



# QSI 220/245



## Parts Manual

Air-cooled & Water-cooled

This manual contains important safety information and should be made available to all personnel who operate and/or maintain this product. Carefully read this manual before attempting to operate or perform maintenance on this equipment.

Manual No. 65057-1B

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**Manual Brought to You By: [IndustrialAirPower.com](http://IndustrialAirPower.com)**



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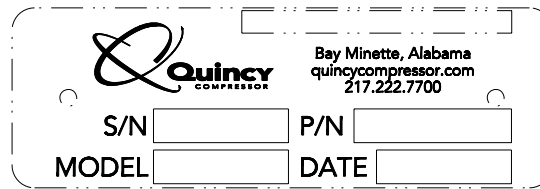
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## Serial Number Identification

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The serial number tag is located on the top flange of the unit frame just left of the control panel and in the upper right corner of the electrical control panel.



A rectangular serial number tag with a dashed border. On the left is the Quincy Compressor logo, which consists of a stylized 'Q' and the word 'Quincy' above 'COMPRESSOR'. To the right of the logo is a small box with a dashed border. Below the logo are four input fields: 'S/N' followed by a box, 'P/N' followed by a box, 'MODEL' followed by a box, and 'DATE' followed by a box. To the right of these fields is a small box with a dashed border. At the top right of the tag, the text 'Bay Minette, Alabama' is followed by 'quincycompressor.com' and '217.222.7700'.

## Ordering Replacement Parts

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Prompt service can be rendered on replacement part orders if the following information is given:

1. The serial number must be given when ordering replacement parts. Part numbers should be verified per the bill of materials associated with the serial number to ensure that correct replacement parts are ordered.
2. State the exact part number needed. Do not order by index numbers, as index numbers are repeated throughout this manual and if used for ordering parts will necessitate time consuming correspondence.
3. State the exact quantity needed.
4. State the preferred type of transportation.

All replacement parts are to be ordered through an authorized distributor. Insist on Genuine Quincy Parts only! Failure to do so may void your warranty.

## Fluid Specifications

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Quincy Compressor® recommends that all Quincy Rotary Screw Products be filled with one of the following QuinSyn® Brand synthetic fluids:

★QuinSyn PG™★

★QuinSyn F® (food grade)★

★QuinSyn Plus™★

★QuinSyn XP®★

Synthetic fluids other than QuinSyn brand(s) may not be compatible with components used in Quincy Compressor products. If it is deemed necessary to convert a Quincy compressor or vacuum pump to a synthetic other than QuinSyn brand, please contact an authorized Quincy Compressor distributor. To locate your nearest distributor, contact Sales & Marketing in Quincy, Illinois:

Phone 217-222-7700, FAX 217-222-4138 or visit our website:

<http://www.quincycompressor.com>.

The following information will be required by the distributor when changing compressor fluid:

| MODEL (CIRCLE CONFIGURATION):                                  | QSI | CFM |     | COOLING |     | PSI |     |     |     |     |
|----------------------------------------------------------------|-----|-----|-----|---------|-----|-----|-----|-----|-----|-----|
|                                                                |     | 220 | 245 | A/C     | W/C | 100 | 125 | 150 | 175 | 210 |
| SERIAL No. _____ FLUID ORIGINALLY USED: _____                  |     |     |     |         |     |     |     |     |     |     |
| FLUID NOW USED (IF CHANGED): _____ NEW FLUID TO BE USED: _____ |     |     |     |         |     |     |     |     |     |     |

Additional information regarding fluid specifications can be found in the Instruction Manual shipped with your unit.

- **Fluid Analysis Kit**

Quincy Compressor offers free fluid analysis to provide early detection of excessive parts wear, fluid breakdown, or a contaminated fluid system. Order the Fluid Analysis Kit (part no. 128515) from your local authorized Quincy Compressor distributor.

- **Fluid Requirements**

|              |   |            |
|--------------|---|------------|
| Air-cooled   | - | 13 gallons |
| Water-cooled | - | 16 gallons |

## Recommended Spare Parts

| QTY. | PART NUMBER | DESCRIPTION                                                         |
|------|-------------|---------------------------------------------------------------------|
| 1    | 140209      | KIT-SHAFT SEAL (INCLUDES SLINGER, SHAFT SEAL, & WEAR RING)          |
| 1    | 23458-4     | ELEMENT-AIR FILTER                                                  |
| 2    | 122880-222  | SWITCH-TEMPERATURE (225°F) (PLC CONTROL, 110-125#)                  |
| 2    | 122880-252  | SWITCH-TEMPERATURE (250°F) (PLC CONTROL, 150-210#)                  |
| 1    | 122880-242  | SWITCH-TEMPERATURE (240°F) (Power\$YNC CONTROL)                     |
| 1    | 146175-100  | KIT-DIFFERENTIAL PILOT VALVE (INCLUDES DIAPHRAGM ASSEMBLY & SEAT)   |
| 1    | 129731-050  | KIT-LINE FILTER (INCLUDES BOWL SEAL, FILTER ELEMENT, GASKET)        |
| 1    | 143316-050  | KIT-LINE FILTER (INCLUDES ELEMENT SEAL, FILTER ELEMENT)             |
| 1    | 124487-019  | SEPARATOR-AIR/FLUID                                                 |
| 1    | 124827-052  | KIT-MOISTURE SEPARATOR (INCLUDES GASKET)                            |
| 1    | 128691-051  | KIT-MINIMUM PRESSURE CHECK VALVE (100-125#)                         |
| 1    | 128691-054  | KIT-MINIMUM PRESSURE CHECK VALVE (150-210#)                         |
| 1    | 142136      | ELEMENT-FLUID FILTER                                                |
| 1    | 124973-060  | KIT-THERMOSTATIC VALVE (INCLUDES ELEMENT, GASKET & SEAL) (100-150#) |
| 1    | 124973-069  | KIT-THERMOSTATIC VALVE (INCLUDES ELEMENT, GASKET & SEAL) (175-210#) |
| 3    | 144046-005  | FLUID-QUINSYN PLUS (5 GALLON CONTAINER)                             |
| 3    | 110756-005  | FLUID-QUINSYN F (5 GALLON CONTAINER)                                |
| 3    | 143808-005  | FLUID-QUINSYN PG (5 GALLON CONTAINER)                               |
| 3    | 142784-005  | FLUID-QUINSYN XP (5 GALLON CONTAINER)                               |
| 2    | 128515-3    | KIT-FLUID ANALYSIS                                                  |



### WARNING



GUARDS MUST BE FASTENED IN PLACE BEFORE STARTING THE MACHINE AND NEVER REMOVED BEFORE DISCONNECTING AND LOCKING OUT THE MAIN POWER SUPPLY.



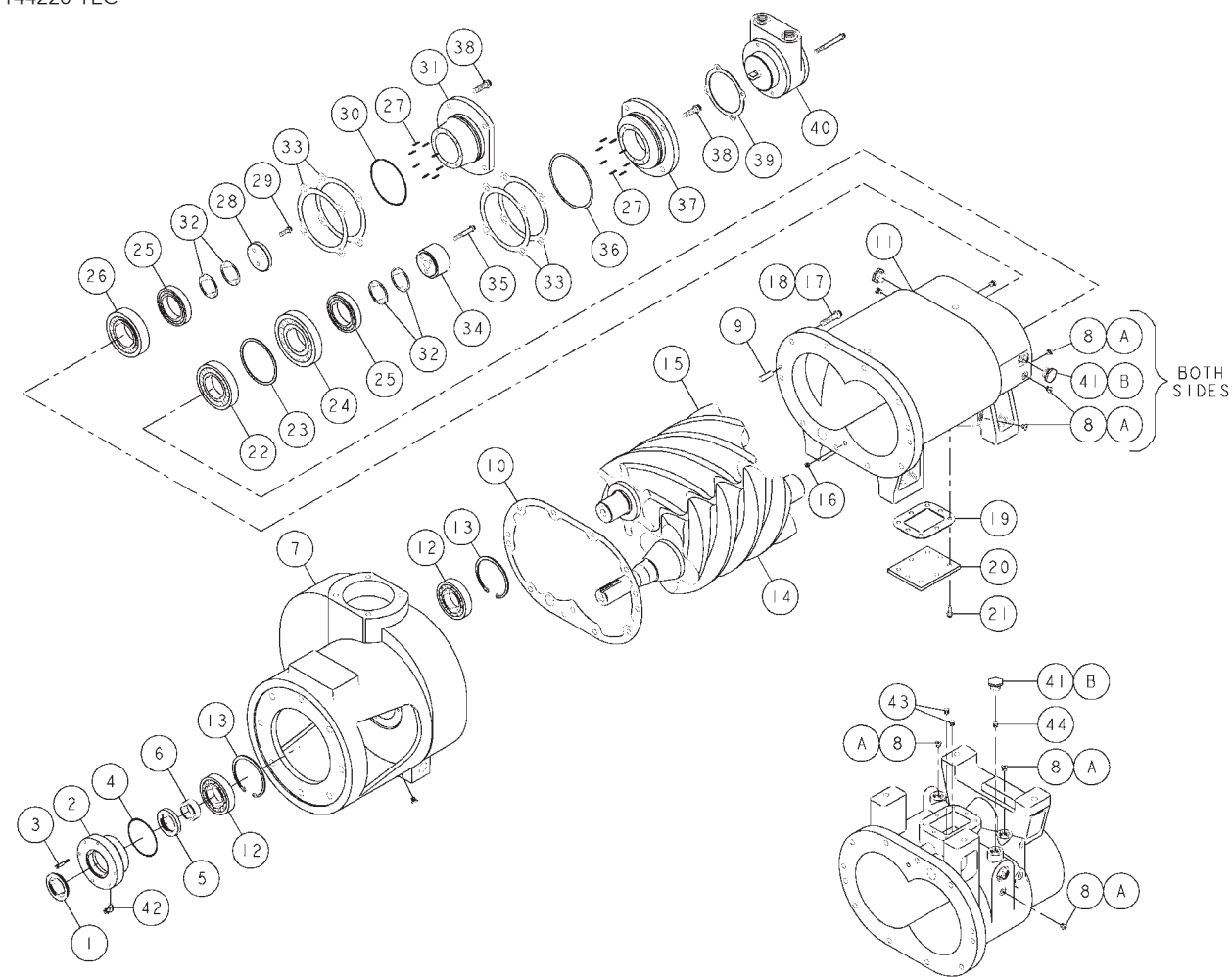
### DANGER



AIR IN THE PIPING FROM THIS EQUIPMENT WILL CAUSE SEVERE INJURY OR DEATH IF USED FOR BREATHING AIR OR FOOD PROCESSING (IF NON-FOOD GRADE FLUID IS USED). AIR USED FOR THESE PROCESSES MUST MEET OSHA29CFR1910.134 OR FDA21CFR178.3570 STANDARDS.

# Airend (QSI 220/245, L/LV) - 144220-001/-101

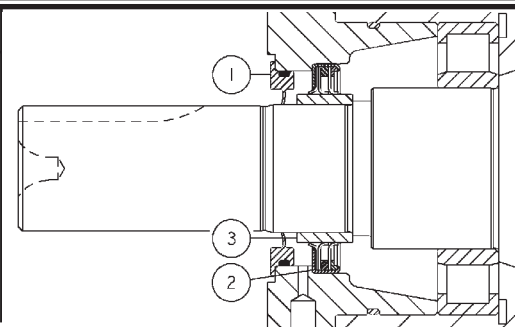
144220-TEC



## Shaft Seal Kit - 140209

| ITEM No. | QTY. | PART NUMBER | DESCRIPTION    |
|----------|------|-------------|----------------|
| 1        | 1    | 129613      | SLINGER        |
| 2        | 1    | 129612      | SHAFT SEAL     |
| 3        | 1    | 129610      | SEAL-WEAR RING |

REFERENCE INSTRUCTION MANUAL TO INSTALL COMPRESSOR SHAFT SEAL.  
TOOL KIT 140284 FOR 204 MM SHAFT SEAL AND WEAR RING INSTALLATION  
CAN BE PURCHASED FROM QUINCY COMPRESSOR.



# Airend (QSI 220/245, L/LV) - 144220-001/-101

| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                                                           |
|----------|------|-------------|---------------------------------------------------------------------------------------|
| 1        | 1    | 129613      | SLINGER                                                                               |
| 2        | 1    | 129466      | SEAL ADAPTER                                                                          |
| 3        | 4    | 90386-J15   | SCREW-COUNTERBORE, 1/4-20 UNC X 1.50,<br>GRADE 8 (@ 9 FT-LBS)                         |
| 4        | 1    | 22749-154   | O-RING, VITON, 3.75 I.D.                                                              |
| 5        | 1    | 129612      | SHAFT SEAL                                                                            |
| 6        | 1    | 129610      | SEAL-WEAR RING                                                                        |
| 7        | *    |             | CASING-INLET                                                                          |
| 8        | 14   | 128883-044  | PLUG-PIPE, 7/16-20 (O-RING)                                                           |
| 9        | 2    | 124145-005  | DOWEL PIN                                                                             |
| 10       | 1    | 141920      | GASKET-INLET HOUSING                                                                  |
| 11       | *    |             | ROTOR HOUSING                                                                         |
| 12       | *    |             | BEARING-ROTOR                                                                         |
| 13       | *    |             | BEARING                                                                               |
| 14       | *    |             | ROTOR-MALE, 204 MM                                                                    |
| 15       | *    |             | ROTOR-FEMALE, 204 MM                                                                  |
| 16       | 1    | 23207       | ORIFICE-PLUG, 0.12 NPT                                                                |
| 17       | 9    | 90386-N17   | SCREW-COUNTERBORE, 1/2-13 UNC X 2.00,<br>GRADE 8 (@ 75 FT-LBS)                        |
| 18       | 1    | 123478-N16  | SCREW-CAP, 1/2-13 UNC X 1.75, GRADE 5 (@ 55 FT-LBS)                                   |
| 19       | 1    | 22530       | GASKET-PLATE, FLUID GALLERY                                                           |
| 20       | 1    | 22528       | COVER PLATE-FLUID GALLERY                                                             |
| 21       | 8    | 90386-L12   | SCREW-COUNTERBORE, 3/8-16 UNC X 1.00,<br>GRADE 8 (@ 35 FT-LBS)                        |
| 22       | *    |             | BEARING-ROTOR                                                                         |
| 23       | 1    | 129964-002  | RING-BEARING RETAINER                                                                 |
| 24       | *    |             | BEARING-ROTOR                                                                         |
| 25       | *    |             | BEARING-ROTOR                                                                         |
| 26       | *    |             | BEARING-ROTOR                                                                         |
| 27       | 16   | 144066      | SPRING-COMPRESSION                                                                    |
| 28       | 1    | 143922      | BEARING RETAINER                                                                      |
| 29       | 3    | 90386-L14   | SCREW-COUNTERBORE, 3/8-16 UNC X 1.25,<br>GRADE 8 (@ 45 FT-LBS, BACK OFF TO 25 FT-LBS) |
| 30       | 1    | 22749-245   | O-RING, VITON, 4.38 I.D.                                                              |
| 31       | 1    | 143949      | END CAP-DISCHARGE                                                                     |
| 32       | **   | 140895      | SHIM-ROTOR, TEMPERED STEEL/BRASS                                                      |
| 33       | **   | 129997      | SHIM-ROTOR, TEMPERED STEEL/BRASS                                                      |
| 34       | 1    | 140894      | BEARING RETAINER                                                                      |
| 35       | 3    | 90386-L18   | SCREW-COUNTERBORE, 3/8-16 UNC X 2.25,<br>GRADE 8 (@ 45 FT-LBS, BACK OFF TO 25 FT-LBS) |
| 36       | 1    | 22749-252   | O-RING, VITON, 5.25 I.D.                                                              |
| 37       | 1    | 143919      | FLUID PUMP ADAPTER                                                                    |
| 38       | 8    | 90386-N15   | SCREW-COUNTERBORE, 1/2-13 UNC X 1.50,<br>GRADE 8 (@ 75 FT-LBS)                        |
| 39       | 1    | 22531       | GASKET-FLUID PUMP                                                                     |
| 40       | 1    | 125452-008  | PUMP-COMPRESSOR FLUID                                                                 |
| 41       | 3    | 128883-075  | PLUG-PIPE, 3/4-16 (O-RING)                                                            |
| 42       | 1    | 128967-001  | FITTING-ELBOW, 45° MALE, 0.25 TUBE X 0.12 NPT                                         |
| 43       | 2    | 126621-005  | ORIFICE-PLUG, 0.125 NPT                                                               |
| 44       | 1    | 126621-004  | ORIFICE-PLUG, 0.25 NPT                                                                |

## COMPONENT MAINTENANCE PARTS

|   |    |            |                          |
|---|----|------------|--------------------------|
| A | 14 | 140406-904 | O-RING, VITON, 0.35 I.D. |
| B | 3  | 140406-908 | O-RING, VITON, 0.64 I.D. |

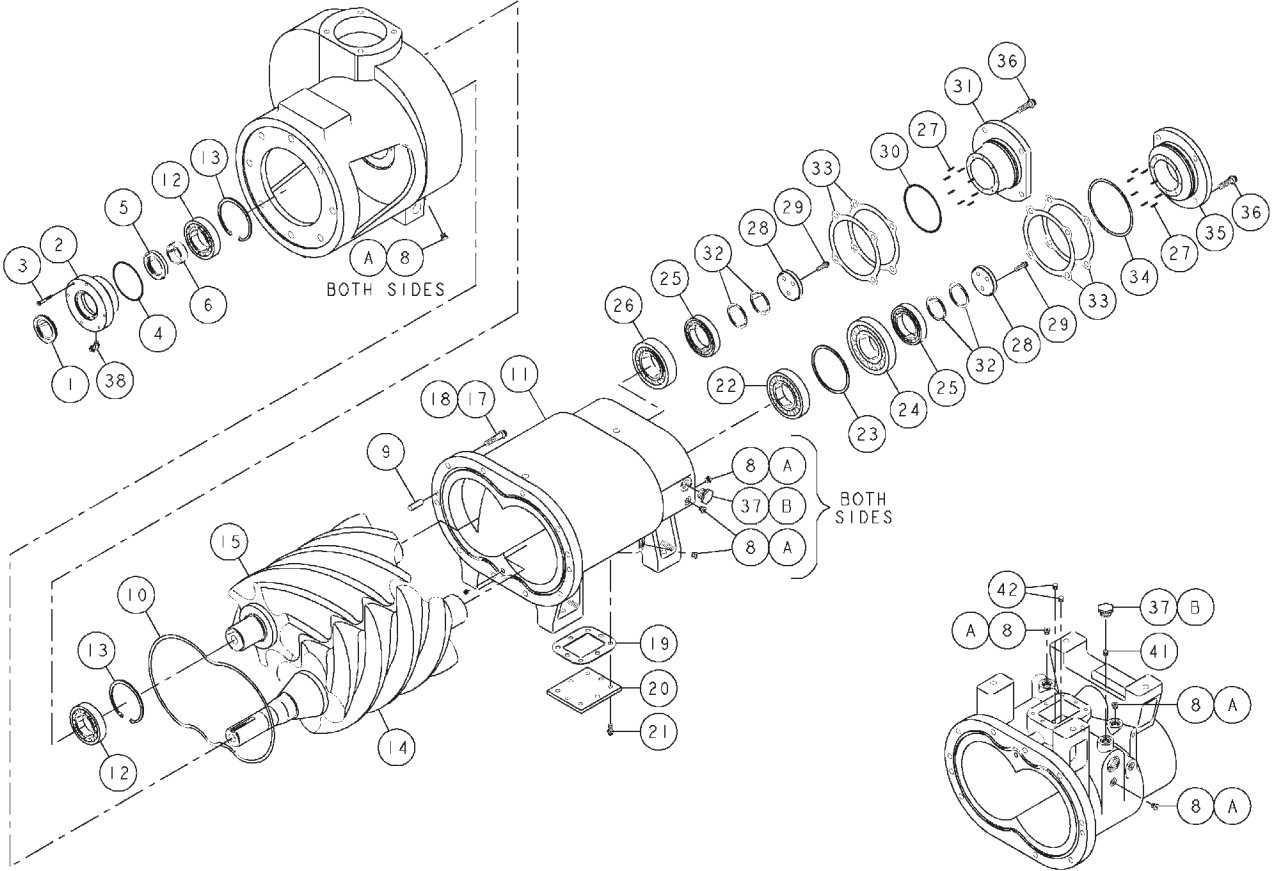
\* ITEMS NOT SOLD SEPARATELY, MUST BE ORDERED AS A COMPLETE AIREND.

\*\* QUANTITY AS REQUIRED.

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

# Airend (QSI 245, L/LV, 150-210#) - 144231-HP1

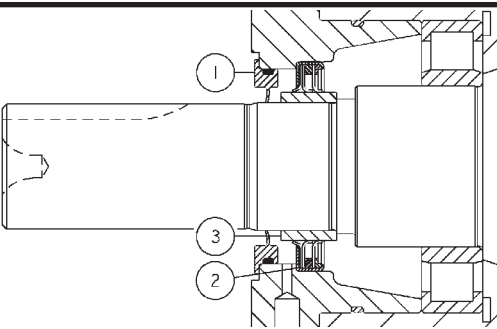
144231-TEC



## Shaft Seal Kit - 140209

| ITEM No. | QTY. | PART NUMBER | DESCRIPTION    |
|----------|------|-------------|----------------|
| 1        | 1    | 129613      | SLINGER        |
| 2        | 1    | 129612      | SHAFT SEAL     |
| 3        | 1    | 129610      | SEAL-WEAR RING |

REFERENCE INSTRUCTION MANUAL TO INSTALL COMPRESSOR SHAFT SEAL.  
TOOL KIT 140284 FOR 204 MM SHAFT SEAL AND WEAR RING INSTALLATION  
CAN BE PURCHASED FROM QUINCY COMPRESSOR.



# Airend (QSI 245, L/LV, 150-210#) - 144231-HP1

| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                                                           |
|----------|------|-------------|---------------------------------------------------------------------------------------|
| 1        | 1    | 129613      | SLINGER                                                                               |
| 2        | 1    | 129466      | SEAL ADAPTER                                                                          |
| 3        | 4    | 90386-J15   | SCREW-COUNTERBORE, 1/4-20 UNC X 1.50,<br>GRADE 8 (@ 9 FT-LBS)                         |
| 4        | 1    | 22749-154   | O-RING, VITON, 3.75 I.D.                                                              |
| 5        | 1    | 129612      | SHAFT SEAL                                                                            |
| 6        | 1    | 129610      | SEAL-WEAR RING                                                                        |
| 7        | *    |             | CASING-INLET                                                                          |
| 8        | 11   | 128883-044  | PLUG-PIPE, 7/16-20 (O-RING)                                                           |
| 9        | 2    | 124145-005  | DOWEL PIN                                                                             |
| 10       | 1    | 22749-457   | O-RING, VITON, 14.00 I.D.                                                             |
| 11       | *    |             | ROTOR HOUSING                                                                         |
| 12       | *    |             | BEARING-ROTOR                                                                         |
| 13       | *    |             | BEARING                                                                               |
| 14       | *    |             | ROTOR-MALE, 204 MM                                                                    |
| 15       | *    |             | ROTOR-FEMALE, 204 MM                                                                  |
| 16       | 1    | 23207       | ORIFICE-PLUG, 0.12 NPT                                                                |
| 17       | 9    | 90386-N17   | SCREW-COUNTERBORE, 1/2-13 UNC X 2.00,<br>GRADE 8 (@ 75 FT-LBS)                        |
| 18       | 1    | 123478-N16  | SCREW-CAP, 1/2-13 UNC X 1.75, GRADE 5 (@ 55 FT-LBS)                                   |
| 19       | 1    | 22530       | GASKET-PLATE, FLUID GALLERY                                                           |
| 20       | 1    | 22528       | COVER PLATE-FLUID GALLERY                                                             |
| 21       | 8    | 90386-L12   | SCREW-COUNTERBORE, 3/8-16 UNC X 1.00,<br>GRADE 8 (@ 35 FT-LBS)                        |
| 22       | *    |             | BEARING-ROTOR                                                                         |
| 23       | 1    | 129964-002  | RING-BEARING RETAINER                                                                 |
| 24       | *    |             | BEARING-ROTOR                                                                         |
| 25       | *    |             | BEARING-ROTOR                                                                         |
| 26       | *    |             | BEARING-ROTOR                                                                         |
| 27       | 16   | 144066      | SPRING-COMPRESSION                                                                    |
| 28       | 2    | 143922      | BEARING RETAINER                                                                      |
| 29       | 6    | 90386-L14   | SCREW-COUNTERBORE, 3/8-16 UNC X 1.25,<br>GRADE 8 (@ 45 FT-LBS, BACK OFF TO 25 FT-LBS) |
| 30       | 1    | 22749-245   | O-RING, VITON, 4.38 I.D.                                                              |
| 31       | 1    | 143949      | END CAP-DISCHARGE                                                                     |
| 32       | **   | 140895      | SHIM-ROTOR, TEMPERED STEEL/BRASS                                                      |
| 33       | **   | 129997      | SHIM-ROTOR, TEMPERED STEEL/BRASS                                                      |
| 34       | 1    | 22749-252   | O-RING, VITON, 5.25 I.D.                                                              |
| 35       | 1    | 143950      | END CAP-DISCHARGE                                                                     |
| 36       | 8    | 90386-N15   | SCREW-COUNTERBORE, 1/2-13 UNC X 1.50,<br>GRADE 8 (@ 75 FT-LBS)                        |
| 37       | 3    | 128883-075  | PLUG-PIPE, 3/4-16 (O-RING)                                                            |
| 38       | 1    | 128967-001  | FITTING-ELBOW, 45° MALE, 0.25 TUBE X 0.12 NPT                                         |
| 41       | 1    | 126621-004  | ORIFICE-PLUG, 0.25 NPT                                                                |
| 42       | 2    | 126621-005  | ORIFICE-PLUG, 0.125 NPT                                                               |

## COMPONENT MAINTENANCE PARTS

|   |    |            |                          |
|---|----|------------|--------------------------|
| A | 11 | 140406-904 | O-RING, VITON, 0.35 I.D. |
| B | 3  | 140406-908 | O-RING, VITON, 0.64 I.D. |

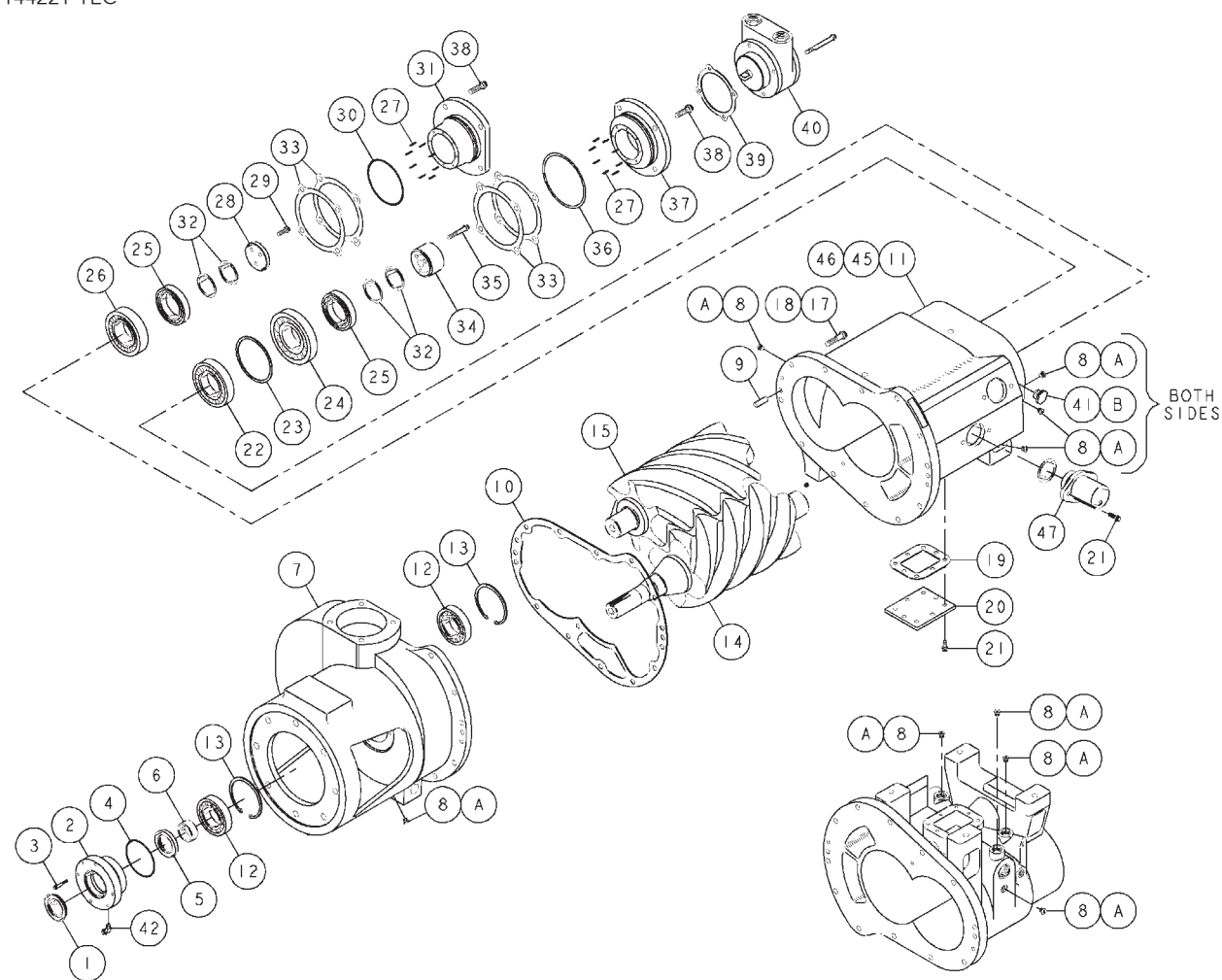
\* ITEMS NOT SOLD SEPARATELY, MUST BE ORDERED AS A COMPLETE AIREND.

\*\* QUANTITY AS REQUIRED.

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

# Airend (QSI 245, W/LV, 100-125#) - 144221-001

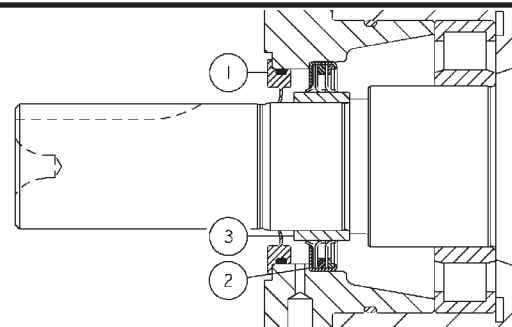
144221-TEC



## Shaft Seal Kit - 140209

| ITEM No. | QTY. | PART NUMBER | DESCRIPTION    |
|----------|------|-------------|----------------|
| 1        | 1    | 129613      | SLINGER        |
| 2        | 1    | 129612      | SHAFT SEAL     |
| 3        | 1    | 129610      | SEAL-WEAR RING |

REFERENCE INSTRUCTION MANUAL TO INSTALL COMPRESSOR SHAFT SEAL.  
TOOL KIT 140284 FOR 204 MM SHAFT SEAL AND WEAR RING INSTALLATION  
CAN BE PURCHASED FROM QUINCY COMPRESSOR.



# Airend (QSI 245, W/LV, 100-125#) - 144221-001

| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                                                        |
|----------|------|-------------|------------------------------------------------------------------------------------|
| 1        | 1    | 129613      | SLINGER                                                                            |
| 2        | 1    | 129466      | SEAL ADAPTER                                                                       |
| 3        | 4    | 90386-J15   | SCREW-COUNTERBORE, 1/4-20 UNC X 1.50, GRADE 8 (@ 9 FT-LBS)                         |
| 4        | 1    | 22749-154   | O-RING, VITON, 3.75 I.D.                                                           |
| 5        | 1    | 129612      | SHAFT SEAL                                                                         |
| 6        | 1    | 129610      | SEAL-WEAR RING                                                                     |
| 7        | *    |             | CASING-INLET                                                                       |
| 8        | 13   | 128883-044  | PLUG-PIPE, 7/16-20 (O-RING)                                                        |
| 9        | 2    | 124145-005  | DOWEL PIN                                                                          |
| 10       | 1    | 141474      | GASKET-INLET HOUSING                                                               |
| 11       | *    |             | ROTOR HOUSING                                                                      |
| 12       | *    |             | BEARING-ROTOR                                                                      |
| 13       | *    |             | BEARING                                                                            |
| 14       | *    |             | ROTOR-MALE, 204 MM                                                                 |
| 15       | *    |             | ROTOR-FEMALE, 204 MM                                                               |
| 16       | 1    | 23207       | ORIFICE-PLUG, 0.12 NPT                                                             |
| 17       | 11   | 90386-N17   | SCREW-COUNTERBORE, 1/2-13 UNC X 2.00, GRADE 8 (@ 75 FT-LBS)                        |
| 18       | 1    | 123478-N16  | SCREW-CAP, 1/2-13 UNC X 1.75, GRADE 5 (@ 55 FT-LBS)                                |
| 19       | 1    | 22530       | GASKET-PLATE, FLUID GALLERY                                                        |
| 20       | 1    | 22528       | COVER PLATE-FLUID GALLERY                                                          |
| 21       | 16   | 90386-L12   | SCREW-COUNTERBORE, 3/8-16 UNC X 1.00, GRADE 8 (@ 35 FT-LBS)                        |
| 22       | *    |             | BEARING-ROTOR                                                                      |
| 23       | 1    | 129964-002  | RING-BEARING RETAINER                                                              |
| 24       | *    |             | BEARING-ROTOR                                                                      |
| 25       | *    |             | BEARING-ROTOR                                                                      |
| 26       | *    |             | BEARING-ROTOR                                                                      |
| 27       | 16   | 144066      | SPRING-COMPRESSION                                                                 |
| 28       | 1    | 143922      | BEARING RETAINER                                                                   |
| 29       | 3    | 90386-L14   | SCREW-COUNTERBORE, 3/8-16 UNC X 1.25, GRADE 8 (@ 45 FT-LBS, BACK OFF TO 25 FT-LBS) |
| 30       | 1    | 22749-245   | O-RING, VITON, 4.38 I.D.                                                           |
| 31       | 1    | 143949      | END CAP-DISCHARGE                                                                  |
| 32       | **   | 140895      | SHIM-ROTOR, TEMPERED STEEL/BRASS                                                   |
| 33       | **   | 129997      | SHIM-ROTOR, TEMPERED STEEL/BRASS                                                   |
| 34       | 1    | 140894      | BEARING RETAINER                                                                   |
| 35       | 3    | 90386-L18   | SCREW-COUNTERBORE, 3/8-16 UNC X 2.25, GRADE 8 (@ 45 FT-LBS, BACK OFF TO 25 FT-LBS) |
| 36       | 1    | 22749-252   | O-RING, VITON, 5.25 I.D.                                                           |
| 37       | 1    | 143919      | FLUID PUMP ADAPTER                                                                 |
| 38       | 8    | 90386-N15   | SCREW-COUNTERBORE, 1/2-13 UNC X 1.50, GRADE 8 (@ 75 FT-LBS)                        |
| 39       | 1    | 22531       | GASKET-FLUID PUMP                                                                  |
| 40       | 1    | 125452-008  | PUMP-COMPRESSOR FLUID                                                              |
| 41       | 2    | 128883-075  | PLUG-PIPE, 3/4-16 (O-RING)                                                         |
| 42       | 1    | 128967-001  | FITTING-ELBOW, 45° MALE, 0.25 TUBE X 0.12 NPT                                      |
| 45       | 1    | 142854      | PATENT PLATE                                                                       |
| 46       | 2    | 4029        | PIN-DATA PLATE                                                                     |
| 47       | 4    | 141449-1    | LIFT VALVE (INCLUDES O-RING 22749-141)                                             |

## COMPONENT MAINTENANCE PARTS

|   |    |            |                          |
|---|----|------------|--------------------------|
| A | 13 | 140406-904 | O-RING, VITON, 0.35 I.D. |
| B | 2  | 140406-908 | O-RING, VITON, 0.64 I.D. |

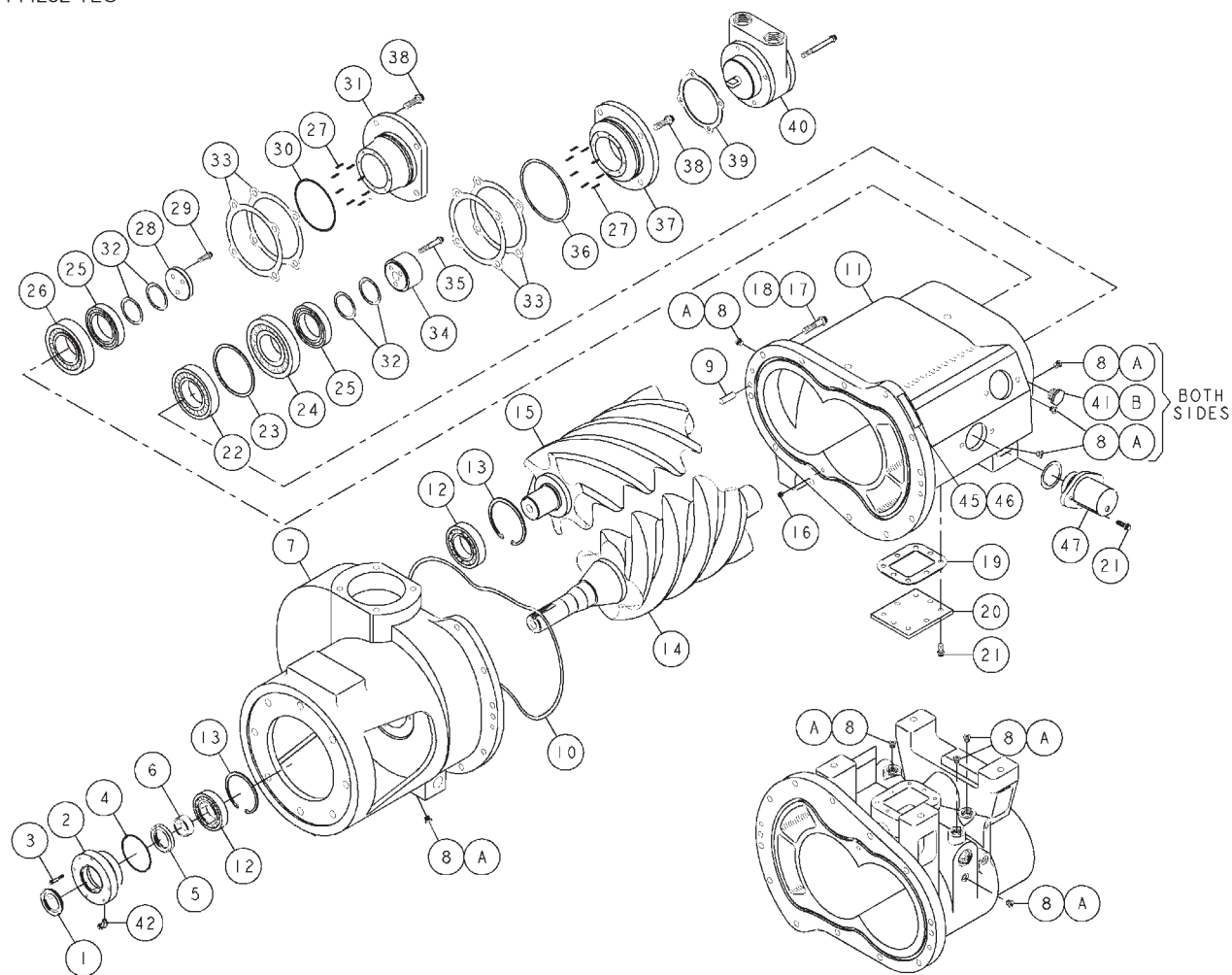
\* ITEMS NOT SOLD SEPARATELY, MUST BE ORDERED AS A COMPLETE AIREND.

\*\* QUANTITY AS REQUIRED.

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

# Airend (QSI 245, W/LV, 150#) - 144232-HP1

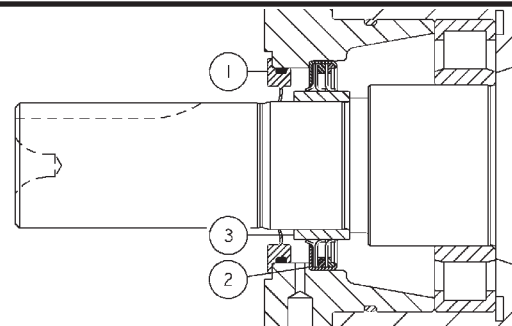
144232-TEC



## Shaft Seal Kit - 140209

| ITEM No. | QTY. | PART NUMBER | DESCRIPTION    |
|----------|------|-------------|----------------|
| 1        | 1    | 129613      | SLINGER        |
| 2        | 1    | 129612      | SHAFT SEAL     |
| 3        | 1    | 129610      | SEAL-WEAR RING |

REFERENCE INSTRUCTION MANUAL TO INSTALL COMPRESSOR SHAFT SEAL.  
TOOL KIT 140284 FOR 204 MM SHAFT SEAL AND WEAR RING INSTALLATION  
CAN BE PURCHASED FROM QUINCY COMPRESSOR.



