION & MAINTENANCE	1	301EFA077
12	DECAL, WARNING OUTSIDE CONTROL BOX	1	310EFC077
13	DECAL, DANGER INSIDE CONTROL BOX	1	311EFC077
14	DECAL, CONTROLLER LEGEND.....	1	302EFA077

IDENTIFICATION AND INSTRUCTIONS – AIR RECEIVER/DRYER

B/M: 308EFC4011

Ref. No.	Name of Part	Qty.	Part No.
1	DECAL (GD 7" TALL).....	2	322EAQ077
2	DECAL – DANGER (AIR/OIL UNDER PRESSURE).....	3	212EAQ077
3	DECAL – DANGER (DO NOT BREATHE DISCHARG AIR	1	206EAQ077

REPAIR KITS

Your Gardner Denver rotary screw compressor is designed and manufactured for many years of reliable operation. All components are engineered to exacting specifications, which will function together as a system to provide maximum efficiency. To insure the continuing integrity of compressor operation, use only original quality genuine Gardner Denver replacement parts and accessories.

Name of Part	Qty.	Part No.
ROUTINE MAINTENANCE KIT, Heavy Duty Air Filter		300EBA6013
ELEMENT, Air Filter	2	EFC85644309
ELEMENT, Oil Filter	3	EFC81649209
PERIODIC MAINTENANCE KIT (Inlet Valve)		302EFA6013
INLET VALVE SEAL REPAIR KIT	1	EFC89555189
GASKET	1	EFC03428878
PERIODIC MAINTENANCE KIT (Minimum Pressure Valve)		301EBA6013
MAINTENANCE KIT (Minimum Pressure Valve)	1	EFC89555599
O-RING	1	EFC85387979
OIL SEPARATOR KIT	1	302EBA6013
OIL SEPARATOR	1	EFC03582228
O-RING	1	EFC85387979
MIXING VALVE ELEMENT REPAIR KIT		303EBA6013
THERMOSTAT ELEMENT 160° F	1	EFC89560169
O-RING	1	EFC85646299
PNEUMATIC CONTROLS & GAUGES		307EFA6013
CHECK VALVE	1	EFC89597779
CHECK VALVE	1	EFC85838209
SCREEN	1	EFC85588619
ELECTRICAL CONTROL KIT – NEMA 4 & NEMA 3R		308EFA6013
PRESSURE TRANSDUCER	1	EFC89529549
THERMISTOR	2	EFC89529679
SOLENOID VALVE	1	EFC87997479
SOLENOID VALVE	1	EFC89698009
SOLENOID VALVE	1	EFC87997629
DRIVE SHAFT SEAL (Includes Wear Sleeve)		EFC89542409
DRIVE SHAFT TOOL KIT		305EFA6013
KEY	1	EFC03476918
WEAR SLEEVE PULLER	1	EFC03477088

REPAIR KITS (CONTINUED)

Name of Part	Qty.	Part No.
BARE AIREND REPAIR KIT		306EFA6013
O-RING	1	EFC80011839
GASKET	1	EFC03428878
GASKET	1	EFC81356309
AIREND (ENDURO 3)	1	EFC03965238
O-RING	1	EFC89725659
O-RING	1	EFC89534809
O-RING	1	EFC89594469
GASKET	1	EFC03598208
LUBRICANT (AEON 4000)		
5-GALLON PAIL	1	28H57
CASE OF 6, 1 GALLON PAILS	1	28H253
TOUCH-UP PAINT, White		
5-GALLON PAIL	1	28H76
1-GALLON CAN	1	28H84
1-QUART CAN	1	28H83



Specifications subject to change without notice.

Copyright © 1999 Gardner Denver, Inc.

Litho in U.S.A.

<http://www.gardnerdenver.com>

mktg@gardnerdenver.com

For additional information contact your local representative or



Gardner Denver Compressor and Pump Division,
1800 Gardner Expressway, Quincy, Illinois 62301
Customer Service Department Telephone:
(800) 682-9868 FAX: (217) 224-7814

Sales and Service in all major cities.

For parts information, contact Gardner Denver,
Master Distribution Center, Memphis, TN
Telephone: (800) 245-4946 FAX: (901) 542-6159