



Doosan Infracore
Portable Power



Truck Mounted Equipment Parts Manual PTO DRIVEN REVERSE ROTATION

COMPRESSOR SYSTEM

CATEGORY 1
60 - 90 CFM

CATEGORY 2
100 - 160 CFM

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Section A - Parts Ordering

GENERAL

This publication, which contains an illustrated parts breakdown, has been prepared as an aid in locating those parts which may be required in the maintenance of the unit. Always insist on genuine Ingersoll Rand branded parts for your unit.

Doosan Infracore Portable Power can bear no responsibility for injury or damages resulting directly from the use of non-approved repair parts.

Portable Power service facilities and Ingersoll Rand parts are available worldwide. Consult local yellow pages or visit: www.doosanportablepower.com.

Special order parts may not be included in this manual. Contact the Portable Power Parts Department with the unit serial number for assistance with these special parts.

Description

The illustrated parts breakdown illustrates and lists the various assemblies, subassemblies and detailed parts which make up this particular machine. This covers the standard models and the more popular options that are available.

In referring to the rear, the front or to either side of the unit, always consider the drawbar end of the unit as the front.

Standing at the rear of the unit facing the drawbar (front) will determine the right and left sides.

Fasteners

Both SAE/inch and ISO/metric hardware have been used in the design and assembly of these units. In the disassembly and reassembly of parts, extreme care must be taken to avoid damaging threads by the use of wrong fasteners.

How To Order

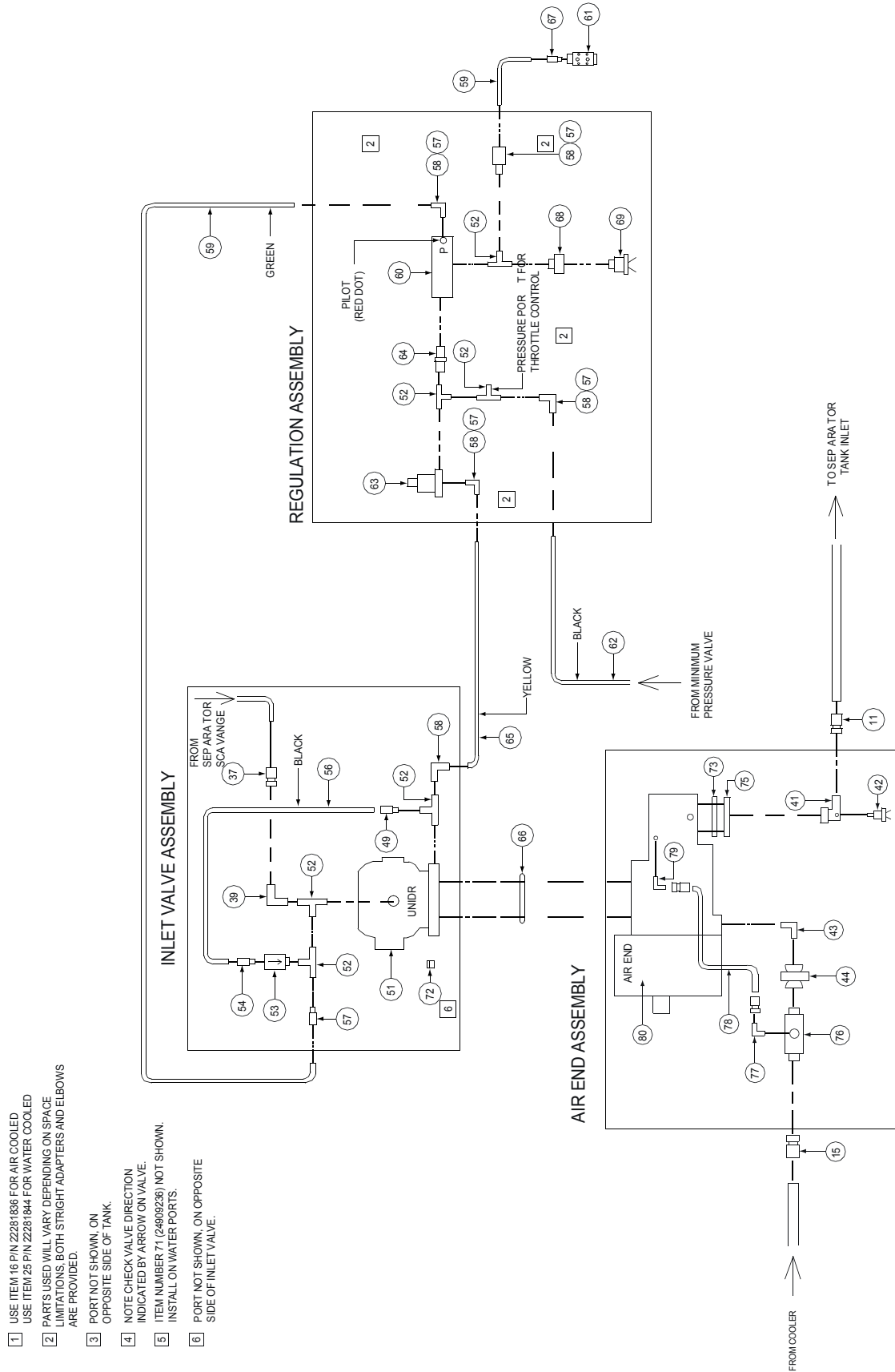
Always specify the model and serial number of the unit.

Specify the part number and description.



Parts List

Air / Oil Piping Diagram (Category -1)



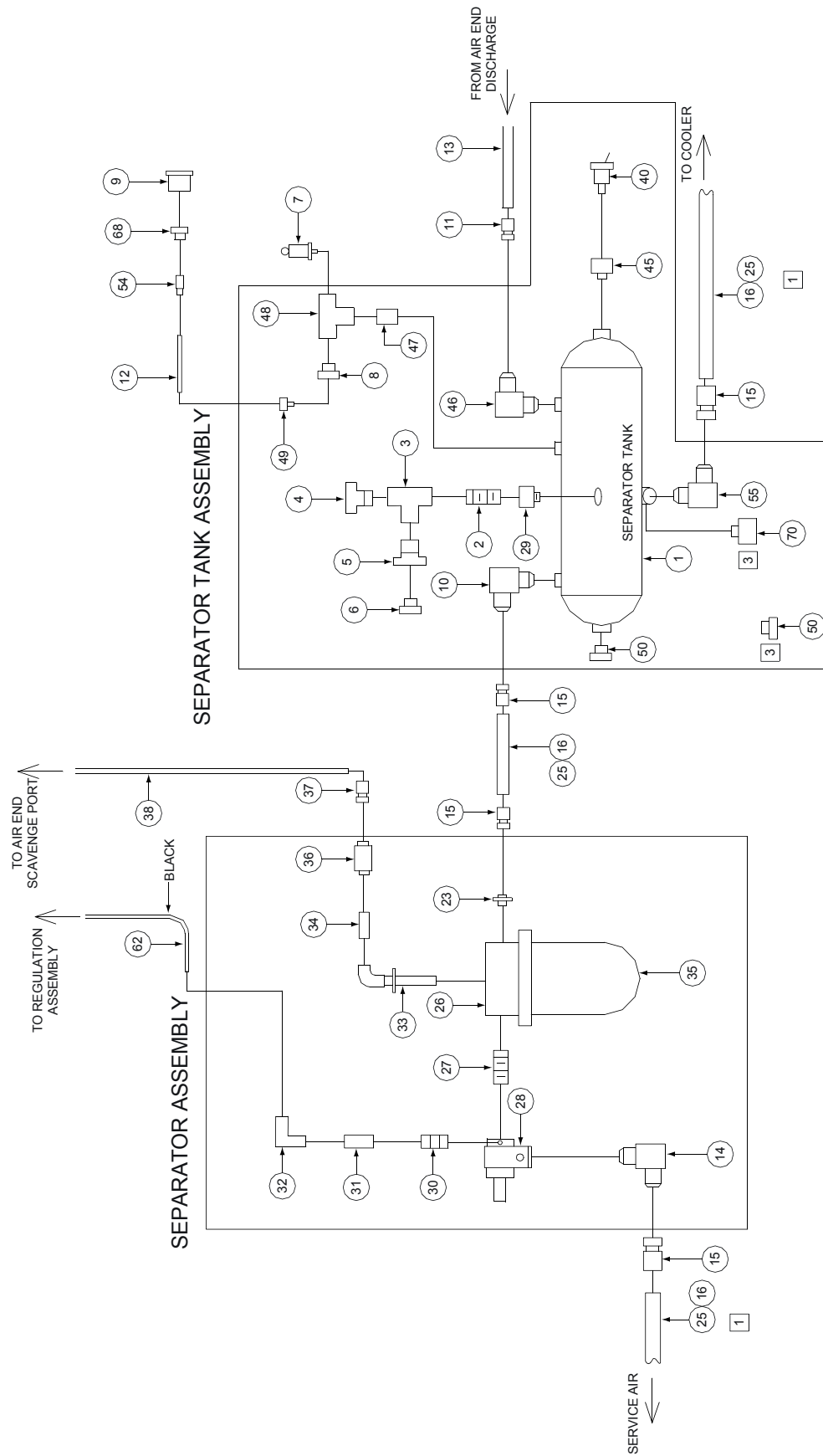
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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
11	24909194	Connector, Hose		-20 JIC