# Airend (QSI 245, W/LV, 150#) - 144232-HP1

| ITEM No.                                  | QTY. | PART NUMBER | DESCRIPTION                                                                           |
|-------------------------------------------|------|-------------|---------------------------------------------------------------------------------------|
| 1                                         | 1    | 129613      | SLINGER                                                                               |
| 2                                         | 1    | 129466      | SEAL ADAPTER                                                                          |
| 3                                         | 4    | 90386-J15   | SCREW-COUNTERBORE, 1/4-20 UNC X 1.50,<br>GRADE 8 (@ 9 FT-LBS)                         |
| 4                                         | 1    | 22749-154   | O-RING, VITON, 3.75 I.D.                                                              |
| 5                                         | 1    | 129612      | SHAFT SEAL                                                                            |
| 6                                         | 1    | 129610      | SEAL-WEAR RING                                                                        |
| 7                                         | *    |             | CASING-INLET                                                                          |
| 8                                         | 12   | 128883-044  | PLUG-PIPE, 7/16-20 (O-RING)                                                           |
| 9                                         | 2    | 124145-005  | DOWEL PIN                                                                             |
| 10                                        | 1    | 22749-461   | O-RING, VITON, 16.00 I.D.                                                             |
| 11                                        | *    |             | ROTOR HOUSING                                                                         |
| 12                                        | *    |             | BEARING-ROTOR                                                                         |
| 13                                        | *    |             | BEARING                                                                               |
| 14                                        | *    |             | ROTOR-MALE, 204 MM                                                                    |
| 15                                        | *    |             | ROTOR-FEMALE, 204 MM                                                                  |
| 16                                        | 1    | 23207       | ORIFICE-PLUG, 0.12 NPT                                                                |
| 17                                        | 9    | 90386-N17   | SCREW-COUNTERBORE, 1/2-13 UNC X 2.00,<br>GRADE 8 (@ 75 FT-LBS)                        |
| 18                                        | 1    | 123478-N16  | SCREW-CAP, 1/2-13 UNC X 1.75, GRADE 5 (@ 55 FT-LBS)                                   |
| 19                                        | 1    | 22530       | GASKET-PLATE, FLUID GALLERY                                                           |
| 20                                        | 1    | 22528       | COVER PLATE-FLUID GALLERY                                                             |
| 21                                        | 16   | 90386-L12   | SCREW-COUNTERBORE, 3/8-16 UNC X 1.00,<br>GRADE 8 (@ 35 FT-LBS)                        |
| 22                                        | *    |             | BEARING-ROTOR                                                                         |
| 23                                        | 1    | 129964-002  | RING-BEARING RETAINER                                                                 |
| 24                                        | *    |             | BEARING-ROTOR                                                                         |
| 25                                        | *    |             | BEARING-ROTOR                                                                         |
| 26                                        | *    |             | BEARING-ROTOR                                                                         |
| 27                                        | 16   | 144066      | SPRING-COMPRESSION                                                                    |
| 28                                        | 1    | 143922      | BEARING RETAINER                                                                      |
| 29                                        | 3    | 90386-L14   | SCREW-COUNTERBORE, 3/8-16 UNC X 1.25,<br>GRADE 8 (@ 45 FT-LBS, BACK OFF TO 25 FT-LBS) |
| 30                                        | 1    | 22749-245   | O-RING, VITON, 4.38 I.D.                                                              |
| 31                                        | 1    | 143949      | END CAP-DISCHARGE                                                                     |
| 32                                        | **   | 140895      | SHIM-ROTOR, TEMPERED STEEL/BRASS                                                      |
| 33                                        | **   | 129997      | SHIM-ROTOR, TEMPERED STEEL/BRASS                                                      |
| 34                                        | 1    | 140894      | BEARING RETAINER                                                                      |
| 35                                        | 3    | 90386-L18   | SCREW-COUNTERBORE, 3/8-16 UNC X 2.25,<br>GRADE 8 (@ 45 FT-LBS, BACK OFF TO 25 FT-LBS) |
| 36                                        | 1    | 22749-252   | O-RING, VITON, 5.25 I.D.                                                              |
| 37                                        | 1    | 143919      | FLUID PUMP ADAPTER                                                                    |
| 38                                        | 8    | 90386-N15   | SCREW-COUNTERBORE, 1/2-13 UNC X 1.50,<br>GRADE 8 (@ 75 FT-LBS)                        |
| 39                                        | 1    | 22531       | GASKET-FLUID PUMP                                                                     |
| 40                                        | 1    | 125452-008  | PUMP-COMPRESSOR FLUID                                                                 |
| 41                                        | 2    | 128883-075  | PLUG-PIPE, 3/4-16 (O-RING)                                                            |
| 42                                        | 1    | 128967-001  | FITTING-ELBOW, 45° MALE, 0.25 TUBE X 0.12 NPT                                         |
| 45                                        | 1    | 142854      | PATENT PLATE                                                                          |
| 46                                        | 2    | 4029        | PIN-DATA PLATE                                                                        |
| 47                                        | 4    | 141449-1    | LIFT VALVE (INCLUDES O-RING 22749-141)                                                |
| <b><u>COMPONENT MAINTENANCE PARTS</u></b> |      |             |                                                                                       |
| A                                         | 12   | 140406-904  | O-RING, VITON, 0.35 I.D.                                                              |
| B                                         | 2    | 140406-908  | O-RING, VITON, 0.64 I.D.                                                              |

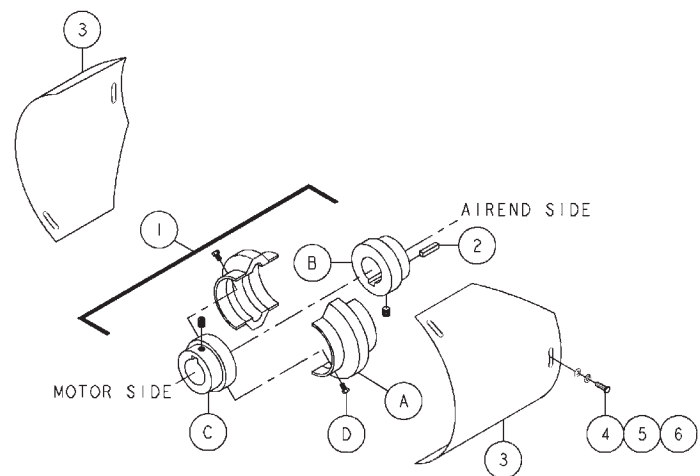
\* ITEMS NOT SOLD SEPARATELY, MUST BE ORDERED AS A COMPLETE AIREND.

\*\* QUANTITY AS REQUIRED.

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

LIFT VALVE OPTION AVAILABLE AT 145# MAXIMUM FULL LOAD PRESSURE.

# Drive Coupling - 129771-001/-004



NOTES-UNLESS OTHERWISE SPECIFIED:  
1) COUPLING HUBS MUST BE INSTALLED WITH KEYWAYS OFFSET 180° (1/2 TURN) TO MAINTAIN COUPLING BALANCE.

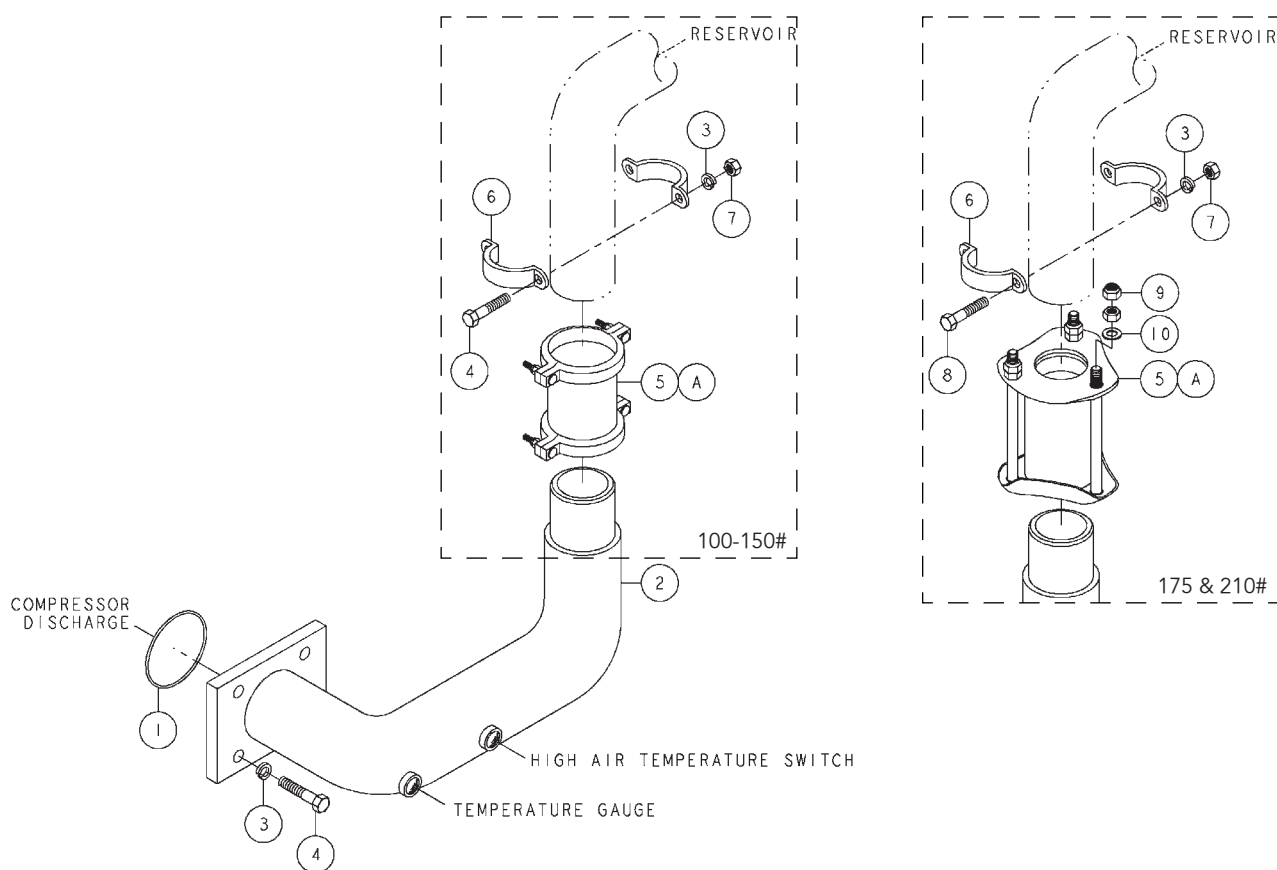
| ITEM NO. | QTY. | PART NUMBER | DESCRIPTION                                          |
|----------|------|-------------|------------------------------------------------------|
| 1        | 1    | 128387-105  | COUPLING-DRIVE                                       |
| 2        | 1    | 20109       | SHAFT KEY                                            |
| 3        | 2    | 129673      | GUARD-COUPLING (LESS LIFT VALVES)                    |
|          | 2    | 141962      | GUARD-COUPLING (POWER\$YNC, WITH LIFT VALVES)        |
| 4        | 6    | 123478-K10  | SCREW-CAP, 5/16-18 UNC X 0.75, GRADE 5 (@ 13 FT-LBS) |
| 5        | 6    | 110428N031  | WASHER-FLAT, 0.31                                    |
| 6        | 6    | 123115-05C  | LOCKWASHER, 0.31                                     |

## COMPONENT MAINTENANCE PARTS

|   |   |            |                                                                         |
|---|---|------------|-------------------------------------------------------------------------|
| A | 1 | 128387-404 | ELEMENT-DRIVE COUPLING<br>(1 PAIR OF HALVES SOLD AS A MATCHED SET ONLY) |
| B | 1 | 128387-302 | HUB-COUPLING, AIREND SIDE (INCLUDES SET SCREW)                          |
| C | 1 | 128387-204 | HUB-COUPLING, MOTOR SIDE (INCLUDES SET SCREW)                           |
| D | 1 | 128387-502 | BOLT KIT-DRIVE COUPLING (@ 30 FT-LBS)                                   |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

# Discharge Piping - 129697-001/142272-001



| ITEM NO. | QTY. | PART NUMBER | DESCRIPTION                                         |
|----------|------|-------------|-----------------------------------------------------|
| 1        | 1    | 22749-333   | O-RING, VITON, 2.50I.D.                             |
| 2        | 1    | 129582      | DISCHARGE MANIFOLD                                  |
| 3        | 6    | 123115-08C  | LOCKWASHER, 0.50                                    |
| 4*       | 6    | 123478-N15  | SCREW-CAP, 1/2-13 UNC X 1.50, GRADE 5 (@ 55 FT-LBS) |
| 5        | 1    | 140509S200  | COUPLING-FLEXIBLE (100-150#)                        |
| 5        | 1    | 140394-020  | COUPLING-FLEXIBLE JOINT (175 & 210#)                |
| 6        | 1    | 124450-001  | CLAMP-PIPE, 2.00                                    |
| 7        | 2    | 124364-N02  | NUT-HEX, 1/2-13 UNC                                 |
| 8**      | 2    | 123478-N14  | SCREW-CAP, 1/2-13 UNC X 1.25, GRADE 5 (@ 55 FT-LBS) |
| 9**      | 3    | 143389-K02  | NUT-HEX, 5/8-11 UNC                                 |
| 10**     | 3    | 110428W062  | WASHER-FLAT, 0.63                                   |

## COMPONENT MAINTENANCE PARTS

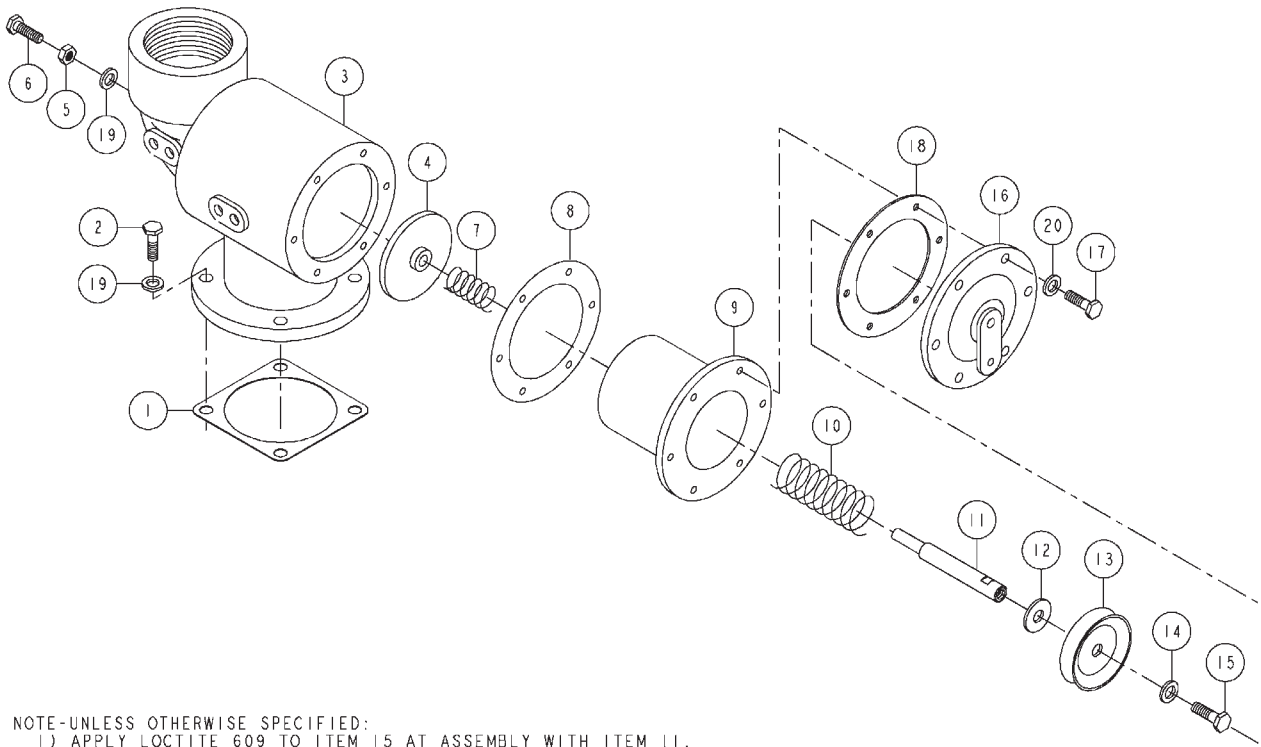
|   |   |            |                              |
|---|---|------------|------------------------------|
| A | 2 | 140509G200 | GASKET-COUPLING (100-150#)   |
|   | 2 | 140394-F20 | GASKET-COUPLING (175 & 210#) |

\* QUANTITY OF FOUR (4) ON 175 & 210# UNITS.

\*\* ITEMS 8, 9 & 10 USED ONLY ON 175 & 210# UNITS.

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

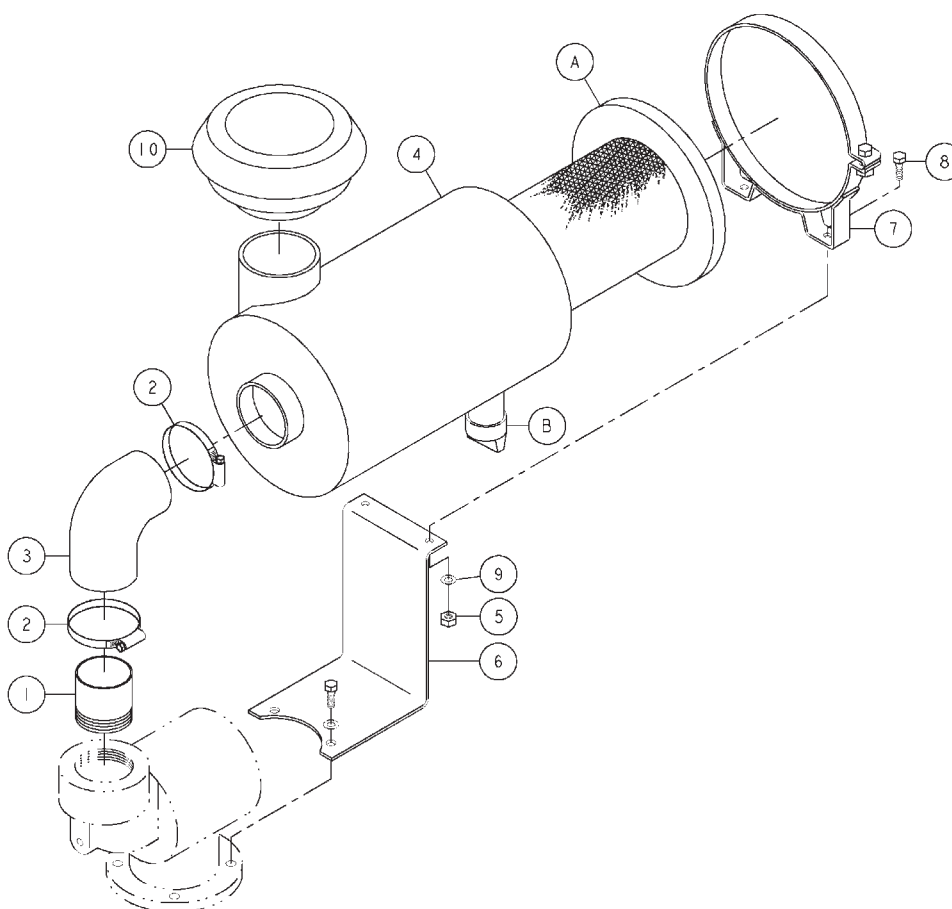
## Inlet Valve - 126650



NOTE-UNLESS OTHERWISE SPECIFIED:  
1) APPLY LOCTITE 609 TO ITEM 15 AT ASSEMBLY WITH ITEM 11.

| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                               |
|----------|------|-------------|-----------------------------------------------------------|
| 1        | 1    | 141608      | GASKET-INLET VALVE                                        |
| 2        | 4    | 142578-N15  | SCREW-CAP, ZINC, 1/2-13 UNC X 1.50, GRADE 5 (@ 23 FT-LBS) |
| 3        | 1    | 126646      | INLET VALVE HOUSING                                       |
| 4        | 1    | 122995      | ASSEMBLY-INLET VALVE PLATE (INCLUDES BUSHING-P/N 23681)   |
| 5        | 1    | 124368-N02  | NUT-JAM, 1/2-13 UNC                                       |
| 6        | 1    | 128720-001  | SCREW-HEX HEAD, 1/2-13 UNC X 5.00, GRADE 5 (@ 55 FT-LBS)  |
| 7        | 1    | 123092      | SPRING                                                    |
| 8        | 1    | 123549-003  | GASKET-6.50 O.D. X 4.56 I.D.                              |
| 9        | 1    | 126644      | CYLINDER-INLET VALVE (INCLUDES BUSHING-P/N 22880)         |
| 10       | 1    | 126649      | SPRING-INLET VALVE                                        |
| 11       | 1    | 126648      | INLET VALVE SHAFT                                         |
| 12       | 1    | 126647      | WASHER-FLAT, 0.56                                         |
| 13       | 1    | 126460-350  | CUP-PISTON                                                |
| 14       | 1    | 1478-1      | WASHER-FLAT, 0.52                                         |
| 15       | 1    | 123478-N12  | SCREW-CAP, 1/2-13 UNC X 1.00, GRADE 5 (@ 55 FT-LBS)       |
| 16       | 1    | 126645      | COVER PLATE-INLET VALVE                                   |
| 17       | 6    | 123478-L15  | SCREW-CAP, 3/8-16 UNC X 1.50, GRADE 5 (@ 23 FT-LBS)       |
| 18       | 1    | 141258      | GASKET-INLET VALVE                                        |
| 19       | 5    | 123115-08C  | LOCKWASHER, 0.50                                          |
| 20       | 6    | 123115-06C  | LOCKWASHER, 0.38                                          |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).



NOTES-UNLESS OTHERWISE SPECIFIED:  
1) ITEM 10 NOT USED ON UNITS WITH CABINET.

| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                        |
|----------|------|-------------|----------------------------------------------------|
| 1        | 1    | 126039-017  | PIPE NIPPLE-3.50 NPT X 3.00, TOE                   |
| 2        | 2    | 110423-072  | CLAMP-HOSE                                         |
| 3        | 1    | 122934-09   | ELBOW-RUBBER                                       |
| 4        | 1    | 22864-21    | AIR FILTER                                         |
| 5        | 2    | 124364-L02  | HEX NUT-3/8-16 UNC                                 |
| 6        | 1    | 126859      | BRACKET-AIR FILTER                                 |
| 7        | 1    | 120045      | BAND-AIR FILTER                                    |
| 8        | 2    | 123478-L12  | CAP SCREW-3/8-16 UNC X 1.00, GRADE 5 (@ 23 FT-LBS) |
| 9        | 2    | 123115-06C  | LOCKWASHER, 0.38                                   |
| 10       | 1    | 145831-0500 | HOOD-AIR FILTER (USED ONLY ON UNITS LESS CABINET)  |

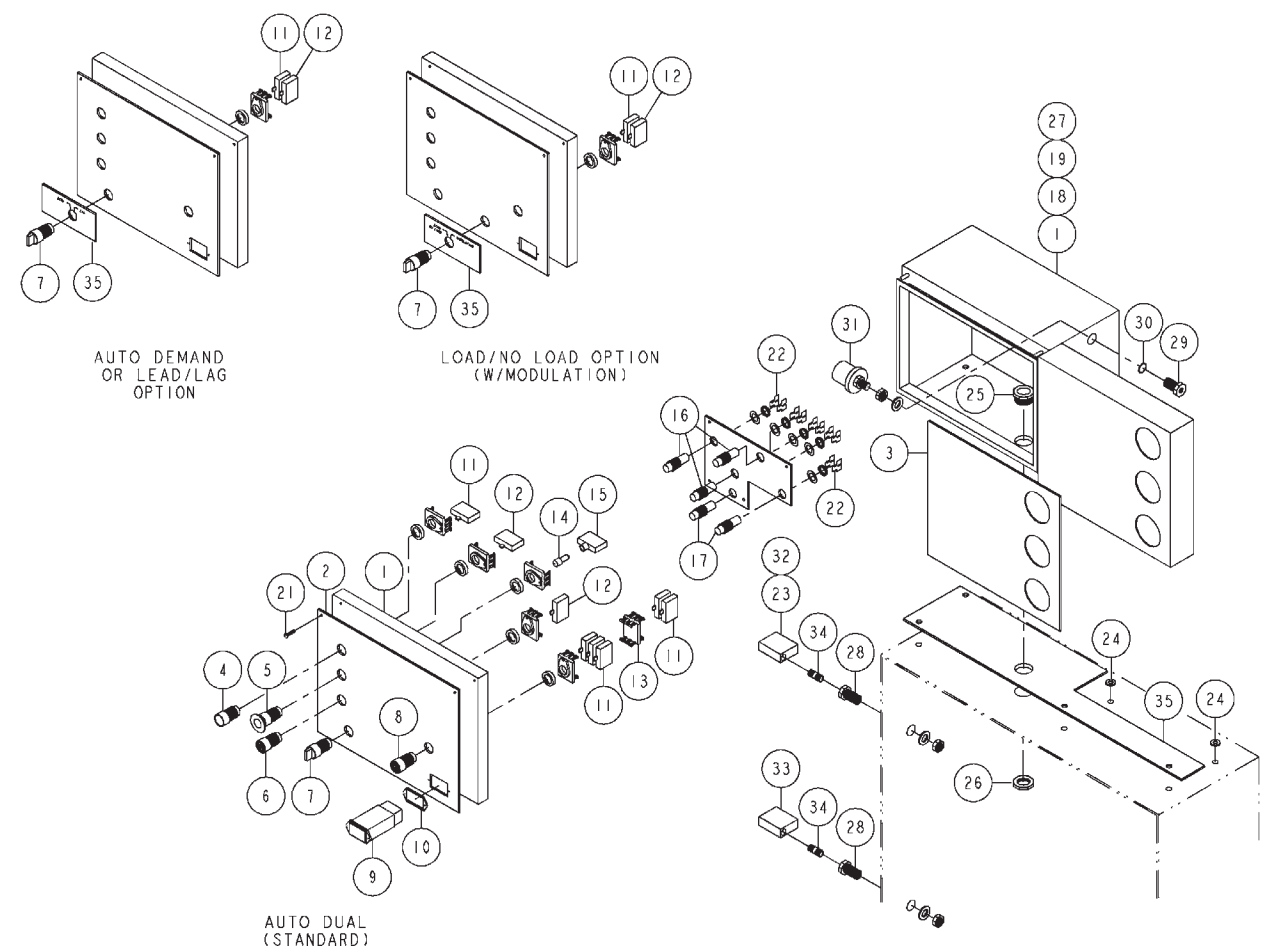
## COMPONENT MAINTENANCE PARTS

|   |   |         |                      |
|---|---|---------|----------------------|
| A | 1 | 23458-4 | ELEMENT-AIR FILTER   |
| B | 1 | 121291  | VALVE-DUST EVACUATOR |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

# Annunciator (standard)

143815

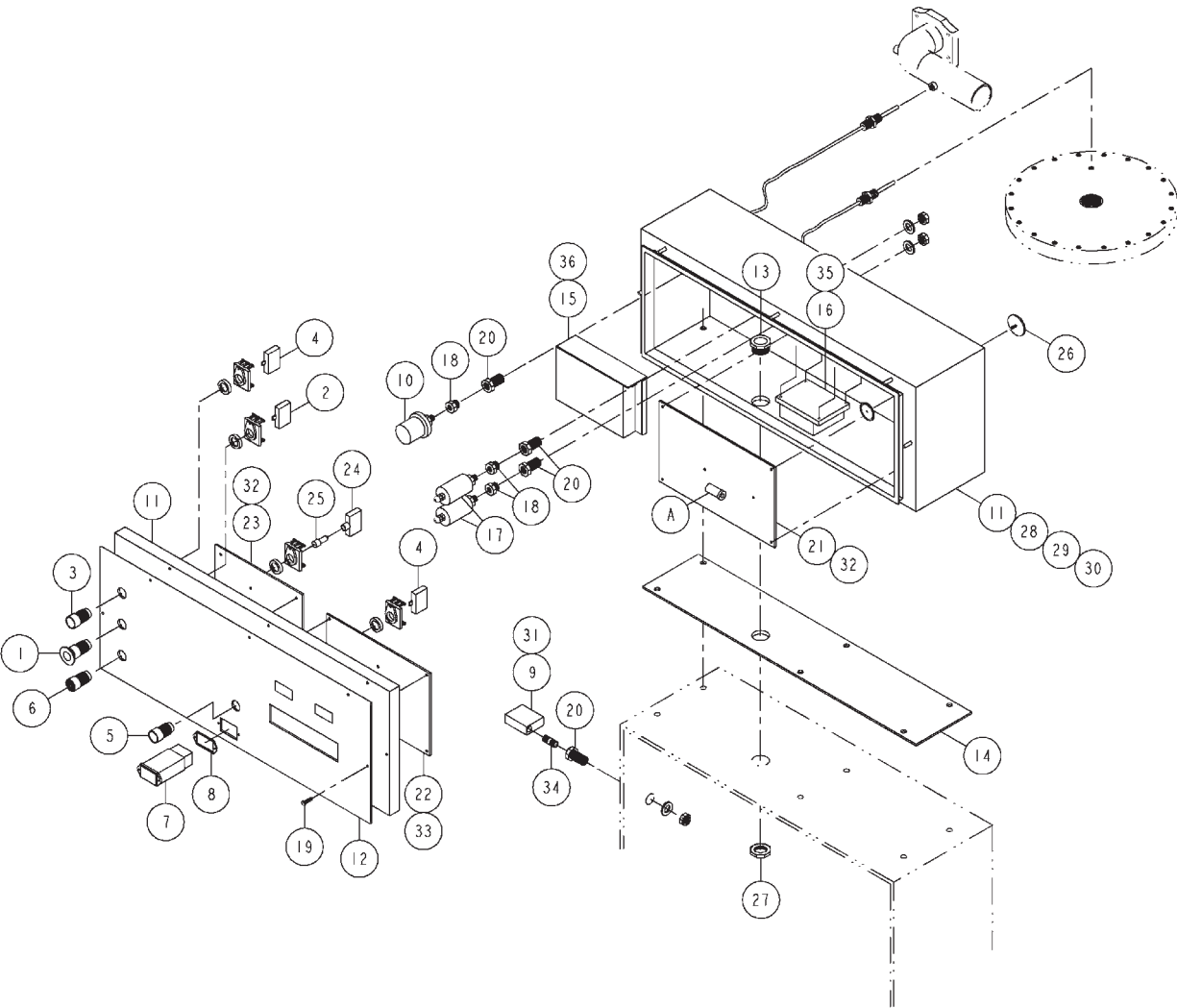


## Annunciator (standard)

| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                        |
|----------|------|-------------|----------------------------------------------------|
| 1        | 1    | 140430      | ANNUNCIATOR ENCLOSURE                              |
| 2        | 1    | 140684      | ANNUNCIATOR DECAL                                  |
| 3        | 1    | 140685      | ANNUNCIATOR DECAL                                  |
| 4        | 1    | 129863-02   | START BUTTON                                       |
| 5        | 1    | 129863-01   | STOP BUTTON                                        |
| 6        | 1    | 129866      | LENS CAP-AMBER                                     |
| 7        | 1    | 129865      | SELECTOR SWITCH                                    |
| 8        | 1    | 129863-03   | TEST BUTTON                                        |
| 9        | 1    | 110871-120  | HOURLMETER (60 Hz)                                 |
|          | 1    | 110871-125  | HOURLMETER (50 Hz)                                 |
| 10       | 1    | 126972      | GASKET-HOURLMETER                                  |
| 11       | 6    | 129864-01   | CONTACT BLOCK (NORMALLY OPEN)                      |
| 12       | 2    | 129864-02   | CONTACT BLOCK (NORMALLY CLOSED)                    |
| 13       | 1    | 140142      | SWITCH-CLIP                                        |
| 14       | 1    | 143144-01   | LAMP-AMBER                                         |
| 15       | 1    | 140123      | BASE-LAMP                                          |
| 16       | 3    | 129568-004  | ANNUNCIATOR LIGHT-YELLOW                           |
| 17       | 2    | 129568-003  | ANNUNCIATOR LIGHT-RED                              |
| 18       | 4    | 123478-L10  | CAP SCREW-3/8-16 UNC X 0.75, GRADE 5 (@ 23 FT-LBS) |
| 19       | 4    | 110428N038  | FLAT WASHER-0.38                                   |
| 20       | 1    | 140552      | GASKET-ANNUNCIATOR                                 |
| 21       | 2    | 123200-E04  | PAN HEAD SCREW-#6-32 UNC X 0.31                    |
| 22       | 10   | 129867      | ADAPTER-TAB                                        |
| 23       | 6    | 140399-01   | WIRE TERMINAL-QUICK CONNECT                        |
| 24       | 2    | 140670-38   | WASHER-SELFLOCK, ZINC                              |
| 25       | 1    | 23919-003   | FITTING-CONDUIT, CHASE NIPPLE, 1.00                |
| 26       | 1    | 40605       | LOCKNUT-CONDUIT, 1.00                              |
| 27       | 4    | 124370-L02  | LOCKNUT, 3/8-16 UNC                                |
| 28       | 2    | 129203-003  | COUPLING-BULKHEAD                                  |
| 29       | 1    | 129203-001  | COUPLING-BULKHEAD                                  |
| 30       | 1    | 123157-115  | O-RING, BUNA-N, 0.69 I.D.                          |
| 31       | 1    | 129597-001  | VACUUM SWITCH                                      |
| 32       | 1    | 129596-001  | DIFFERENTIAL PRESSURE SWITCH (10#)                 |
| 33       | 1    | 129596-002  | DIFFERENTIAL PRESSURE SWITCH (19#)                 |
| 34       | 2    | 142125-2    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X 1.25        |
| 35       | 1    | 140686      | ANNUNCIATOR DECAL-AUTO DEMAND                      |
|          | 1    | 140687      | ANNUNCIATOR DECAL-LEAD/LAG                         |
|          | 1    | 140688      | ANNUNCIATOR DECAL-LOAD/NO LOAD, MODULATION         |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

# Annunciator (Power\$ync) - 129591-009/-010



## Annunciator (Power\$ync) - 129591-009/-010

| ITEM No.          | QTY. | PART NUMBER | DESCRIPTION                                        |
|-------------------|------|-------------|----------------------------------------------------|
| 1                 | 1    | 129863-01   | STOP BUTTON                                        |
| 2                 | 1    | 129864-02   | CONTACT BLOCK (NORMALLY CLOSED)                    |
| 3                 | 1    | 129863-02   | START BUTTON                                       |
| 4                 | 2    | 129864-01   | CONTACT BLOCK (NORMALLY OPEN)                      |
| 5                 | 1    | 129863-03   | TEST BUTTON                                        |
| 6                 | 1    | 129866      | LENS CAP-AMBER                                     |
| 7                 | 1    | 110871-120  | HOURLMETER (60 Hz)                                 |
|                   | 1    | 110871-125  | HOURLMETER (50 Hz)                                 |
| 8                 | 1    | 126972      | GASKET-HOURLMETER                                  |
| 9                 | 1    | 129596-003  | DIFFERENTIAL PRESSURE SWITCH (19#)                 |
| 10                | 1    | 129597-001  | VACUUM SWITCH                                      |
| 11                | 1    | 145770      | ANNUNCIATOR ENCLOSURE                              |
| 12                | 1    | 141813      | ANNUNCIATOR DECAL                                  |
| 13                | 1    | 23919-003   | FITTING-CONDUIT, CHASE NIPPLE, 1.00                |
| 14                | 1    | 140552      | GASKET-ANNUNCIATOR                                 |
| 16                | 1    | 143036      | LINE FILTER                                        |
| 17                | 2    | 145072      | PRESSURE TRANSDUCER (0-300#)                       |
| 18                | 3    | 143046-008  | PIPE BUSHING-0.25 NPT X 0.12 NPT                   |
| 19                | 2    | 123200-E04  | PAN HEAD SCREW-#6-32 UNC X 0.31                    |
| 20                | 4    | 129203-003  | COUPLING-BULKHEAD                                  |
| 21                | 1    | 140265-1C   | MICROPROCESSOR BOARD                               |
| 22                | 1    | 140265-2A   | DISPLAY BOARD                                      |
| 23                | 1    | 140265-3B   | ANNUNCIATOR BOARD                                  |
| 24                | 1    | 140123      | BASE-LAMP                                          |
| 25                | 1    | 143144-01   | LAMP-AMBER                                         |
| 26                | 1    | 40825-204   | BLANK-CONDUIT                                      |
| 27                | 1    | 40605       | LOCKNUT-CONDUIT, 1.00                              |
| 28                | 6    | 123478-L10  | CAP SCREW-3/8-16 UNC X 0.75, GRADE 5 (@ 23 FT-LBS) |
| 29                | 6    | 110428N038  | FLAT WASHER-0.38                                   |
| 30                | 6    | 124370-L02  | LOCKNUT, 3/8-16 UNC                                |
| 31                | 6    | 140399-01   | WIRE TERMINAL-QUICK CONNECT                        |
| 32                | 12   | 143013-H05  | PAN HEAD SCREW-#10-32 UNF X 0.38                   |
| 33                | 6    | 143013-H03  | PAN HEAD SCREW-#10-32 UNF X 0.25                   |
| 34                | 1    | 142125-2    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X 1.25        |
| 35                | 4    | 123200-F09  | PAN HEAD SCREW-#8-32 UNC X 0.63                    |
| <b>NOT SHOWN:</b> |      |             |                                                    |
|                   | 2    | 145072C02   | CABLE ASSEMBLY-8 INCH                              |

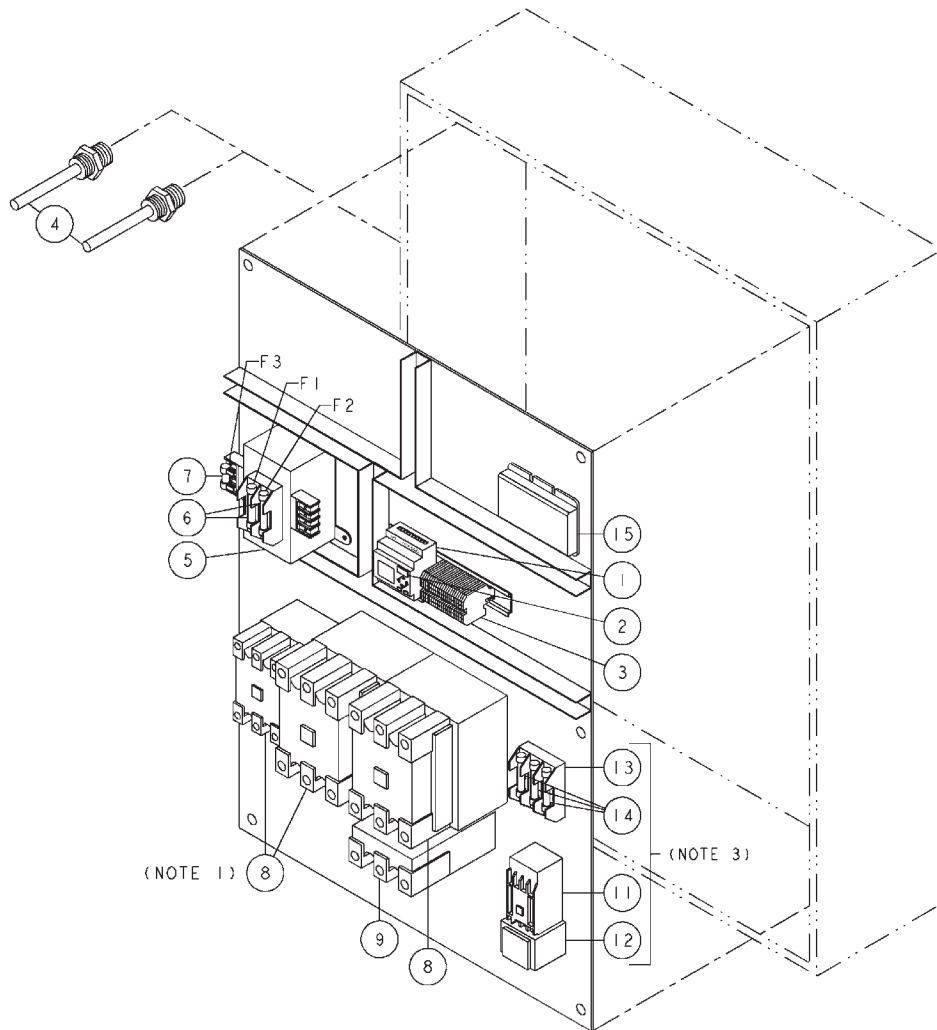
### COMPONENT MAINTENANCE PARTS

|   |   |            |                 |
|---|---|------------|-----------------|
| A | 1 | 140734-001 | LITHIUM BATTERY |
|---|---|------------|-----------------|

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).  
 POWER\$YNC OPTION AVAILABLE AT 145# MAXIMUM FULL LOAD PRESSURE.