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
15	24909186	Connector Hose		-12 JIC
37	24909285	Connector, Hose		-4 JIC
39	35283464	Elbow		1/4" NPT X -4 JIC
41	22378525	Elbow, Swivel Nut -20, Modified		
42	22596811	Temperature Switch		
43	24909913	Elbow		M22 X -12 JIC
44	24909798	Swivel, Union		-12 JIC
49	24909442	Adapter		1/4" NPT X 1/4" Tube
51	24909277	Inlet / Unloader Valve		
52	35114545	Tee		1/4" NPT
53	24907263	Check Valve		1/4" NPT
54	24909699	Adapter		1/4" NPT X 1/4" Tube
56	35333715	Tube		1/4" Synflex
57	24909723	Adapter		1/4" NPT X 3/8" Tube
58	24908832	Elbow		1/4" NPT X 3/8" Tube
59	24909079	Tube		3/8" (Green)
60	24907081	Blowdown Valve		
61	43213388	Orifice		0.093
62	35356484	Tube		3/8" Synflex
63	24906984	Regulator		
64	24909376	Nipple		1/4" NPT
65	24909087	Tube		3/8" (Yellow)
66	95026860	O-Ring		
67	22906499	Adapter		1/4" NPT X 3/8" Tube
68	95930301	Bushing		1/4" X 1/8" NPT
69	36757573	Switch, Pressure		20 PSI NC
72	95928230	Plug		1/4 NPT
73	22372122	Gasket, Disc Plate		
75	22372114	Discharge Adapter Plate		
76	93481562	Injection Manifold		
77	95993572	Elbow		1/2" BSP X -5 JIC
78	22742506	Hose		-5 JIC
79	24909905	Elbow		M12 X -5 JIC
80	23039167	Assembly, Airend		CF90D4

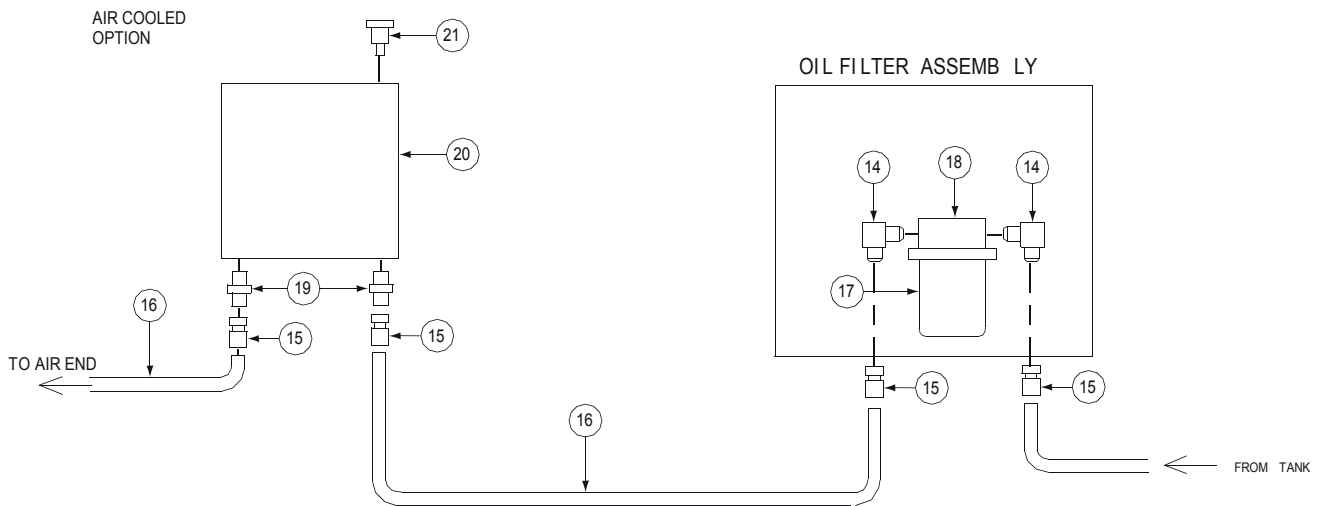
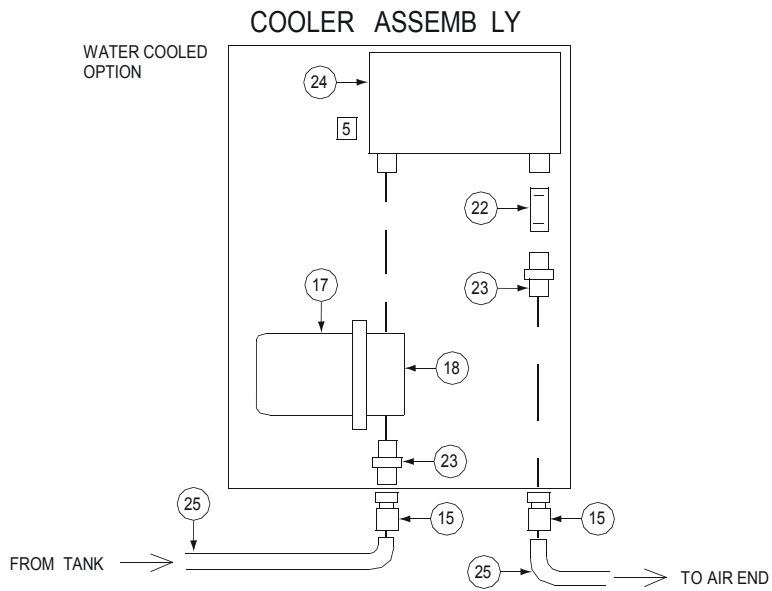
Air / Oil Piping Diagram (Category -1)