# Electrical Control & Starting (Standard PLC Control)

PIX5090



NOTES-UNLESS OTHERWISE SPECIFIED:

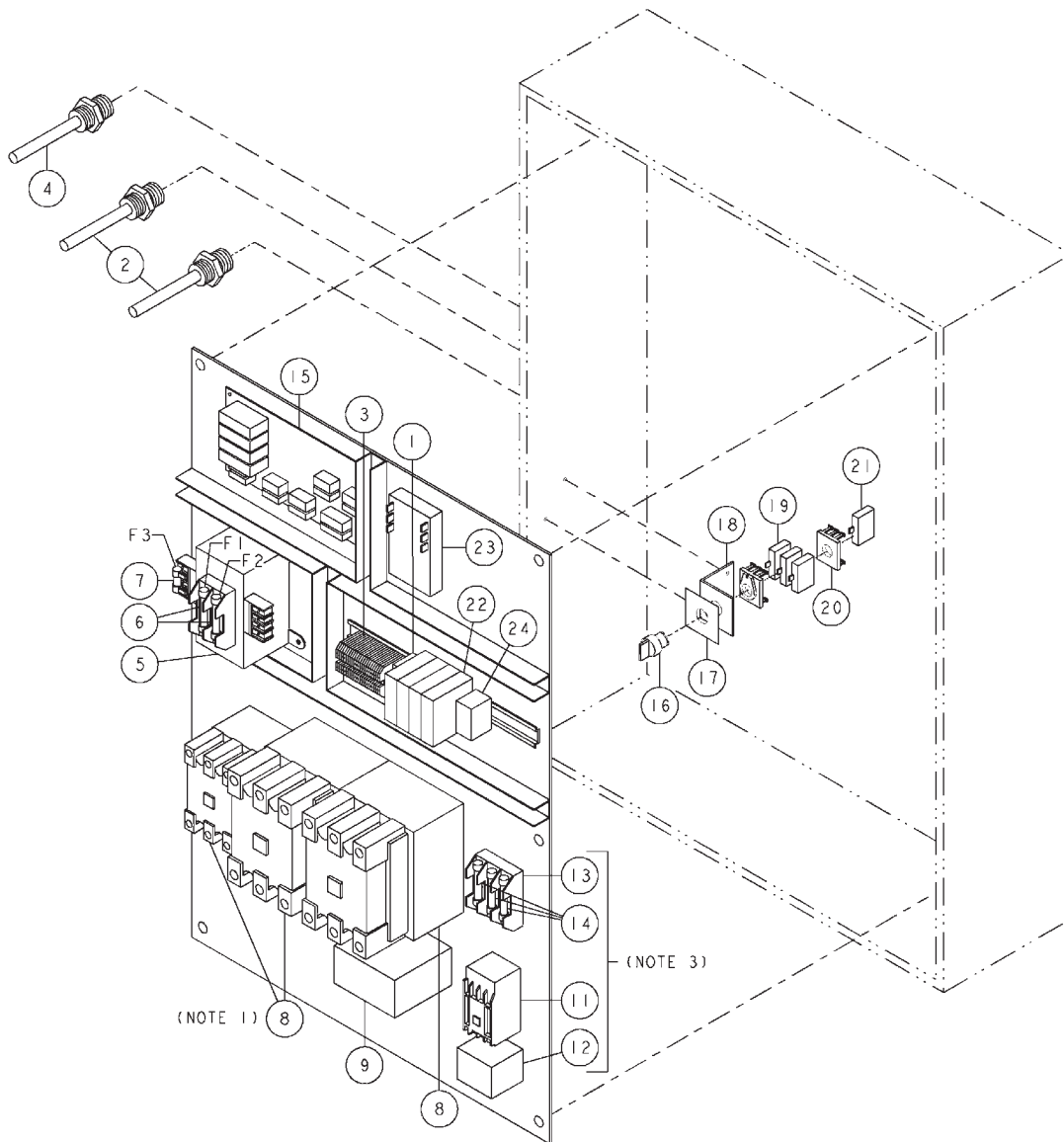
- 1) ADDITIONAL DRIVE MOTOR CONTACTORS (QTY OF 3) USED ONLY ON WYE-DELTA UNITS. (QUANTITY OF 1 USED ON ACROSS THE LINE UNITS.)
- 2) ITEM 10 (CURRENT TRANSFORMER) NOT SHOWN AND USED ONLY WHEN ITEM 9 IS PART NUMBER 143780-01.
- 3) ITEMS 11 THRU 14 USED ON ALL AIR-COOLED UNITS & ON WATER-COOLED UNITS WITH CABINET.
- 4) ITEMS 15 (PHASE MONITOR), 16 (AUTO RESTART TIMER, NOT SHOWN) & 17 (SHORT CYCLE AUTO RESTART RELAY, NOT SHOWN) ARE OPTIONAL.
- 5) ITEM A (ENCLOSURE LATCH) NOT SHOWN.

## Electrical Control & Starting (Standard PLC Control)

| ITEM No.                                  | QTY. | PART NUMBER | DESCRIPTION                                                                              |
|-------------------------------------------|------|-------------|------------------------------------------------------------------------------------------|
| 1                                         | 1    | 145119      | PLC CONTROLLER                                                                           |
| 2                                         | 1    | 145120      | CONTROL PROGRAM CHIP                                                                     |
| 3                                         | 1    | 142334-09   | TERMINAL BLOCK ASSEMBLY                                                                  |
| 4                                         | 2    | 122880-222  | TEMPERATURE SWITCH (225°F) (110-125#)                                                    |
|                                           | 2    | 122880-252  | TEMPERATURE SWITCH (250°F) (150-210#)                                                    |
| 5                                         | 1    | (PAGE 24)   | TRANSFORMER                                                                              |
| 6                                         | 2    | (PAGE 24)   | TRANSFORMER FUSE (PRIMARY)                                                               |
| 7                                         | 1    | 128622-400  | TRANSFORMER FUSE (SECONDARY) (A/C)                                                       |
|                                           | 1    | 128622-500  | TRANSFORMER FUSE (SECONDARY) (W/C)                                                       |
| 8                                         |      | (PAGE 24)   | CONTACTOR (DRIVE MOTOR)                                                                  |
|                                           | 1    | 144573-01   | MECHANICAL INTERLOCK (NOT SHOWN)<br>(WYE-DELTA ONLY, ALL 50 HP/60 & 75 HP, 380-575 VOLT) |
|                                           | 1    | 144573-03   | MECHANICAL INTERLOCK (NOT SHOWN)<br>(WYE-DELTA ONLY, 60 & 75 HP, 200-230 VOLT)           |
| 9                                         | 1    | (PAGE 25)   | OVERLOAD RELAY (DRIVE MOTOR)                                                             |
| 10                                        | 3    | 143781-300  | CURRENT TRANSFORMER (NOT SHOWN, SEE DRAWING NOTES)                                       |
| 11                                        | 1    | (PAGE 25)   | CONTACTOR (FAN MOTOR)                                                                    |
| 12                                        | 1    | (PAGE 25)   | OVERLOAD RELAY (FAN MOTOR)                                                               |
| 13                                        | 1    | 126263-004  | FUSEBLOCK (FAN MOTOR)                                                                    |
| 14                                        | 3    | (PAGE 25)   | FUSE (FAN MOTOR)                                                                         |
| <b>OPTIONAL PARTS:</b>                    |      |             |                                                                                          |
| 15                                        | 1    | 129200-001  | PHASE MONITOR (200-240 VOLT)                                                             |
|                                           | 1    | 129200-002  | PHASE MONITOR (400-480 VOLT)                                                             |
|                                           | 1    | 129200-003  | PHASE MONITOR (360-430 VOLT)                                                             |
|                                           | 1    | 128422-003  | PHASE MONITOR (525-625 VOLT)                                                             |
| 16                                        | 2    | 144739      | PROGRAMMABLE TIMER (AUTO RESTART OPTION) (NOT SHOWN)                                     |
| 17                                        | 1    | 143059-1    | SOCKET RELAY (AUTO RESTART OPTION/REMOTE START) (NOT SHOWN)                              |
| <b><u>COMPONENT MAINTENANCE PARTS</u></b> |      |             |                                                                                          |
| A                                         | 1    | 141784-001  | LATCH-ELECTRICAL ENCLOSURE (NEMA 1) (NOT SHOWN)                                          |
|                                           | 1    | 141784-002  | LATCH-ELECTRICAL ENCLOSURE (NEMA 4 & 12) (NOT SHOWN)                                     |

# Electrical Control & Starting (Power\$ync)

PIX5105



NOTES-UNLESS OTHERWISE SPECIFIED:}

- 1) ADDITIONAL DRIVE MOTOR CONTACTORS (QTY OF 3) USED ONLY ON WYE-DELTA UNITS.  
(QUANTITY OF 1 USED ON ACROSS THE LINE UNITS.)
- 2) ITEM 10 (CURRENT TRANSFORMER) NOT SHOWN AND USED ONLY WITH PART NUMBER 143780-01 (ITEM 9).
- 3) ITEMS 11 THRU 14 USED ON ALL AIR-COOLED UNITS & ON WATER-COOLED UNITS WITH CABINET.
- 4) ITEM 23 (PHASE MONITOR) IS OPTIONAL.
- 5) QUANTITY OF ITEM 22 (TIMER) WILL VARY DEPENDING ON OPTIONS SELECTED.  
QUANTITY OF 1 REQUIRED ON STANDARD WYE-DELTA UNITS.
- 6) ITEM 24 (SHORT CYCLE AUTO RESTART RELAY) IS OPTIONAL.
- 7) ITEM A (ENCLOSURE LATCH) NOT SHOWN.

## Electrical Control & Starting (Power\$ync)

| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                                                              |
|----------|------|-------------|------------------------------------------------------------------------------------------|
| 1        | 2    | 143059-1    | SOCKET RELAY                                                                             |
| 2        | 2    | 144981      | TEMPERATURE PROBE-HIGH VIBRATION, 0.50 NPT                                               |
| 3        | 1    | 142334-02   | TERMINAL BLOCK ASSEMBLY                                                                  |
| 4        | 1    | 122880-242  | TEMPERATURE SWITCH (240°F)                                                               |
| 5        | 1    | (PAGE 24)   | TRANSFORMER                                                                              |
| 6        | 2    | (PAGE 24)   | TRANSFORMER FUSE (PRIMARY)                                                               |
| 7        | 1    | 128622-500  | TRANSFORMER FUSE (SECONDARY)                                                             |
| 8        |      | (PAGE 24)   | CONTACTOR (DRIVE MOTOR)                                                                  |
|          | 1    | 144573-01   | MECHANICAL INTERLOCK (NOT SHOWN)<br>(WYE-DELTA ONLY, ALL 50 HP/60 & 75 HP, 380-575 VOLT) |
|          | 1    | 144573-03   | MECHANICAL INTERLOCK (NOT SHOWN)<br>(WYE-DELTA ONLY, 60 & 75 HP, 200-230 VOLT)           |
| 9        | 1    | (PAGE 25)   | OVERLOAD RELAY (DRIVE MOTOR)                                                             |
| 10       | 3    | 143781-300  | CURRENT TRANSFORMER (NOT SHOWN, SEE DRAWING NOTES)                                       |
| 11       | 1    | (PAGE 25)   | CONTACTOR (FAN MOTOR)                                                                    |
| 12       | 1    | (PAGE 25)   | OVERLOAD RELAY (FAN MOTOR)                                                               |
| 13       | 1    | 126263-004  | FUSEBLOCK (FAN MOTOR)                                                                    |
| 14       | 3    | (PAGE 25)   | FUSE (FAN MOTOR)                                                                         |
| 15       | 1    | 140265-4C   | BOARD-RELAY                                                                              |
| 16       | 1    | 129865      | SWITCH-SELECTOR                                                                          |
| 17       | 1    | 141814      | DECAL-POWER\$YNC SWITCH                                                                  |
| 18       | 1    | 140533      | SWITCH BRACKET                                                                           |
| 19       | 3    | 129864-02   | CONTACT BLOCK (NORMALLY CLOSED)                                                          |
| 20       | 1    | 140142      | SWITCH-CLIP                                                                              |
| 21       | 1    | 129864-01   | CONTACT BLOCK (NORMALLY OPEN)                                                            |
| 22       | *    | 144739      | PROGRAMMABLE TIMER (WYE-DELTA)                                                           |

### OPTIONAL PARTS:

|    |   |            |                                    |
|----|---|------------|------------------------------------|
| 23 | 1 | 129200-001 | PHASE MONITOR (200-240 VOLT)       |
|    | 1 | 129200-002 | PHASE MONITOR (400-480 VOLT)       |
|    | 1 | 129200-003 | PHASE MONITOR (360-430 VOLT)       |
|    | 1 | 128422-003 | PHASE MONITOR (525-625 VOLT)       |
| 24 | 1 | 143059-1   | SOCKET RELAY (AUTO RESTART OPTION) |

### COMPONENT MAINTENANCE PARTS

|   |   |            |                                                      |
|---|---|------------|------------------------------------------------------|
| A | 1 | 141784-001 | LATCH-ELECTRICAL ENCLOSURE (NEMA 1) (NOT SHOWN)      |
|   | 1 | 141784-002 | LATCH-ELECTRICAL ENCLOSURE (NEMA 4 & 12) (NOT SHOWN) |

\* QUANTITY WILL VARY DEPENDING ON OPTIONS SELECTED.

POWER\$YNC OPTION AVAILABLE AT 145# MAXIMUM FULL LOAD PRESSURE.

# Electrical Control & Starting

| ITEM 5 TRANSFORMER |      |            |                 |         |
|--------------------|------|------------|-----------------|---------|
| VOLTAGE            | QTY. | A/C        | W/C & ALL POWER | \$ SYNC |
| 200                | 1    | 128413-351 | 128413-501      |         |
| 230                | 1    | 128413-353 | 128413-503      |         |
| 380                | 1    | 128413-356 | 128413-506      |         |
| 415                | 1    | 128413-354 | 128413-504      |         |
| 460                | 1    | 128413-353 | 128413-503      |         |
| 575                | 1    | 128413-355 | 128413-505      |         |

| ITEM 6 TRANSFORMER FUSE (PRIMARY) |      |            |            |  |
|-----------------------------------|------|------------|------------|--|
| VOLTAGE                           | QTY. | A/C        | W/C        |  |
| 200                               | 2    | 128857-006 | 128857-017 |  |
| 230                               | 2    | 128857-005 | 128857-007 |  |
| 380                               | 2    | 128857-004 | 128857-005 |  |
| 415                               | 2    | 128857-004 | 128857-012 |  |
| 460                               | 2    | 128857-030 | 128857-015 |  |
| 575                               | 2    | 128857-011 | 128857-004 |  |

| ITEM 8          |      | DRIVE MOTOR CONTACTOR |      |                  |                  |                  |
|-----------------|------|-----------------------|------|------------------|------------------|------------------|
| ACROSS THE LINE |      |                       |      |                  |                  |                  |
| VOLTAGE         | QTY. | 50 HP (100#)          |      | 60 HP (125-150#) | 75 HP (175-210#) |                  |
| 200             | 1    | 144570-13             |      | 144570-14        | 144570-15        |                  |
| 230             | 1    | 144570-12             |      | 144570-13        | 144570-14        |                  |
| 380             | 1    | 144570-09             |      | 144570-11        | 144570-12        |                  |
| 415             | 1    | 144570-09             |      | 144570-11        | 144570-12        |                  |
| 460             | 1    | 144570-09             |      | 144570-10        | 144570-11        |                  |
| 575             | 1    | 144570-08             |      | 144570-09        | 144570-09        |                  |
| WYE-DELTA       |      |                       |      |                  |                  |                  |
| VOLTAGE         | QTY. | 50 HP (100#)          | QTY. | 60 HP (125-150#) | QTY.             | 75 HP (175-210#) |
| 200             | 2    | 144570-10             | 3    | 144570-11        | 2                | 144570-12        |
|                 | 1    | 144570-08             |      |                  | 1                | 144570-11        |
| 230             | 2    | 144570-10             | 3    | 144570-11        | 2                | 144570-12        |
|                 | 1    | 144570-08             |      |                  | 1                | 144570-11        |
| 380             | 2    | 144570-07             | 2    | 144570-09        | 2                | 144570-09        |
|                 | 1    | 144570-05             |      |                  | 1                | 144570-08        |
| 415             | 2    | 144570-07             | 3    | 144570-08        | 2                | 144570-09        |
|                 | 1    | 144570-05             |      |                  | 1                | 144570-08        |
| 460             | 2    | 144570-07             | 3    | 144570-08        | 3                | 144570-08        |
|                 | 1    | 144570-05             |      |                  |                  |                  |
| 575             | 2    | 144570-06             | 2    | 144570-07        | 3                | 144570-08        |
|                 | 1    | 144570-05             |      |                  |                  |                  |

# Electrical Control & Starting

## ITEM 9 DRIVE MOTOR OVERLOAD RELAY

| ACROSS THE LINE |      |              |                  |                  |
|-----------------|------|--------------|------------------|------------------|
| VOLTAGE         | QTY. | 50 HP (100#) | 60 HP (125-150#) | 75 HP (175-210#) |
| 200             | 1    | 143780-01    | 143780-01        | 143780-01        |
| 230             | 1    | 143780-01    | 143780-01        | 143780-01        |
| 380             | 1    | 143780-06    | 143780-07        | 143780-08        |
| 415             | 1    | 143780-06    | 143780-07        | 143780-08        |
| 460             | 1    | 143780-06    | 143780-06        | 143780-07        |
| 575             | 1    | 143780-05    | 143780-06        | 143780-06        |

| WYE-DELTA |      |              |                  |                  |
|-----------|------|--------------|------------------|------------------|
| VOLTAGE   | QTY. | 50 HP (100#) | 60 HP (125-150#) | 75 HP (175-210#) |
| 200       | 1    | 143780-07    | 143780-07        | 143780-08        |
| 230       | 1    | 143780-06    | 143780-07        | 143780-07        |
| 380       | 1    | 143780-05    | 143780-05        | 143780-06        |
| 415       | 1    | 143780-04    | 143780-05        | 143780-06        |
| 460       | 1    | 143780-04    | 143780-05        | 143780-05        |
| 575       | 1    | 143780-04    | 143780-04        | 143780-04        |

## ITEM 11 FAN MOTOR CONTACTOR

| AIR-COOLED |      |                 |                 | WATER-COOLED (w/CABINET) |
|------------|------|-----------------|-----------------|--------------------------|
| VOLTAGE    | QTY. | 2 HP (100-150#) | 3 HP (175-210#) | 1/2 HP (100-210#)        |
| 200        | 1    | 144570-01       | 144570-02       | 144570-01                |
| 230        | 1    | 144570-01       | 144570-02       | 144570-01                |
| 380        | 1    | 144570-01       | 144570-01       | 144570-01                |
| 415        | 1    | 144570-01       | 144570-01       | 144570-01                |
| 460        | 1    | 144570-01       | 144570-01       | 144570-01                |
| 575        | 1    | 144570-01       | 144570-01       | 144570-01                |

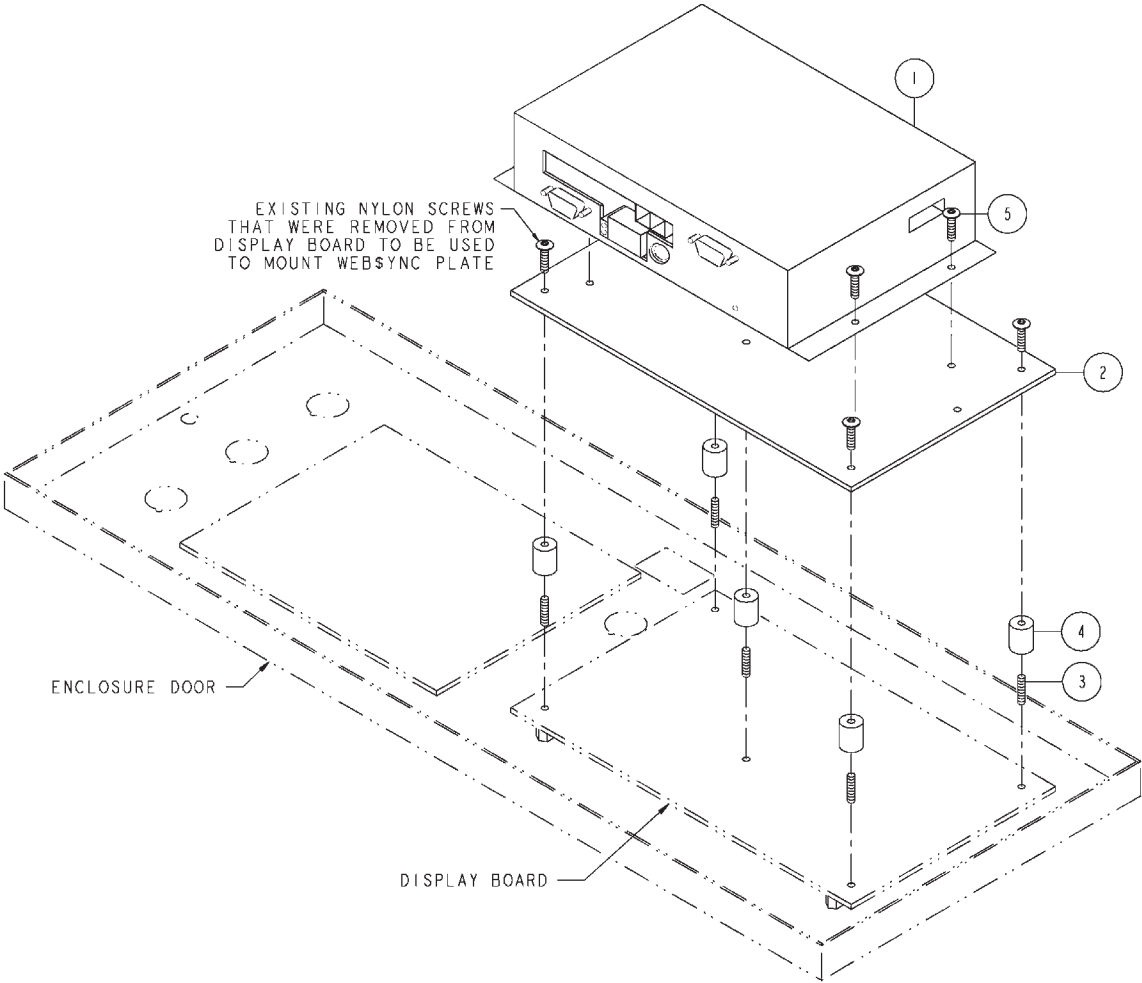
## ITEM 12 FAN MOTOR OVERLOAD RELAY

| AIR-COOLED |      |                 |                 | WATER-COOLED (w/CABINET) |
|------------|------|-----------------|-----------------|--------------------------|
| VOLTAGE    | QTY. | 2 HP (100-150#) | 3 HP (175-210#) | 1/2 HP (100-210#)        |
| 200        | 1    | 143780-13       | 143780-14       | 143780-12                |
| 230        | 1    | 143780-13       | 143780-13       | 143780-12                |
| 380        | 1    | 143780-13       | 143780-13       | 143780-12                |
| 415        | 1    | 143780-13       | 143780-13       | 143780-11                |
| 460        | 1    | 143780-13       | 143780-13       | 143780-12                |
| 575        | 1    | 143780-12       | 143780-13       | 143780-11                |

## ITEM 14 FAN MOTOR FUSE

| AIR-COOLED |      |                 |                 | WATER-COOLED (w/CABINET) |
|------------|------|-----------------|-----------------|--------------------------|
| VOLTAGE    | QTY. | 2 HP (100-150#) | 3 HP (175-210#) | 1/2 HP (100-210#)        |
| 200        | 3    | 128857-025      | 128857-035      | 128857-007               |
| 230        | 3    | 128857-023      | 128857-025      | 128857-007               |
| 380        | 3    | 128857-020      | 128857-021      | 128857-032               |
| 415        | 3    | 128857-020      | 128857-021      | 128857-005               |
| 460        | 3    | 128857-008      | 128857-020      | 128857-012               |
| 575        | 3    | 128857-007      | 128857-009      | 128857-030               |

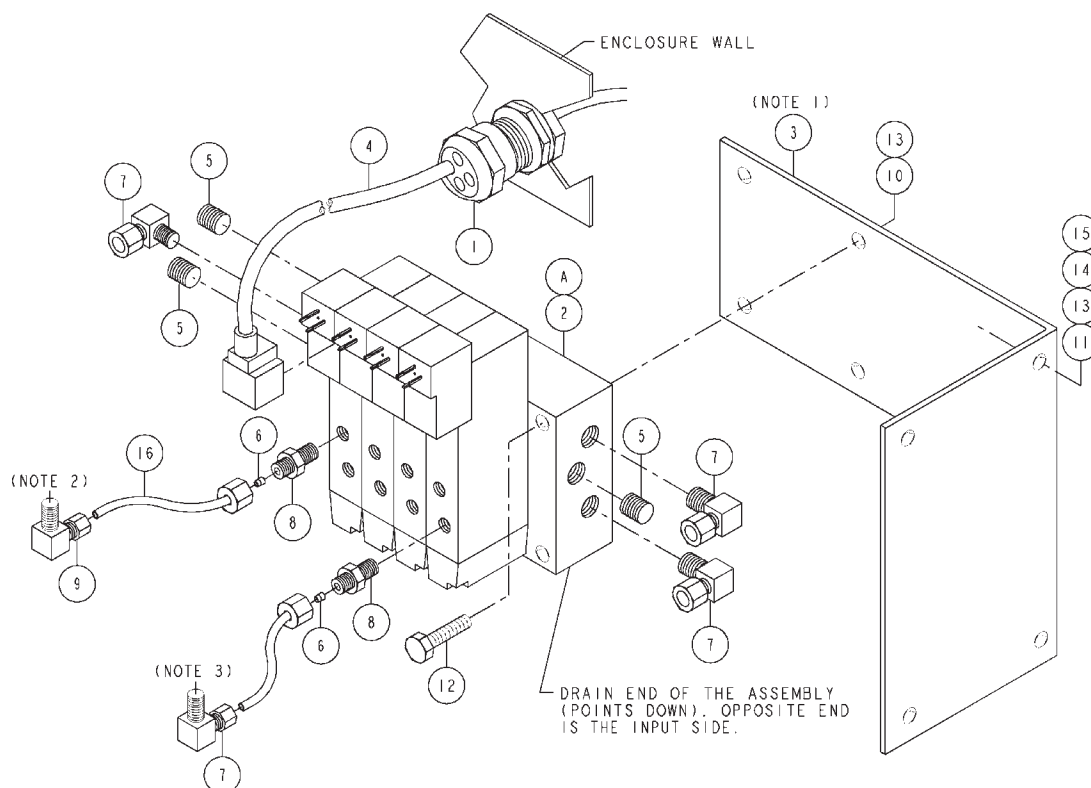
# Web\$ync Communications (option) - 144454-001



| ITEM NO. | QTY. | PART NUMBER | DESCRIPTION                     |
|----------|------|-------------|---------------------------------|
| 1        | 1    | 144217      | WEB\$YNC-CORE                   |
| 2        | 1    | 144218      | MOUNTING PLATE-WEB\$YNC         |
| 3        | 5    | 143189-G09  | SET SCREW-NYLON, #10 UNF X 0.38 |
| 4        | 5    | 143188-075  | STANDOFF-THREADED, 10-32 X 0.75 |
| 5        | 4    | 123200-F07  | PAN HEAD SCREW-#8-32 UNC X 0.50 |
| OPTIONS: |      |             |                                 |
|          | 1    | 144217-1    | WEB\$YNC-LOGGING/TRENDING       |
|          | 1    | 144217-2    | WEB\$YNC-E-MAIL/PAGE            |
|          | 1    | 144217-3    | WEB\$YNC-MODBUS GATEWAY         |

\* WEB\$YNC OPTION AVAILABLE WITH POWER\$YNC EQUIPPED MODELS ONLY.

# Power\$ync Solenoid Valve - 142153-01



## NOTES-UNLESS OTHERWISE SPECIFIED:

1) ITEM 3 CAN BE ROTATED EITHER DIRECTION FOR MOUNTING.

2) THIS ASSEMBLY METHOD IS USED ON THE FOUR UPPER (OPEN) LOCATIONS OF THE PORT SYSTEM.

3) THIS ASSEMBLY METHOD IS USED ON THE FOUR LOWER (CLOSED) LOCATIONS OF THE PORT SYSTEM.

| ITEM No. | QTY.    | PART NUMBER | DESCRIPTION                                               |
|----------|---------|-------------|-----------------------------------------------------------|
| 1        | 1       | 142096-01   | STRAIN RELIEF FITTING-CONNECTOR                           |
| 2        | 1       | 142094      | SOLENOID VALVE-4-WAY                                      |
| 3        | 1       | 142139      | BRACKET-SOLENOID BANK                                     |
| 4        | 1       | 142095-03   | CABLE ASSEMBLY-3 METER                                    |
| 5        | 3       | 2719        | PLUG-PIPE, HEX SOCKET, 0.25 NPT                           |
| 6        | 8       | 5784-2      | ORIFICE-PLUG, 0.062                                       |
| 7        | 7       | 124349-005  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.25 NPT             |
| 8        | 8       | 124393-004  | FITTING-MALE CONNECTOR, 0.25 TUBE X 0.125 NPT             |
| 9        | 4       | 124349-004  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.125 NPT            |
| 10       | 4       | 124370-J02  | LOCKNUT, 1/4-20 UNC                                       |
| 11       | 8       | 123478-J10  | CAP SCREW-1/4-20 UNC X 0.75, GRADE 5 (@ 6 FT-LBS)         |
| 12       | 4       | 90386-J18   | COUNTERBORE SCREW-1/4-20 UNC X 2.25, GRADE 8 (@ 9 FT-LBS) |
| 13       | 12      | 110428W025  | FLAT WASHER-0.25                                          |
| 14       | 8       | 123115-04C  | LOCKWASHER, 0.25                                          |
| 15       | 8       | 124364-J02  | HEX NUT-1/4-20 UNC                                        |
| 16       | 15.0 FT | 140620-003  | NYLON TUBING-BLACK, 0.25 O.D.                             |

## COMPONENT MAINTENANCE PARTS

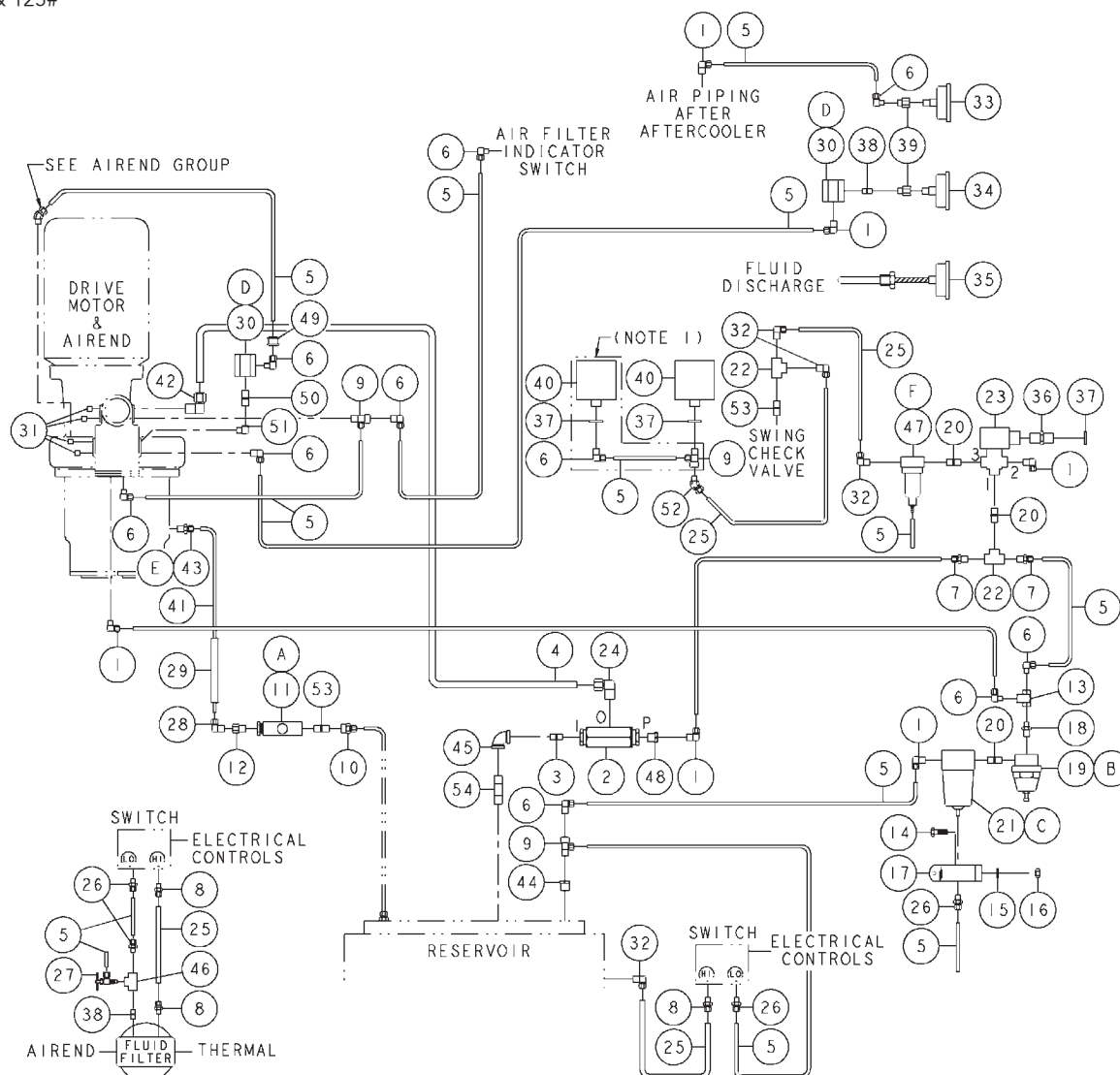
|   |   |           |                              |
|---|---|-----------|------------------------------|
| A | 1 | 143114K02 | KIT-POWER\$YNC SOLENOID BANK |
|---|---|-----------|------------------------------|

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

\* REFERENCE POWER\$YNC, WITH LIFT VALVES CONTROL PIPING FOR LOCATION.

# Control Piping (across the line) - 129740-001/-005

100 & 125#



NOTES-UNLESS OTHERWISE SPECIFIED:

- 1) ADDITIONAL PRESSURE SWITCH (ITEM 40), LOCKNUT (ITEM 37) AND ATTACHING ITEMS: 9 (TEE), 5 (1/4" TUBE) AND 6 (ELBOW) ARE USED ONLY ON UNITS WITH LEAD/LAG OPTION.

| ITEM No. | QTY.    | PART NUMBER | DESCRIPTION                                    |
|----------|---------|-------------|------------------------------------------------|
| 1        | 6       | 124349-005  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.25 NPT  |
| 2        | 1       | 128826-1    | VALVE-BLOWDOWN                                 |
| 3        | 1       | 6099        | PIPE NIPPLE-0.50 NPT X CLOSE                   |
| 4        | 4.0 FT  | 124435-005  | TUBING-NYLON, 0.50 O.D.                        |
| 5*       | 50.0 FT | 124435-003  | TUBING-NYLON, 0.25 O.D.                        |
| 6*       | 9       | 124349-004  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.125 NPT |
| 7        | 2       | 124393-005  | FITTING-MALE CONNECTOR, 0.25 TUBE X 0.25 NPT   |
| 8        | 3       | 124393-010  | FITTING-MALE CONNECTOR, 0.38 TUBE X 0.12 NPT   |
| 9*       | 2       | 20201       | FITTING-TEE, 0.25 TUBE X 0.12 NPT X 0.12 NPT   |
| 10       | 1       | 126354-005  | FITTING-FEMALE CONNECTOR, 0.25 TUBE X 0.25 NPT |

## Control Piping (across the line) - 129740-001/-005

| ITEM No. | QTY.    | PART NUMBER | DESCRIPTION                                          |
|----------|---------|-------------|------------------------------------------------------|
| 11       | 1       | 140508      | SIGHTGLASS (O-RING)                                  |
| 12       | 1       | 125025      | ORIFICE-LINE FILTER (0.040)                          |
| 13       | 1       | 90084       | VALVE-SHUTTLE, 0.125 NPT                             |
| 14       | 1       | 123478-L12  | SCREW-CAP, 3/8-16 UNC X 1.00, GRADE 5 (@ 23 FT-LBS)  |
| 15       | 1       | 123115-06C  | LOCKWASHER, 0.38                                     |
| 16       | 1       | 124364-L02  | NUT-HEX, 3/8-16 UNC                                  |
| 17       | 1       | 122417-002  | BRACKET-LINE FILTER HANGER                           |
| 18       | 1       | 111098-002  | PIPE NIPPLE-BRASS, 0.125 NPT X 0.25 NPT X CLOSE      |
| 19       | 1       | 146175-2    | VALVE-DIFFERENTIAL PILOT                             |
| 20       | 3       | 142125-2    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X 1.25          |
| 21       | 1       | 129731      | FILTER-LINE, AUTOMATIC                               |
| 22       | 2       | 121034-2    | TEE-PIPE, BRASS, 0.25 NPT                            |
| 23       | 1       | 120496-5    | VALVE-SOLENOID, 3-WAY                                |
| 24       | 1       | 124349-015  | FITTING-ELBOW, 90° MALE, 0.50 TUBE X 0.50 NPT        |
| 25       | 15.0 FT | 124435-004  | TUBING-NYLON, 0.38 O.D.                              |
| 26       | 4       | 124393-004  | FITTING-MALE CONNECTOR, 0.25 TUBE X 0.125 NPT        |
| 27       | 1       | 142947      | VALVE-ANGLE, NEEDLE                                  |
| 28       | 1       | 110419-005  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.25 NPT        |
| 29       | 0.25 FT | 140326-04   | TUBING-FUEL                                          |
| 30       | 2       | 122056      | CHECK VALVE                                          |
| 31       | 4       | 121160      | PLUG-PIPE, 0.125 NPT                                 |
| 32       | 4       | 124349-010  | FITTING-ELBOW, 90° MALE, 0.38 TUBE X 0.25 NPT        |
| 33       | 1       | 128662      | GAUGE-PRESSURE (0-300#)                              |
| 34       | 1       | 128663      | GAUGE-PERCENT CAPACITY                               |
| 35       | 1       | 128664      | GAUGE-THERMOMETER                                    |
| 36       | 1       | 144545-02   | FITTING-CONNECTOR, STRAIN RELIEF, 0.50               |
| 37*      | 2       | 8052        | LOCKNUT-CONDUIT, 0.50                                |
| 38       | 2       | 142125-13   | NIPPLE-BRASS, EXTRA STRONG, 0.12 NPT X CLOSE         |
| 39       | 2       | 125260-001  | REDUCER-PIPE, BRASS, 0.25 NPT X 0.12 NPT             |
| 40*      | 1       | 22454-1     | SWITCH-PRESSURE (70-125#)                            |
| 41       | 5.0 FT  | 140333      | TUBE-STAINLESS STEEL, 0.25 O.D.                      |
| 42       | 1       | 124349-014  | FITTING-ELBOW, 90° MALE, 0.50 TUBE X 0.38 NPT        |
| 43       | 1       | 128885-003  | FITTING-MALE CONNECTOR, 0.25 TUBE X 7/16-20 (O-RING) |
| 44       | 1       | 121033-1    | BUSHING-PIPE, BRASS, 0.25 NPT X 0.125 NPT            |
| 45       | 1       | 4460        | ELBOW-PIPE, 0.50 NPT                                 |
| 46       | 1       | 121034-1    | TEE-PIPE, BRASS, 0.125 NPT                           |
| 47       | 1       | 143316      | FILTER-LINE, AUTOMATIC                               |
| 48       | 1       | 121033-5    | BUSHING-PIPE, BRASS, 0.50 NPT X 0.25 NPT             |
| 49       | 1       | 140317      | GROMMET-RUBBER                                       |
| 50       | 1       | 142125-3    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X 1.50          |
| 51       | 1       | 122212      | ELBOW-PIPE, BRASS, 0.125 NPT X 0.25 NPT              |
| 52       | 1       | 128967-003  | FITTING-ELBOW, 45° MALE, 0.38 TUBE X 0.12 NPT        |
| 53       | 2       | 142125-1    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X CLOSE         |
| 54       | 1       | 125935-010  | PIPE NIPPLE-0.50 NPT X 2.00                          |

### COMPONENT MAINTENANCE PARTS

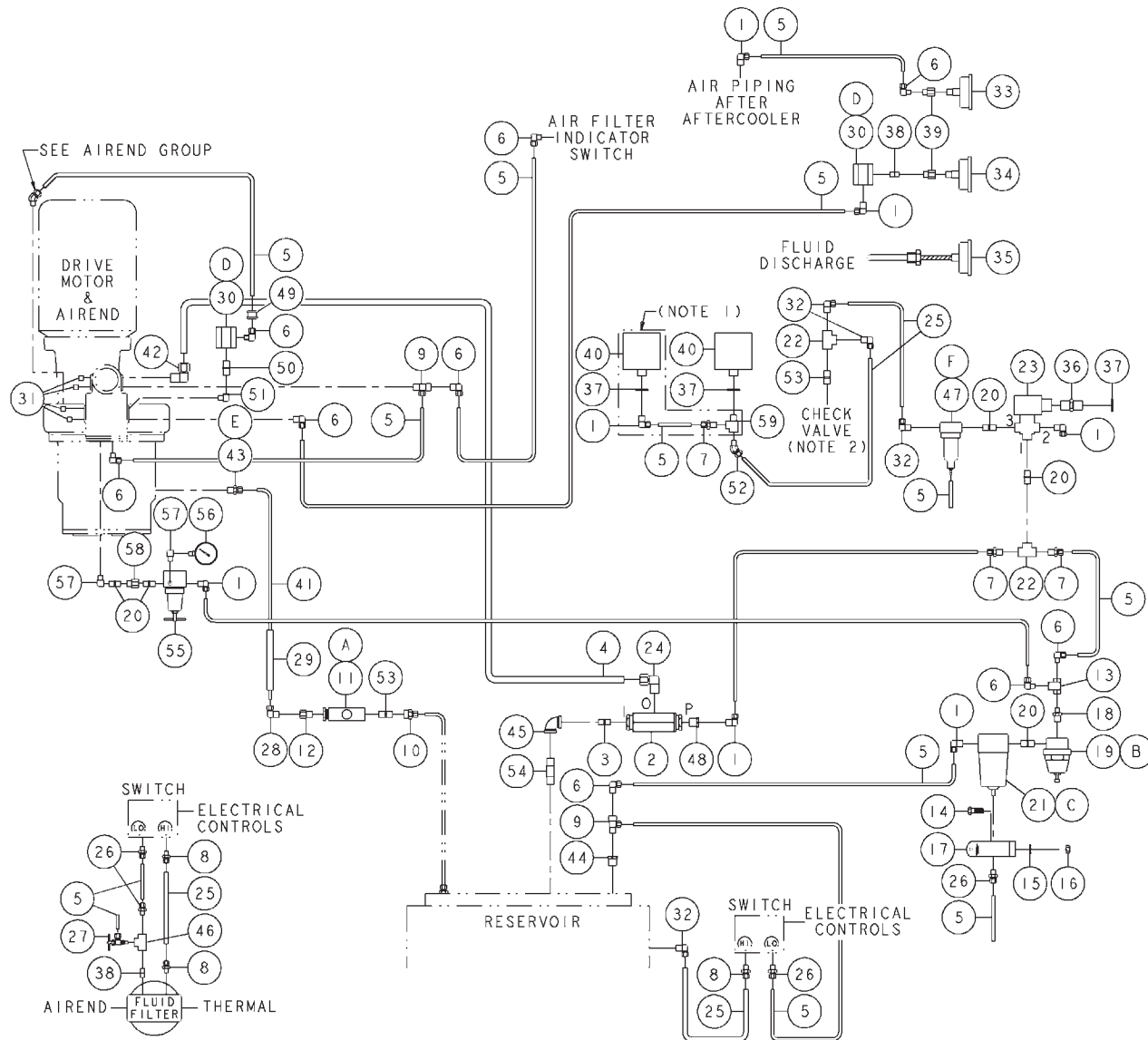
|   |   |            |                                                                   |
|---|---|------------|-------------------------------------------------------------------|
| A | 2 | 22749-010  | O-RING, VITON, 0.25 I.D.                                          |
| B | 1 | 146175-100 | KIT-DIFFERENTIAL PILOT VALVE (INCLUDES DIAPHRAGM ASSEMBLY & SEAT) |
| C | 1 | 129731-050 | KIT-LINE FILTER (INCLUDES BOWL SEAL, FILTER ELEMENT, GASKET)      |
| D | 4 | 123157-008 | O-RING, BUNA-N, 0.18 I.D.                                         |
| E | 1 | 140406-904 | O-RING, VITON, 0.35 I.D.                                          |
| F | 1 | 143316-050 | KIT-LINE FILTER (INCLUDES ELEMENT SEAL, FILTER ELEMENT)           |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

\* UNITS WITH LEAD/LAG OPTION REQUIRE ADDITIONAL PARTS AS NOTED ON DRAWING.