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	54587605	Separator Tank		
2	95242996	Nipple		1 1/2" NPT
3	95954244	Tee		1 1/2" NPT
4	24907248	Gauge, Part Hole View		
5	95316964	Adapter		1.5" NPT X -20 JIC
6	35596691	Cap, Oil Fill		-20 JIC
7	24907222	Safety Valve		150 PSI
7a	24907214	Safety Valve		200 PSI
7b	24907206	Safety Valve		250 PSI
8	95944625	Bushing		1/2" NPT X 1/4" NPT
9	36891216	Gauge, Pressure		
10	39171962	Elbow		-16 SAE X -12 JIC
11	24909194	Connector, Hose		-20 JIC
12	24909046	Tube		1/4" (Red)
13	24909533	Hose		-20 JIC
14	35294735	Elbow		3/4" NPT X -12 JIC
15	24909186	Connector Hose		-12 JIC
16	22281836	Hose		-12 JIC
23	95219747	Adapter		3/4" NPT X -12 JIC
25	22281844	Hose		-12 JIC
26	22200133	Head Separator		
27	95953576	Nipple		3/4" NPT
28	24907065	Minimum Pressure Valve		
29	39139449	Adapter		-24 SAE X 1 1/2" NPT
30	95953493	Nipple		1/8" NPT
31	95935599	Coupling		1/8" NPT
32	35379700	Fitting		1/8" NPT X 3/8" Tube
33	39932520	Scavenge Tube		
34	54488507	Reducer, Tube Fitting		
35	89259337	Element, Separator		
36	39303219	Orifice Checkvalve		0.041
37	24909285	Connector, Hose		-4 JIC
38	24909541	Hose		-4 JIC
40	35604180	Temperature Sender		
45	35290139	Adapter		8MM X 1/2" NPT
46	35374867	Elbow		1 7/8" SAE X -20 JIC
47	95934279	Nipple		1/4" NPT
48	95954202	Tee		1/4" NPT
49	24909442	Adapter		1/4" NPT X 1/4" Tube
50	39121363	Plug, Hex		SAE 1875-120
54	24909699	Adapter		1/4" NPT X 1/4" Tube
55	35294750	Elbow		-12 JIC X 3/4" NPT
62	35356484	Tube		3/8" Synflex
68	95930301	Bushing		1/4" X 1/8" NPT
70	95938981	Plug		1.06 SAE

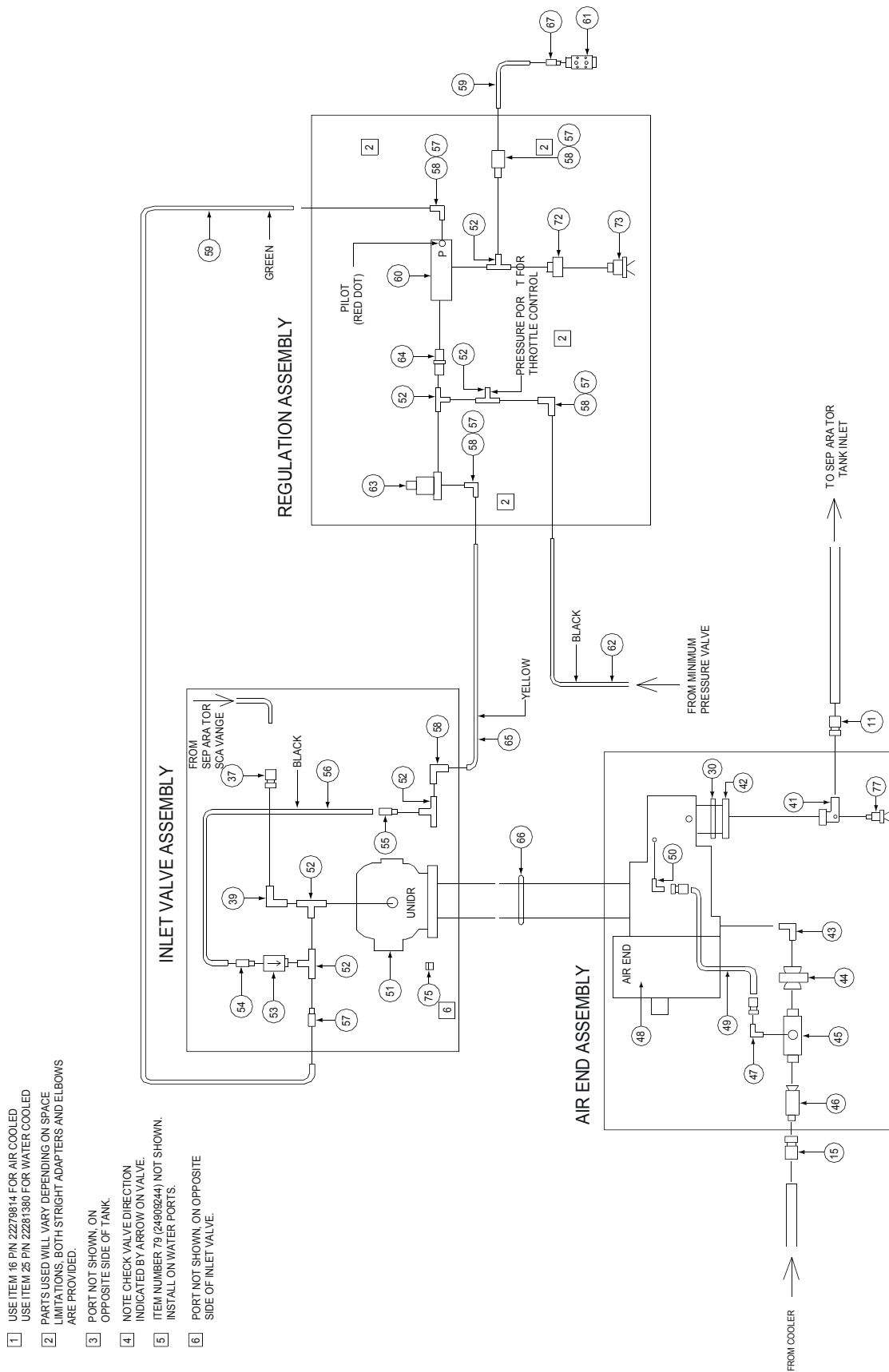
Air / Oil Piping Diagram (Category -1)



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
14	35294735	Elbow		3/4" NPT X -12 JIC
15	24909186	Connector Hose		-12 JIC
16	22281836	Hose		-12 JIC
17	39329602	Oil Filter		
18	24906596	Oil Filter Head		
19	39314828	Adapter		1" SAE X -12 JIC
20	24907461	Fan Cooler Assembly		
21	22652564	Temperature Switch (Fan)		
22	95935649	Coupling		3/4" NPT
23	95219747	Adapter		3/4" NPT X -12 JIC
24	24906497	Oil / Water Heat Exchanger		
25	22281844	Hose		-12 JIC

Air / Oil Piping Diagram (Category -2)



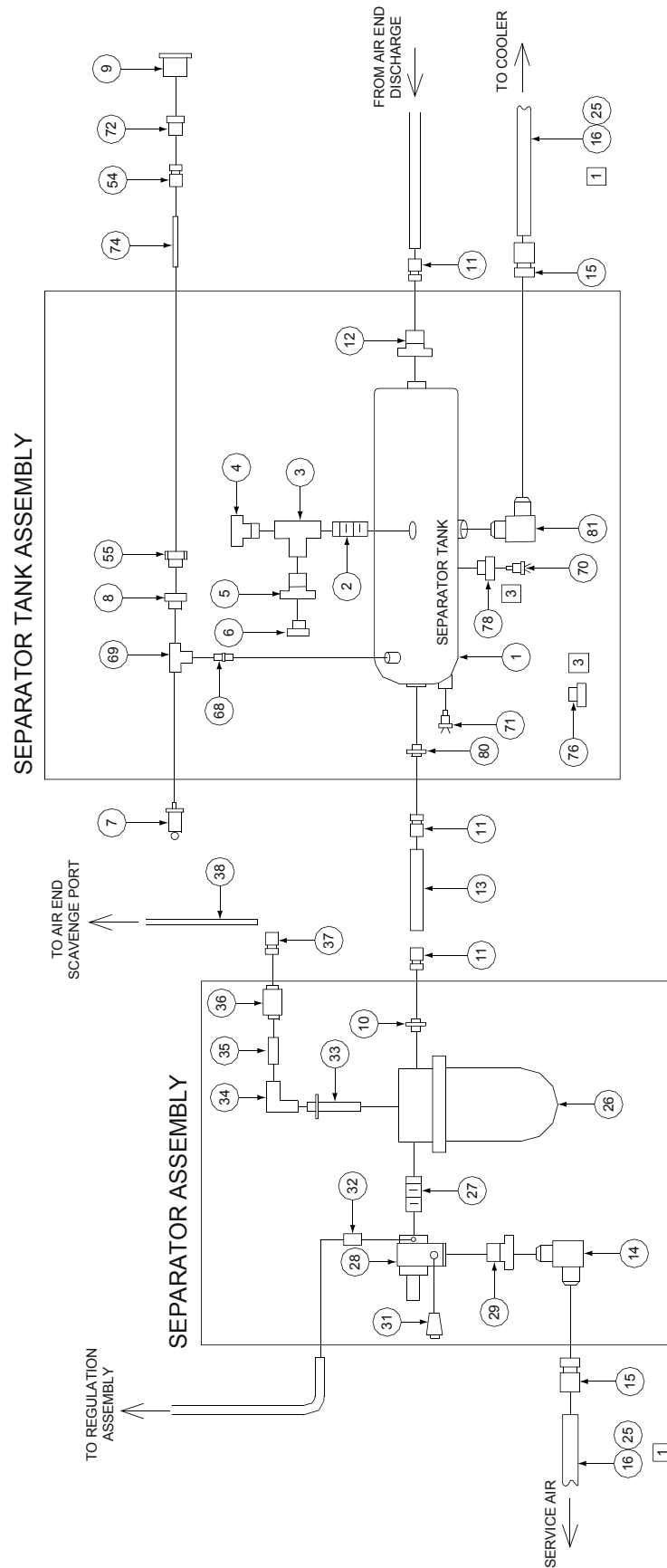
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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
11	24909194	Connector, Hose		-20 JIC

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
15	24909400	Connector, Hose		-16 JIC
30	22372122	Gasket, Disc Plate		
37	24909285	Connector, Hose		-4 JIC
39	35283464	Elbow		1/4" NPT X -4 JIC
41	22378525	Elbow, Swivel Nut -20, Modified		
42	22372114	Discharge Adapter Plate		
43	22381925	Elbow		M26 X -12 JIC
44	24909798	Swivel, Union		-12 JIC
45	93481562	Injection Manifold		
46	24909764	Adapter		-12 JIC X -16 JIC
47	95993572	Elbow		1/2" BSP X -5 JIC
48	23039167	Assembly, Airend		CF90D4
49	22742506	Hose		-5 JIC
50	24909905	Elbow		1412 X -5 JIC
51	22276299	Valve, Air Intake		
52	35114545	Tee		1/4" NPT
53	24907263	Check Valve		1/4" NPT
54	24909699	Adapter		1/4" NPT X 1/4" Tube
55	24909442	Adapter		1/4" NPT X 1/4" Tube
56	35333715	Tube		1/4" Synflex
57	24909723	Adapter		1/4" NPT X 3/8" Tube
58	24908832	Elbow		1/4" NPT X 3/8" Tube
59	24909079	Tube		3/8" (Green)
60	24907081	Blowdown Valve		
61	43213388	Orifice		0.093
62	35356484	Tube		3/8" Synflex
63	24906984	Regulator		
64	24909376	Nipple		1/4" NPT
65	24909087	Tube		3/8" (Yellow)
66	22330732	O-Ring		
67	22906499	Adapter		1/4" NPT X 3/8" Tube
72	95930301	Bushing		1/4" X 1/8" NPT
73	36757573	Switch, Press (20 PSI NC)		
75	95928230	Plug		1/4 NPT
77	22596811	Temperature Switch (A/E)		

Air / Oil Piping Diagram (Category -2)



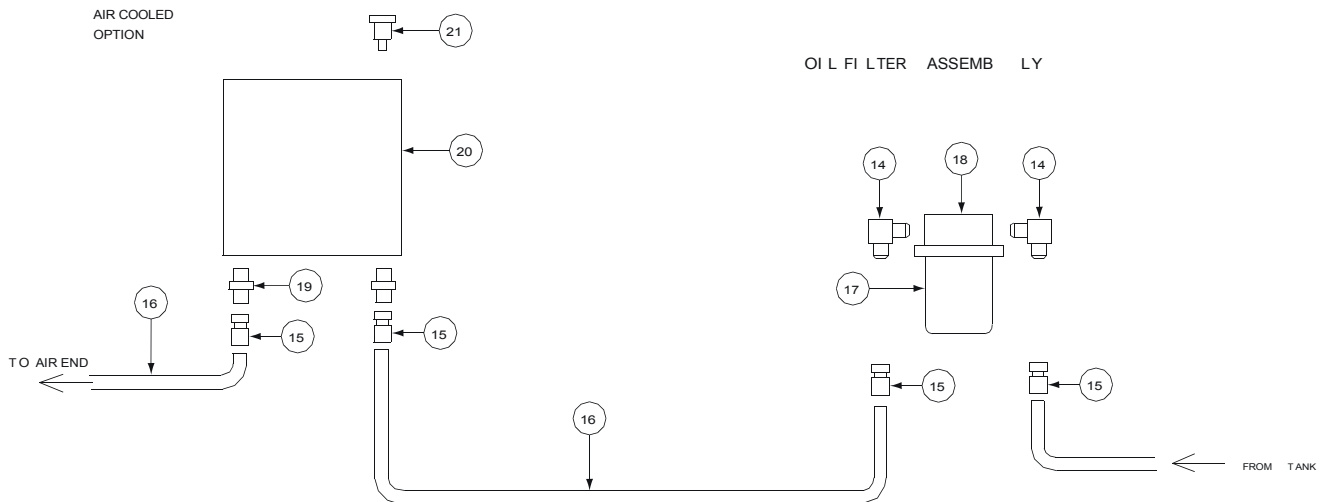
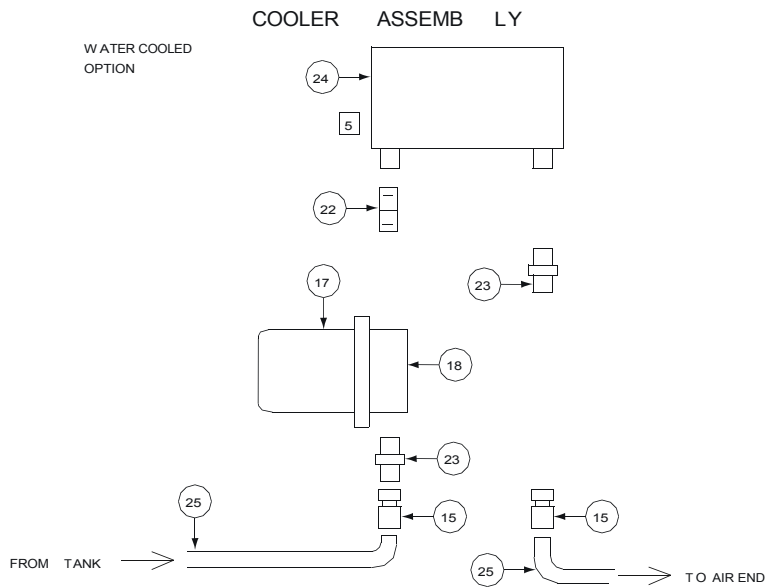
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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	22869739	Separator Tank		

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
2	95242996	Nipple		1 1/2" NPT
3	95954244	Tee		1 1/2" NPT
4	24907248	Gauge, Part Hole View		
5	95316964	Adapter		1.5 NPT X -20 JIC
6	35596691	Cap, Oil Fill		-20 JIC
7	24907222	Safety Valve		150 PSI
7a	24907214	Safety Valve		200 PSI
7b	24907206	Safety Valve		250 PSI
8	95944625	Bushing		1/2" NPT X 1/4" NPT
9	36891216	Gauge, Pressure		
10	95219770	Adapter		1 1/4" NPT x -20 JIC
11	24909194	Connector, Hose		-20 JIC
12	95981346	Adapter		-20 JIC X 1.875 SAE
13	24909533	Hose		-20 JIC
14	24908998	Elbow		1" NPT X -16 JIC
15	24909400	Connector, Hose		-16 JIC
16	22279814	Hose		-16 JIC
25	22281380	Hose		-16 JIC
26	22233118	Separator Assembly		
27	95953600	Nipple		1 1/4" NPT
28	24907073	Minimum Pressure Valve		
29	95937439	Reducing Bushing		1 1/4" X 1"
32	35379700	Fitting		1/8" NPT K 3/8" Tube
33	24909814	Scavenge Tube		
34	24909822	Elbow		5/16" Flare X 1/4" NPT
35	95935813	Coupling		1/4"
36	36840437	Orifice Checkvalve		0.062
37	24909285	Connector, Hose		-4 JIC
38	24909541	Hose		-4 JIC
54	24909699	Adapter		1/4" NPT X 1/4" Tube
55	24909442	Adapter		1/4" NPT X 1/4" Tube
68	95934279	Nipple		1/2" NPT
69	95954202	Tee		1/2" NPT
70	36865756	Temperature Switch (Tank)		
71	35604180	Temperature Sender		
72	95930301	Bushing		1/4" X 1/8" NPT
74	24909046	Tube		1/4" (Red)
76	39121363	Plug, Hex		SAE1.875
78	22869812	Adapter		1/2" NPT X 1.06 SAE
80	95159489	Adapter		-20 JIC X 1.31 SAE
81	22869796	Elbow		1.06 SAE X -16 JIC