# Control Piping (across the line) - 142269-001/-003

150-210#



NOTES-UNLESS OTHERWISE SPECIFIED:

- 1) ADDITIONAL PRESSURE SWITCH (ITEM 40), LOCKNUT (ITEM 37) AND ATTACHING ITEMS: 59 (TEE), 7 (CONNECTOR), 5 (1/4" TUBE) AND 1 (ELBOW) ARE USED ONLY ON UNITS WITH LEAD/LAG OPTION.
- 2) SWING CHECK VALVE USED ON 150 PSI UNITS, MINIMUM PRESSURE CHECK VALVE USED ON 175 & 210 PSI UNITS.

| ITEM No. | QTY.    | PART NUMBER | DESCRIPTION                                    |
|----------|---------|-------------|------------------------------------------------|
| 1*       | 6       | 124349-005  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.25 NPT  |
| 2        | 1       | 128826-1    | VALVE-BLOWDOWN                                 |
| 3        | 3       | 6099        | PIPE NIPPLE-0.50 NPT X CLOSE                   |
| 4        | 4.0 FT  | 124435-005  | TUBING-NYLON, 0.50 O.D.                        |
| 5*       | 50.0 FT | 124435-003  | TUBING-NYLON, 0.25 O.D.                        |
| 6        | 9       | 124349-004  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.125 NPT |
| 7*       | 2       | 124393-005  | FITTING-MALE CONNECTOR, 0.25 TUBE X 0.25 NPT   |
| 8        | 3       | 124393-010  | FITTING-MALE CONNECTOR, 0.38 TUBE X 0.12 NPT   |
| 9        | 1       | 20201       | FITTING-TEE, 0.25 TUBE X 0.12 NPT X 0.12 NPT   |
| 10       | 1       | 126354-005  | FITTING-FEMALE CONNECTOR, 0.25 TUBE X 0.25 NPT |

## Control Piping (across the line) - 142269-001/-003

| ITEM No. | QTY.    | PART NUMBER | DESCRIPTION                                          |
|----------|---------|-------------|------------------------------------------------------|
| 11       | 1       | 140508      | SIGHTGLASS (O-RING)                                  |
| 12       | 1       | 125025      | ORIFICE-LINE FILTER (0.040)                          |
| 13       | 1       | 90084       | VALVE-SHUTTLE, 0.125 NPT                             |
| 14       | 1       | 123478-L12  | SCREW-CAP, 3/8-16 UNC X 1.00, GRADE 5 (@ 23 FT-LBS)  |
| 15       | 1       | 123115-06C  | LOCKWASHER, 0.38                                     |
| 16       | 1       | 124364-L02  | NUT-HEX, 3/8-16 UNC                                  |
| 17       | 1       | 122417-002  | BRACKET-LINE FILTER HANGER                           |
| 18       | 1       | 111098-002  | PIPE NIPPLE-BRASS, 0.125 NPT X 0.25 NPT X CLOSE      |
| 19       | 1       | 146175-2    | VALVE-DIFFERENTIAL PILOT                             |
| 20       | 5       | 142125-2    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X 1.25          |
| 21       | 1       | 129731      | FILTER-LINE, AUTOMATIC                               |
| 22       | 2       | 121034-2    | TEE-PIPE, BRASS, 0.25 NPT                            |
| 23       | 1       | 120496-4    | VALVE-SOLENOID, 3-WAY                                |
| 24       | 1       | 124349-015  | FITTING-ELBOW, 90° MALE, 0.50 TUBE X 0.50 NPT        |
| 25       | 15.0 FT | 124435-004  | TUBING-NYLON, 0.38 O.D.                              |
| 26       | 4       | 124393-004  | FITTING-MALE CONNECTOR, 0.25 TUBE X 0.125 NPT        |
| 27       | 1       | 142947      | VALVE-ANGLE, NEEDLE                                  |
| 28       | 1       | 110419-005  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.25 NPT        |
| 29       | 0.25 FT | 140326-04   | TUBING-FUEL                                          |
| 30       | 2       | 122056      | CHECK VALVE                                          |
| 31       | 4       | 121160      | PLUG-PIPE, 0.125 NPT                                 |
| 32       | 4       | 124349-010  | FITTING-ELBOW, 90° MALE, 0.38 TUBE X 0.25 NPT        |
| 33       | 1       | 128662      | GAUGE-PRESSURE (0-300#)                              |
| 34       | 1       | 128663      | GAUGE-PERCENT CAPACITY                               |
| 35       | 1       | 128664      | GAUGE-THERMOMETER                                    |
| 36       | 1       | 144545-02   | FITTING-CONNECTOR, STRAIN RELIEF, 0.50               |
| 37*      | 2       | 8052        | LOCKNUT-CONDUIT, 0.50                                |
| 38       | 2       | 142125-13   | NIPPLE-BRASS, EXTRA STRONG, 0.12 NPT X CLOSE         |
| 39       | 2       | 125260-001  | REDUCER-PIPE, BRASS, 0.25 NPT X 0.12 NPT             |
| 40*      | 1       | 8698-011    | SWITCH-PRESSURE (150-210#)                           |
| 41       | 5.0 FT  | 140333      | TUBE-STAINLESS STEEL, 0.25 O.D.                      |
| 42       | 1       | 124349-014  | FITTING-ELBOW, 90° MALE, 0.50 TUBE X 0.38 NPT        |
| 43       | 1       | 128885-003  | FITTING-MALE CONNECTOR, 0.25 TUBE X 7/16-20 (O-RING) |
| 44       | 1       | 121033-1    | BUSHING-PIPE, BRASS, 0.25 NPT X 0.125 NPT            |
| 45       | 1       | 4460        | ELBOW-PIPE, 0.50 NPT                                 |
| 46       | 1       | 121034-1    | TEE-PIPE, BRASS, 0.125 NPT                           |
| 47       | 1       | 143316      | FILTER-LINE, AUTOMATIC                               |
| 48       | 1       | 121033-5    | BUSHING-PIPE, BRASS, 0.50 NPT X 0.25 NPT             |
| 49       | 1       | 140317      | GROMMET-RUBBER                                       |
| 50       | 1       | 142125-3    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X 1.50          |
| 51       | 1       | 122212      | ELBOW-PIPE, BRASS, 0.125 NPT X 0.25 NPT              |
| 52       | 1       | 128967-004  | FITTING-ELBOW, 45° MALE, 0.38 TUBE X 0.25 NPT        |
| 53       | 2       | 142125-1    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X CLOSE         |
| 54       | 1       | 125935-010  | PIPE NIPPLE-0.50 NPT X 2.00                          |
| 55       | 1       | 23543-002   | REGULATOR-PRESSURE                                   |
| 56       | 1       | 140718      | GAUGE-PRESSURE                                       |
| 57       | 2       | 122636      | ELBOW-PIPE, BRASS, 0.25 NPT                          |
| 58       | 1       | 125259-002  | FITTING-COUPLING, BRASS, 0.25 X 0.25                 |
| 59*      | 1       | 7361        | TEE-PIPE, BRASS, 0.25 NPT                            |

### COMPONENT MAINTENANCE PARTS

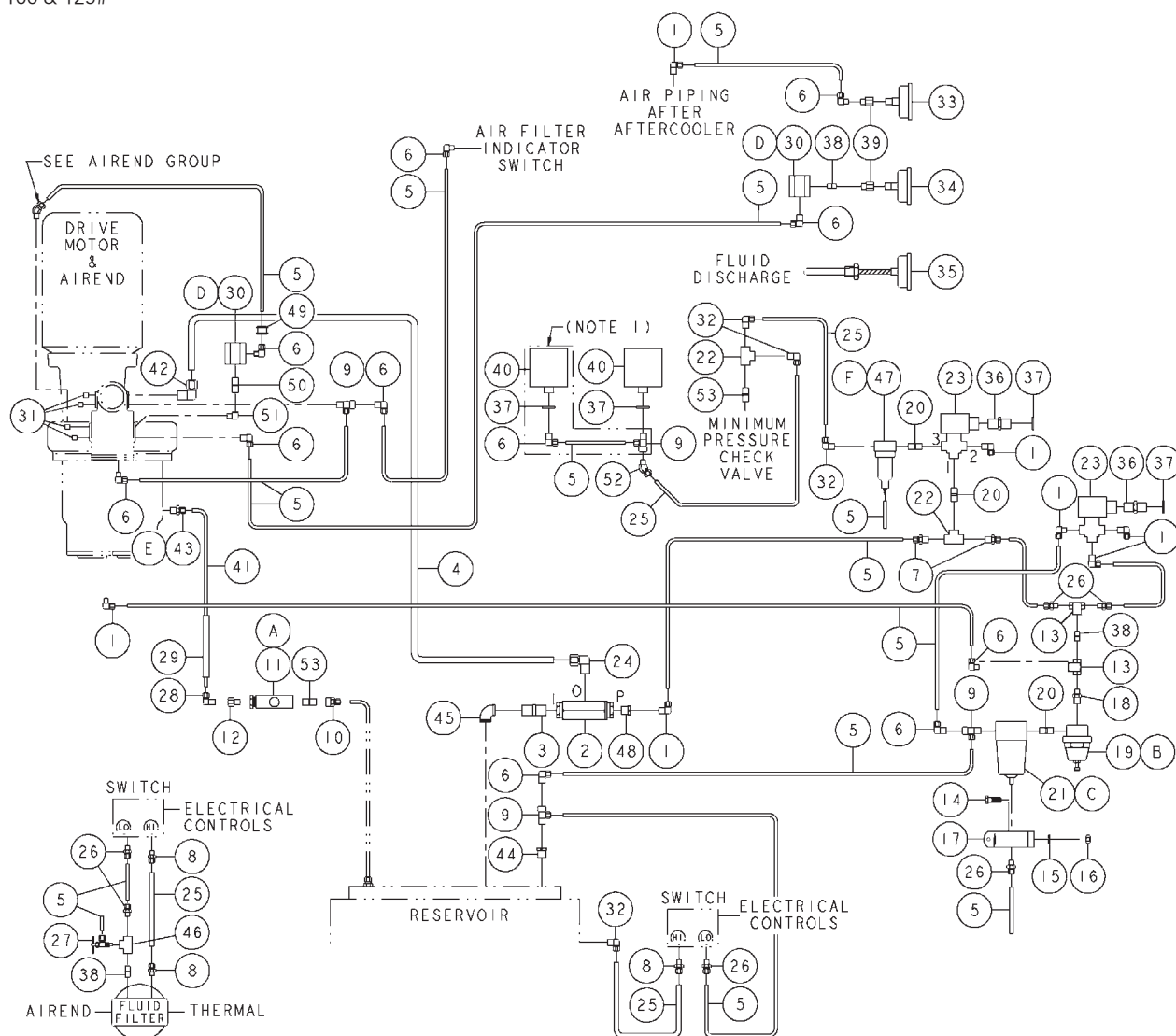
|   |   |            |                                                                   |
|---|---|------------|-------------------------------------------------------------------|
| A | 2 | 22749-010  | O-RING, VITON, 0.25 I.D.                                          |
| B | 1 | 146175-100 | KIT-DIFFERENTIAL PILOT VALVE (INCLUDES DIAPHRAGM ASSEMBLY & SEAT) |
| C | 1 | 129731-050 | KIT-LINE FILTER (INCLUDES BOWL SEAL, FILTER ELEMENT, GASKET)      |
| D | 4 | 123157-008 | O-RING, BUNA-N, 0.18 I.D.                                         |
| E | 1 | 140406-904 | O-RING, VITON, 0.35 I.D.                                          |
| F | 1 | 143316-050 | KIT-LINE FILTER (INCLUDES ELEMENT SEAL, FILTER ELEMENT)           |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

\* UNITS WITH LEAD/LAG OPTION REQUIRE ADDITIONAL PARTS AS NOTED ON DRAWING.

# Control Piping (wye-delta) - 129781-001/-003

100 & 125#



NOTES-UNLESS OTHERWISE SPECIFIED:

- 1) ADDITIONAL PRESSURE SWITCH (ITEM 40), LOCKNUT (ITEM 37)  
AND ATTACHING ITEMS: 9 (TEE), 5 (1/4" TUBE) AND 6 (ELBOW)  
ARE USED ONLY ON UNITS WITH LEAD/LAG OPTION.

| ITEM No. | QTY.    | PART NUMBER | DESCRIPTION                                    |
|----------|---------|-------------|------------------------------------------------|
| 1        | 7       | 124349-005  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.25 NPT  |
| 2        | 1       | 128826-1    | VALVE-BLOWDOWN                                 |
| 3        | 1       | 6099        | PIPE NIPPLE-0.50 NPT X CLOSE                   |
| 4        | 4.0 FT  | 124435-005  | TUBING-NYLON, 0.50 O.D.                        |
| 5*       | 53.0 FT | 124435-003  | TUBING-NYLON, 0.25 O.D.                        |
| 6*       | 10      | 124349-004  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.125 NPT |
| 7        | 2       | 124393-005  | FITTING-MALE CONNECTOR, 0.25 TUBE X 0.25 NPT   |
| 8        | 3       | 124393-010  | FITTING-MALE CONNECTOR, 0.38 TUBE X 0.12 NPT   |
| 9*       | 3       | 20201       | FITTING-TEE, 0.25 TUBE X 0.12 NPT X 0.12 NPT   |
| 10       | 1       | 126354-005  | FITTING-FEMALE CONNECTOR, 0.25 TUBE X 0.25 NPT |

## Control Piping (we-delta) - 129781-001/-003

| ITEM No. | QTY.    | PART NUMBER | DESCRIPTION                                          |
|----------|---------|-------------|------------------------------------------------------|
| 11       | 1       | 140508      | SIGHTGLASS (O-RING)                                  |
| 12       | 1       | 125025      | ORIFICE-LINE FILTER (0.040)                          |
| 13       | 2       | 90084       | VALVE-SHUTTLE, 0.125 NPT                             |
| 14       | 1       | 123478-L12  | SCREW-CAP, 3/8-16 UNC X 1.00, GRADE 5 (@ 23 FT-LBS)  |
| 15       | 1       | 123115-06C  | LOCKWASHER, 0.38                                     |
| 16       | 1       | 124364-L02  | NUT-HEX, 3/8-16 UNC                                  |
| 17       | 1       | 122417-002  | BRACKET-LINE FILTER HANGER                           |
| 18       | 1       | 111098-002  | PIPE NIPPLE-BRASS, 0.125 NPT X 0.25 NPT X CLOSE      |
| 19       | 1       | 146175-2    | VALVE-DIFFERENTIAL PILOT                             |
| 20       | 3       | 142125-2    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X 1.25          |
| 21       | 1       | 129731      | FILTER-LINE, AUTOMATIC                               |
| 22       | 2       | 121034-2    | TEE-PIPE, BRASS, 0.25 NPT                            |
| 23       | 2       | 120496-5    | VALVE-SOLENOID, 3-WAY                                |
| 24       | 1       | 124349-015  | FITTING-ELBOW, 90° MALE, 0.50 TUBE X 0.50 NPT        |
| 25       | 15.0 FT | 124435-004  | TUBING-NYLON, 0.38 O.D.                              |
| 26       | 6       | 124393-004  | FITTING-MALE CONNECTOR, 0.25 TUBE X 0.125 NPT        |
| 27       | 1       | 142947      | VALVE-ANGLE, NEEDLE                                  |
| 28       | 1       | 110419-005  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.25 NPT        |
| 29       | 0.25 FT | 140326-04   | TUBING-FUEL                                          |
| 30       | 2       | 122056      | CHECK VALVE                                          |
| 31       | 4       | 121160      | PLUG-PIPE, 0.125 NPT                                 |
| 32       | 4       | 124349-010  | FITTING-ELBOW, 90° MALE, 0.38 TUBE X 0.25 NPT        |
| 33       | 1       | 128662      | GAUGE-PRESSURE (0-300#)                              |
| 34       | 1       | 128663      | GAUGE-PERCENT CAPACITY                               |
| 35       | 1       | 128664      | GAUGE-THERMOMETER                                    |
| 36       | 2       | 144545-02   | FITTING-CONNECTOR, STRAIN RELIEF, 0.50               |
| 37*      | 3       | 8052        | LOCKNUT-CONDUIT, 0.50                                |
| 38       | 3       | 142125-13   | NIPPLE-BRASS, EXTRA STRONG, 0.12 NPT X CLOSE         |
| 39       | 2       | 125260-001  | REDUCER-PIPE, BRASS, 0.25 NPT X 0.12 NPT             |
| 40*      | 1       | 22454-1     | SWITCH-PRESSURE (70-125#)                            |
| 41       | 5.0 FT  | 140333      | TUBE-STAINLESS STEEL, 0.25 O.D.                      |
| 42       | 1       | 124349-014  | FITTING-ELBOW, 90° MALE, 0.50 TUBE X 0.38 NPT        |
| 43       | 1       | 128885-003  | FITTING-MALE CONNECTOR, 0.25 TUBE X 7/16-20 (O-RING) |
| 44       | 1       | 121033-1    | BUSHING-PIPE, BRASS, 0.25 NPT X 0.125 NPT            |
| 45       | 1       | 4460        | ELBOW-PIPE, 0.50 NPT                                 |
| 46       | 1       | 121034-1    | TEE-PIPE, BRASS, 0.125 NPT                           |
| 47       | 1       | 143316      | FILTER-LINE, AUTOMATIC                               |
| 48       | 1       | 121033-5    | BUSHING-PIPE, BRASS, 0.50 NPT X 0.25 NPT             |
| 49       | 1       | 140317      | GROMMET-RUBBER                                       |
| 50       | 1       | 142125-3    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X 1.50          |
| 51       | 1       | 122212      | ELBOW-PIPE, BRASS, 0.125 NPT X 0.25 NPT              |
| 52       | 1       | 128967-003  | FITTING-ELBOW, 45° MALE, 0.38 TUBE X 0.12 NPT        |
| 53       | 2       | 142125-1    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X CLOSE         |
| 54       | 1       | 125935-010  | PIPE NIPPLE-0.50 NPT X 2.00                          |

### COMPONENT MAINTENANCE PARTS

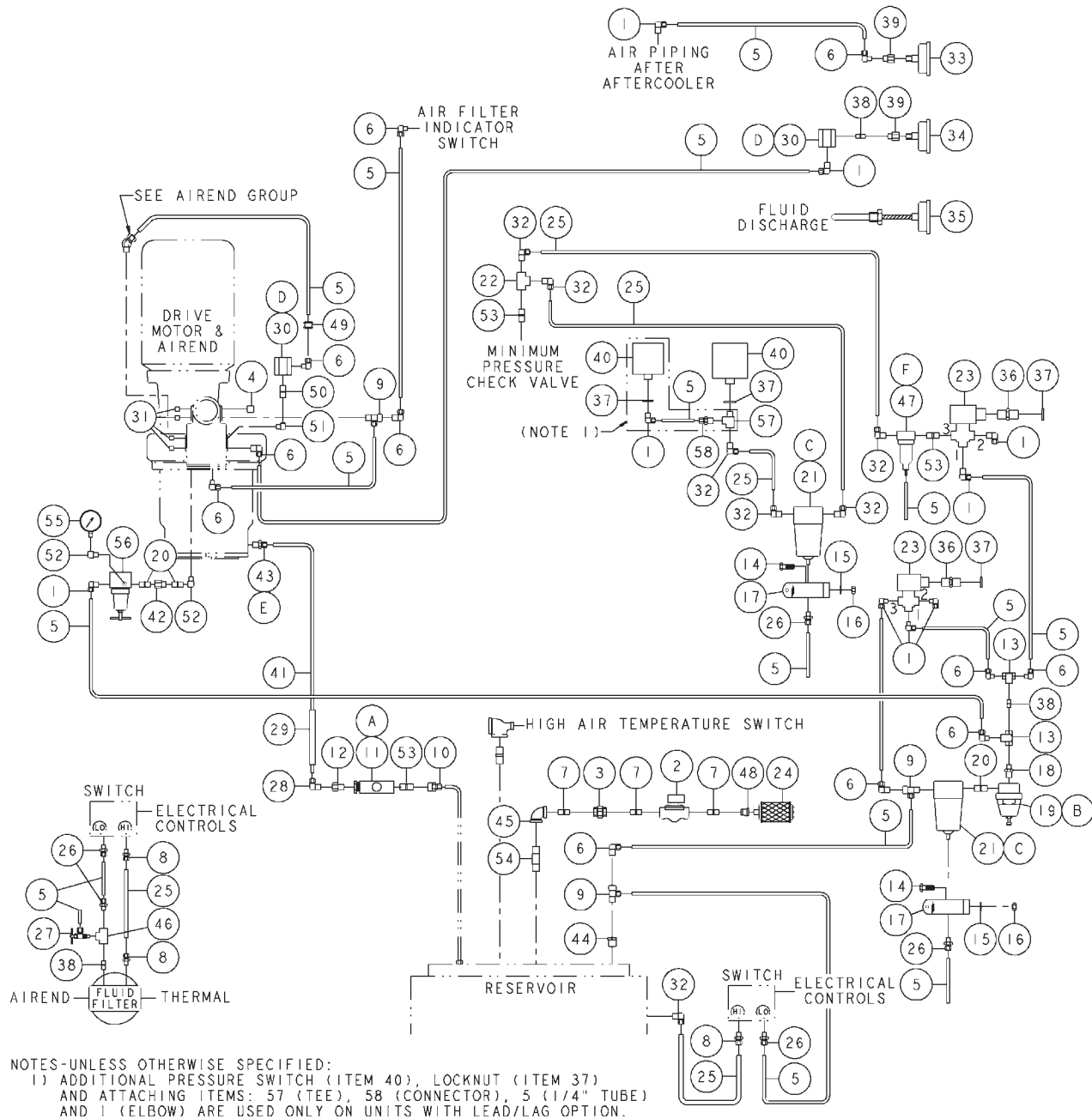
|   |   |            |                                                                   |
|---|---|------------|-------------------------------------------------------------------|
| A | 2 | 22749-010  | O-RING, VITON, 0.25 I.D.                                          |
| B | 1 | 146175-100 | KIT-DIFFERENTIAL PILOT VALVE (INCLUDES DIAPHRAGM ASSEMBLY & SEAT) |
| C | 1 | 129731-050 | KIT-LINE FILTER (INCLUDES BOWL SEAL, FILTER ELEMENT, GASKET)      |
| D | 4 | 123157-008 | O-RING, BUNA-N, 0.18 I.D.                                         |
| E | 1 | 140406-904 | O-RING, VITON, 0.35 I.D.                                          |
| F | 1 | 143316-050 | KIT-LINE FILTER (INCLUDES ELEMENT SEAL, FILTER ELEMENT)           |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

\* UNITS WITH LEAD/LAG OPTION REQUIRE ADDITIONAL PARTS AS NOTED ON DRAWING.

# Control Piping (wye-delta) - 142270-003/-004

150-210#



| ITEM No. | QTY.    | PART NUMBER | DESCRIPTION                                    |
|----------|---------|-------------|------------------------------------------------|
| 1        | 8       | 124349-005  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.25 NPT  |
| 2        | 1       | 7773-560    | VALVE-SOLENOID                                 |
| 3        | 1       | 124659-001  | FITTING-UNION, 2.00 NPT                        |
| 4        | 1       | 2721        | PLUG-PIPE, 0.50 NPT                            |
| 5*       | 53.0 FT | 124435-003  | TUBING-NYLON, 0.25 O.D.                        |
| 6*       | 11      | 124349-004  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.125 NPT |
| 7        | 3       | 6099        | PIPE NIPPLE-0.50 NPT X CLOSE                   |
| 8        | 3       | 124393-010  | FITTING-MALE CONNECTOR, 0.38 TUBE X 0.12 NPT   |

## Control Piping (we-delta) - 142270-003/-004

| ITEM No. | QTY.    | PART NUMBER | DESCRIPTION                                          |
|----------|---------|-------------|------------------------------------------------------|
| 9*       | 3       | 20201       | FITTING-TEE, 0.25 TUBE X 0.12 NPT X 0.12 NPT         |
| 10       | 1       | 126354-005  | FITTING-FEMALE CONNECTOR, 0.25 TUBE X 0.25 NPT       |
| 11       | 1       | 140508      | SIGHTGLASS (O-RING)                                  |
| 12       | 1       | 125025      | ORIFICE-LINE FILTER (0.040)                          |
| 13       | 2       | 90084       | VALVE-SHUTTLE, 0.125 NPT                             |
| 14       | 2       | 123478-L12  | SCREW-CAP, 3/8-16 UNC X 1.00, GRADE 5 (@ 23 FT-LBS)  |
| 15       | 2       | 123115-06C  | LOCKWASHER, 0.38                                     |
| 16       | 2       | 124364-L02  | NUT-HEX, 3/8-16 UNC                                  |
| 17       | 2       | 122417-002  | BRACKET-LINE FILTER HANGER                           |
| 18       | 1       | 111098-002  | PIPE NIPPLE-BRASS, 0.125 NPT X 0.25 NPT X CLOSE      |
| 19       | 1       | 146175-2    | VALVE-DIFFERENTIAL PILOT                             |
| 20       | 3       | 142125-2    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X 1.25          |
| 21       | 2       | 129731      | FILTER-LINE, AUTOMATIC                               |
| 22       | 1       | 121034-2    | TEE-PIPE, BRASS, 0.25 NPT                            |
| 23       | 2       | 120496-4    | VALVE-SOLENOID, 3-WAY                                |
| 24       | 1       | 22014       | MUFFLER-BLOWDOWN VALVE                               |
| 25       | 15.0 FT | 124435-004  | TUBING-NYLON, 0.38 O.D.                              |
| 26       | 5       | 124393-004  | FITTING-MALE CONNECTOR, 0.25 TUBE X 0.125 NPT        |
| 27       | 1       | 142947      | VALVE-ANGLE, NEEDLE                                  |
| 28       | 1       | 110419-005  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.25 NPT        |
| 29       | 0.25 FT | 140326-04   | TUBING-FUEL                                          |
| 30       | 2       | 122056      | CHECK VALVE                                          |
| 31       | 4       | 121160      | PLUG-PIPE, 0.125 NPT                                 |
| 32       | 7       | 124349-010  | FITTING-ELBOW, 90° MALE, 0.38 TUBE X 0.25 NPT        |
| 33       | 1       | 128662      | GAUGE-PRESSURE (0-300#)                              |
| 34       | 1       | 128663      | GAUGE-PERCENT CAPACITY                               |
| 35       | 1       | 128664      | GAUGE-THERMOMETER                                    |
| 36       | 2       | 144545-02   | FITTING-CONNECTOR, STRAIN RELIEF, 0.50               |
| 37*      | 3       | 8052        | LOCKNUT-CONDUIT, 0.50                                |
| 38       | 3       | 142125-13   | NIPPLE-BRASS, EXTRA STRONG, 0.12 NPT X CLOSE         |
| 39       | 2       | 125260-001  | REDUCER-PIPE, BRASS, 0.25 NPT X 0.12 NPT             |
| 40*      | 1       | 8698-011    | SWITCH-PRESSURE (150-210#)                           |
| 41       | 5.0 FT  | 140333      | TUBE-STAINLESS STEEL, 0.25 O.D.                      |
| 42       | 1       | 125259-002  | FITTING-COUPLING, BRASS, 0.25 X 0.25                 |
| 43       | 1       | 128885-003  | FITTING-MALE CONNECTOR, 0.25 TUBE X 7/16-20 (O-RING) |
| 44       | 1       | 121033-1    | BUSHING-PIPE, BRASS, 0.25 NPT X 0.125 NPT            |
| 45       | 1       | 4460        | ELBOW-PIPE, 0.50 NPT                                 |
| 46       | 1       | 121034-1    | TEE-PIPE, BRASS, 0.125 NPT                           |
| 47       | 1       | 143316      | FILTER-LINE, AUTOMATIC                               |
| 48       | 1       | 6078        | COUPLING-PIPE, REDUCING, 0.75 NPT X 0.50 NPT         |
| 49       | 1       | 140317      | GROMMET-RUBBER                                       |
| 50       | 1       | 142125-3    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X 1.50          |
| 51       | 1       | 122212      | ELBOW-PIPE, BRASS, 0.125 NPT X 0.25 NPT              |
| 52       | 2       | 122636      | ELBOW-PIPE, BRASS, 0.25 NPT                          |
| 53       | 3       | 142125-1    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X CLOSE         |
| 54       | 1       | 125935-010  | PIPE NIPPLE-0.50 NPT X 2.00                          |
| 55       | 1       | 126345      | GAUGE-PRESSURE, LIQUID FILLED (0-200#)               |
| 56       | 1       | 23543-002   | REGULATOR-PRESSURE                                   |

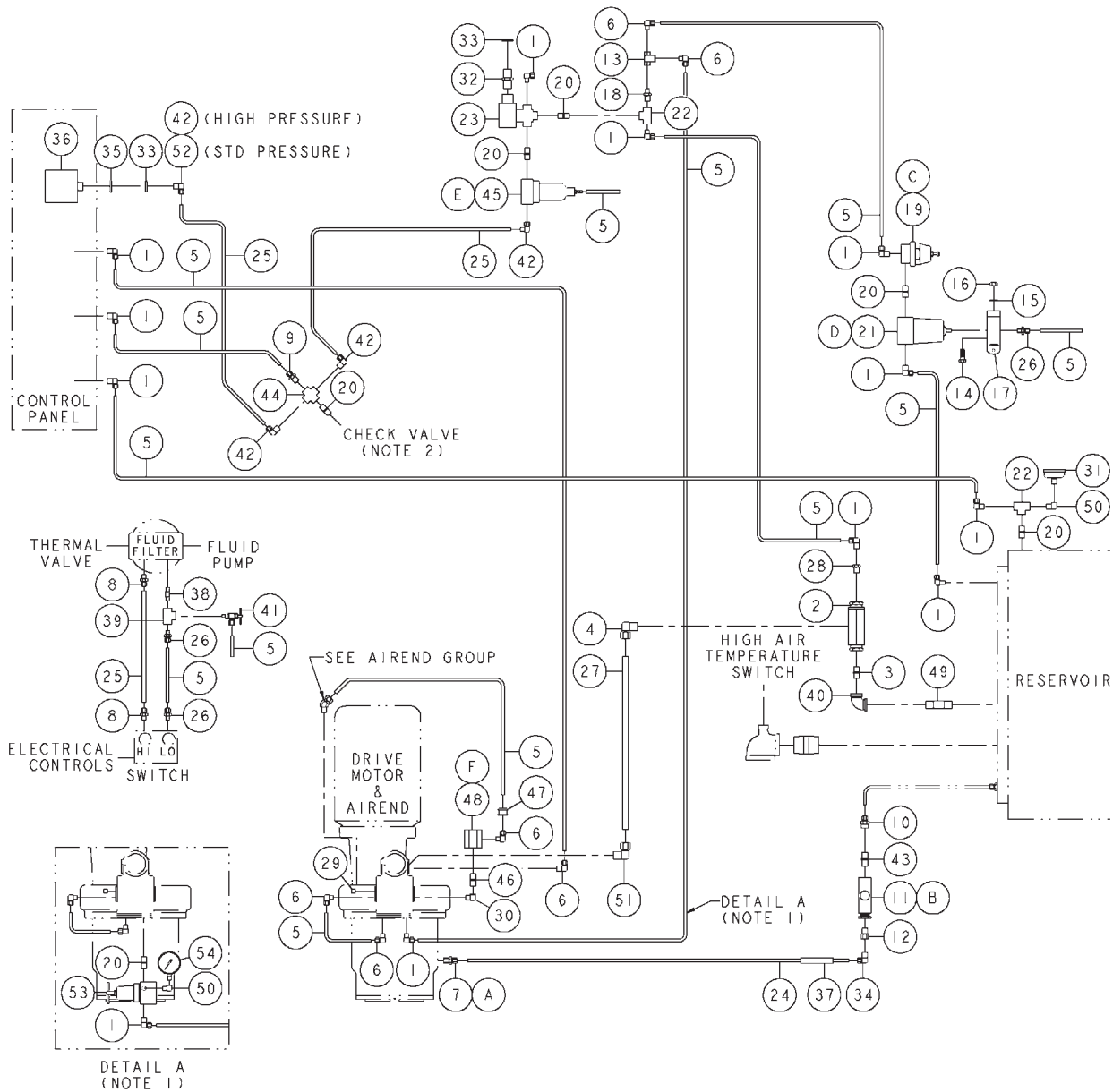
### COMPONENT MAINTENANCE PARTS

|   |   |            |                                                                   |
|---|---|------------|-------------------------------------------------------------------|
| A | 2 | 22749-010  | O-RING, VITON, 0.25 I.D.                                          |
| B | 1 | 146175-100 | KIT-DIFFERENTIAL PILOT VALVE (INCLUDES DIAPHRAGM ASSEMBLY & SEAT) |
| C | 1 | 129731-050 | KIT-LINE FILTER (INCLUDES BOWL SEAL, FILTER ELEMENT, GASKET)      |
| D | 4 | 123157-008 | O-RING, BUNA-N, 0.18 I.D.                                         |
| E | 1 | 140406-904 | O-RING, VITON, 0.35 I.D.                                          |
| F | 1 | 143316-050 | KIT-LINE FILTER (INCLUDES ELEMENT SEAL, FILTER ELEMENT)           |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

\* UNITS WITH LEAD/LAG OPTION REQUIRE ADDITIONAL PARTS AS NOTED ON DRAWING.

# Control Piping (PowerSync, L/LV) - 141295-001/141328-002



NOTES-UNLESS OTHERWISE SPECIFIED:

- 1) DETAIL A: ITEMS 53 & 54 (REGULATOR & GAUGE) AND ADDITIONAL QUANTITIES OF ITEMS 20 & 50 USED ONLY ON HIGH PRESSURE (150#) UNITS AS INDICATED. ITEM 52 NOT USED ON HIGH PRESSURE UNITS. (POWERSYNC OPTION AVAILABLE AT 150# FULL LOAD PRESSURE MAXIMUM.)
- 2) SWING CHECK VALVE USED ON ACROSS THE LINE UNITS, MINIMUM PRESSURE CHECK VALVE USED ON WYE-DELTA UNITS. REFERENCE AIR PIPING GROUPS FOR CHECK VALVE PART NUMBER.

| ITEM No. | QTY.    | PART NUMBER | DESCRIPTION                                    |
|----------|---------|-------------|------------------------------------------------|
| 1        | 11      | 124349-005  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.25 NPT  |
| 2        | 1       | 128826-1    | VALVE-BLOWDOWN                                 |
| 3        | 1       | 6099        | PIPE NIPPLE-0.50 NPT X CLOSE                   |
| 4        | 1       | 124349-015  | FITTING-ELBOW, 90° MALE, 0.50 TUBE X 0.50 NPT  |
| 5        | 36.0 FT | 124435-003  | TUBING-NYLON, 0.25 O.D.                        |
| 6        | 6       | 124349-004  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.125 NPT |

# Control Piping (Power\$ync, L/LV) - 141295-001/141328-002

| ITEM No. | QTY.    | PART NUMBER | DESCRIPTION                                          |
|----------|---------|-------------|------------------------------------------------------|
| 7        | 1       | 128885-003  | FITTING-MALE CONNECTOR, 0.25 TUBE X 7/16-20 (O-RING) |
| 8        | 2       | 124393-010  | FITTING-MALE CONNECTOR, 0.38 TUBE X 0.12 NPT         |
| 9        | 1       | 124393-005  | FITTING-MALE CONNECTOR, 0.25 TUBE X 0.25 NPT         |
| 10       | 1       | 126354-005  | FITTING-FEMALE CONNECTOR, 0.25 TUBE X 0.25 NPT       |
| 11       | 1       | 140508      | SIGHTGLASS (O-RING)                                  |
| 12       | 1       | 125025-002  | ORIFICE-LINE FILTER (0.078)                          |
| 13       | 1       | 90084       | VALVE-SHUTTLE, 0.125 NPT                             |
| 14       | 1       | 123478-L12  | SCREW-CAP, 3/8-16 UNC X 1.00, GRADE 5 (@ 23 FT-LBS)  |
| 15       | 1       | 123115-06C  | LOCKWASHER, 0.38                                     |
| 16       | 1       | 124364-L02  | NUT-HEX, 3/8-16 UNC                                  |
| 17       | 1       | 122417-002  | BRACKET-LINE FILTER HANGER                           |
| 18       | 1       | 111098-002  | PIPE NIPPLE-BRASS, 0.125 NPT X 0.25 NPT X CLOSE      |
| 19       | 1       | 146175-2    | VALVE-DIFFERENTIAL PILOT                             |
| 20*      | 5       | 142125-2    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X 1.25          |
| 21       | 1       | 129731      | FILTER-LINE, AUTOMATIC                               |
| 22       | 2       | 121034-2    | TEE-PIPE, BRASS, 0.25 NPT                            |
| 23       | 1       | 120496-5    | VALVE-SOLENOID, 3-WAY (100 & 125#)                   |
|          | 1       | 120496-4    | VALVE-SOLENOID, 3-WAY (150#)                         |
| 24       | 5.0 FT  | 140333      | TUBE-STAINLESS STEEL, 0.25 O.D.                      |
| 25       | 15.0 FT | 124435-004  | TUBING-NYLON, 0.38 O.D.                              |
| 26       | 3       | 124393-004  | FITTING-MALE CONNECTOR, 0.25 TUBE X 0.125 NPT        |
| 27       | 6.0 FT  | 124435-005  | TUBING-NYLON, 0.50 O.D.                              |
| 28       | 1       | 121033-5    | BUSHING-PIPE, BRASS, 0.50 NPT X 0.25 NPT             |
| 29       | 1       | 121160      | PLUG-PIPE, 0.125 NPT                                 |
| 30       | 1       | 122212      | ELBOW-PIPE, BRASS, 0.125 NPT X 0.25 NPT              |
| 31       | 1       | 126345      | GAUGE-PRESSURE, LIQUID FILLED (0-200#)               |
| 32       | 1       | 144545-02   | FITTING-CONNECTOR, STRAIN RELIEF, 0.50               |
| 33       | 2       | 8052        | LOCKNUT-CONDUIT, 0.50                                |
| 34       | 1       | 110419-005  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.25 NPT        |
| 35       | 1       | 123506-02   | SEAL-LIQUIDTITE, 0.50                                |
| 36       | 1       | 22454-1     | SWITCH-PRESSURE (70-125#)                            |
|          | 1       | 8698-011    | SWITCH-PRESSURE (150-210#)                           |
| 37       | 0.25 FT | 140326-04   | TUBING-FUEL                                          |
| 38       | 1       | 142125-13   | NIPPLE-BRASS, EXTRA STRONG, 0.12 NPT X CLOSE         |
| 39       | 1       | 121034-1    | TEE-PIPE, BRASS, 0.125 NPT                           |
| 40       | 1       | 4460        | ELBOW-PIPE, 0.50 NPT                                 |
| 41       | 1       | 142947      | VALVE-ANGLE, NEEDLE                                  |
| 42       | 3       | 124349-010  | FITTING-ELBOW, 90° MALE, 0.38 TUBE X 0.25 NPT        |
| 43       | 1       | 142125-1    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X CLOSE         |
| 44       | 1       | 6150        | CROSS-PIPE, BRASS, 0.25 NPT                          |
| 45       | 1       | 143316      | FILTER-LINE, AUTOMATIC                               |
| 46       | 1       | 142125-3    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X 1.50          |
| 47       | 1       | 140317      | GROMMET-RUBBER                                       |
| 48       | 1       | 122056      | CHECK VALVE                                          |
| 49       | 1       | 125935-018  | PIPE NIPPLE-0.50 NPT X 3.00                          |
| 50*      | 1       | 122636      | ELBOW-PIPE, BRASS, 0.25 NPT                          |
| 51       | 1       | 124349-014  | FITTING-ELBOW, 90° MALE, 0.50 TUBE X 0.38 NPT        |
| 52       | 1       | 124349-009  | FITTING-ELBOW, 90° MALE, 0.38 TUBE X 0.125 NPT       |
| 53*      | 1       | 23543-002   | REGULATOR-PRESSURE                                   |
| 54*      | 1       | 140718      | GAUGE-PRESSURE                                       |

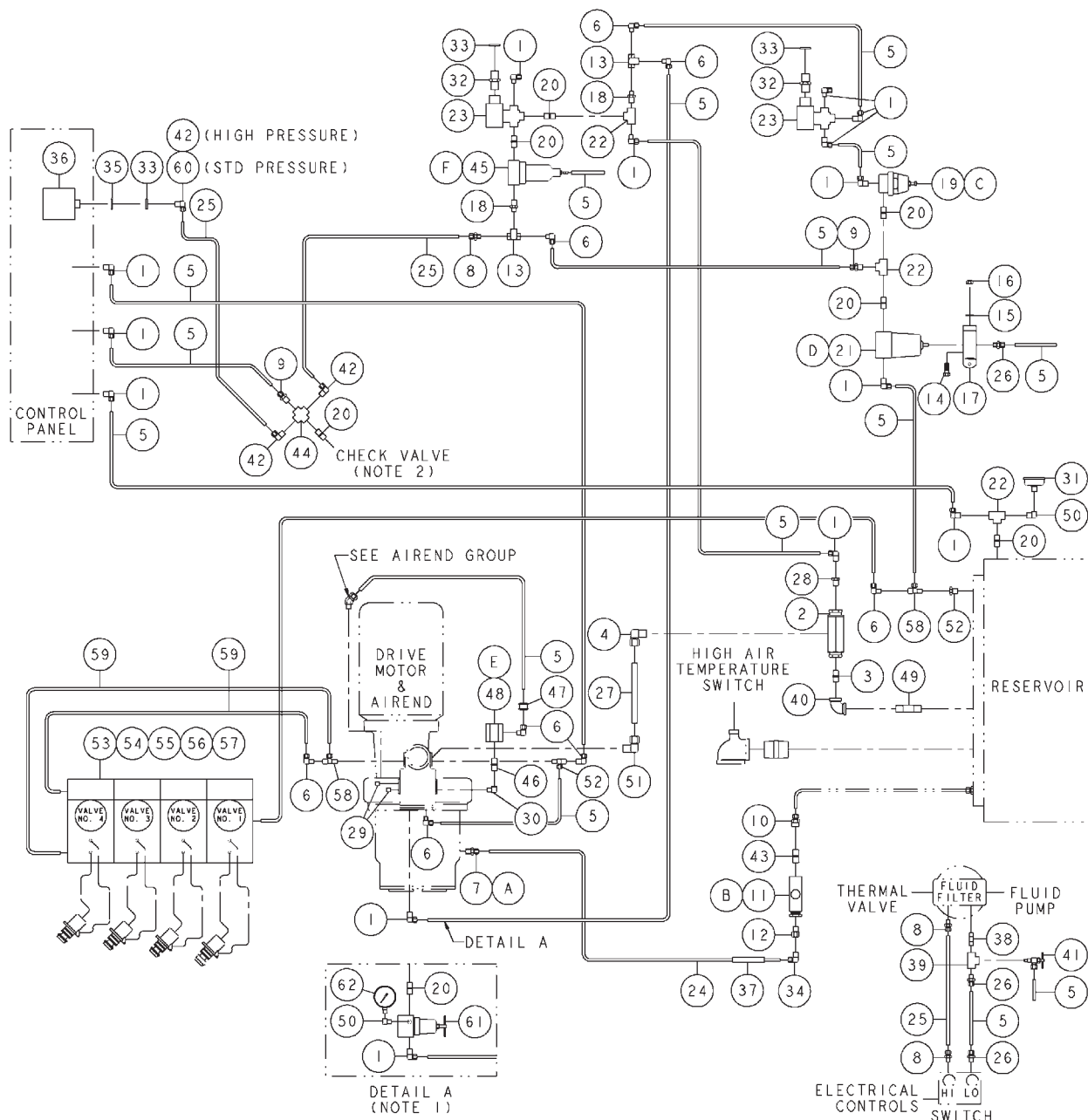
## COMPONENT MAINTENANCE PARTS

|   |   |            |                                                                   |
|---|---|------------|-------------------------------------------------------------------|
| A | 1 | 140406-904 | O-RING, VITON, 0.35 I.D.                                          |
| B | 2 | 22749-010  | O-RING, VITON, 0.25 I.D.                                          |
| C | 1 | 146175-100 | KIT-DIFFERENTIAL PILOT VALVE (INCLUDES DIAPHRAGM ASSEMBLY & SEAT) |
| D | 1 | 129731-050 | KIT-LINE FILTER (INCLUDES BOWL SEAL, FILTER ELEMENT, GASKET)      |
| E | 1 | 143316-050 | KIT-LINE FILTER (INCLUDES ELEMENT SEAL, FILTER ELEMENT)           |
| F | 4 | 123157-008 | O-RING, BUNA-N, 0.18 I.D.                                         |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

\* 150# UNITS REQUIRE ADDITIONAL PARTS AS NOTED ON DRAWING.