Air / Oil Piping Diagram (Category -2)

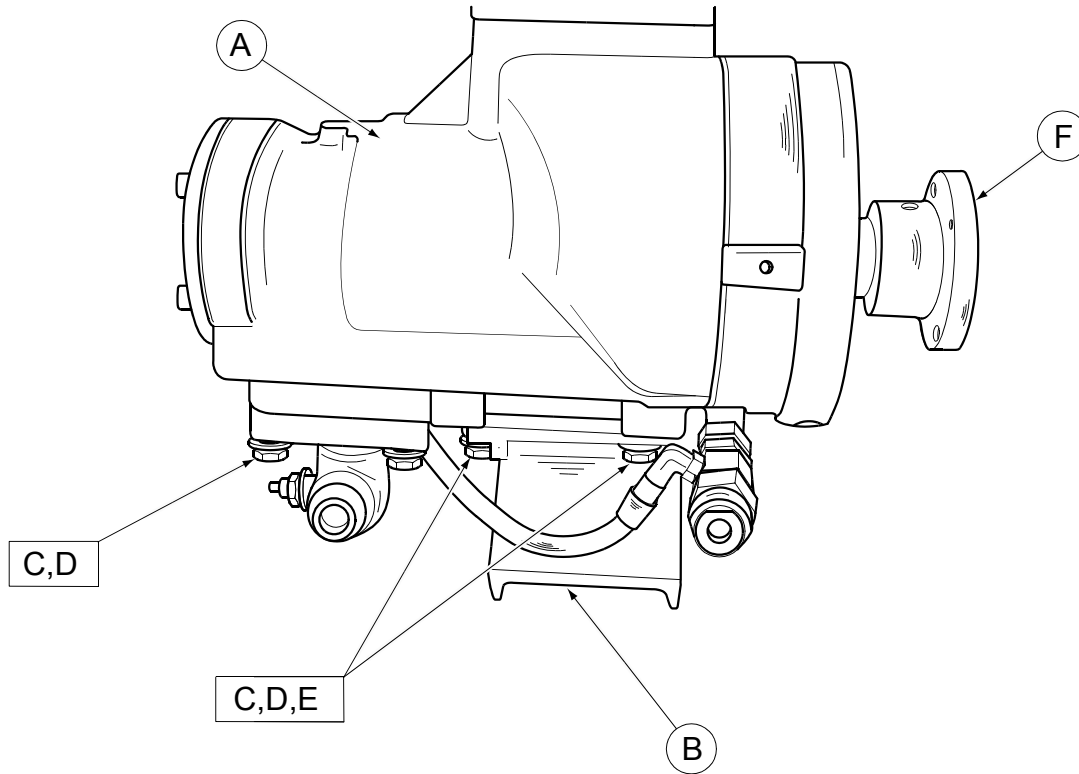


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
14	24908998	Elbow		1" NPT X -16 JIC

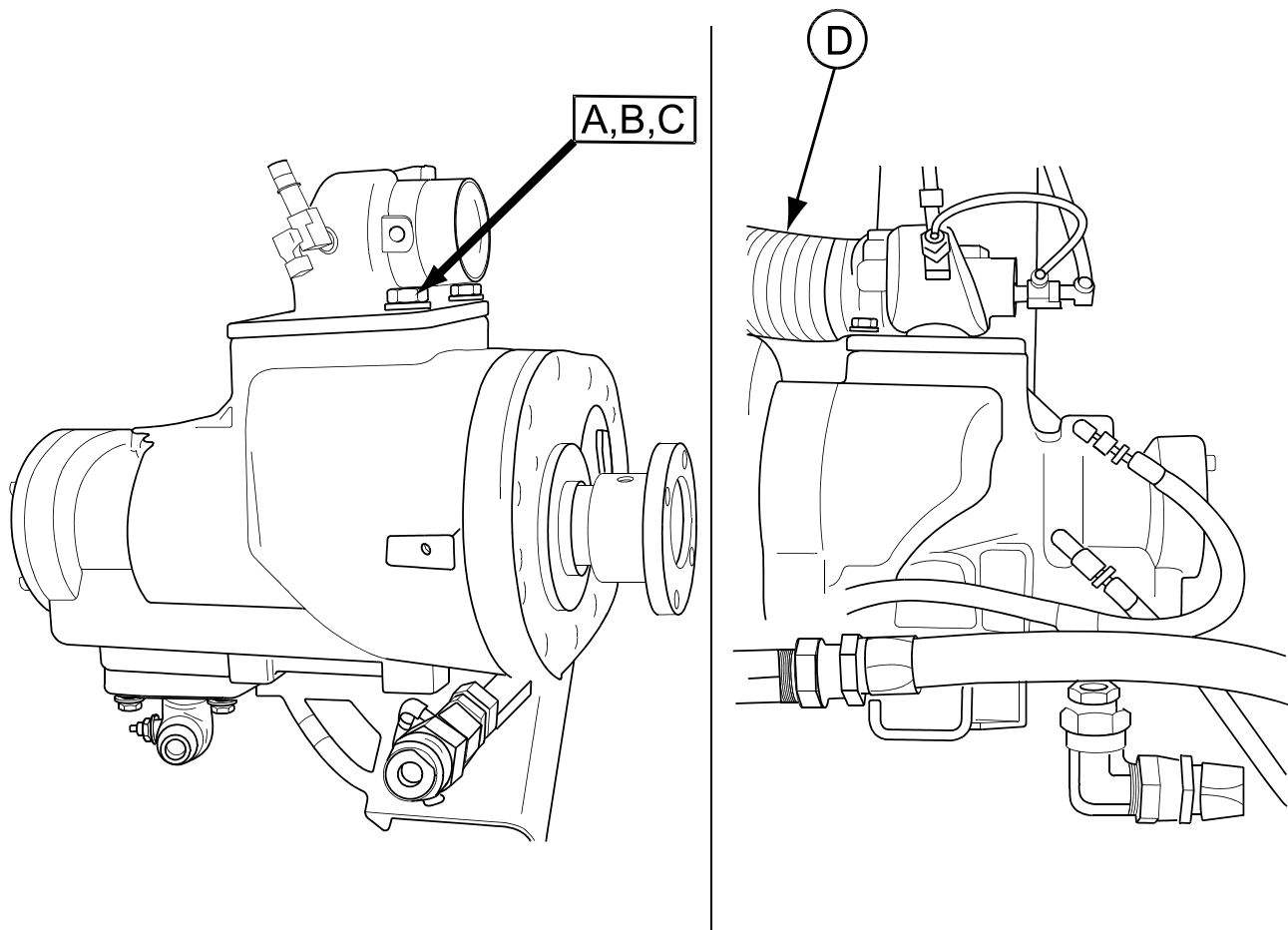
ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
15	24909400	Connector, Hose		-16 JIC
16	22279814	Hose		-16 JIC
17	24906141	Oil Filter		
18	24906604	Oil Filter Head		
19	35292069	Adapter		1 1/4" SAE X -16 JIC
20a	24907388	Fan Cooler Assembly		
20b	22498984	Heavy Duty Fan Cooler Assembly		
21	22652564	Temperature Switch (Fan)		
22	95946117	Nipple		1" NPT
23	95219762	Adapter		1" NPT X -16 JIC
24	24906505	Oil / Water Heat Exchanger		
25	22281380	Hose		-16 JIC

Airend Group



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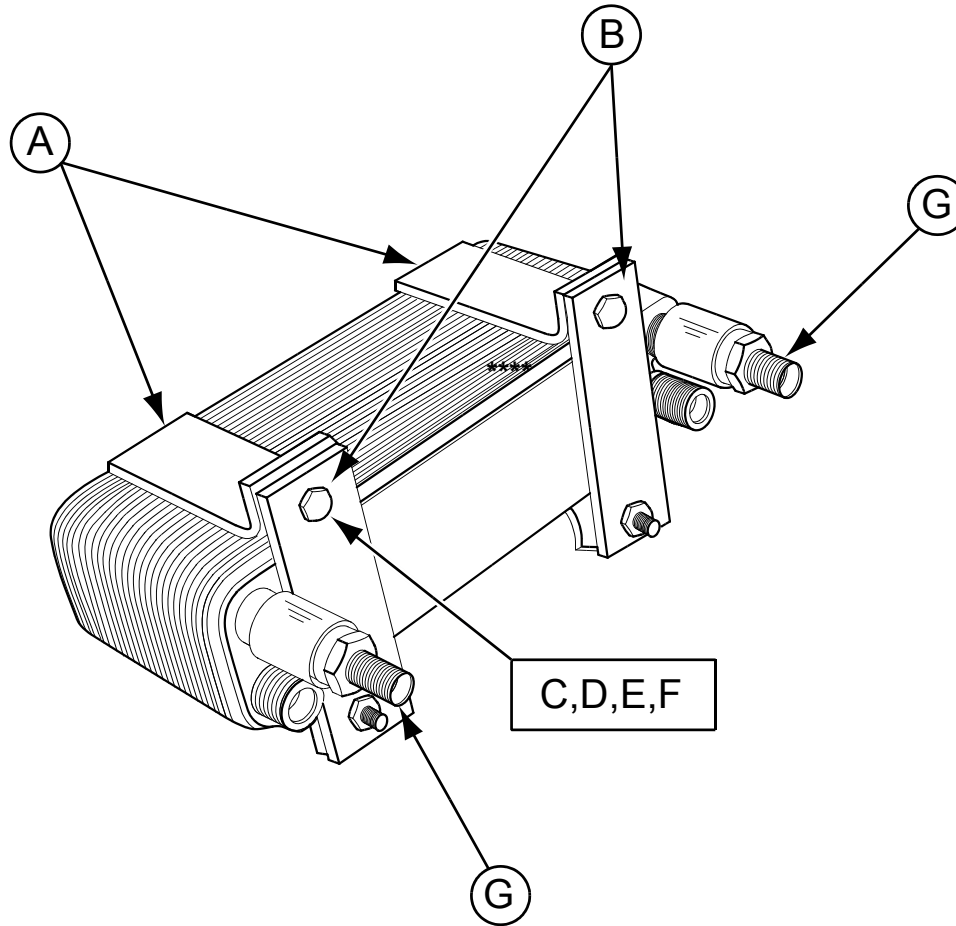
ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	23039167	Airend	1	CF90D4
B	22552871	Bracket, Compressor Mounting	1	
C	35375385	Bolt	8	M16x45-2m
D	24908683	Lock Washer	8	16/16.2mm
E	95935052	Washer, Flat	8	
F	22276869	Adapter, Drive Shaft	1	



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	35375385	Bolt	4	M16x45-2m
B	24908683	Lock Washer	4	16/16.2mm
C	95935052	Washer, Flat	4	
D	24908956	Hose, Inlet	1	3"TPU

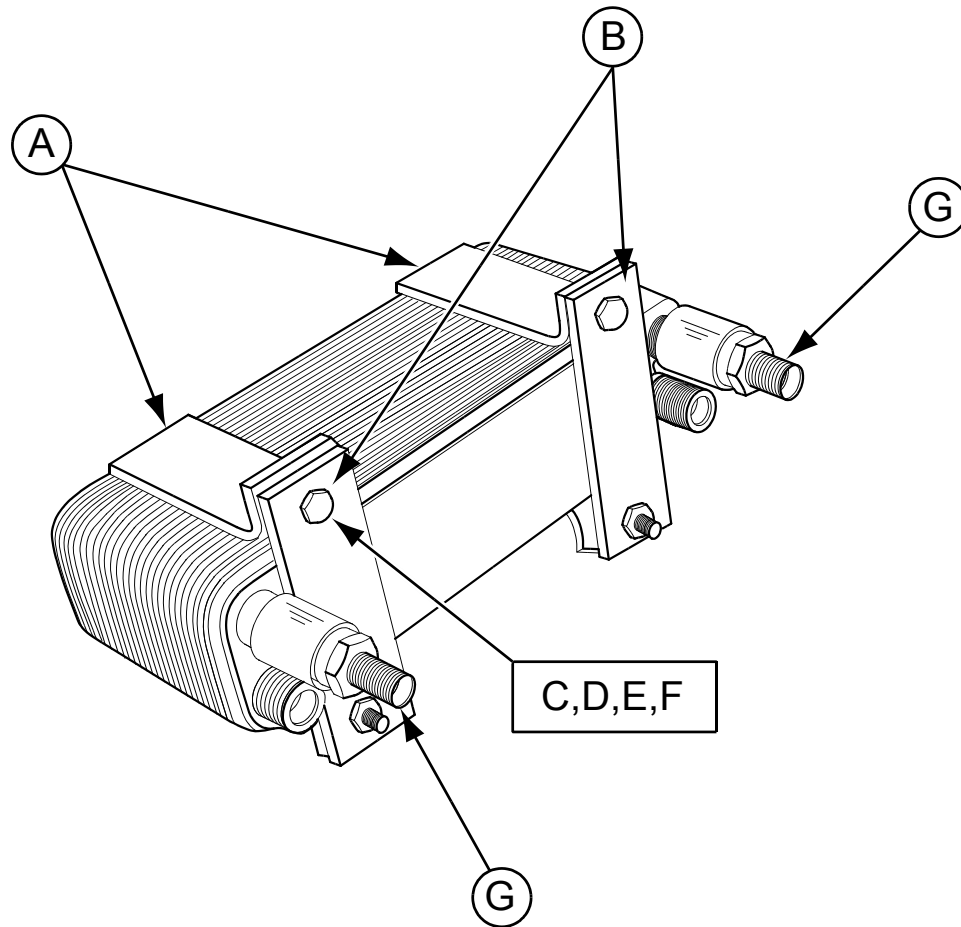
Cooler Group - Water Cooled Units (Category -1)



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	22337190	Bracket, Chassis	2	
B	22337208	Bracket, Strap	2	
C	95920682	Bolt	4	3/8-16
D	95935037	Washer	4	
E	95937413	Lock Washer	4	
F	95922894	Nut	4	3/8-16 Hex
G	24909236	Nipple	2	3/4 NPT x 3/4 Barb
N/S	24909483	Hose, Red Coolant Hose	25Ft	3/4"

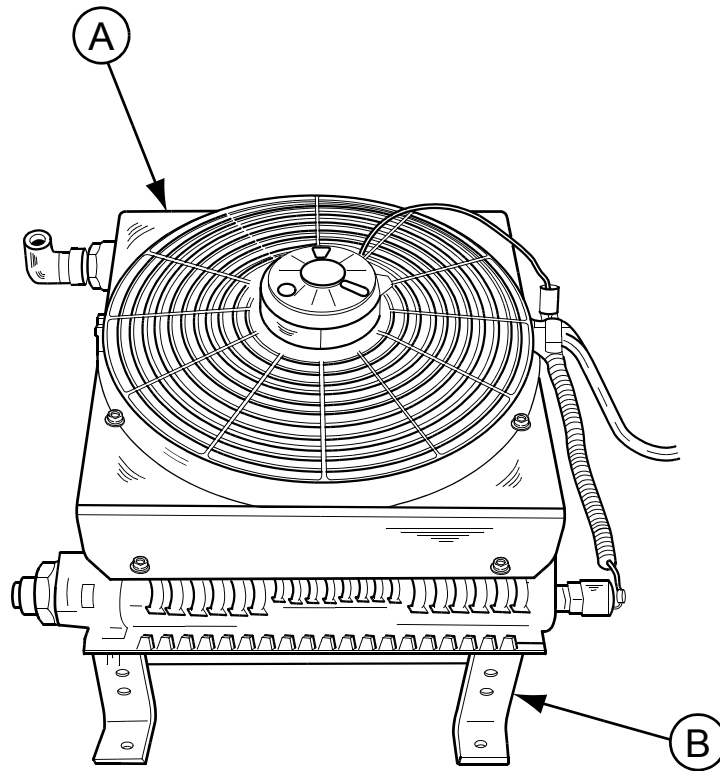
Cooler Group - Water Cooled Units (Category -2)