Control Piping (PowerSync, W/LV) - 140514-002/-003



- NOTES-UNLESS OTHERWISE SPECIFIED:
- 1) DETAIL A: ITEMS 61 & 62 (REGULATOR & GAUGE) AND ADDITIONAL QUANTITIES OF ITEMS 20 & 50 USED ONLY ON HIGH PRESSURE (150#) UNITS AS INDICATED. ITEM 60 NOT USED ON HIGH PRESSURE UNITS. (POWERSYNC OPTION AVAILABLE AT 150# FULL LOAD PRESSURE MAXIMUM.)
  - 2) SWING CHECK VALVE USED ON ACROSS THE LINE UNITS. MINIMUM PRESSURE CHECK VALVE USED ON WYE-DELTA UNITS. REFERENCE AIR PIPING GROUPS FOR CHECK VALVE PART NUMBER.

| ITEM No. | QTY.    | PART NUMBER | DESCRIPTION                                    |
|----------|---------|-------------|------------------------------------------------|
| 1        | 13      | 124349-005  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.25 NPT  |
| 2        | 1       | 128826-1    | VALVE-BLOWDOWN                                 |
| 3        | 1       | 6099        | PIPE NIPPLE-0.50 NPT X CLOSE                   |
| 4        | 1       | 124349-015  | FITTING-ELBOW, 90° MALE, 0.50 TUBE X 0.50 NPT  |
| 5        | 55.0 FT | 124435-003  | TUBING-NYLON, 0.25 O.D.                        |
| 6        | 8       | 124349-004  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.125 NPT |

# Control Piping (PowerSync, W/LV) - 140514-002/-003

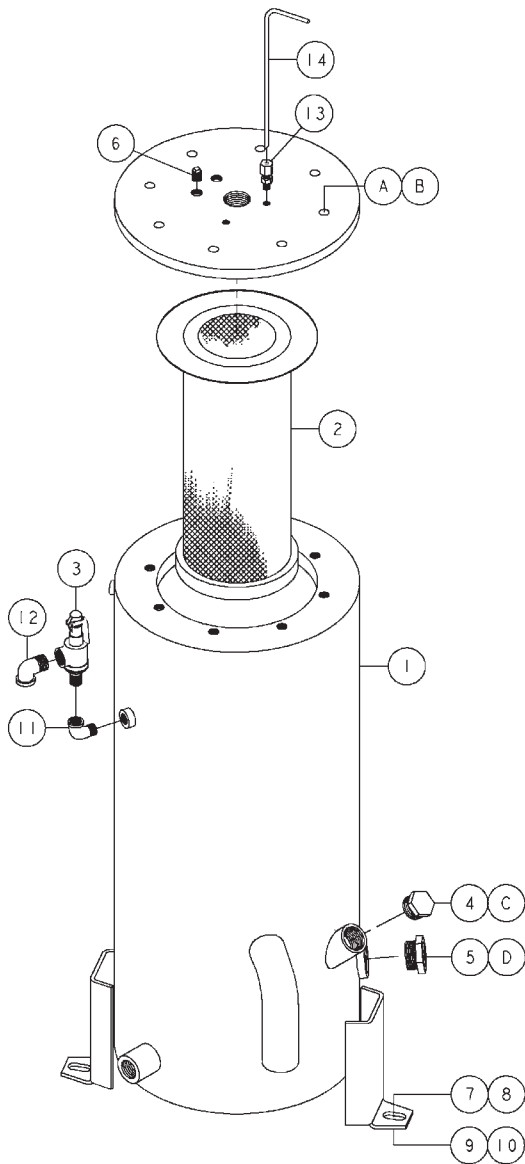
| ITEM No. | QTY.    | PART NUMBER | DESCRIPTION                                          |
|----------|---------|-------------|------------------------------------------------------|
| 7        | 1       | 128885-003  | FITTING-MALE CONNECTOR, 0.25 TUBE X 7/16-20 (O-RING) |
| 8        | 3       | 124393-010  | FITTING-MALE CONNECTOR, 0.38 TUBE X 0.12 NPT         |
| 9        | 2       | 124393-005  | FITTING-MALE CONNECTOR, 0.25 TUBE X 0.25 NPT         |
| 10       | 1       | 126354-005  | FITTING-FEMALE CONNECTOR, 0.25 TUBE X 0.25 NPT       |
| 11       | 1       | 140508      | SIGHTGLASS (O-RING)                                  |
| 12       | 1       | 125025-002  | ORIFICE-LINE FILTER (0.078)                          |
| 13       | 2       | 90084       | VALVE-SHUTTLE, 0.125 NPT                             |
| 14       | 1       | 123478-L12  | SCREW-CAP, 3/8-16 UNC X 1.00, GRADE 5 (@ 23 FT-LBS)  |
| 15       | 1       | 123115-06C  | LOCKWASHER, 0.38                                     |
| 16       | 1       | 124364-L02  | NUT-HEX, 3/8-16 UNC                                  |
| 17       | 1       | 122417-002  | BRACKET-LINE FILTER HANGER                           |
| 18       | 2       | 111098-002  | PIPE NIPPLE-BRASS, 0.125 NPT X 0.25 NPT X CLOSE      |
| 19       | 1       | 146175-2    | VALVE-DIFFERENTIAL PILOT                             |
| 20       | 6       | 142125-2    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X 1.25          |
| 21       | 1       | 129731      | FILTER-LINE, AUTOMATIC                               |
| 22       | 3       | 121034-2    | TEE-PIPE, BRASS, 0.25 NPT                            |
| 23       | 1       | 120496-5    | VALVE-SOLENOID, 3-WAY (100 & 125#)                   |
|          | 1       | 120496-4    | VALVE-SOLENOID, 3-WAY (150#)                         |
| 24       | 5.0 FT  | 140333      | TUBE-STAINLESS STEEL, 0.25 O.D.                      |
| 25       | 15.0 FT | 124435-004  | TUBING-NYLON, 0.38 O.D.                              |
| 26       | 3       | 124393-004  | FITTING-MALE CONNECTOR, 0.25 TUBE X 0.125 NPT        |
| 27       | 6.0 FT  | 124435-005  | TUBING-NYLON, 0.50 O.D.                              |
| 28       | 1       | 121033-5    | BUSHING-PIPE, BRASS, 0.50 NPT X 0.25 NPT             |
| 29       | 2       | 121160      | PLUG-PIPE, 0.125 NPT                                 |
| 30       | 1       | 122212      | ELBOW-PIPE, BRASS, 0.125 NPT X 0.25 NPT              |
| 31       | 1       | 126345      | GAUGE-PRESSURE, LIQUID FILLED (0-200#)               |
| 32       | 2       | 144545-02   | FITTING-CONNECTOR, STRAIN RELIEF, 0.50               |
| 33       | 3       | 8052        | LOCKNUT-CONDUIT, 0.50                                |
| 34       | 1       | 110419-005  | FITTING-ELBOW, 90° MALE, 0.25 TUBE X 0.25 NPT        |
| 35       | 1       | 123506-02   | SEAL-LIQUIDTITE, 0.50                                |
| 36       | 1       | 22454-1     | SWITCH-PRESSURE (70-125#)                            |
|          | 1       | 8698-011    | SWITCH-PRESSURE (150-210#)                           |
| 37       | 0.25 FT | 140326-04   | TUBING-FUEL                                          |
| 38       | 1       | 142125-13   | NIPPLE-BRASS, EXTRA STRONG, 0.12 NPT X CLOSE         |
| 39       | 1       | 121034-1    | TEE-PIPE, BRASS, 0.125 NPT                           |
| 40       | 1       | 4460        | ELBOW-PIPE, 0.50 NPT                                 |
| 41       | 1       | 142947      | VALVE-ANGLE, NEEDLE                                  |
| 42       | 2       | 124349-010  | FITTING-ELBOW, 90° MALE, 0.38 TUBE X 0.25 NPT        |
| 43       | 1       | 142125-1    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X CLOSE         |
| 44       | 1       | 6150        | CROSS-PIPE, BRASS, 0.25 NPT                          |
| 45       | 1       | 143316      | FILTER-LINE, AUTOMATIC                               |
| 46       | 1       | 142125-3    | NIPPLE-BRASS, EXTRA STRONG, 0.25 NPT X 1.50          |
| 47       | 1       | 140317      | GROMMET-RUBBER                                       |
| 48       | 1       | 122056      | CHECK VALVE                                          |
| 49       | 1       | 125935-018  | PIPE NIPPLE-0.50 NPT X 3.00                          |
| 50       | 1       | 122636      | ELBOW-PIPE, BRASS, 0.25 NPT                          |
| 51       | 1       | 124349-014  | FITTING-ELBOW, 90° MALE, 0.50 TUBE X 0.38 NPT        |
| 52       | 1       | 121033-1    | BUSHING-PIPE, BRASS, 0.25 NPT X 0.125 NPT            |
| 53       | 1       | 142153-01   | SOLENOID VALVE GROUP (SEE PAGE 25)                   |
| 54       | 1       | 141566      | BRACKET-VALVE                                        |
| 55       | 4       | 123478-K12  | SCREW-CAP, 5/16-18 UNC X 1.00, GRADE 5 (@ 13 FT-LBS) |
| 56       | 4       | 123115-05C  | LOCKWASHER, 0.31                                     |
| 57       | 4       | 124364-K02  | NUT-HEX, 5/16-18 UNC                                 |
| 58       | 3       | 20201       | FITTING-TEE, 0.25 TUBE X 0.12 NPT X 0.12 NPT         |
| 59       | 20.0 FT | 140620-003  | TUBING-NYLON, BLACK, 0.25 O.D.                       |
| 60       | 1       | 124349-009  | FITTING-ELBOW, 90° MALE, 0.38 TUBE X 0.125 NPT       |
| 61*      | 1       | 23543-002   | REGULATOR-PRESSURE                                   |
| 62*      | 1       | 140718      | GAUGE-PRESSURE                                       |

## COMPONENT MAINTENANCE PARTS

|   |   |            |                                                                   |
|---|---|------------|-------------------------------------------------------------------|
| A | 1 | 140406-904 | O-RING, VITON, 0.35 I.D.                                          |
| B | 2 | 22749-010  | O-RING, VITON, 0.25 I.D.                                          |
| C | 1 | 146175-100 | KIT-DIFFERENTIAL PILOT VALVE (INCLUDES DIAPHRAGM ASSEMBLY & SEAT) |
| D | 1 | 129731-050 | KIT-LINE FILTER (INCLUDES BOWL SEAL, FILTER ELEMENT, GASKET)      |
| E | 1 | 143316-050 | KIT-LINE FILTER (INCLUDES ELEMENT SEAL, FILTER ELEMENT)           |
| F | 4 | 123157-008 | O-RING, BUNA-N, 0.18 I.D.                                         |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

\* 150# UNITS REQUIRE ADDITIONAL PARTS AS NOTED ON DRAWING.



NOTES-UNLESS OTHERWISE SPECIFIED:  
1) ITEM 15 (FLUID DRAIN ASSEMBLY) IS NOT  
SHOWN AND IS SHIPPED LOOSE.

## Reservoir - 129749-001/142275-001/-002

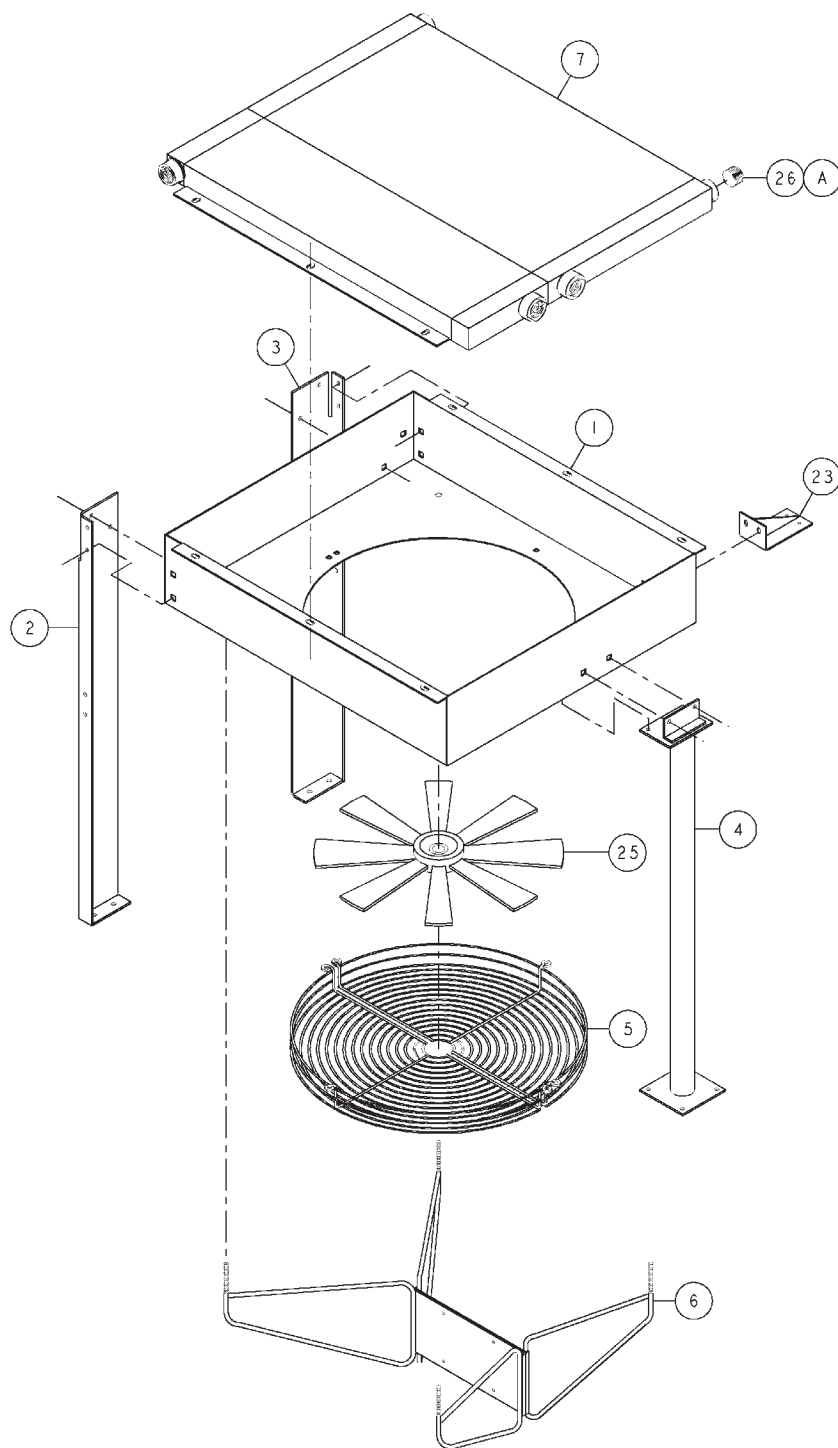
| ITEM No. | QTY.   | PART NUMBER | DESCRIPTION                                         |
|----------|--------|-------------|-----------------------------------------------------|
| 1        | 1      | 129558-175  | RESERVOIR-AIR/FLUID <b>(100-150#)</b>               |
|          | 1      | 129558-275  | RESERVOIR-AIR/FLUID <b>(175-210#)</b>               |
| 2        | 1      | 124487-019  | SEPARATOR-AIR/FLUID                                 |
| 3        | 1      | 141966-1    | VALVE-PRESSURE RELIEF <b>(100-125#)</b>             |
|          | 1      | 141966-6    | VALVE-PRESSURE RELIEF <b>(150#)</b>                 |
|          | 1      | 141966-29   | VALVE-PRESSURE RELIEF <b>(175-210#)</b>             |
| 4        | 1      | 129844-162  | CAP-FILLER (O-RING)                                 |
| 5        | 1      | 129843-188  | SIGHTGLASS (O-RING)                                 |
| 6        | 1      | 124876-005  | PLUG-PIPE, 0.50 NPT                                 |
| 7        | 3      | 123478-N15  | SCREW-CAP, 1/2-13 UNC X 1.50, GRADE 5 (@ 55 FT-LBS) |
| 8        | 9      | 110428W050  | WASHER-FLAT, 0.50                                   |
| 9        | 3      | 123115-08C  | LOCKWASHER, 0.50                                    |
| 10       | 3      | 124370-N02  | LOCKNUT, 1/2-13 UNC                                 |
| 11       | 1      | 3092        | ELBOW-PIPE, 0.75 NPT                                |
| 12       | 1      | 3004        | ELBOW-PIPE, 1.00 NPT                                |
| 13       | 1      | 142299      | FITTING-STRAIGHT, 0.25 TUBE X 0.25 NPT              |
| 14       | 1      | 140323-1    | TUBE-SEPARATOR DRAIN                                |
| 15       | 1      | 140407-001  | ASSEMBLY-FLUID DRAIN                                |
| 15/1     | 3.0 FT | 129164-500  | TUBING-CLEAR VINYL, 0.50 I.D.                       |
| 15/2     | 1      | 128176-015  | CLAMP-HOSE                                          |
| 15/3     | 1      | 129048-009  | FITTING-ADAPTER, 0.50 TUBE X 3/4-16 (O-RING)        |
| 15/4     | 1      | 140405-004  | FITTING-HOSE, BARBED, 0.50 HOSE X 3/4-16 NPT        |

### COMPONENT MAINTENANCE PARTS

|   |   |            |                                                      |
|---|---|------------|------------------------------------------------------|
| A | 8 | 123478-R18 | SCREW-CAP, 3/4-10 UNC X 2.25, GRADE 5 (@ 200 FT-LBS) |
| B | 8 | 123115-12C | LOCKWASHER, 0.75                                     |
| C | 1 | 140406-920 | O-RING, VITON, 1.48 I.D.                             |
| D | 1 | 140406-924 | O-RING, VITON, 1.72 I.D.                             |
| E | 1 | 140406-908 | O-RING, VITON, 0.64 I.D. (FOR ITEM 15/3)             |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

Cooler (a/c, 100-150#) - 129774-001



NOTES-UNLESS OTHERWISE SPECIFIED:  
1) ITEMS 8 THRU 22 AND 24 (HARDWARE ITEMS) ARE NOT SHOWN.

## Cooler (a/c, 100-150#) - 129774-001

| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                          |
|----------|------|-------------|------------------------------------------------------|
| 1        | 1    | 129542      | SHROUD-COOLER                                        |
| 2        | 1    | 129567      | BRACKET-SUPPORT                                      |
| 3        | 1    | 129566      | BRACKET-SUPPORT                                      |
| 4        | 1    | 129569      | BRACKET-COOLER SUPPORT                               |
| 5        | 2    | 22006       | GUARD-FAN                                            |
| 6        | 1    | 23433       | ASSEMBLY-FAN MOTOR MOUNT                             |
| 7        | 1    | 129067-1    | COOLER-COMBINATION (250#)                            |
| 8        | 12   | 123478-K10  | SCREW-CAP, 5/16-18 UNC X 0.75, GRADE 5 (@ 13 FT-LBS) |
| 9        | 8    | 110428W031  | WASHER-FLAT, 0.31                                    |
| 10       | 12   | 123115-05C  | LOCKWASHER, 0.31                                     |
| 11       | 12   | 120686      | NUT-SPEED, 5/16-18 UNC                               |
| 12       | 8    | 123478-L12  | SCREW-CAP, 3/8-16 UNC X 1.00, GRADE 5 (@ 23 FT-LBS)  |
| 13       | 8    | 110428W038  | WASHER-FLAT, 0.38                                    |
| 14       | 8    | 123115-06C  | LOCKWASHER, 0.38                                     |
| 15       | 8    | 124364-L02  | NUT-HEX, 3/8-16 UNC                                  |
| 16       | 6    | 123478-L10  | SCREW-CAP, 3/8-16 UNC X 0.75, GRADE 5 (@ 23 FT-LBS)  |
| 17       | 8    | 123478-J11  | SCREW-CAP, 1/4-20 UNC X 0.88, GRADE 5 (@ 6 FT-LBS)   |
| 18       | 8    | 123115-04C  | LOCKWASHER, 0.25                                     |
| 19       | 8    | 110428N025  | WASHER-FLAT, 0.25                                    |
| 20       | 8    | 22456       | NUT-GRIP, 1/4-20 UNC                                 |
| 21       | 8    | 124364-N02  | NUT-HEX, 1/2-13 UNC                                  |
| 22       | 4    | 123115-08C  | LOCKWASHER, 0.50                                     |
| 23       | 1    | 129551      | BRACKET-ENCLOSURE                                    |
| 24       | 2    | 128705-I10  | SCREW-SELF-DRILLING, ZINC, #14 X 0.75                |
| 25       | 1    | 126511-019  | FAN-8 BLADE, 22.0 O.D.                               |
| 26       | 1    | 128883-131  | PLUG-PIPE, 1-5/16-12 (O-RING)                        |

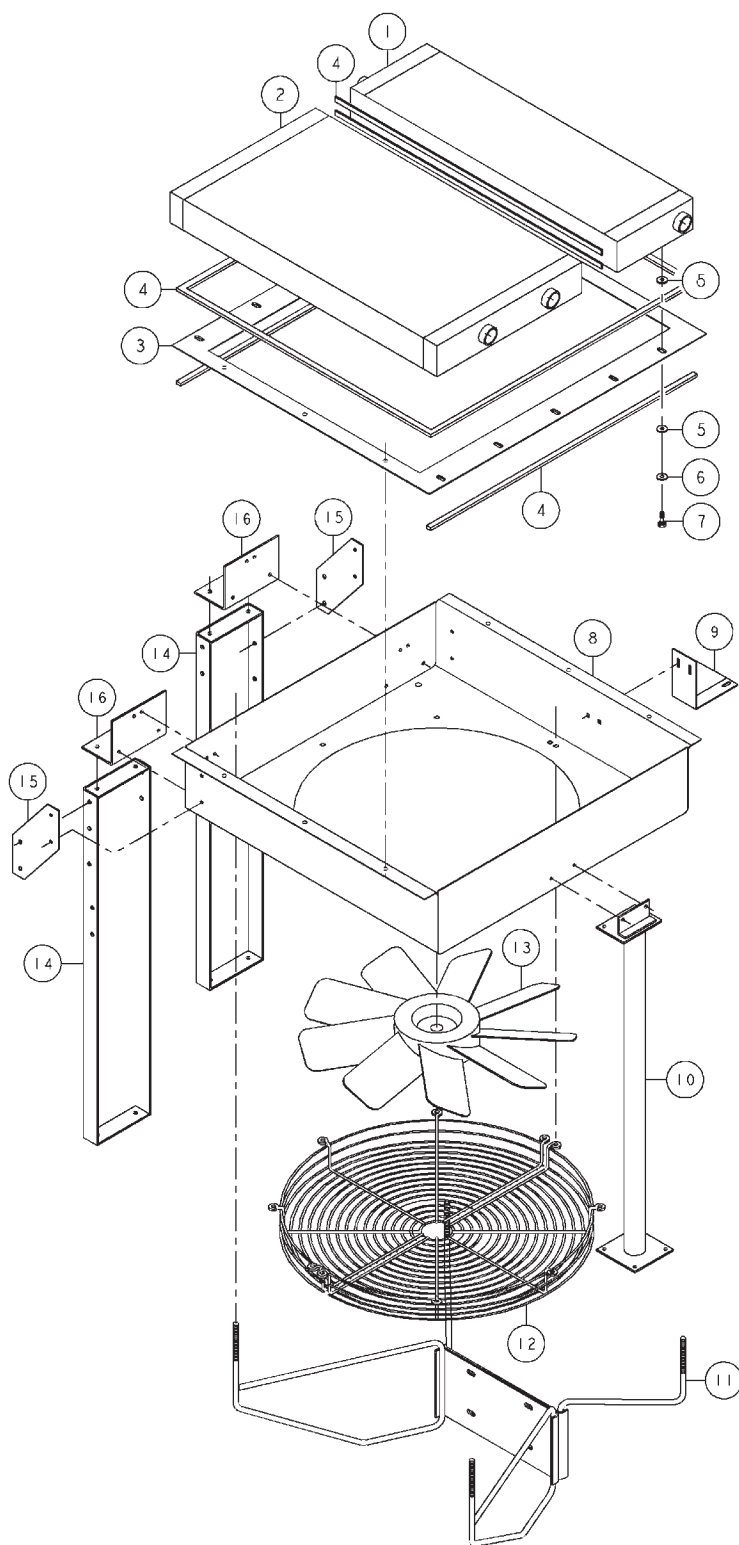
### COMPONENT MAINTENANCE PARTS

|   |   |            |                          |
|---|---|------------|--------------------------|
| A | 1 | 140406-916 | O-RING, VITON, 1.17 I.D. |
|---|---|------------|--------------------------|

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

Cooler (a/c, 175-210#) - 129775-002

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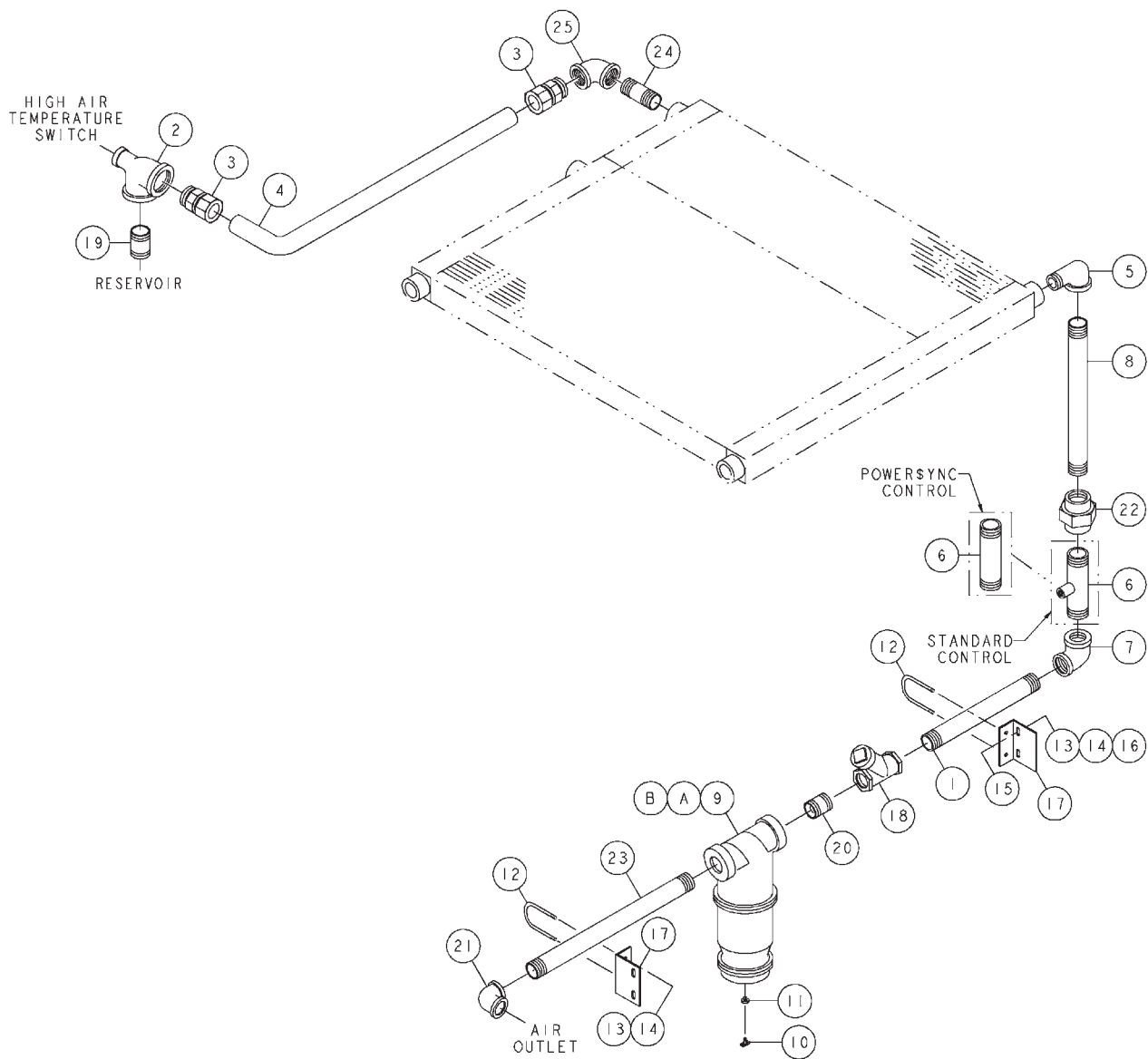
NOTES-UNLESS OTHERWISE SPECIFIED:  
1) HARDWARE ITEMS 17 THRU 34 ARE NOT SHOWN.

## Cooler (a/c, 175-210#) - 129775-002

| ITEM No. | QTY.    | PART NUMBER | DESCRIPTION                                          |
|----------|---------|-------------|------------------------------------------------------|
| 1        | 1       | 145646      | AFTERCOOLER                                          |
| 2        | 1       | 145647      | FLUID COOLER                                         |
| 3        | 1       | 129150-4    | SHROUD-COOLER                                        |
| 4        | 20.0 FT | 141528      | SEAL-RUBBER                                          |
| 5        | 20      | 145645      | WASHER-TEFLON                                        |
| 6        | 10      | 110428W050  | WASHER-FLAT, 0.50                                    |
| 7        | 10      | 145067-N05  | SCREW-SHOULDER, 0.50 X 0.38 X 3/8-16 UNC             |
| 8        | 1       | 129150-1    | SHROUD-COOLER                                        |
| 9        | 1       | 129552      | BRACKET-ENCLOSURE                                    |
| 10       | 1       | 129569-1    | BRACKET-COOLER SUPPORT                               |
| 11       | 1       | 129162      | ASSEMBLY-FAN MOTOR MOUNT                             |
| 12       | 2       | 129187      | GUARD-FAN                                            |
| 13       | 1       | 126511-029  | FAN-9 BLADE, 26.0 O.D.                               |
| 14       | 2       | 129574      | BRACKET-SUPPORT                                      |
| 15       | 2       | 129595      | GUSSET                                               |
| 16       | 2       | 140160      | BRACKET                                              |
| 17       | 20      | 123478-K10  | SCREW-CAP, 5/16-18 UNC X 0.75, GRADE 5 (@ 13 FT-LBS) |
| 18       | 20      | 110428W031  | WASHER-FLAT, 0.31                                    |
| 19       | 20      | 123115-05C  | LOCKWASHER, 0.31                                     |
| 21       | 6       | 123478-L10  | SCREW-CAP, 3/8-16 UNC X 0.75, GRADE 5 (@ 23 FT-LBS)  |
| 22       | 14      | 110428W038  | WASHER-FLAT, 0.38                                    |
| 23       | 14      | 123115-06C  | LOCKWASHER, 0.38                                     |
| 24       | 14      | 124364-L02  | NUT-HEX, 3/8-16 UNC                                  |
| 25       | 8       | 123478-J12  | SCREW-CAP, 1/4-20 UNC X 1.00, GRADE 5 (@ 6 FT-LBS)   |
| 26       | 8       | 123115-04C  | LOCKWASHER, 0.25                                     |
| 27       | 8       | 110428W025  | WASHER-FLAT, 0.25                                    |
| 28       | 8       | 124364-N02  | NUT-HEX, 1/2-13 UNC                                  |
| 29       | 4       | 123115-08C  | LOCKWASHER, 0.50                                     |
| 30       | 8       | 123478-L12  | SCREW-CAP, 3/8-16 UNC X 1.00, GRADE 5 (@ 23 FT-LBS)  |
| 31       | 8       | 22456       | NUT-GRIP, 1/4-20 UNC                                 |
| 32       | 12      | 120686      | NUT-SPEED, 5/16-18 UNC                               |
| 33       | 2       | 128705-I10  | SCREW-SELF-DRILLING, ZINC, #14 X 0.75                |
| 34       | 8       | 124364-M02  | NUT-HEX, 7/16-14 UNC                                 |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

Air Piping (a/c, across the line, 100-150#) -  
129756-001/141317-001



Air Piping (a/c, across the line, 100-150#) -  
129756-001/141317-001

| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                          |
|----------|------|-------------|------------------------------------------------------|
| 1        | 1    | 125938-084  | PIPE NIPPLE-1.25 NPT X 11.25                         |
| 2        | 1    | 124420-001  | TEE-PIPE, 1.50 NPT X 0.50 NPT X 1.50 NPT             |
| 3        | 2    | 23240       | FITTING-MALE CONNECTOR, 1.50 TUBE X 1.50 NPT         |
| 4        | 1    | 121918-073  | TUBE-FORMED, STEEL, 1.50 O.D.                        |
| 5        | 1    | 4512        | ELBOW-PIPE, 1.50 NPT, STREET                         |
| 6        | 1    | 140305-001  | PIPE NIPPLE-1.50 I.D. W/0.25 NPT COUPLING (STANDARD) |
|          | 1    | 125939-038  | PIPE NIPPLE-1.50 NPT X 5.50 (POWER\$YNC)             |
| 7        | 1    | 6181        | ELBOW-PIPE, 1.50 NPT X 1.25 NPT                      |
| 8        | 1    | 125939-106  | PIPE NIPPLE-1.50 NPT X 14.00                         |
| 9        | 1    | 124827-125  | SEPARATOR-MOISTURE                                   |
| 10       | 1    | 2713        | DRAINCOCK-0.25 NPT                                   |
| 11       | 1    | 3535        | BUSHING-PIPE, 0.38 NPT X 0.25 NPT                    |
| 12       | 2    | 122560-01   | U-BOLT-GALVANIZED, 1/4-20 UNC, 1.75 I.D. X 3.00      |
| 13       | 8    | 110428W031  | WASHER-FLAT, 0.31                                    |
| 14       | 8    | 123115-05C  | LOCKWASHER, 0.31                                     |
| 15       | 4    | 123478-K15  | SCREW-CAP, 5/16-18 UNC X 1.50, GRADE 5 (@ 13 FT-LBS) |
| 16       | 4    | 124364-K02  | NUT-HEX, 5/16-18 UNC                                 |
| 17       | 2    | 140011      | BRACKET-SUPPORT                                      |
| 18       | 1    | 125039-001  | CHECK VALVE-1-1/4 NPT                                |
| 19       | 1    | 125939-014  | PIPE NIPPLE-1.50 NPT X 2.50                          |
| 20       | 1    | 122211-14   | ORIFICE-NOZZLE                                       |
| 21       | 1    | 4715        | ELBOW-PIPE, 1.25 NPT                                 |
| 22       | 1    | 127289-009  | UNION-PIPE, 1.50 NPT                                 |
| 23       | 1    | 125938-126  | PIPE NIPPLE-1.25 NPT X 16.50                         |
| 24       | 1    | 125939-018  | PIPE NIPPLE-1.50 NPT X 3.00                          |
| 25       | 1    | 4718        | ELBOW-PIPE, 1.50 NPT                                 |

**COMPONENT MAINTENANCE PARTS**

|   |   |            |                                          |
|---|---|------------|------------------------------------------|
| A | 1 | 124827-052 | KIT-MOISTURE SEPARATOR (INCLUDES ITEM B) |
| B | 1 | 124827-051 | GASKET-MOISTURE SEPARATOR                |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).



## Air Piping (a/c, wye-delta, 100-150#) - 129699-001/141318-001

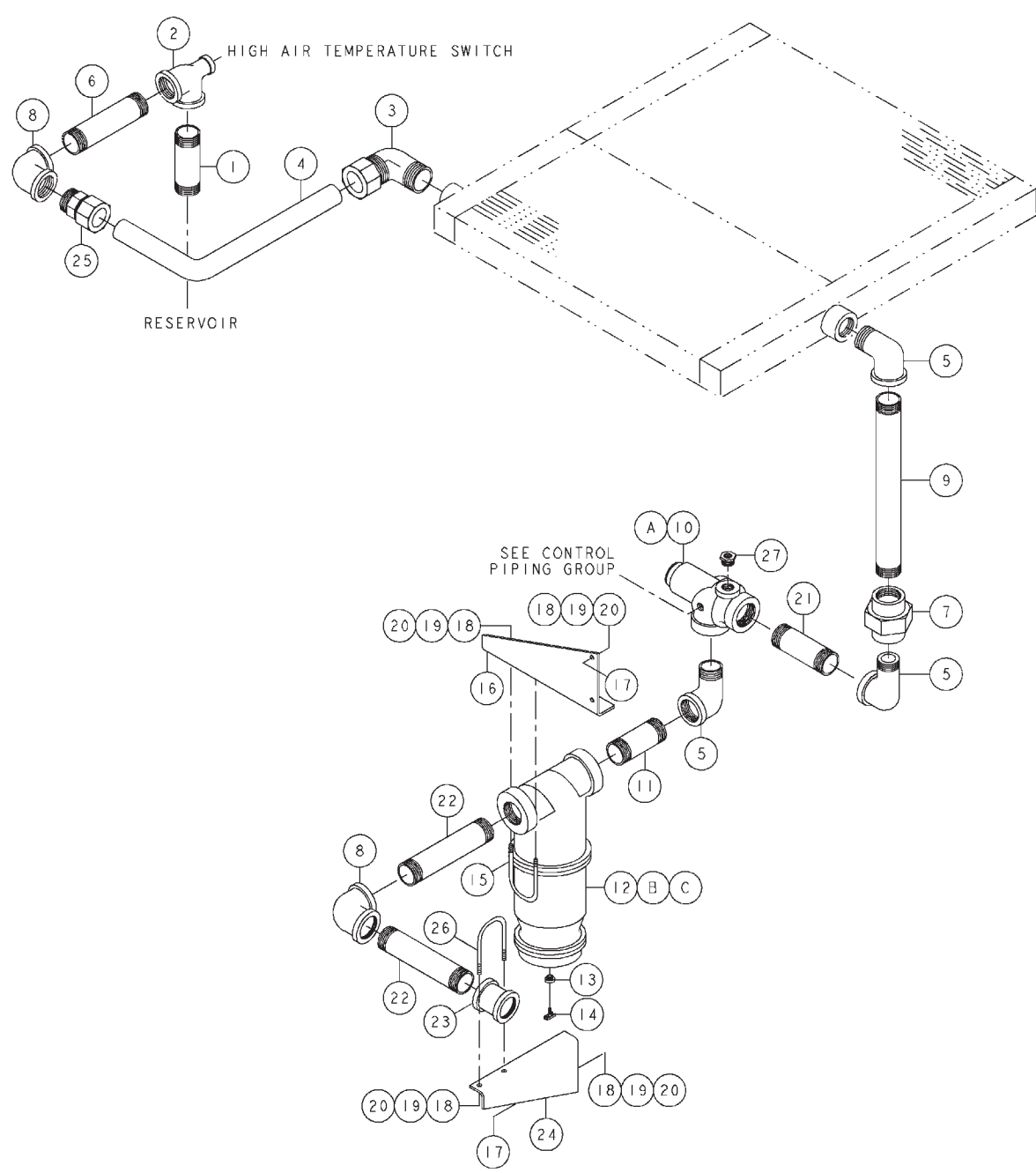
| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                          |
|----------|------|-------------|------------------------------------------------------|
| 1        | 1    | 125939-034  | PIPE NIPPLE-1.50 NPT X 5.00                          |
| 2        | 1    | 124420-001  | TEE-PIPE, 1.50 NPT X 0.50 NPT X 1.50 NPT             |
| 3        | 2    | 23240       | FITTING-MALE CONNECTOR, 1.50 TUBE X 1.50 NPT         |
| 4        | 1    | 121918-073  | TUBE-FORMED, STEEL, 1.50 O.D.                        |
| 5        | 3    | 4512        | ELBOW-PIPE, 1.50 NPT, STREET                         |
| 6        | 1    | 125939-098  | PIPE NIPPLE-1.50 NPT X 13.00                         |
| 7        | 1    | 128691-001  | CHECK VALVE-MINIMUM PRESSURE                         |
| 8        | 1    | 125938-032  | PIPE NIPPLE-1.25 NPT X 4.75                          |
| 9        | 1    | 124827-125  | SEPARATOR-MOISTURE                                   |
| 10       | 1    | 2713        | DRAINCOCK-0.25 NPT                                   |
| 11       | 1    | 3535        | BUSHING-PIPE, 0.38 NPT X 0.25 NPT                    |
| 12       | 2    | 122560-01   | U-BOLT-GALVANIZED, 1/4-20 UNC, 1.75 I.D. X 3.00      |
| 13       | 8    | 110428W031  | WASHER-FLAT, 0.31                                    |
| 14       | 8    | 123115-05C  | LOCKWASHER, 0.31                                     |
| 15       | 4    | 123478-K15  | SCREW-CAP, 5/16-18 UNC X 1.50, GRADE 5 (@ 13 FT-LBS) |
| 16       | 4    | 124364-K02  | NUT-HEX, 5/16-18 UNC                                 |
| 17       | 2    | 140011      | BRACKET-SUPPORT                                      |
| 18       | 1    | 4665        | BUSHING-PIPE, 1.50 NPT X 1.25 NPT                    |
| 19       | 1    | 125939-014  | PIPE NIPPLE-1.50 NPT X 2.50                          |
| 20       | 1    | 125938-150  | PIPE NIPPLE-1.25 NPT X 19.50                         |
| 21       | 1    | 4715        | ELBOW-PIPE, 1.25 NPT                                 |
| 22       | 1    | 127289-009  | UNION-PIPE, 1.50 NPT                                 |
| 23       | 1    | 4717        | BUSHING-PIPE, 0.75 NPT X 0.25 NPT (STANDARD)         |
|          | 1    | 2058        | PLUG-PIPE, 0.75 NPT (POWER\$YNC)                     |
| 24       | 1    | 125939-018  | PIPE NIPPLE-1.50 NPT X 3.00                          |
| 25       | 1    | 4718        | ELBOW-PIPE, 1.50 NPT                                 |

### COMPONENT MAINTENANCE PARTS

|   |   |            |                                          |
|---|---|------------|------------------------------------------|
| A | 1 | 128691-051 | KIT-MINIMUM PRESSURE CHECK VALVE         |
| B | 1 | 124827-052 | KIT-MOISTURE SEPARATOR (INCLUDES ITEM C) |
| C | 1 | 124827-051 | GASKET-MOISTURE SEPARATOR                |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

# Air Piping (a/c, 175-210#) - 129779-003



## Air Piping (a/c, 175-210#) - 129779-003

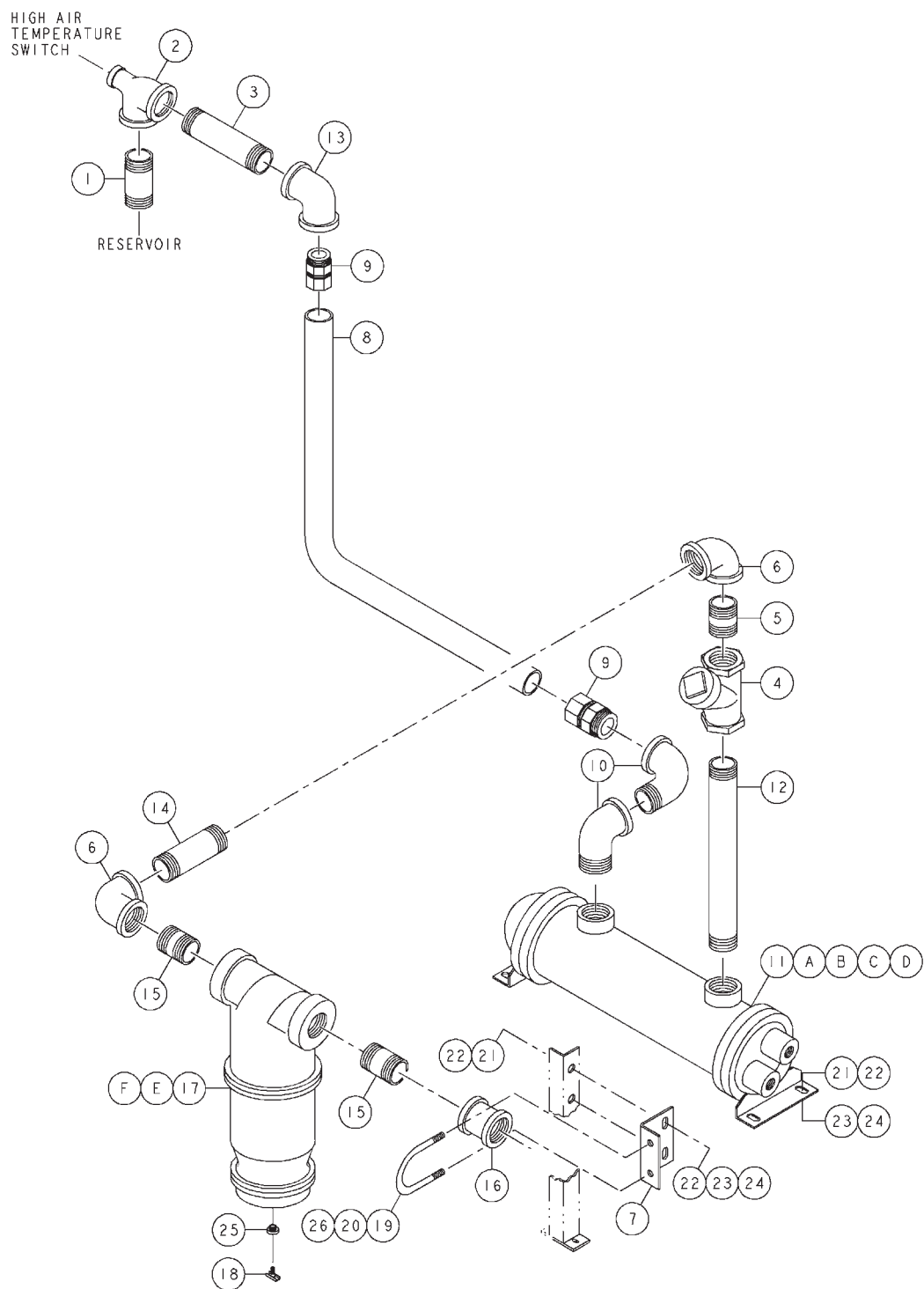
| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                         |
|----------|------|-------------|-----------------------------------------------------|
| 1        | 1    | 125940-042  | PIPE NIPPLE-2.00 NPT X 6.00                         |
| 2        | 1    | 21929       | TEE-PIPE, 2.00 NPT X 0.50 NPT X 2.00 NPT            |
| 3        | 1    | 110419-024  | FITTING-ELBOW, 90° MALE, 2.00 TUBE X 2.00 NPT       |
| 4        | 1    | 121918-071  | TUBE-FORMED, STEEL, 2.00 O.D.                       |
| 5        | 3    | 4462        | ELBOW-PIPE, 2.00 NPT                                |
| 6        | 1    | 125940-026  | PIPE NIPPLE-2.00 NPT X 4.00                         |
| 7        | 1    | 127289-010  | UNION-PIPE, 2.00 NPT                                |
| 8        | 2    | 4463        | ELBOW-PIPE, 2.00 NPT                                |
| 9        | 1    | 125940-058  | PIPE NIPPLE-2.00 NPT X 8.00                         |
| 10       | 1    | 128691-004  | CHECK VALVE-MINIMUM PRESSURE                        |
| 11       | 1    | 125940-014  | PIPE NIPPLE-2.00 NPT X 2.50                         |
| 12       | 1    | 124827-200  | SEPARATOR-MOISTURE                                  |
| 13       | 1    | 3535        | BUSHING-PIPE, 0.38 NPT X 0.25 NPT                   |
| 14       | 1    | 2713        | DRAINCOCK-0.25 NPT                                  |
| 15       | 1    | 23732       | U-BOLT, 3/8-16 UNC                                  |
| 16       | 1    | 140158      | BRACKET-SUPPORT                                     |
| 17       | 3    | 123478-L12  | SCREW-CAP, 3/8-16 UNC X 1.00, GRADE 5 (@ 23 FT-LBS) |
| 18       | 7    | 110428W038  | WASHER-FLAT, 0.38                                   |
| 19       | 7    | 123115-06C  | LOCKWASHER, 0.38                                    |
| 20       | 7    | 124364-L02  | NUT-HEX, 3/8-16 UNC                                 |
| 21       | 1    | 125940-038  | PIPE NIPPLE-2.00 NPT X 5.50                         |
| 22       | 2    | 125940-054  | PIPE NIPPLE-2.00 NPT X 7.50                         |
| 23       | 1    | 6366        | COUPLING-PIPE, 2.00 NPT                             |
| 24       | 1    | 140172      | BRACKET-SUPPORT                                     |
| 25       | 1    | 23991       | FITTING-MALE CONNECTOR, 2.00 TUBE X 2.00 NPT        |
| 26       | 1    | 122761      | U-BOLT, 3/8-16 UNC, 2.44 I.D. X 4.25                |
| 27       | 1    | 3673        | BUSHING-PIPE, 1.25 NPT X 1.00 NPT                   |

### COMPONENT MAINTENANCE PARTS

|   |   |            |                                          |
|---|---|------------|------------------------------------------|
| A | 1 | 128691-054 | KIT-MINIMUM PRESSURE CHECK VALVE         |
| B | 1 | 124827-052 | KIT-MOISTURE SEPARATOR (INCLUDES ITEM C) |
| C | 1 | 124827-051 | GASKET-MOISTURE SEPARATOR                |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

# Air Piping (w/c, across the line, 100-150#) - 129707-001



## Air Piping (w/c, across the line, 100-150#) - 129707-001

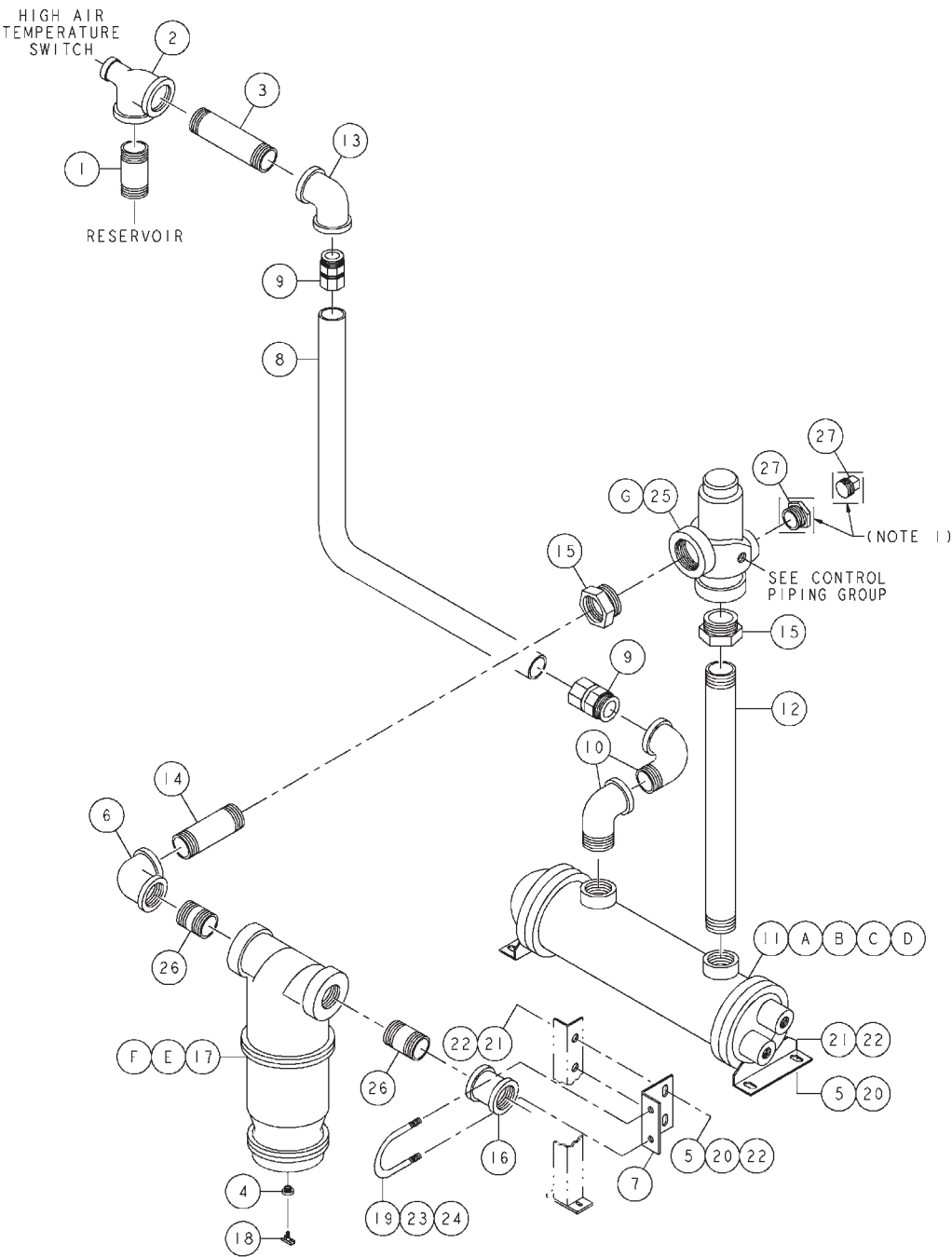
| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                          |
|----------|------|-------------|------------------------------------------------------|
| 1        | 1    | 125939-018  | PIPE NIPPLE-1.50 NPT X 3.00                          |
| 2        | 1    | 124420-001  | TEE-PIPE, 1.50 NPT X 0.50 NPT X 1.50 NPT             |
| 3        | 1    | 125939-066  | PIPE NIPPLE-1.50 NPT X 9.00                          |
| 4        | 1    | 125039-001  | CHECK VALVE-1-1/4 NPT                                |
| 5        | 1    | 122211-14   | ORIFICE-NOZZLE                                       |
| 6        | 2    | 4715        | ELBOW-PIPE, 1.25 NPT                                 |
| 7        | 1    | 140011      | BRACKET-SUPPORT                                      |
| 8        | 1    | 121918-007  | TUBE-FORMED, STEEL, 1.50 O.D.                        |
| 9        | 2    | 23240       | FITTING-MALE CONNECTOR, 1.50 TUBE X 1.50 NPT         |
| 10       | 2    | 4512        | ELBOW-PIPE, 1.50 NPT, STREET                         |
| 11       | 1    | 22709-17    | HEAT EXCHANGER-AFTERCOOLER                           |
| 12       | 1    | 125938-062  | PIPE NIPPLE-1.25 NPT X 8.50                          |
| 13       | 1    | 4718        | ELBOW-PIPE, 1.50 NPT                                 |
| 14       | 1    | 125938-022  | PIPE NIPPLE-1.25 NPT X 3.50                          |
| 15       | 2    | 125938-010  | PIPE NIPPLE-1.25 NPT X 2.00                          |
| 16       | 1    | 120290      | COUPLING-PIPE, 1.25 NPT                              |
| 17       | 1    | 124827-125  | SEPARATOR-MOISTURE                                   |
| 18       | 1    | 2713        | DRAINCOCK-0.25 NPT                                   |
| 19       | 1    | 122560-01   | U-BOLT-GALVANIZED, 1/4-20 UNC, 1.75 I.D. X 3.00      |
| 20       | 2    | 123115-04C  | LOCKWASHER, 0.25                                     |
| 21       | 6    | 123478-K12  | SCREW-CAP, 5/16-18 UNC X 1.00, GRADE 5 (@ 13 FT-LBS) |
| 22       | 6    | 110428W031  | WASHER-FLAT, 0.31                                    |
| 23       | 6    | 123115-05C  | LOCKWASHER, 0.31                                     |
| 24       | 6    | 124364-K02  | NUT-HEX, 5/16-18 UNC                                 |
| 25       | 1    | 3535        | BUSHING-PIPE, 0.38 NPT X 0.25 NPT                    |
| 26       | 2    | 110428N025  | WASHER-FLAT, 0.25                                    |

### COMPONENT MAINTENANCE PARTS

|   |   |            |                                          |
|---|---|------------|------------------------------------------|
| A | 1 | 22708-725  | BONNET-COOLER, IN/OUT END                |
| B | 1 | 22708-727  | GASKET-COOLER, IN/OUT END                |
| C | 1 | 22708-726  | BONNET-COOLER, RETURN END                |
| D | 1 | 22708-728  | GASKET-COOLER, RETURN END                |
| E | 1 | 124827-052 | KIT-MOISTURE SEPARATOR (INCLUDES ITEM F) |
| F | 1 | 124827-051 | GASKET-MOISTURE SEPARATOR                |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

# Air Piping (w/c, wye-delta, 100-150#) - 129757-001/141320-001



# Air Piping (w/c, wye-delta, 100-150#) - 129757-001/141320-001

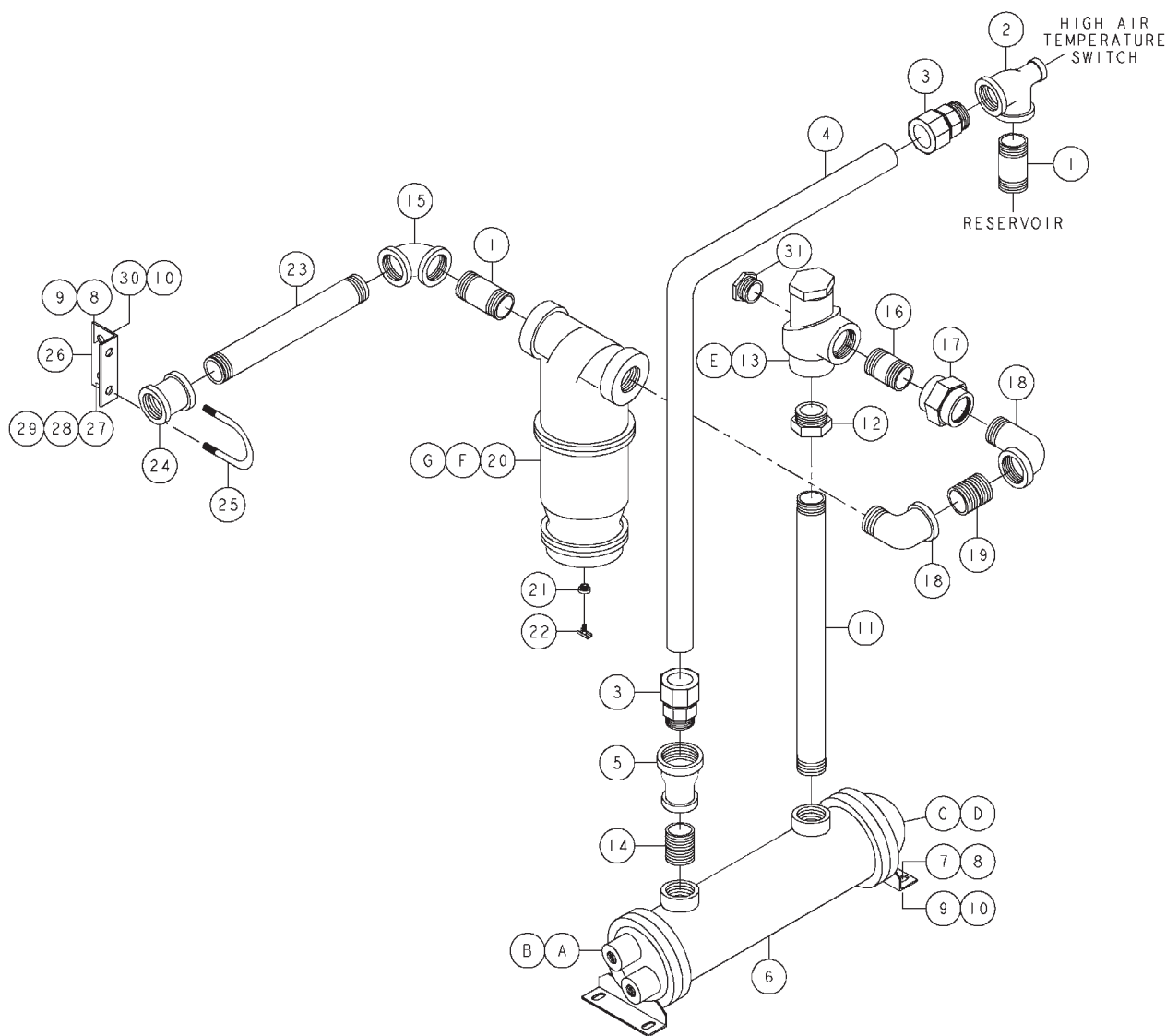
| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                          |
|----------|------|-------------|------------------------------------------------------|
| 1        | 1    | 124692-001  | PIPE NIPPLE-1.50 NPT X CLOSE                         |
| 2        | 1    | 124420-001  | TEE-PIPE, 1.50 NPT X 0.50 NPT X 1.50 NPT             |
| 3        | 1    | 125939-066  | PIPE NIPPLE-1.50 NPT X 9.00                          |
| 4        | 1    | 3535        | BUSHING-PIPE, 0.38 NPT X 0.25 NPT                    |
| 5        | 6    | 124364-K02  | NUT-HEX, 5/16-18 UNC                                 |
| 6        | 1    | 4715        | ELBOW-PIPE, 1.25 NPT                                 |
| 7        | 1    | 140011      | BRACKET-SUPPORT                                      |
| 8        | 1    | 121918-007  | TUBE-FORMED, STEEL, 1.50 O.D.                        |
| 9        | 2    | 23240       | FITTING-MALE CONNECTOR, 1.50 TUBE X 1.50 NPT         |
| 10       | 2    | 4512        | ELBOW-PIPE, 1.50 NPT, STREET                         |
| 11       | 1    | 22709-17    | HEAT EXCHANGER-AFTERCOOLER                           |
| 12       | 1    | 125938-088  | PIPE NIPPLE-1.25 NPT X 11.75                         |
| 13       | 1    | 4718        | ELBOW-PIPE, 1.50 NPT                                 |
| 14       | 1    | 125938-008  | PIPE NIPPLE-1.25 NPT X 1.75                          |
| 15       | 2    | 4665        | BUSHING-PIPE, 1.50 NPT X 1.25 NPT                    |
| 16       | 1    | 120290      | COUPLING-PIPE, 1.25 NPT                              |
| 17       | 1    | 124827-125  | SEPARATOR-MOISTURE                                   |
| 18       | 1    | 2713        | DRAINCOCK-0.25 NPT                                   |
| 19       | 1    | 122560-01   | U-BOLT-GALVANIZED, 1/4-20 UNC, 1.75 I.D. X 3.00      |
| 20       | 6    | 123115-05C  | LOCKWASHER, 0.31                                     |
| 21       | 6    | 123478-K12  | SCREW-CAP, 5/16-18 UNC X 1.00, GRADE 5 (@ 13 FT-LBS) |
| 22       | 8    | 110428W031  | WASHER-FLAT, 0.31                                    |
| 23       | 2    | 110428N025  | WASHER-FLAT, 0.25                                    |
| 24       | 2    | 123115-04C  | LOCKWASHER, 0.25                                     |
| 25       | 1    | 128691-001  | CHECK VALVE-MINIMUM PRESSURE                         |
| 26       | 2    | 125938-010  | PIPE NIPPLE-1.25 NPT X 2.00                          |
| 27       | 1    | 4717        | BUSHING-PIPE, 0.75 NPT X 0.25 NPT (STANDARD)         |
|          | 1    | 2058        | PLUG-PIPE, 0.75 NPT (POWER\$YNC)                     |

## COMPONENT MAINTENANCE PARTS

|   |   |            |                                          |
|---|---|------------|------------------------------------------|
| A | 1 | 22708-725  | BONNET-COOLER, IN/OUT END                |
| B | 1 | 22708-727  | GASKET-COOLER, IN/OUT END                |
| C | 1 | 22708-726  | BONNET-COOLER, RETURN END                |
| D | 1 | 22708-728  | GASKET-COOLER, RETURN END                |
| E | 1 | 124827-052 | KIT-MOISTURE SEPARATOR (INCLUDES ITEM F) |
| F | 1 | 124827-051 | GASKET-MOISTURE SEPARATOR                |
| G | 1 | 128691-051 | KIT-MINIMUM PRESSURE CHECK VALVE         |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

# Air Piping (w/c, 175-210#) - 129767-002



## Air Piping (w/c, 175-210#) - 129767-002

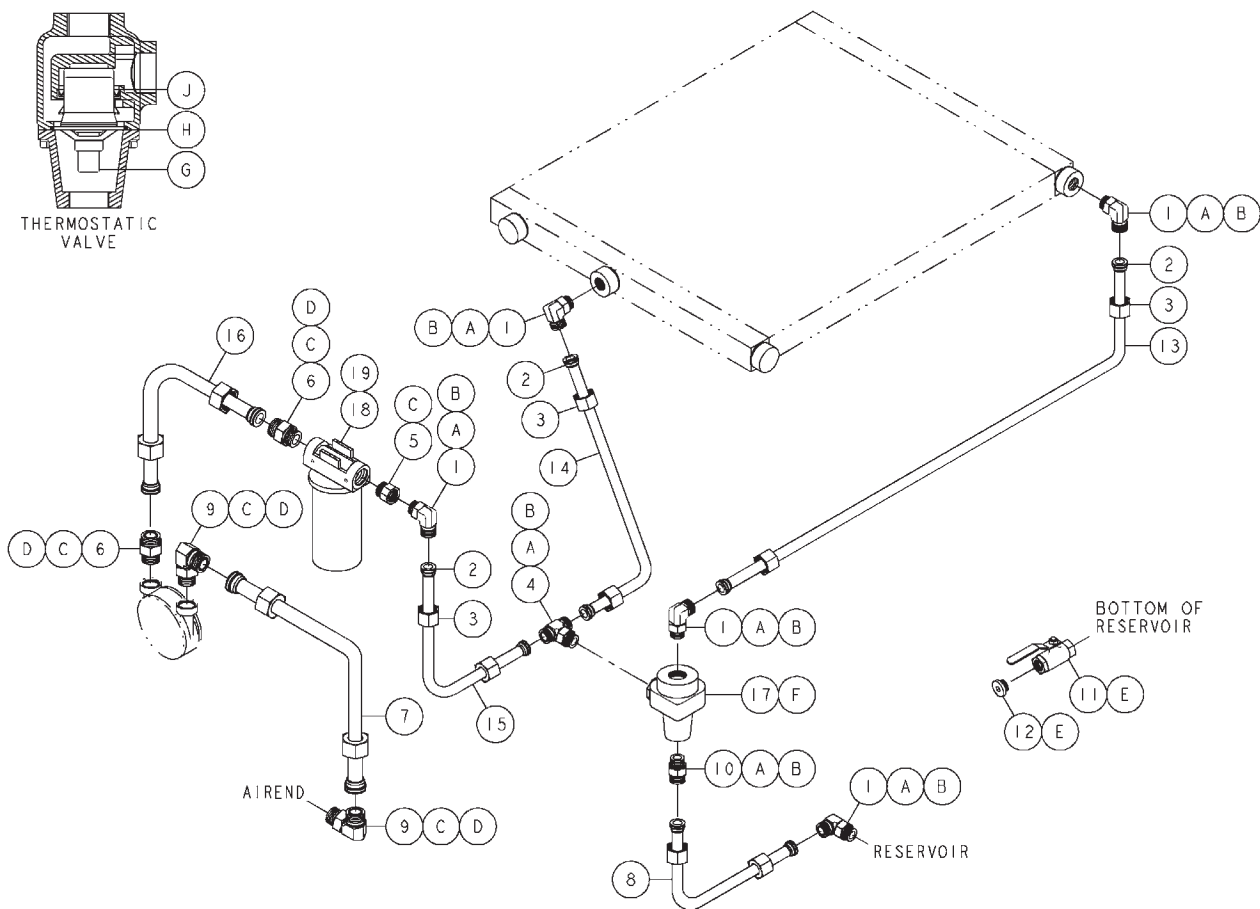
| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                          |
|----------|------|-------------|------------------------------------------------------|
| 1        | 2    | 125940-026  | PIPE NIPPLE-2.00 NPT X 4.00                          |
| 2        | 1    | 21929       | TEE-PIPE, 2.00 NPT X 0.50 NPT X 2.00 NPT             |
| 3        | 2    | 23991       | FITTING-MALE CONNECTOR, 2.00 TUBE X 2.00 NPT         |
| 4        | 1    | 120906      | TUBE-FORMED, STEEL, 2.00 O.D.                        |
| 5        | 1    | 23708       | COUPLING-PIPE, REDUCING, 2.00 NPT X 1.50 NPT         |
| 6        | 1    | 22709-15    | HEAT EXCHANGER-AFTERCOOLER                           |
| 7        | 4    | 123478-K14  | SCREW-CAP, 5/16-18 UNC X 1.25, GRADE 5 (@ 13 FT-LBS) |
| 8        | 8    | 110428W031  | WASHER-FLAT, 0.31                                    |
| 9        | 6    | 123115-05C  | LOCKWASHER, 0.31                                     |
| 10       | 6    | 124364-K02  | NUT-HEX, 5/16-18 UNC                                 |
| 11       | 1    | 125939-102  | PIPE NIPPLE-1.50 NPT X 12.50                         |
| 12       | 1    | 6064        | BUSHING-PIPE, 2.00 NPT X 1.50 NPT                    |
| 13       | 1    | 128691-004  | CHECK VALVE-MINIMUM PRESSURE                         |
| 14       | 1    | 125939-001  | PIPE NIPPLE-1.50 NPT X CLOSE                         |
| 15       | 1    | 4463        | ELBOW-PIPE, 2.00 NPT                                 |
| 16       | 1    | 125940-014  | PIPE NIPPLE-2.00 NPT X 2.50                          |
| 17       | 1    | 127289-010  | UNION-PIPE, 2.00 NPT                                 |
| 18       | 2    | 4462        | ELBOW-PIPE, 2.00 NPT                                 |
| 19       | 1    | 125940-001  | PIPE NIPPLE-2.00 NPT X CLOSE                         |
| 20       | 1    | 124827-200  | SEPARATOR-MOISTURE                                   |
| 21       | 1    | 3535        | BUSHING-PIPE, 0.38 NPT X 0.25 NPT                    |
| 22       | 1    | 2713        | DRAINCOCK-0.25 NPT                                   |
| 23       | 1    | 125940-118  | PIPE NIPPLE-2.00 NPT X 15.50                         |
| 24       | 1    | 6366        | COUPLING-PIPE, 2.00 NPT                              |
| 25       | 1    | 122761      | U-BOLT, 3/8-16 UNC, 2.44 I.D. X 4.25                 |
| 26       | 1    | 140133      | BRACKET-SUPPORT                                      |
| 27       | 2    | 110428W038  | WASHER-FLAT, 0.38                                    |
| 28       | 2    | 123115-06C  | LOCKWASHER, 0.38                                     |
| 29       | 2    | 124364-L02  | NUT-HEX, 3/8-16 UNC                                  |
| 30       | 2    | 123478-K12  | SCREW-CAP, 5/16-18 UNC X 1.00, GRADE 5 (@ 13 FT-LBS) |
| 31       | 1    | 4717        | BUSHING-PIPE, 0.75 NPT X 0.25 NPT                    |

### COMPONENT MAINTENANCE PARTS

|   |   |            |                                          |
|---|---|------------|------------------------------------------|
| A | 1 | 22708-725  | BONNET-COOLER, IN/OUT END                |
| B | 1 | 22708-727  | GASKET-COOLER, IN/OUT END                |
| C | 1 | 22708-726  | BONNET-COOLER, RETURN END                |
| D | 1 | 22708-728  | GASKET-COOLER, RETURN END                |
| E | 1 | 128691-054 | KIT-MINIMUM PRESSURE CHECK VALVE         |
| F | 1 | 124827-052 | KIT-MOISTURE SEPARATOR (INCLUDES ITEM G) |
| G | 1 | 124827-051 | GASKET-MOISTURE SEPARATOR                |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

# Fluid Piping (a/c, 100-150#) - 140701-001



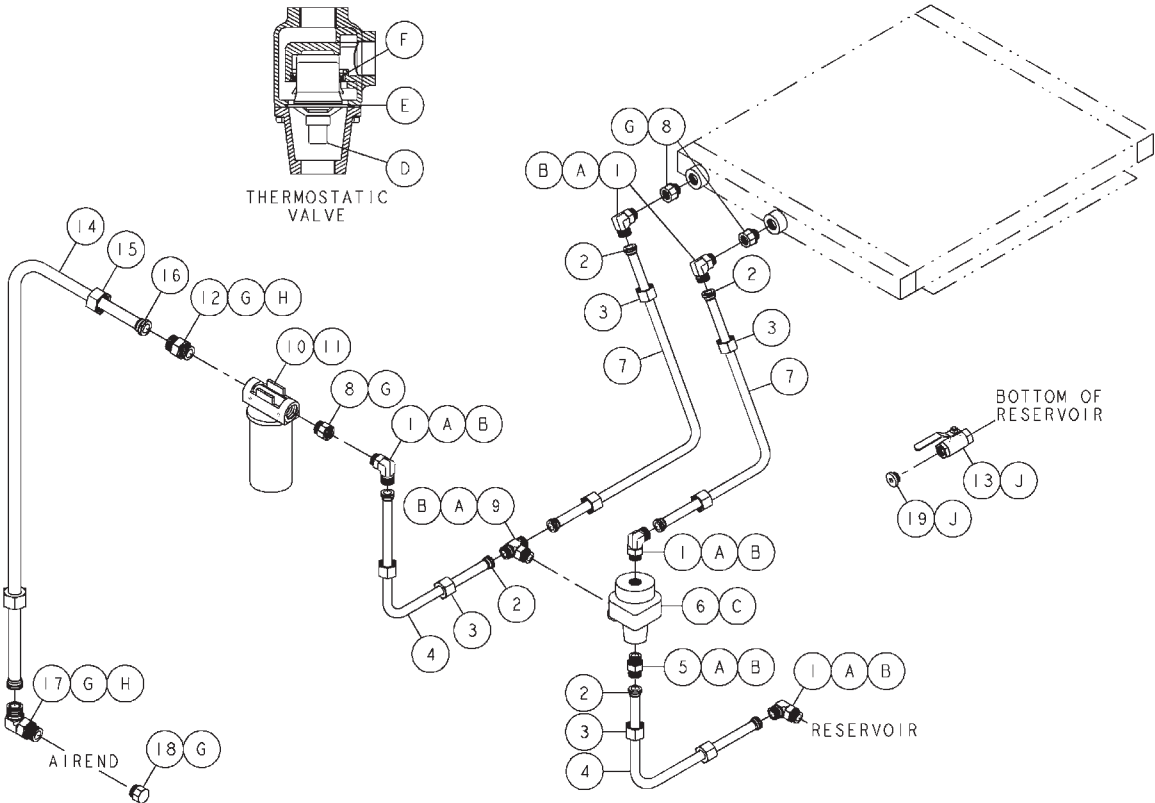
## Fluid Piping (a/c, 100-150#) - 140701-001

| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                       |
|----------|------|-------------|---------------------------------------------------|
| 1        | 5    | 140676-018  | FITTING-ELBOW, 1.00 TUBE X 1-5/16-12 (O-RING)     |
| 2        | 6    | 140680-006  | FITTING-SLEEVE, 1.00 TUBE                         |
| 3        | 6    | 140679-007  | FITTING-NUT, 1.00 O.D. TUBE                       |
| 4        | 1    | 140672-006  | FITTING-TEE, 1.00 TUBE X 1-5/16-12 (O-RING)       |
| 5        | 1    | 129208-021  | FITTING-ADAPTER, 1-5/16-12 X 1-5/8-12 (O-RING)    |
| 6        | 2    | 140682-024  | FITTING-CONNECTOR, 1.25 TUBE X 1-5/8-12 (O-RING)  |
| 7        | 1    | 140719-003  | TUBE ASSEMBLY-SEAL-LOK, 1.25 O.D.                 |
| 8        | 1    | 140719-002  | TUBE ASSEMBLY-SEAL-LOK, 1.00 O.D.                 |
| 9        | 2    | 140676-021  | FITTING-ELBOW, 1.25 TUBE X 1-5/8-12 (O-RING)      |
| 10       | 1    | 140682-020  | FITTING-CONNECTOR, 1.00 TUBE X 1-5/16-12 (O-RING) |
| 11       | 1    | 129730-050  | VALVE-QUARTER TURN (O-RING)                       |
| 12       | 1    | 128883-075  | PLUG-PIPE, 3/4-16 (O-RING)                        |
| 13       | 1    | 121918-126  | TUBE-FORMED, STEEL, 1.00 O.D.                     |
| 14       | 1    | 121918-127  | TUBE-FORMED, STEEL, 1.00 O.D.                     |
| 15       | 1    | 121918-130  | TUBE-FORMED, STEEL, 1.00 O.D.                     |
| 16       | 1    | 140719-013  | TUBE ASSEMBLY-SEAL-LOK, 1.25 O.D.                 |
| 17       | 1    | 124973-016  | VALVE-THERMOSTATIC, 190°F                         |
| 18       | 1    | 129845      | HEAD-FLUID FILTER                                 |
| 19       | 1    | 142136      | ELEMENT-FLUID FILTER                              |

### COMPONENT MAINTENANCE PARTS

|   |   |            |                                                   |
|---|---|------------|---------------------------------------------------|
| A | 7 | 140675-006 | O-RING/FACE SEAL, VITON, 0.93 I.D.                |
| B | 8 | 140406-916 | O-RING, VITON, 1.17 I.D.                          |
| C | 5 | 140406-920 | O-RING, VITON, 1.48 I.D.                          |
| D | 4 | 140675-007 | O-RING/FACE SEAL, VITON, 1.18 I.D.                |
| E | 2 | 140406-908 | O-RING, VITON, 0.64 I.D.                          |
| F | 1 | 124973-060 | KIT-THERMOSTATIC VALVE (INCLUDES ITEMS G, H, & J) |
| G | 1 | 124973-061 | ELEMENT-THERMOSTATIC VALVE                        |
| H | 1 | 124973-052 | SEAL-THERMOSTATIC VALVE                           |
| J | 1 | 124973-051 | GASKET/O-RING, THERMOSTATIC VALVE                 |

# Fluid Piping (a/c, 175-210#) - 142276-001



## Fluid Piping (a/c, 175-210#) - 142276-001

| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                                        |
|----------|------|-------------|--------------------------------------------------------------------|
| 1        | 5    | 140676-018  | FITTING-ELBOW, 1.00 TUBE X 1-5/16-12 (O-RING)                      |
| 2        | 8    | 140680-006  | FITTING-SLEEVE, 1.00 TUBE                                          |
| 3        | 8    | 140679-007  | FITTING-NUT, 1.00 O.D. TUBE                                        |
| 4        | 2    | 121918-130  | TUBE-FORMED, STEEL, 1.00 O.D.                                      |
| 5        | 1    | 140682-020  | FITTING-CONNECTOR, 1.00 TUBE X 1-5/16-12 (O-RING)                  |
| 6        | 1    | 124973-017  | VALVE-THERMOSTATIC, 210°F                                          |
| 7        | 2    | 121918-129  | TUBE-FORMED, STEEL, 1.00 O.D.                                      |
| 8        | 3    | 129208-021  | FITTING-ADAPTER, 1-5/16-12 X 1-5/8-12 (O-RING)                     |
| 9        | 1    | 140672-006  | FITTING-TEE, 1.00 TUBE X 1-5/16-12 (O-RING)                        |
| 10       | 1    | 129845      | HEAD-FLUID FILTER                                                  |
| 11       | 1    | 142136      | ELEMENT-FLUID FILTER                                               |
| 12       | 1    | 140682-024  | FITTING-CONNECTOR, 1.25 TUBE X 1-5/8-12 (O-RING)                   |
| 13       | 1    | 129730-050  | VALVE-QUARTER TURN (O-RING)                                        |
| 14       | 1    | 121918-116  | TUBE-FORMED, STEEL, 1.25 O.D.                                      |
| 15       | 2    | 140679-008  | FITTING-NUT, 1.25 O.D. TUBE                                        |
| 16       | 2    | 140680-007  | FITTING-SLEEVE, 1.25 TUBE                                          |
| 17       | 1    | 141021-009  | FITTING-ELBOW, ORIFICE, 90° MALE,<br>1.25 TUBE X 1-5/8-12 (O-RING) |
| 18       | 1    | 128883-162  | PLUG-PIPE, 1-5/8-12 (O-RING)                                       |
| 19       | 1    | 128883-075  | PLUG-PIPE, 3/4-16 (O-RING)                                         |

### COMPONENT MAINTENANCE PARTS

|   |   |            |                                                   |
|---|---|------------|---------------------------------------------------|
| A | 7 | 140675-006 | O-RING/FACE SEAL, VITON, 0.93 I.D.                |
| B | 8 | 140406-916 | O-RING, VITON, 1.17 I.D.                          |
| C | 1 | 124973-069 | KIT-THERMOSTATIC VALVE (INCLUDES ITEMS D, E, & F) |
| D | 1 | 124973-070 | ELEMENT-THERMOSTATIC VALVE                        |
| E | 1 | 124973-052 | SEAL-THERMOSTATIC VALVE                           |
| F | 1 | 124973-051 | GASKET/O-RING, THERMOSTATIC VALVE                 |
| G | 6 | 140406-920 | O-RING, VITON, 1.48 I.D.                          |
| H | 2 | 140675-007 | O-RING/FACE SEAL, VITON, 1.18 I.D.                |
| J | 2 | 140406-908 | O-RING, VITON, 0.64 I.D.                          |