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	22337216	Bracket, Chassis	2	
B	22337224	Bracket, Strap	2	
C	95920682	Bolt	4	3/8-16
D	95935037	Washer	4	
E	95937413	Lock Washer	4	
F	95922894	Nut	4	3/8-16 Hex
G	24909244	Nipple	2	1 NPT x 1 Barb
N/S	24909509	Hose, Red Coolant Hose	25ft	1"

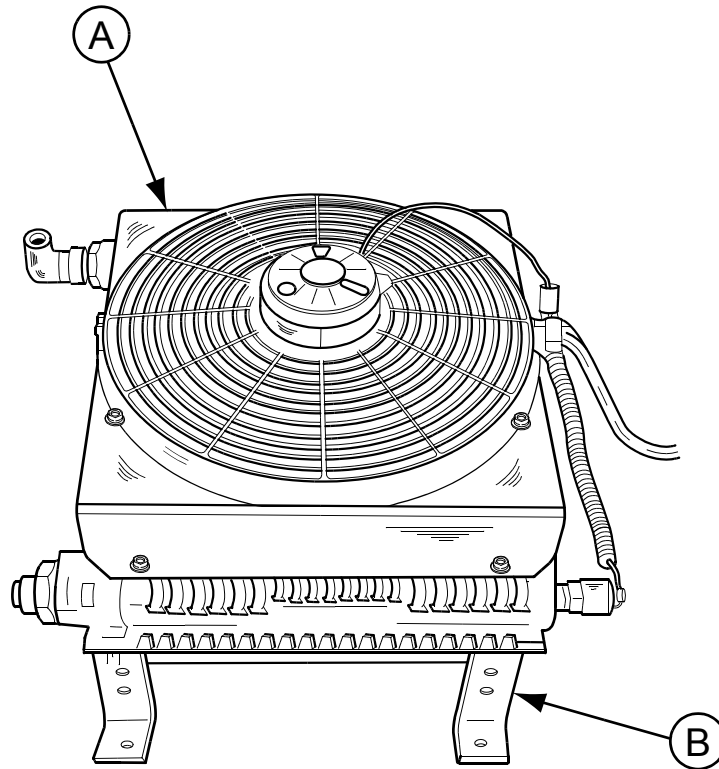
Cooler Group - Air Cooled Units (Category -1)



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	24907461	Fan/Cooler Assembly	1	8mm x 20mm long 8mm
A1	24907487	Fan 12V single	1	
A2	22259873	Heat Exchanger Element	1	
A3	24907420	Fan Shroud	1	
B	22265805	Bracket, Cooler Mounting	2	
N/S	96702824	Screw	4	
N/S	96701396	Washer	4	
Items A1, A2, & A3 are included with the Fan/Cooler Assembly 24907461				

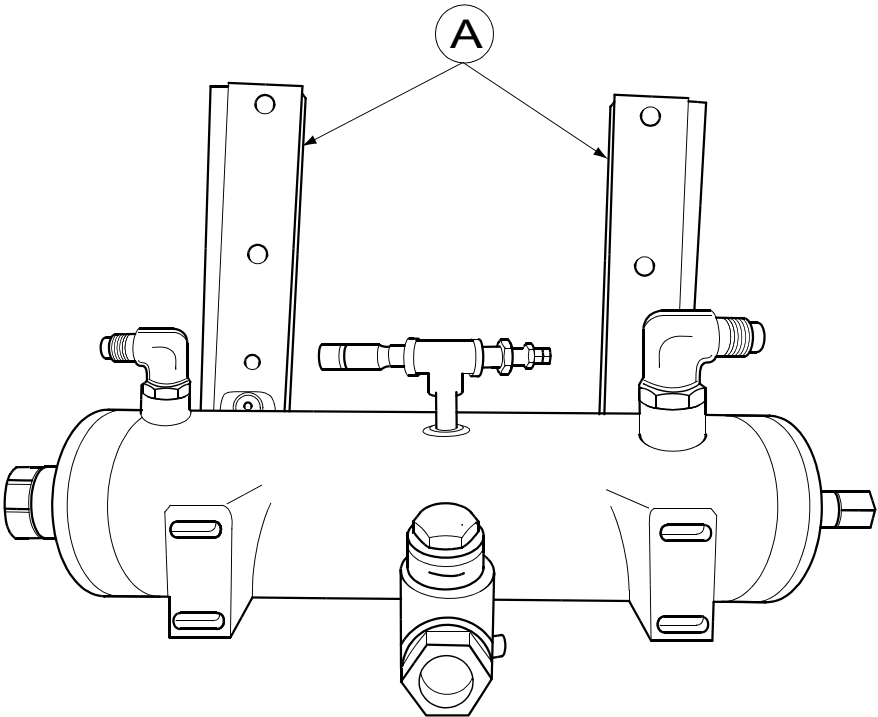
Cooler Group - Air Cooled Units (Category -2)



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	24907388	Fan/Cooler Assembly	1	8mm x 20mm long 8mm
A1	24907487	Fan 12V, - With Shroud	1	
A2	24907479	Heat Exchanger Element	1	
B	24907842	Bracket, Cooler Mounting	2	
N/S	96702824	Screw	4	
N/S	96701396	Washer	4	
Items A1, A2, & A3 are included with the Fan/Cooler Assembly 24907388				

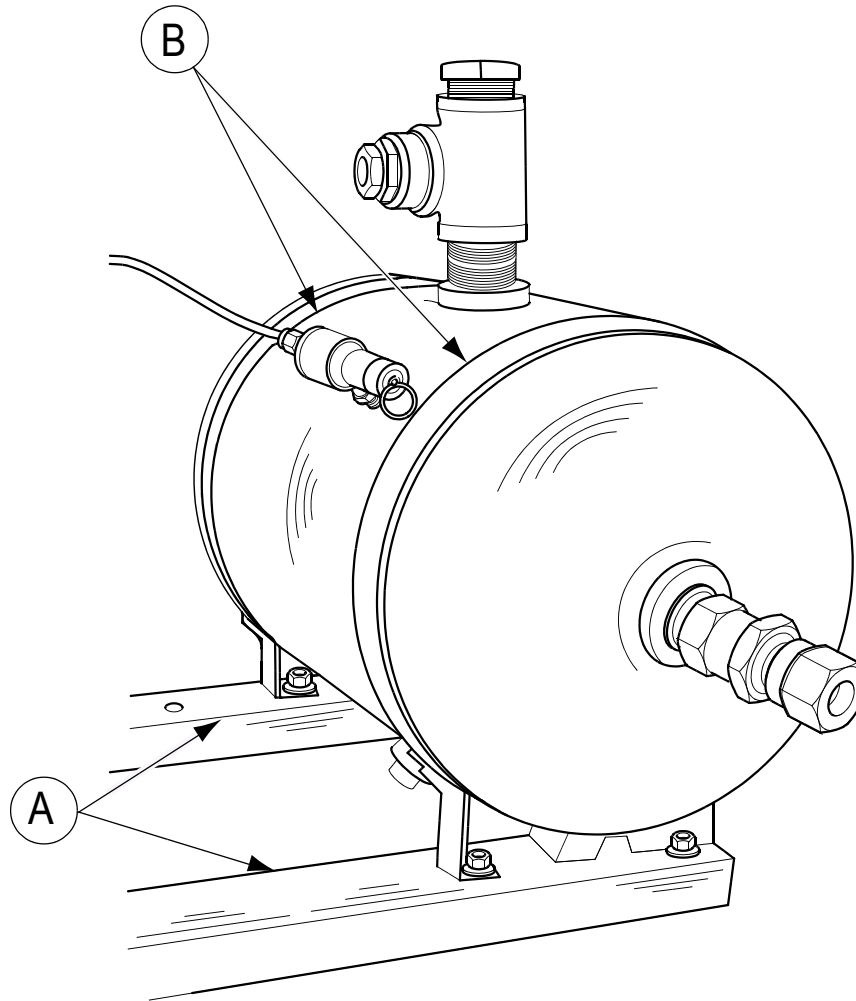
Separator / Receiver Tank Group (Category -1)