## Fluid Piping (w/c) - 140659-006/-007/-008

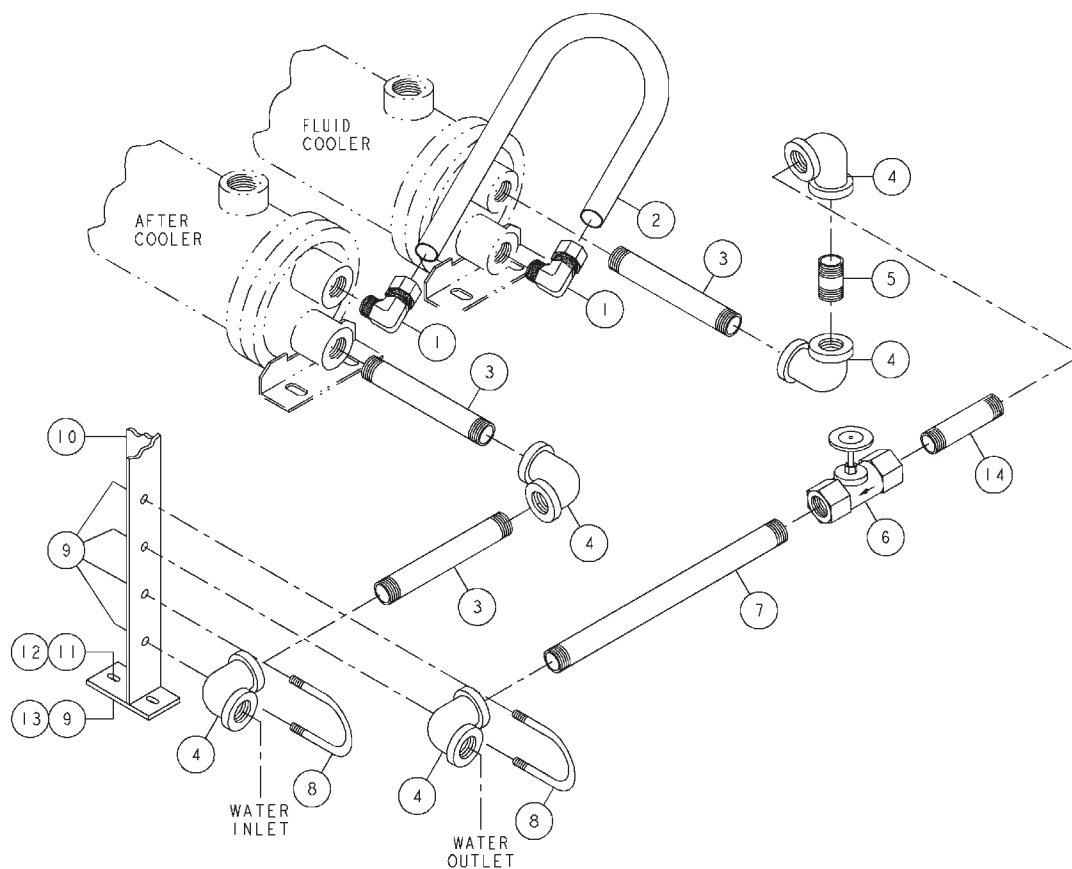
| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                              |
|----------|------|-------------|----------------------------------------------------------|
| 1        | 3    | 140676-018  | FITTING-ELBOW, 1.00 TUBE X 1-5/16-12 (O-RING)            |
| 2*       | 8    | 140680-006  | FITTING-SLEEVE, 1.00 TUBE                                |
| 3*       | 8    | 140679-007  | FITTING-NUT, 1.00 O.D. TUBE                              |
| 4        | 1    | 140672-006  | FITTING-TEE, 1.00 TUBE X 1-5/16-12 (O-RING)              |
| 5        | 1    | 129208-021  | FITTING-ADAPTER, 1-5/16-12 X 1-5/8-12 (O-RING)           |
| 6*       | 2    | 140682-024  | FITTING-CONNECTOR, 1.25 TUBE X 1-5/8-12 (O-RING)         |
| 7        | 1    | 128883-075  | PLUG-PIPE, 3/4-16 (O-RING)                               |
| 8        | 1    | 121918-127  | TUBE-FORMED, STEEL, 1.00 O.D.                            |
| 9*       | 2    | 140676-021  | FITTING-ELBOW, 1.25 TUBE X 1-5/8-12 (O-RING)             |
| 10       | 2    | 140677-014  | FITTING-ELBOW, 1.00 TUBE X 1.00-11.5 NPTF (O-RING)       |
| 11       | 1    | 129845      | HEAD-FLUID FILTER                                        |
| 12       | 1    | 142136      | ELEMENT-FLUID FILTER                                     |
| 13       | 1    | 121918-138  | TUBE-FORMED, STEEL, 1.00 O.D.                            |
| 14       | 1    | 121918-063  | TUBE-FORMED, STEEL, 1.00 O.D.                            |
| 15       | 1    | 121918-130  | TUBE-FORMED, STEEL, 1.00 O.D.                            |
| 16       | 1    | 140719-013  | TUBE ASSEMBLY-SEAL-LOK, 1.25 O.D. <b>(100-150#)</b>      |
|          | 1    | 121918-116  | TUBE-FORMED, STEEL, 1.25 O.D. <b>(175 &amp; 210#)</b>    |
| 17       | 1    | 124973-016  | VALVE-THERMOSTATIC, 190°F <b>(100-125#)</b>              |
|          | 1    | 124973-018  | VALVE-THERMOSTATIC, 190°F <b>(150#)</b>                  |
|          | 1    | 124973-017  | VALVE-THERMOSTATIC, 210°F <b>(175 &amp; 210#)</b>        |
| 18       | 1    | 129710-1    | BRACKET-COOLER                                           |
| 19       | 8    | 110428W038  | WASHER-FLAT, 0.38                                        |
| 20       | 8    | 123478-L14  | SCREW-CAP, 3/8-16 UNC X 1.25, GRADE 5 (@ 23 FT-LBS)      |
| 21       | 8    | 123115-06C  | LOCKWASHER, 0.38                                         |
| 22       | 8    | 124364-L02  | NUT-HEX, 3/8-16 UNC                                      |
| 23       | 1    | 6182        | FITTING-ELBOW, 1.25 NPT X 1.00 NPT                       |
| 24       | 1    | 125938-001  | PIPE NIPPLE-1.25 NPT X CLOSE                             |
| 25       | 1    | 22708-15    | HEAT EXCHANGER-FLUID COOLER <b>(100-125#)</b>            |
|          | 1    | 22708-23    | HEAT EXCHANGER-FLUID COOLER <b>(150-210#)</b>            |
| 26       | 1    | 129730-050  | VALVE-QUARTER TURN (O-RING)                              |
| 27       | 1    | 140904      | BRACKET-ENCLOSURE                                        |
| 28       | 3    | 123478-K12  | SCREW-CAP, 5/16-18 UNC X 1.00, GRADE 5 (@ 13 FT-LBS)     |
| 29       | 3    | 110428W031  | WASHER-FLAT, 0.31                                        |
| 30       | 3    | 124370-K02  | LOCKNUT, 5/16-18 UNC                                     |
| 31       | 1    | 141715      | BRACKET-ENCLOSURE                                        |
| 32       | 1    | 140682-020  | FITTING-CONNECTOR, 1.00 TUBE X 1-5/16-12 (O-RING)        |
| 33       | 1    | 140719-003  | TUBE ASSEMBLY-SEAL-LOK, 1.25 O.D. <b>(100-150# ONLY)</b> |

### COMPONENT MAINTENANCE PARTS

|   |   |            |                                                                     |
|---|---|------------|---------------------------------------------------------------------|
| A | 7 | 140675-006 | O-RING/FACE SEAL, VITON, 0.93 I.D.                                  |
| B | 6 | 140406-916 | O-RING, VITON, 1.17 I.D.                                            |
| C | 5 | 140406-920 | O-RING, VITON, 1.48 I.D.                                            |
| D | 4 | 140675-007 | O-RING/FACE SEAL, VITON, 1.18 I.D.                                  |
| E | 2 | 140406-908 | O-RING, VITON, 0.64 I.D.                                            |
| F | 1 | 124973-060 | KIT-THERMOSTATIC VALVE (INCLUDES ITEMS G, H, & J) <b>(100-150#)</b> |
|   | 1 | 124973-069 | KIT-THERMOSTATIC VALVE (INCLUDES ITEMS G, H, & J) <b>(175-210#)</b> |
| G | 1 | 124973-061 | ELEMENT-THERMOSTATIC VALVE <b>(100-150#)</b>                        |
|   | 1 | 124973-070 | ELEMENT-THERMOSTATIC VALVE <b>(175-210#)</b>                        |
| H | 1 | 124973-052 | SEAL-THERMOSTATIC VALVE                                             |
| J | 1 | 124973-051 | GASKET/O-RING, THERMOSTATIC VALVE                                   |
| K | 1 | 22708-725  | BONNET-COOLER, IN/OUT END                                           |
| L | 1 | 22708-727  | GASKET-COOLER, IN/OUT END                                           |
| M | 1 | 22708-726  | BONNET-COOLER, RETURN END                                           |
| N | 1 | 22708-728  | GASKET-COOLER, RETURN END                                           |

\* QUANTITY VARIES ON 175 & 210# UNITS (REFERENCE DRAWING).

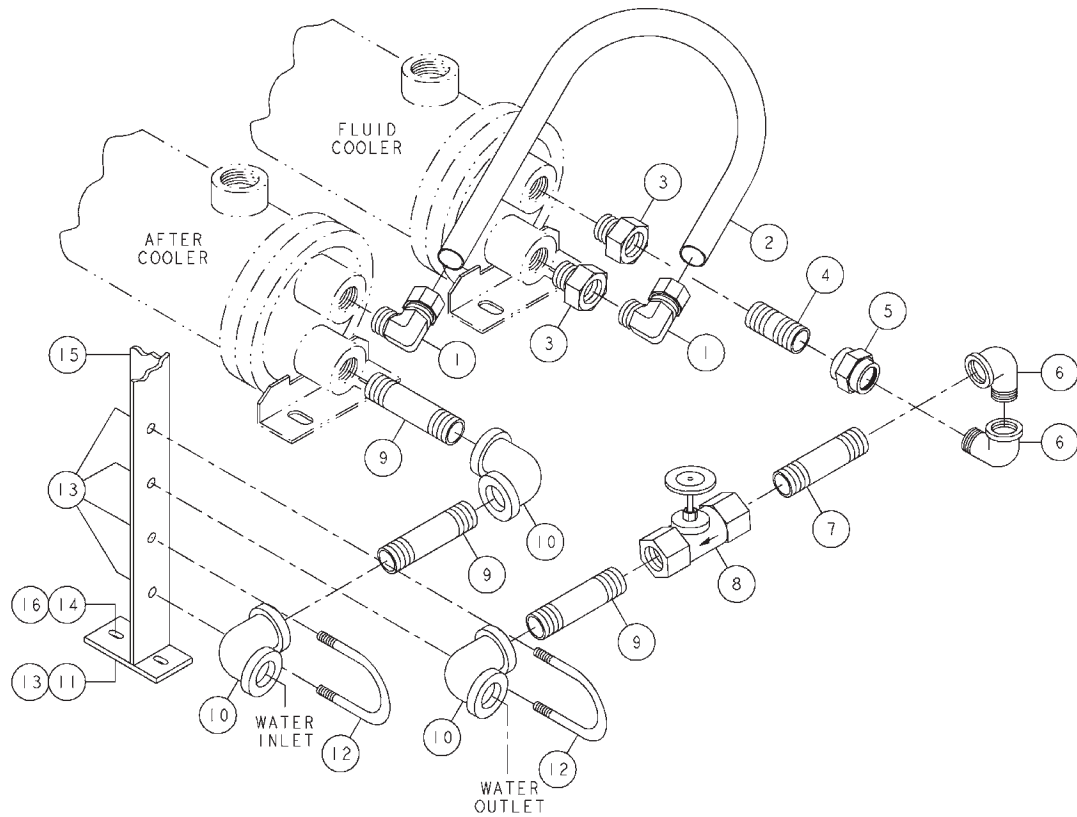
## Water Piping (100-125#) - 129708-002



| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                          |
|----------|------|-------------|------------------------------------------------------|
| 1        | 2    | 110419-020  | FITTING-ELBOW, 90° MALE, 1.00 TUBE X 1.00 NPT        |
| 2        | 1    | 125654-001  | TUBE-FORMED, COPPER, 1.00 O.D.                       |
| 3        | 3    | 126020-030  | PIPE NIPPLE-GALVANIZED, 1.00 NPT X 4.50              |
| 4        | 5    | 21731       | ELBOW-PIPE, GALVANIZED, 1.00 NPT                     |
| 5        | 1    | 126020-001  | PIPE NIPPLE-GALVANIZED, 1.00 NPT X CLOSE             |
| 6        | 1    | 5051        | VALVE-GLOBE                                          |
| 7        | 1    | 126020-054  | PIPE NIPPLE-GALVANIZED, 1.00 NPT X 7.50              |
| 8        | 2    | 120317      | U-BOLT, 5/16-18 UNC                                  |
| 9        | 6    | 123115-05C  | LOCKWASHER, 0.31                                     |
| 10       | 1    | 140012-1    | BRACKET-SUPPORT                                      |
| 11       | 2    | 123478-K14  | SCREW-CAP, 5/16-18 UNC X 1.25, GRADE 5 (@ 13 FT-LBS) |
| 12       | 2    | 110428W031  | WASHER-FLAT, 0.31                                    |
| 13       | 2    | 124364-K02  | NUT-HEX, 5/16-18 UNC                                 |
| 14       | 1    | 126020-015  | PIPE NIPPLE-GALVANIZED, 1.00 NPT X 2.62              |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

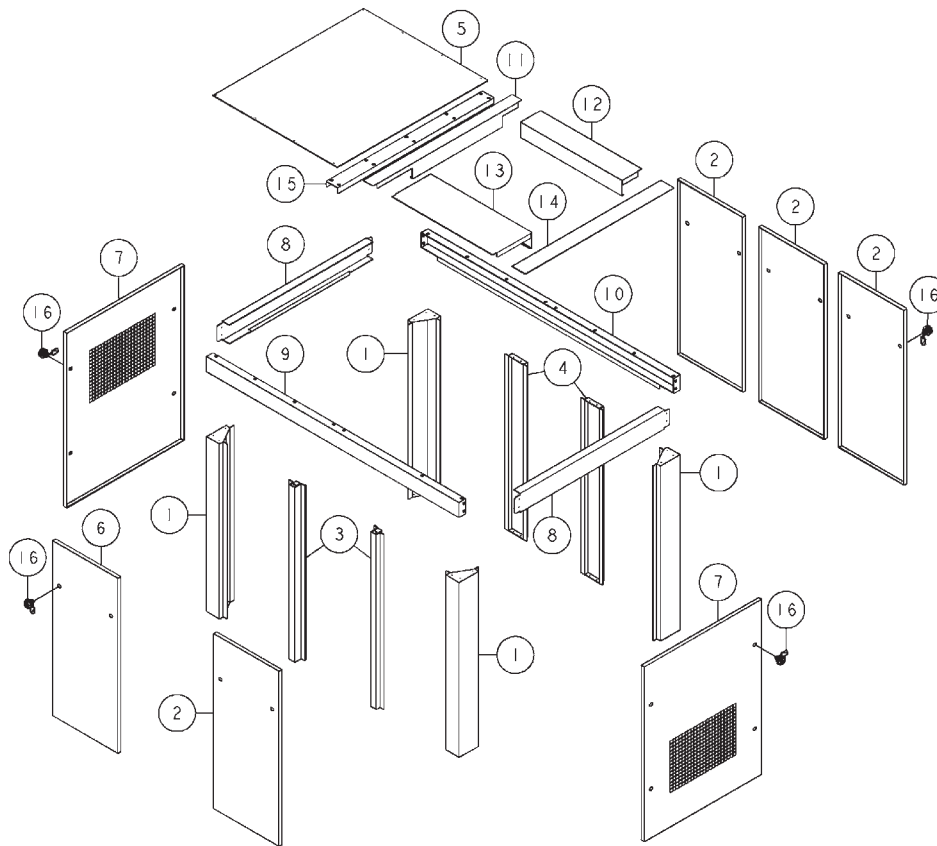
## Water Piping (150-210#) - 129839-002



| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                          |
|----------|------|-------------|------------------------------------------------------|
| 1        | 2    | 110419-020  | FITTING-ELBOW, 90° MALE, 1.00 TUBE X 1.00 NPT        |
| 2        | 1    | 125654-001  | TUBE-FORMED, COPPER, 1.00 O.D.                       |
| 3        | 2    | 125868-022  | BUSHING-PIPE, 1.50 NPT X 1.00 NPT                    |
| 4        | 1    | 126020-001  | PIPE NIPPLE-GALVANIZED, 1.00 NPT X CLOSE             |
| 5        | 1    | 127289-019  | UNION-PIPE, 1.00 NPT                                 |
| 6        | 2    | 21730       | ELBOW-PIPE, GALVANIZED, 1.00 NPT                     |
| 7        | 1    | 126020-028  | PIPE NIPPLE-GALVANIZED, 1.00 NPT X 4.25              |
| 8        | 1    | 5051        | VALVE-GLOBE                                          |
| 9        | 3    | 126020-030  | PIPE NIPPLE-GALVANIZED, 1.00 NPT X 4.50              |
| 10       | 3    | 21731       | ELBOW-PIPE, GALVANIZED, 1.00 NPT                     |
| 11       | 2    | 124364-K02  | NUT-HEX, 5/16-18 UNC                                 |
| 12       | 2    | 120317      | U-BOLT, 5/16-18 UNC                                  |
| 13       | 6    | 123115-05C  | LOCKWASHER, 0.31                                     |
| 14       | 2    | 110428W031  | WASHER-FLAT, 0.31                                    |
| 15       | 1    | 140012-2    | BRACKET-SUPPORT                                      |
| 16       | 2    | 123478-K14  | SCREW-CAP, 5/16-18 UNC X 1.25, GRADE 5 (@ 13 FT-LBS) |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

## Cabinet (a/c, 110-150#) - 129683-001

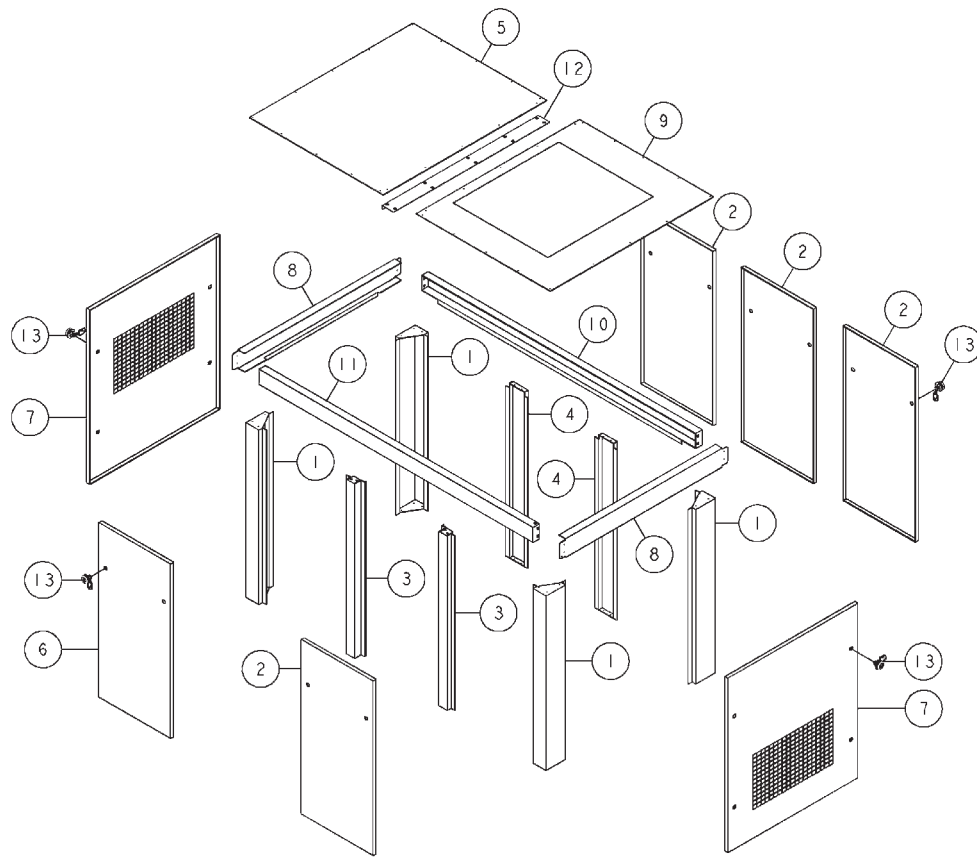


NOTES-UNLESS OTHERWISE SPECIFIED:  
1) ITEMS 17 THRU 23 (HARDWARE ITEMS) ARE NOT SHOWN.

| ITEM NO. | QTY. | PART NUMBER | DESCRIPTION                                                |
|----------|------|-------------|------------------------------------------------------------|
| 1        | 4    | 129557-10   | PANEL-CORNER POST                                          |
| 2        | 4    | 129557-12   | PANEL-DOOR                                                 |
| 3        | 2    | 129557-13   | PANEL-DOOR POST, FRONT                                     |
| 4        | 2    | 129557-14   | PANEL-DOOR POST, REAR                                      |
| 5        | 1    | 129557-15   | PANEL-ROOF                                                 |
| 6        | 1    | 129557-20   | PANEL-DOOR, AIR RECEIVER                                   |
| 7        | 2    | 142743-11   | PANEL-AIR INTAKE                                           |
| 8        | 2    | 129557-16   | PANEL-ROOF SUPPORT                                         |
| 9        | 1    | 129557-17   | PANEL-ROOF SUPPORT, UPPER FRONT                            |
| 10       | 1    | 129557-18   | PANEL-ROOF SUPPORT, UPPER REAR                             |
| 11       | 1    | 129557-19   | PANEL-ROOF                                                 |
| 12       | 1    | 129557-23   | PANEL-ROOF                                                 |
| 13       | 1    | 129557-21   | PANEL-ROOF                                                 |
| 14       | 1    | 129557-22   | PANEL-ROOF                                                 |
| 15       | 1    | 129557-25   | PANEL-SUPPORT                                              |
| 16       | 18   | 127623      | LATCH-DOOR, QUARTER TURN                                   |
| 17       | 40   | 140061      | SCREW-HEX HEAD, 5/16-18 UNC X 0.75, GRADE 5 (@ 13 FT-LBS)  |
| 18       | 32   | 8452Z       | NUT-SPEED, ZINC, 5/16-18 UNC                               |
| 19       | 10   | 142650-K12  | SCREW-CAP, ZINC, 5/16-18 UNC X 1.00, GRADE 5 (@13 FT-LBS)  |
| 20       | 62   | 7612        | NUT-HEX, ZINC, 5/16-18 UNC                                 |
| 21       | 94   | 110428W025  | WASHER-FLAT, 0.25                                          |
| 22       | 62   | 123115-05Z  | LOCKWASHER-ZINC, 0.31                                      |
| 23       | 40   | 142578-K12  | SCREW-CAP, ZINC, 5/16-18 UNC X 1.00, GRADE 5 (@ 13 FT-LBS) |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

# Cabinet (a/c, 175-210#) - 129684-001

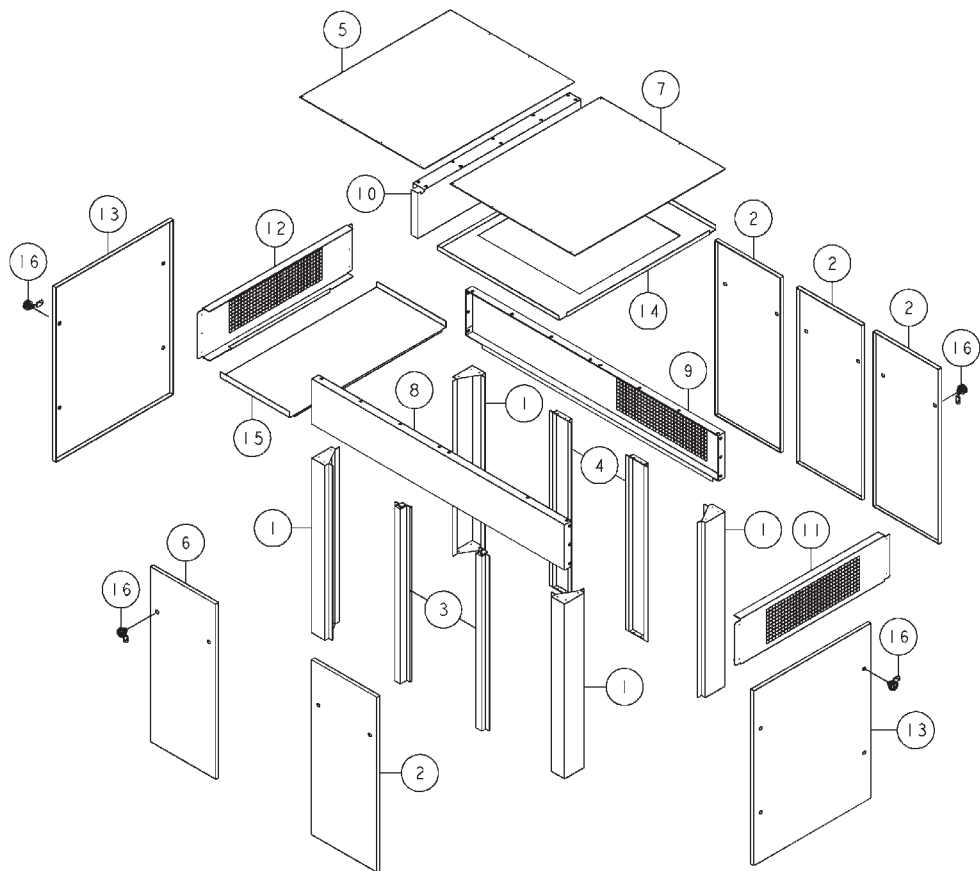


NOTES-UNLESS OTHERWISE SPECIFIED:  
1) ITEMS 14 THRU 19 (HARDWARE ITEMS) ARE NOT SHOWN.

| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                                |
|----------|------|-------------|------------------------------------------------------------|
| 1        | 4    | 129557-10   | PANEL-CORNER POST                                          |
| 2        | 4    | 129371-13   | DOOR-CABINET                                               |
| 3        | 2    | 129371-18   | PANEL-DOOR POST, FRONT                                     |
| 4        | 2    | 129557-14   | PANEL-DOOR POST, REAR                                      |
| 5        | 1    | 129371-15   | PANEL-ROOF                                                 |
| 6        | 1    | 129371-11   | DOOR-CABINET, AIR RECEIVER                                 |
| 7        | 2    | 142543-10   | PANEL-END, WITH VENT, POWDERCOAT                           |
| 8        | 2    | 129371-12   | PANEL-ROOF SUPPORT                                         |
| 9        | 1    | 129371-14   | PANEL-ROOF                                                 |
| 10       | 1    | 129371-16   | PANEL-ROOF SUPPORT, REAR                                   |
| 11       | 1    | 129371-17   | PANEL-ROOF SUPPORT, FRONT                                  |
| 12       | 1    | 129371-19   | SUPPORT-ROOF                                               |
| 13       | 18   | 127623      | LATCH-DOOR, QUARTER TURN                                   |
| 14       | 32   | 8452Z       | NUT-SPEED, ZINC, 5/16-18 UNC                               |
| 15       | 10   | 142650-K12  | SCREW-CAP, ZINC, 5/16-18 UNC X 1.00, GRADE 5 (@13 FT-LBS)  |
| 16       | 62   | 7612        | NUT-HEX, ZINC, 5/16-18 UNC                                 |
| 17       | 90   | 110428W025  | WASHER-FLAT, 0.25                                          |
| 18       | 62   | 123115-05Z  | LOCKWASHER-ZINC, 0.31                                      |
| 19       | 40   | 142578-K12  | SCREW-CAP, ZINC, 5/16-18 UNC X 1.00, GRADE 5 (@ 13 FT-LBS) |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

Cabinet (a/c, low sound, 110-150#) - 129685-001

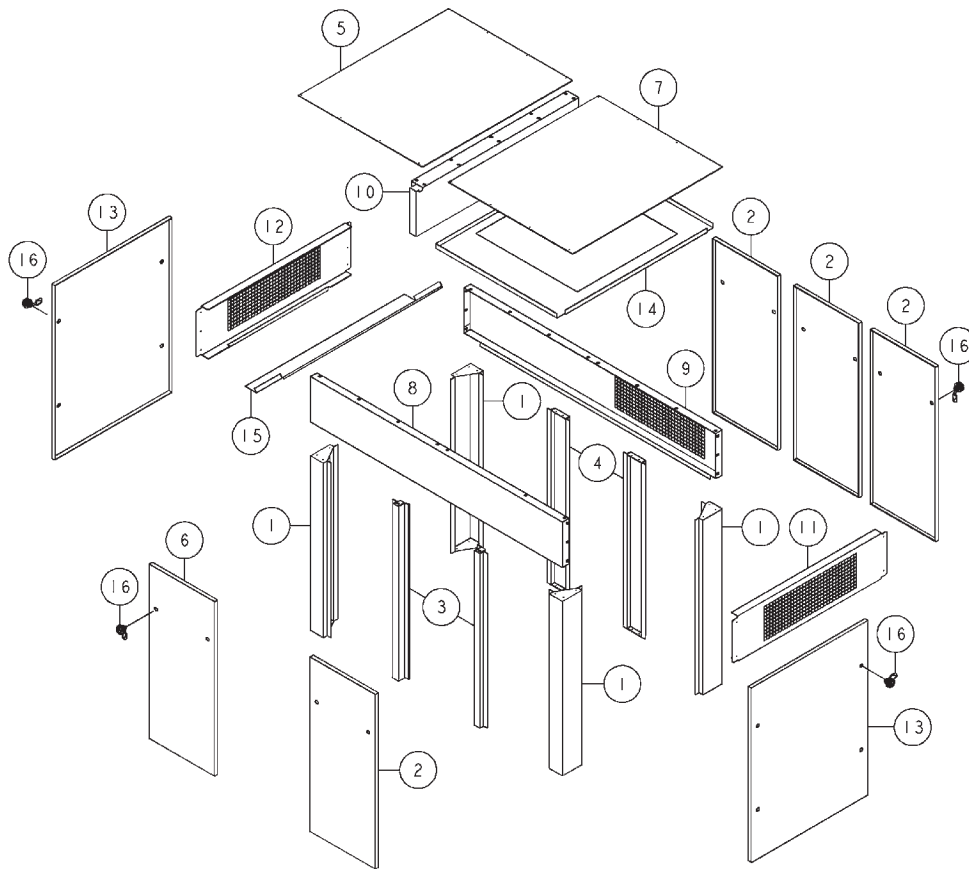


NOTES-UNLESS OTHERWISE SPECIFIED:  
1) ITEMS 17 THRU 23 (HARDWARE ITEMS) ARE NOT SHOWN.

| ITEM NO. | QTY. | PART NUMBER | DESCRIPTION                                                |
|----------|------|-------------|------------------------------------------------------------|
| 1        | 4    | 129557-10   | PANEL-CORNER POST                                          |
| 2        | 4    | 129557-12   | PANEL-DOOR                                                 |
| 3        | 2    | 129557-13   | PANEL-DOOR POST, FRONT                                     |
| 4        | 2    | 129557-14   | PANEL-DOOR POST, REAR                                      |
| 5        | 1    | 129557-15   | PANEL-ROOF                                                 |
| 6        | 1    | 129557-20   | PANEL-DOOR, AIR RECEIVER                                   |
| 7        | 1    | 129557-15   | PANEL-ROOF                                                 |
| 8        | 1    | 129557-26   | PANEL-SIDE, UPPER FRONT                                    |
| 9        | 1    | 142743-27   | PANEL-SIDE, UPPER REAR                                     |
| 10       | 1    | 129557-28   | PANEL-BAFFLE                                               |
| 11       | 1    | 142743-29   | PANEL-END                                                  |
| 12       | 1    | 142743-30   | PANEL-END                                                  |
| 13       | 2    | 129557-31   | PANEL-DOOR                                                 |
| 14       | 1    | 129557-32   | PANEL-COOLER                                               |
| 15       | 1    | 129557-33   | PANEL-BAFFLE                                               |
| 16       | 18   | 127623      | LATCH-DOOR, QUARTER TURN                                   |
| 17       | 49   | 140061      | SCREW-HEX HEAD, 5/16-18 UNC X 0.75, GRADE 5 (@ 13 FT-LBS)  |
| 18       | 32   | 8452Z       | NUT-SPEED, ZINC, 5/16-18 UNC                               |
| 19       | 10   | 142650-K12  | SCREW-CAP, ZINC, 5/16-18 UNC X 1.00, GRADE 5 (@13 FT-LBS)  |
| 20       | 62   | 7612        | NUT-HEX, ZINC, 5/16-18 UNC                                 |
| 21       | 94   | 110428W025  | WASHER-FLAT, 0.25                                          |
| 22       | 62   | 123115-05Z  | LOCKWASHER-ZINC, 0.31                                      |
| 23       | 31   | 142578-K12  | SCREW-CAP, ZINC, 5/16-18 UNC X 1.00, GRADE 5 (@ 13 FT-LBS) |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

# Cabinet (a/c, low sound, 175-210#) - 129686-001



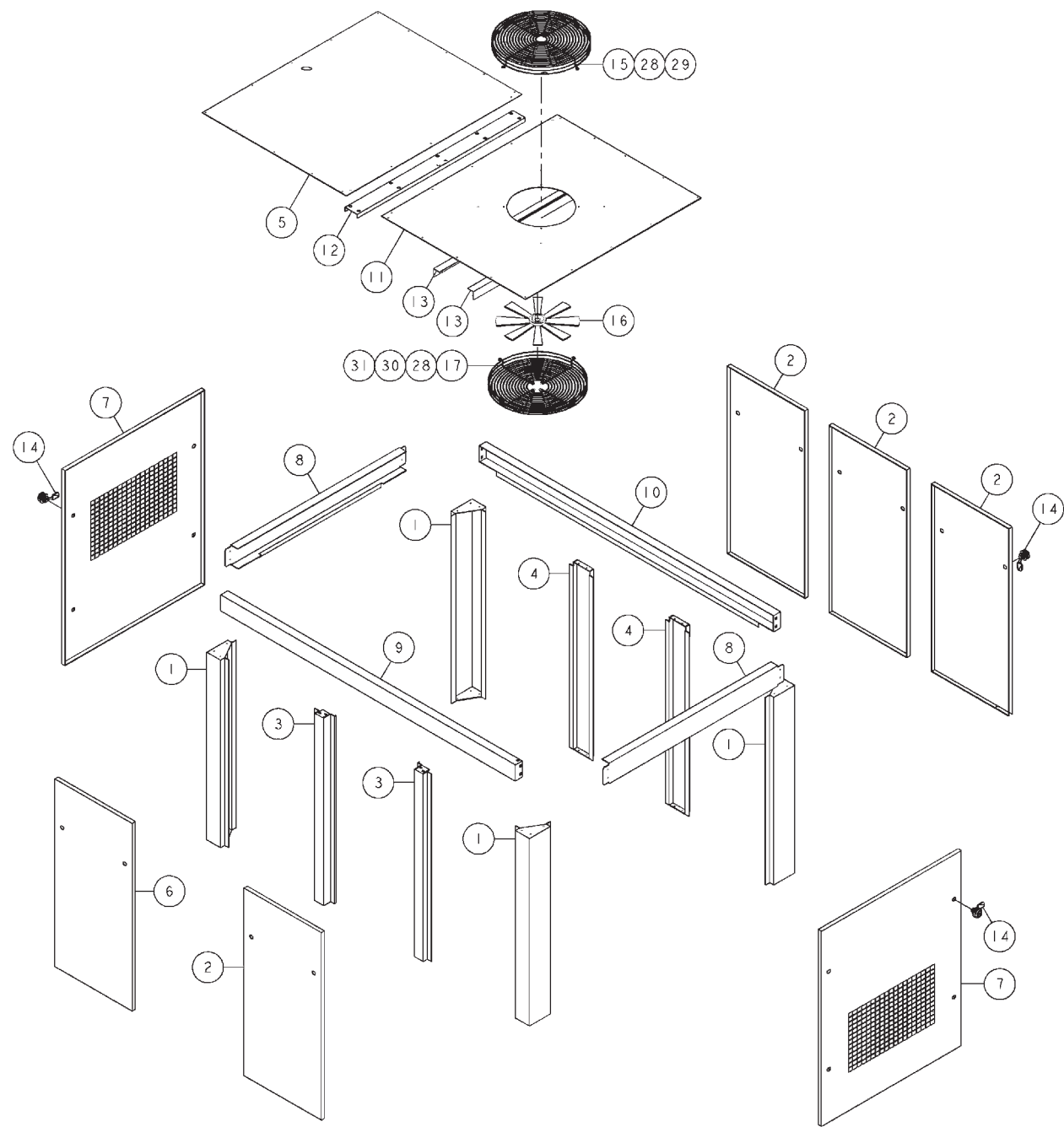
NOTES-UNLESS OTHERWISE SPECIFIED:  
1) ITEMS 17 THRU 23 (HARDWARE ITEMS) ARE NOT SHOWN.

| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                                |
|----------|------|-------------|------------------------------------------------------------|
| 1        | 4    | 129557-10   | PANEL-CORNER POST                                          |
| 2        | 4    | 129371-13   | DOOR-CABINET                                               |
| 3        | 2    | 129371-18   | PANEL-DOOR POST, FRONT                                     |
| 4        | 2    | 129557-14   | PANEL-DOOR POST, REAR                                      |
| 5        | 1    | 129371-15   | PANEL-ROOF                                                 |
| 6        | 1    | 129371-11   | DOOR-CABINET, AIR RECEIVER                                 |
| 7        | 1    | 129371-15   | PANEL-ROOF                                                 |
| 8        | 1    | 129371-27   | PANEL-ROOF SUPPORT, FRONT                                  |
| 9        | 1    | 142543-26   | PANEL-ROOF SUPPORT, POWDERCOAT                             |
| 10       | 1    | 129371-21   | PANEL-SUPPORT                                              |
| 11       | 1    | 142543-24   | PANEL-ROOF SUPPORT, POWDERCOAT                             |
| 12       | 1    | 142543-23   | PANEL-ROOF SUPPORT, POWDERCOAT                             |
| 13       | 2    | 129371-28   | PANEL-END                                                  |
| 14       | 1    | 129371-25   | BAFFLE-COOLER                                              |
| 15       | 1    | 129371-22   | BAFFLE-LOW SOUND                                           |
| 16       | 18   | 127623      | LATCH-DOOR, QUARTER TURN                                   |
| 17       | 40   | 140061      | SCREW-HEX HEAD, 5/16-18 UNC X 0.75, GRADE 5 (@ 13 FT-LBS)  |
| 18       | 45   | 8452Z       | NUT-SPEED, ZINC, 5/16-18 UNC                               |
| 19       | 10   | 142650-K12  | SCREW-CAP, ZINC, 5/16-18 UNC X 1.00, GRADE 5 (@13 FT-LBS)  |
| 20       | 52   | 7612        | NUT-HEX, ZINC, 5/16-18 UNC                                 |
| 21       | 17   | 110428W025  | WASHER-FLAT, 0.25                                          |
| 22       | 52   | 123115-05Z  | LOCKWASHER-ZINC, 0.31                                      |
| 23       | 40   | 142578-K12  | SCREW-CAP, ZINC, 5/16-18 UNC X 1.00, GRADE 5 (@ 13 FT-LBS) |

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

Cabinet (w/c, 100-150#) - 144690-099

144500



NOTES-UNLESS OTHERWISE SPECIFIED:  
1) ITEMS 18 THRU 32 (HARDWARE ITEMS) ARE NOT SHOWN.