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	24906422	Bracket, Separator Tank Mounting	2	
N/S	35144344	Bolt	4	3/8-16x1
N/S	95935003	Washer	4	
N/S	35145077	Nut	4	3/8-16

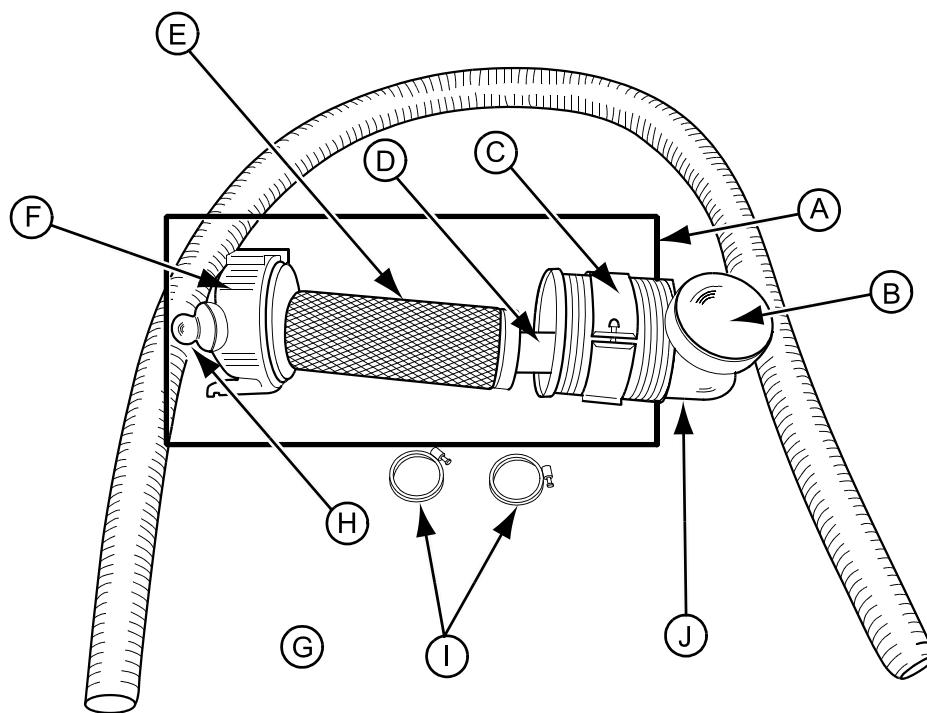
Separator / Receiver Tank Group (Category -2)



23365166_08/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	24906422	Bracket, Separator Tank Mounting	2	
B	24906919	Band, Separator Tank Mounting	2	
C	95920682	Screw	4	3/8-16 x 1.25"
D	95935037	Washer	4	
E	95937413	Lock Washer,	4	3/8
F	95922894	Nut	4	3/8-16
N/S	95934840	Screw	2	5/16-18 x 2.75"
N/S	95929782	Nut	2	5/16-18
N/S	95934303	Lock Washer	2	5/16

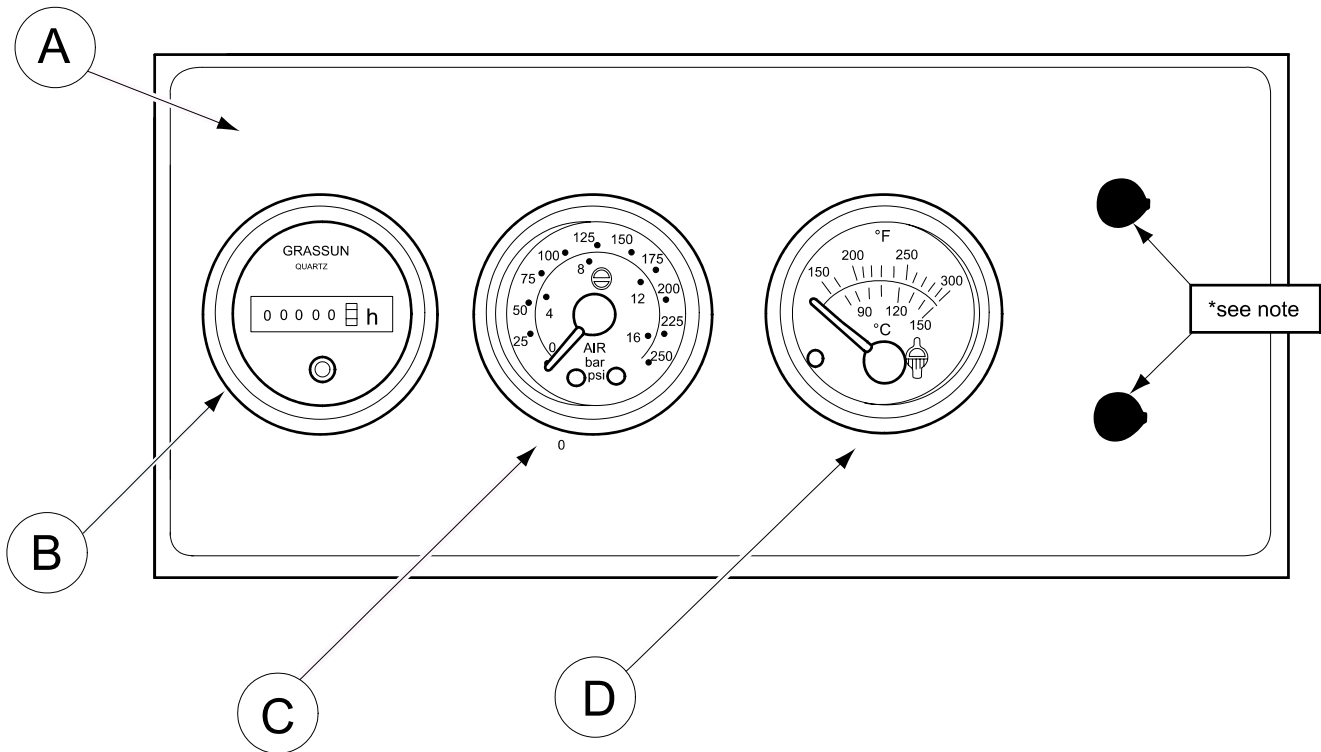
Air Intake Group



23365166_08/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	24906935	Air Cleaner Assembly	1	3" 3 1/2" OD Hose #56
B	24906950	Cap, Air Inlet	1	
*C	24906943	Air Cleaner Mounting Band	1	
*D	24906976	Safety Element	1	
*E	24906968	Primary Element	1	
*F	24906950	Canister Cap	1	
G	24908956	Hose, TPU Inlet	8	
*H	24906877	Duckbill Drain	1	
I	95402780	Clamp	2	
*J	24906810	Canister Body	1	
*Included in Assembly P/N 24906885 (Item A)				

Gauge Panel Assembly



Holes in control panel are for throttle control on/off switch (provided with throttle control) and circuit breaker (22747505). Either component can be mounted in either location. It is the installer's responsibility to ensure that these controls are properly labeled.

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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	24906653	Panel, Compressor Control	1	10AMP
B	36841245	Hour Meter	1	
C	36891216	Gauge, Pressure	1	
D	35604115	Gauge, Temperature	1	
NS	22747505	Circuit Breaker	1	

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