## Cabinet (w/c, 100-150#) - 144690-099

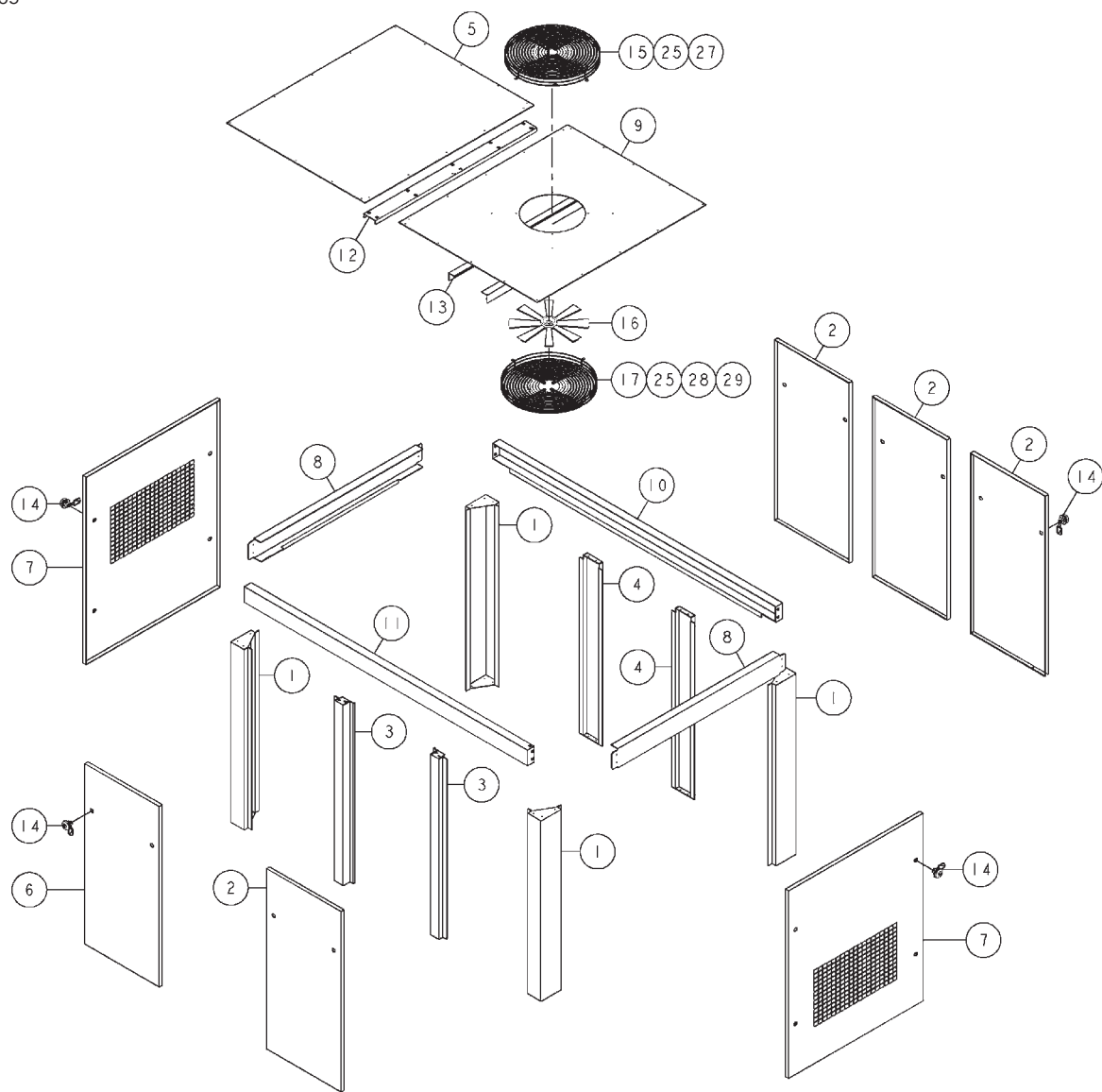
| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                                |
|----------|------|-------------|------------------------------------------------------------|
| 1        | 4    | 129557-10   | PANEL-CORNER POST                                          |
| 2        | 4    | 129557-12   | PANEL-DOOR                                                 |
| 3        | 2    | 129557-13   | PANEL-DOOR POST, FRONT                                     |
| 4        | 2    | 129557-14   | PANEL-DOOR POST, REAR                                      |
| 5        | 1    | 129557-15   | PANEL-ROOF                                                 |
| 6        | 1    | 129557-20   | PANEL-DOOR, AIR RECEIVER                                   |
| 7        | 2    | 142743-11   | PANEL-AIR INTAKE                                           |
| 8        | 2    | 129557-16   | PANEL-ROOF SUPPORT                                         |
| 9        | 1    | 129557-17   | PANEL-ROOF SUPPORT, UPPER FRONT                            |
| 10       | 1    | 129557-18   | PANEL-ROOF SUPPORT, UPPER REAR                             |
| 11       | 1    | 129557-37   | PANEL-ROOF                                                 |
| 12       | 1    | 129557-25   | PANEL-SUPPORT                                              |
| 13       | 2    | 129557-34   | PANEL-SUPPORT                                              |
| 14       | 18   | 127623      | LATCH-DOOR, QUARTER TURN                                   |
| 15       | 1    | 143061      | GUARD-FAN                                                  |
| 16       | 1    | 126511-034  | FAN-8 BLADE, 16.0 O.D.                                     |
| 17       | 1    | 141223      | GUARD-FAN                                                  |
| 18       | 40   | 140061      | SCREW-HEX HEAD, 5/16-18 UNC X 0.75, GRADE 5 (@ 13 FT-LBS)  |
| 19       | 4    | 142578-K21  | SCREW-CAP, ZINC, 5/16-18 UNC X 3.00, GRADE 5 (@ 13 FT-LBS) |
| 20       | 32   | 8452Z       | NUT-SPEED, ZINC, 5/16-18 UNC                               |
| 21       | 10   | 142650-K12  | SCREW-CAP, ZINC, 5/16-18 UNC X 1.00, GRADE 5 (@ 13 FT-LBS) |
| 22       | 62   | 7612        | NUT-HEX, ZINC, 5/16-18 UNC                                 |
| 23       | 94   | 110428W025  | WASHER-FLAT, 0.25                                          |
| 24       | 62   | 123115-05Z  | LOCKWASHER-ZINC, 0.31                                      |
| 25       | 40   | 142578-K12  | SCREW-CAP, ZINC, 5/16-18 UNC X 1.00, GRADE 5 (@ 13 FT-LBS) |
| 26       | 4    | 123777-J10  | SCREW-HEX HEAD, 1/4-20 UNC X 0.75, GRADE 5 (@ 6 FT-LBS)    |
| 27       | 40   | 22456Z      | NUT-SPEED, GRIP, ZINC, 1/4-20 UNC                          |
| 28       | 8    | 110428W031  | WASHER-FLAT, 0.31                                          |
| 29       | 4    | 110511-K14  | SCREW-HEX HEAD, ZINC, 5/16-18 UNC X 1.25                   |
| 30       | 4    | 112272-K02  | NUT-HEX, SELF-LOCKING, ZINC, 5/16-18 UNC                   |
| 31       | 4    | 123115-05C  | LOCKWASHER, 0.31                                           |
| 32       | 4    | 141631-L10  | SCREW-CAP, 3/8-16 UNC X 0.75, GRADE 5 (@ 23 FT-LBS)        |

\*\* SEE ELECTRICAL CONTROL & STARTING FOR FAN MOTOR STARTER PARTS  
(I.E. CONTACTOR, OVERLOAD RELAY, FUSEBLOCK & FUSES).

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

# Cabinet (w/c, 175-210#) - 144691-099

144505



NOTES-UNLESS OTHERWISE SPECIFIED:  
1) ITEMS 18 THRU 30 (HARDWARE ITEMS) ARE NOT SHOWN.

## Cabinet (w/c, 175-210#) - 144691-099

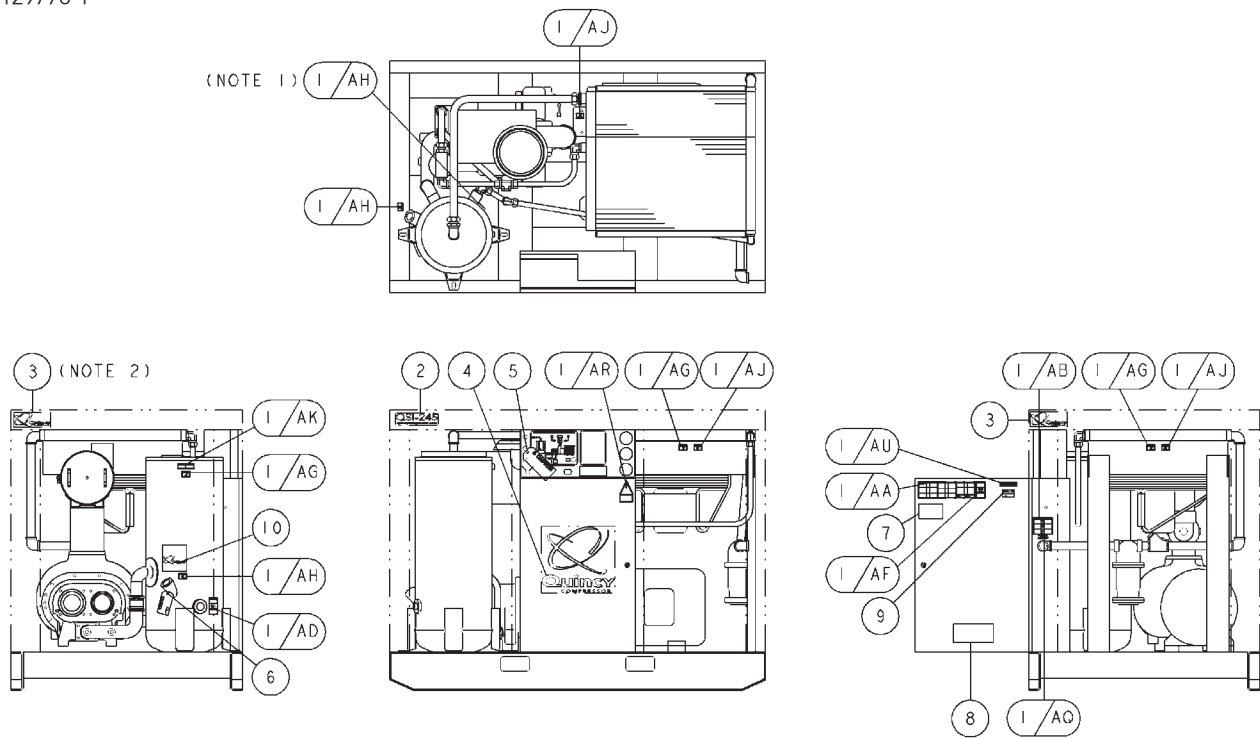
| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                                |
|----------|------|-------------|------------------------------------------------------------|
| 1        | 4    | 129557-10   | PANEL-CORNER POST                                          |
| 2        | 4    | 129371-13   | DOOR-CABINET                                               |
| 3        | 2    | 129371-18   | PANEL-DOOR POST, FRONT                                     |
| 4        | 2    | 129557-14   | PANEL-DOOR POST, REAR                                      |
| 5        | 1    | 129371-15   | PANEL-ROOF                                                 |
| 6        | 1    | 129371-11   | DOOR-CABINET, AIR RECEIVER                                 |
| 7        | 2    | 142543-10   | PANEL-END, WITH VENT, POWDERCOAT                           |
| 8        | 2    | 129371-12   | PANEL-ROOF SUPPORT                                         |
| 9        | 1    | 129371-32   | PANEL-ROOF                                                 |
| 10       | 1    | 129371-16   | PANEL-ROOF SUPPORT, REAR                                   |
| 11       | 1    | 129371-17   | PANEL-ROOF SUPPORT, FRONT                                  |
| 12       | 1    | 129371-29   | PANEL-SUPPORT                                              |
| 13       | 2    | 129371-30   | PANEL-SUPPORT                                              |
| 14       | 18   | 127623      | LATCH-DOOR, QUARTER TURN                                   |
| 15       | 1    | 143061      | GUARD-FAN                                                  |
| 16       | 1    | 126511-034  | FAN-8 BLADE, 16.0 O.D.                                     |
| 17       | 1    | 141223      | GUARD-FAN                                                  |
| 18       | 32   | 8452Z       | NUT-SPEED, ZINC, 5/16-18 UNC                               |
| 19       | 10   | 142650-K12  | SCREW-CAP, ZINC, 5/16-18 UNC X 1.00, GRADE 5 (@13 FT-LBS)  |
| 20       | 62   | 7612        | NUT-HEX, ZINC, 5/16-18 UNC                                 |
| 21       | 94   | 110428W025  | WASHER-FLAT, 0.25                                          |
| 22       | 62   | 123115-05Z  | LOCKWASHER-ZINC, 0.31                                      |
| 23       | 80   | 142578-K12  | SCREW-CAP, ZINC, 5/16-18 UNC X 1.00, GRADE 5 (@ 13 FT-LBS) |
| 24       | 4    | 123777-J10  | SCREW-HEX HEAD, 1/4-20 UNC X 0.75, GRADE 5 (@ 6 FT-LBS)    |
| 25       | 8    | 110428W031  | WASHER-FLAT, 0.31                                          |
| 26       | 4    | 22456Z      | NUT-SPEED, GRIP, ZINC, 1/4-20 UNC                          |
| 27       | 4    | 110511-K14  | SCREW-HEX HEAD, ZINC, 5/16-18 UNC X 1.25                   |
| 28       | 4    | 112272-K02  | NUT-HEX, SELF-LOCKING, ZINC, 5/16-18 UNC                   |
| 29       | 4    | 123115-05C  | LOCKWASHER, 0.31                                           |
| 30       | 4    | 141631-L10  | SCREW-CAP, 3/8-16 UNC X 0.75, GRADE 5 (@ 23 FT-LBS)        |

\*\* SEE ELECTRICAL CONTROL & STARTING FOR FAN MOTOR STARTER PARTS  
(I.E. CONTACTOR, OVERLOAD RELAY, FUSEBLOCK & FUSES).

@ INDICATES TORQUE VALUE IN FOOT POUNDS (LUBRICATED THREADS).

# Decals (a/c)

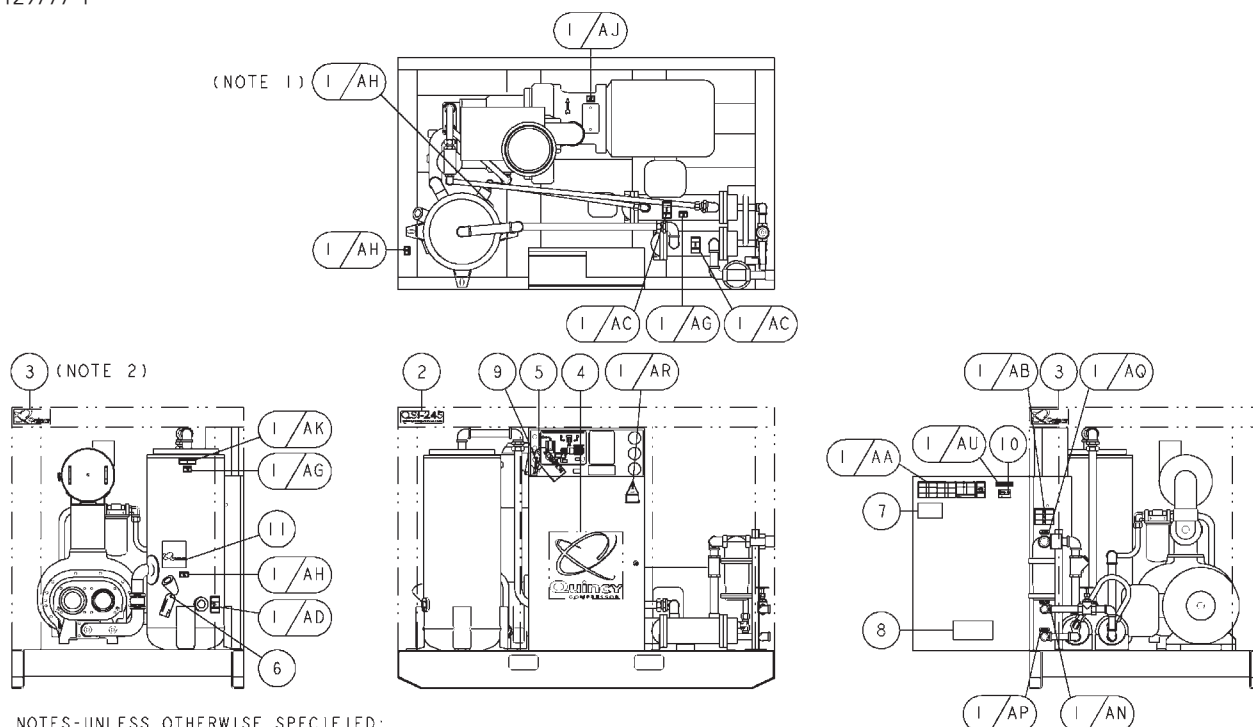
129776-1



- NOTES-UNLESS OTHERWISE SPECIFIED:
- 1) ITEM 1/AH TO BE PLACED NEAR PRESSURE RELIEF VALVE.
  - 2) ITEM 3 TO BE PLACED IN THE UPPER LEFT CORNER OF THE CABINET ON BOTH ENDS AND BACK OF UNIT.
  - 3) ITEM 3 NOT USED ON UNITS LESS CABINET.
  - 3) ITEM 1/AF USED ONLY ON UNITS W/AUTO RESTART OPTION.
  - 4) UNITS LESS CABINET:
    - ITEM 1/AB TO BE ON BASE BELOW SERVICE CONNECTION.
    - ITEM 1/AQ TO BE ON AIR OUTLET SERVICE CONNECTION.
    - ITEM 2 TO BE CENTERED ON FRONT OF RESERVOIR (NEAR THE TOP).

| ITEM No. | QTY. | PART NUMBER | DESCRIPTION                                    |
|----------|------|-------------|------------------------------------------------|
| 1        | 1    | 146001      | SHEET-SAFETY DECALS                            |
| 2        | 1    | 146006-220  | DECAL-QSI-220                                  |
|          | 1    | 146006-245  | DECAL-QSI-245                                  |
| 3        | 3    | 146002-1    | DECAL-QUINCY LOGO (WHITE) (7.5 INCH)           |
| 4        | 1    | 146021-2    | DECAL-Q/QUINCY (15 INCH)                       |
| 5        | 1    | 141250      | TAG-CAUTION, JOG MOTOR                         |
| 6        | 1    | 22177       | TAG-FLUID TYPE SHIPPED WITH UNIT               |
| 7        | 1    | 128198      | LABEL-GENUINE QUINCY COMPONENTS                |
| 8        | 1    | 110690-001  | ENVELOPE-PLASTIC                               |
| 9        | 1    | 113058      | DECAL-CONTROL PANEL, UL LISTED                 |
| 10       | 1    | 143861      | DECAL-THIS MACHINE PROTECTED WITH QUINSYN PG™  |
|          | 1    | 140519-3    | DECAL-THIS MACHINE PROTECTED WITH QUINSYN XP®  |
|          | 1    | 144048      | DECAL-THIS MACHINE PROTECTED WITH QUINSYN PLUS |
|          | 1    | 128426      | DECAL-THIS MACHINE PROTECTED WITH QUINSYN-F®   |

129777-1



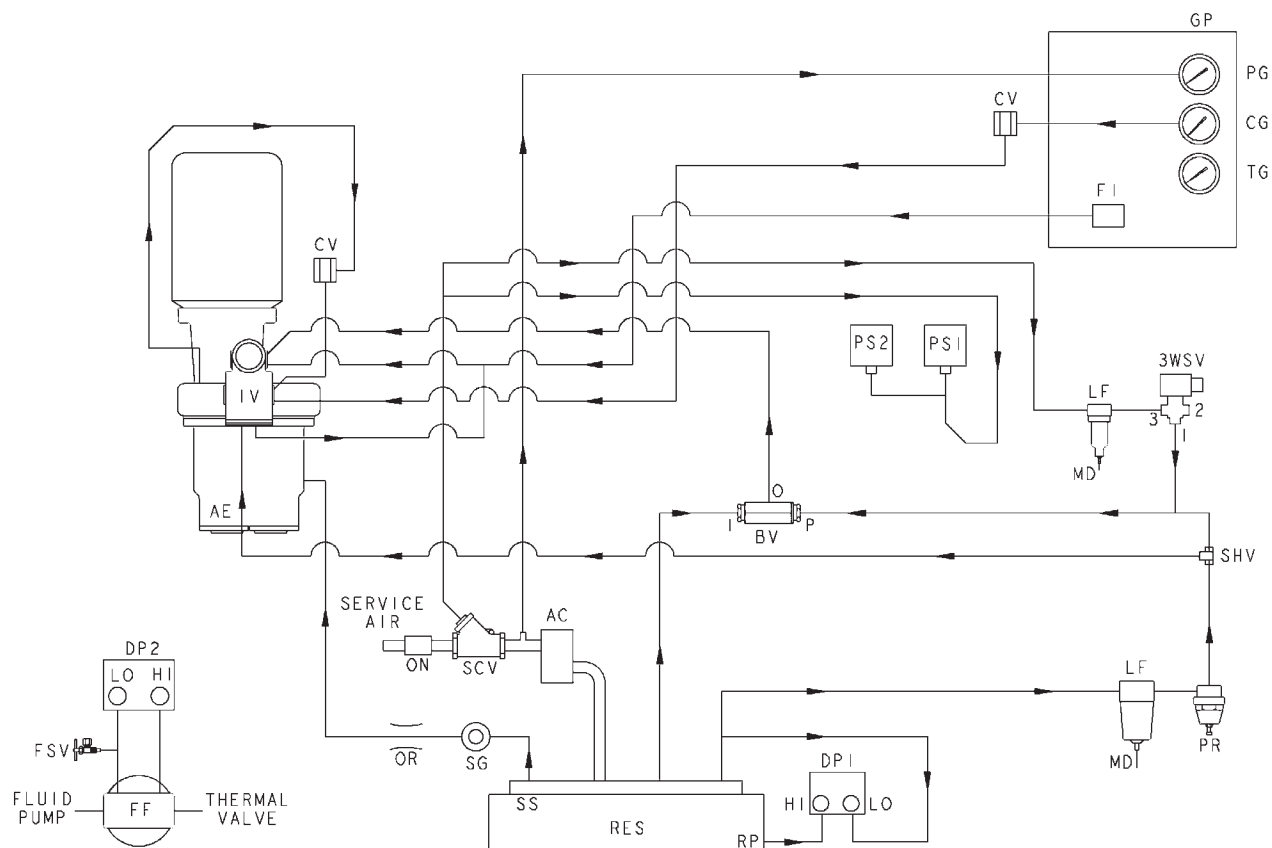
## NOTES-UNLESS OTHERWISE SPECIFIED:

- 1) ITEM 1/AH TO BE PLACED NEAR PRESSURE RELIEF VALVE.
- 2) ITEM 3 TO BE PLACED IN THE UPPER LEFT CORNER OF THE CABINET ON BOTH ENDS AND BACK OF UNIT.
- ITEM 3 NOT USED ON UNITS LESS CABINET.
- 3) ITEM 1/AF USED ONLY ON UNITS W/AUTO RESTART OPTION.
- 4) UNITS LESS CABINET:
  - ITEM 1/AB TO BE ON BASE BELOW SERVICE CONNECTION.
  - ITEMS 1/AN, 1/AP & 1/AQ TO BE ON APPROPRIATE SERVICE CONNECTION.
  - ITEM 2 TO BE CENTERED ON FRONT OF RESERVOIR (NEAR THE TOP).

| ITEM NO. | QTY. | PART NUMBER | DESCRIPTION                                    |
|----------|------|-------------|------------------------------------------------|
| 1        | 1    | 146001      | SHEET-SAFETY DECALS                            |
| 2        | 1    | 146006-220  | DECAL-QSI-220                                  |
|          | 1    | 146006-245  | DECAL-QSI-245                                  |
| 3        | 3    | 146002-1    | DECAL-QUINCY LOGO (WHITE) (7.5 INCH)           |
| 4        | 1    | 146021-2    | DECAL-Q/QUINCY (15 INCH)                       |
| 5        | 1    | 141250      | TAG-CAUTION, JOG MOTOR                         |
| 6        | 1    | 22177       | TAG-FLUID TYPE SHIPPED WITH UNIT               |
| 7        | 1    | 128198      | LABEL-GENUINE QUINCY COMPONENTS                |
| 8        | 1    | 110690-001  | ENVELOPE-PLASTIC                               |
| 9        | 1    | 141251      | TAG-PLUGS REMOVED...                           |
| 10       | 1    | 113058      | DECAL-CONTROL PANEL, UL LISTED                 |
| 11       | 1    | 143861      | DECAL-THIS MACHINE PROTECTED WITH QUINSYN PG™  |
|          | 1    | 140519-3    | DECAL-THIS MACHINE PROTECTED WITH QUINSYN XP®  |
|          | 1    | 144048      | DECAL-THIS MACHINE PROTECTED WITH QUINSYN PLUS |
|          | 1    | 128426      | DECAL-THIS MACHINE PROTECTED WITH QUINSYN-F®   |

# Control Schematic (across the line, 100-125#)

129740

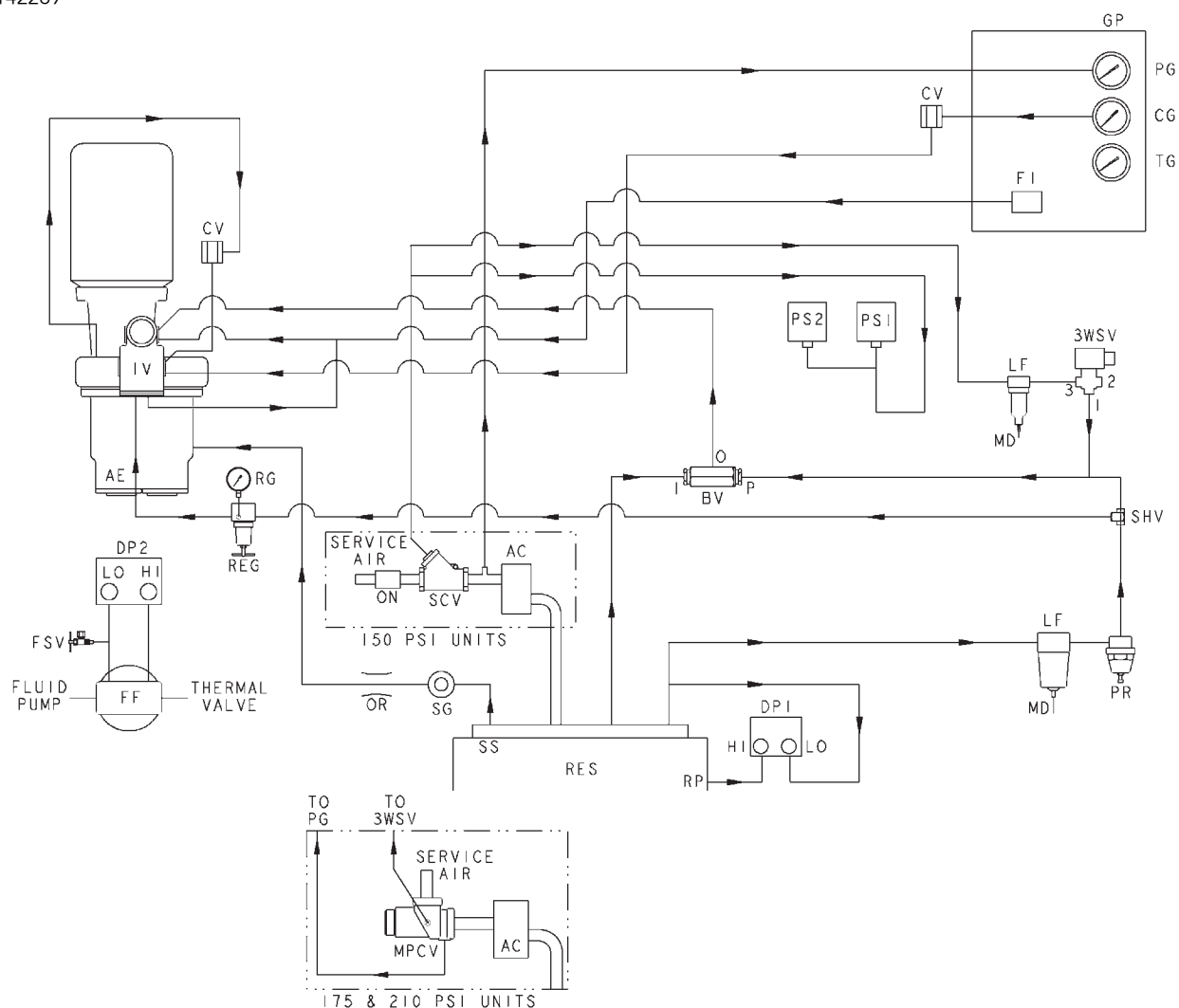


AC: AFTERCOOLER  
 AE: AIREND  
 BV: BLOWDOWN VALVE (NC)  
 CG: CAPACITY GAUGE  
 CV: CAPACITY VALVE  
 DPI: DIFFERENTIAL PRESSURE SWITCH (SEPARATOR)  
 DP2: DIFFERENTIAL PRESSURE SWITCH (FLUID FILTER)  
 FF: FLUID FILTER  
 FI: AIR FILTER INDICATOR SWITCH  
 FSV: FLUID SAMPLE VALVE  
 GP: GAUGE PANEL  
 IV: INLET VALVE  
 LF: LINE FILTER  
 MD: MOISTURE DRAIN

ON: ORIFICE NOZZLE  
 OR: SCAVENGE ORIFICE (0.040)  
 PG: PRESSURE GAUGE  
 PR: PRESSURE REGULATOR  
 PSI: PRESSURE SWITCH  
 PS2: PRESSURE SWITCH (LEAD/LAG)  
 RES: RESERVOIR  
 RP: RESERVOIR PRESSURE  
 SCV: SWING CHECK VALVE  
 SG: SCAVENGE SIGHTGLASS  
 SHV: SHUTTLE VALVE  
 SS: SEPARATOR SCAVENGE  
 TG: TEMPERATURE GAUGE  
 3WSV: 3-WAY SOLENOID VALVE

# Control Schematic (across the line, 150-210#)

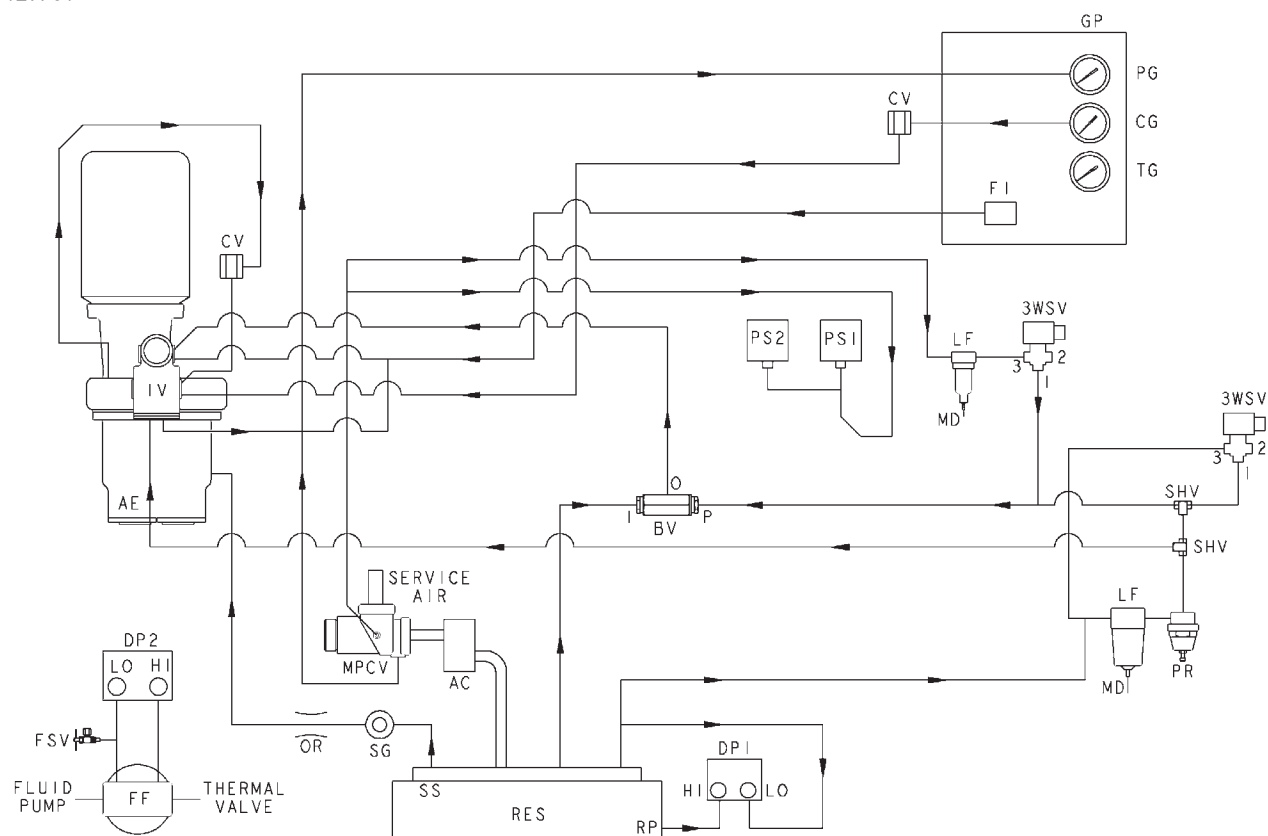
142269



- |                                                  |                                 |
|--------------------------------------------------|---------------------------------|
| AC: AFTERCOOLER                                  | ON: ORIFICE NOZZLE              |
| AE: AIREND                                       | PG: PRESSURE GAUGE              |
| BV: BLOWDOWN VALVE (NORMALLY CLOSED)             | PR: PRESSURE REGULATOR          |
| CG: CAPACITY GAUGE                               | PS1: PRESSURE SWITCH            |
| CV: CAPACITY VALVE                               | PS2: PRESSURE SWITCH (LEAD/LAG) |
| DP1: DIFFERENTIAL PRESSURE SWITCH (SEPARATOR)    | REG: REGULATOR                  |
| DP2: DIFFERENTIAL PRESSURE SWITCH (FLUID FILTER) | RG: REGULATOR GAUGE             |
| FF: FLUID FILTER                                 | RP: RESERVOIR PRESSURE          |
| FI: AIR FILTER INDICATOR SWITCH                  | RES: RESERVOIR                  |
| FSV: FLUID SAMPLE VALVE                          | SCV: SWING CHECK VALVE          |
| GP: GAUGE PANEL                                  | SF: SCAVENGE FILTER             |
| IV: INLET VALVE                                  | SG: SCAVENGE SIGHTGLASS         |
| LF: LINE FILTER                                  | SHV: SHUTTLE VALVE              |
| MD: MOISTURE DRAIN                               | SS: PRIMARY SEPARATOR SCAVENGE  |
| MPCV: MINIMUM PRESSURE CHECK VALVE               | TG: TEMPERATURE GAUGE           |
| MU: MUFFLER                                      | 3WSV: 3-WAY SOLENOID VALVE      |
| OR: SCAVENGE ORIFICE (0.040)                     |                                 |

# Control Schematic (wye-delta, 100-125#)

129781

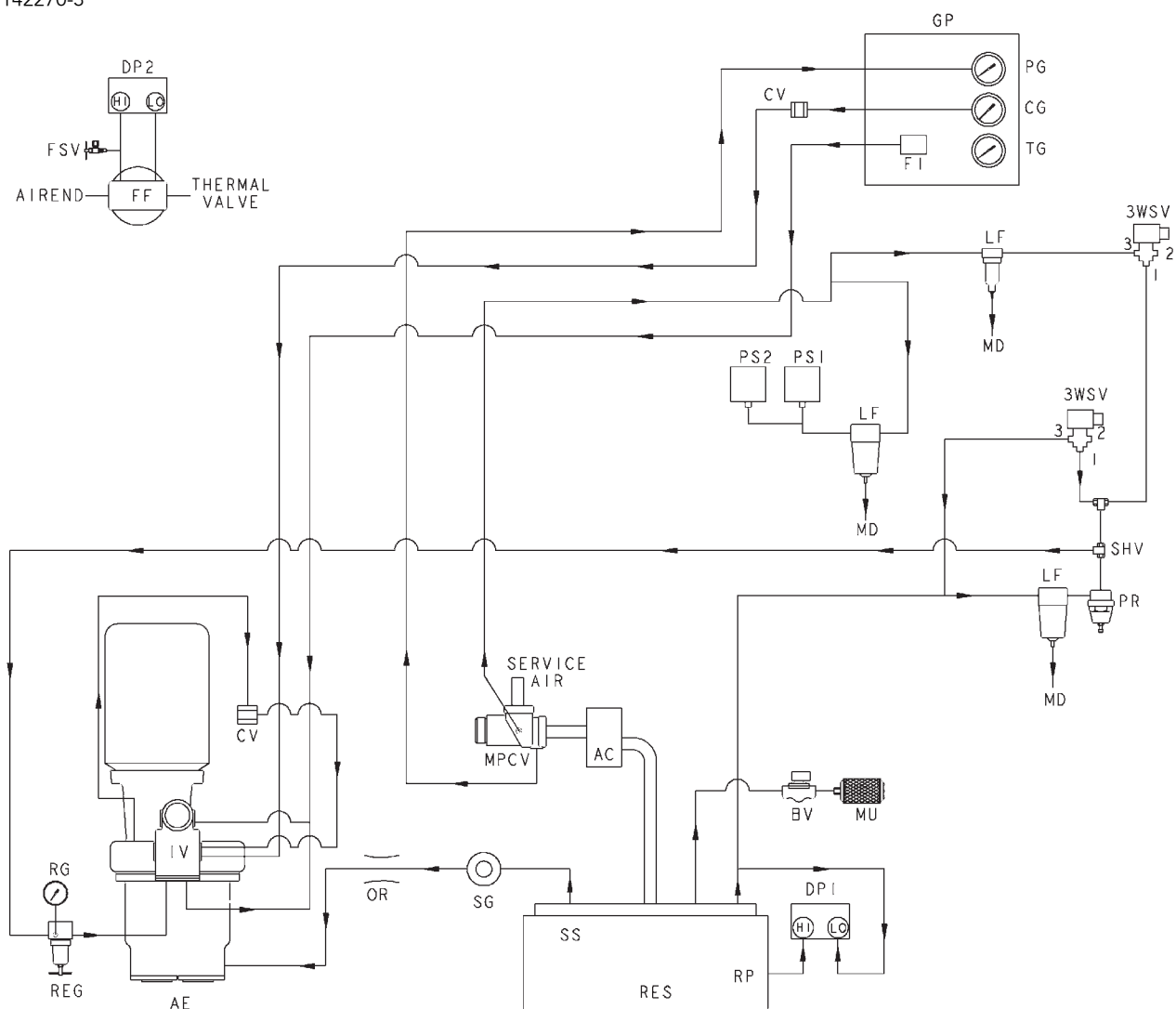


AC: AFTERCOOLER  
 AE: AIREND  
 BV: BLOWDOWN VALVE (NC)  
 CG: CAPACITY GAUGE  
 CV: CAPACITY VALVE  
 DP1: DIFFERENTIAL PRESSURE SWITCH (SEPARATOR)  
 DP2: DIFFERENTIAL PRESSURE SWITCH (FLUID FILTER)  
 FF: FLUID FILTER  
 FI: AIR FILTER INDICATOR SWITCH  
 FSV: FLUID SAMPLE VALVE  
 GP: GAUGE PANEL  
 IV: INLET VALVE  
 LF: LINE FILTER  
 MD: MOISTURE DRAIN

MPCV: MINIMUM PRESSURE CHECK VALVE  
 OR: SCAVENGE ORIFICE (0.040)  
 PG: PRESSURE GAUGE  
 PR: PRESSURE REGULATOR  
 PS1: PRESSURE SWITCH  
 PS2: PRESSURE SWITCH (LEAD/LAG)  
 RES: RESERVOIR  
 RP: RESERVOIR PRESSURE  
 SG: SCAVENGE SIGHTGLASS  
 SHV: SHUTTLE VALVE  
 SS: SEPARATOR SCAVENGE  
 TG: TEMPERATURE GAUGE  
 3WSV: 3-WAY SOLENOID VALVE

# Control Schematic (wye-delta, 150-210#)

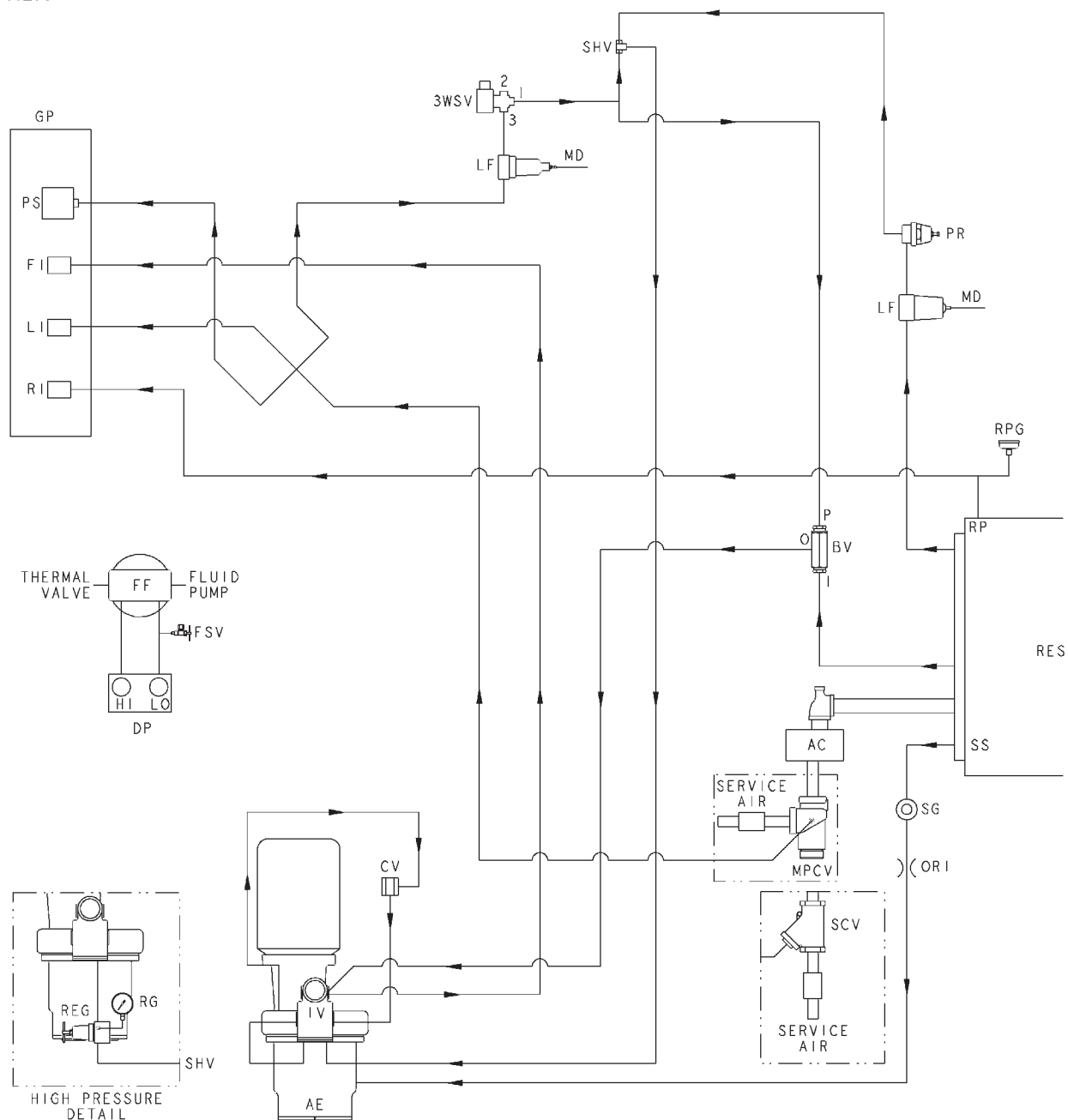
142270-3



- |                                                  |                                 |
|--------------------------------------------------|---------------------------------|
| AC: AFTERCOOLER                                  | ON: ORIFICE NOZZLE              |
| AE: AIREND                                       | PG: PRESSURE GAUGE              |
| BV: BLOWDOWN VALVE (NORMALLY CLOSED)             | PR: PRESSURE REGULATOR          |
| CG: CAPACITY GAUGE                               | PS1: PRESSURE SWITCH            |
| CV: CAPACITY VALVE                               | PS2: PRESSURE SWITCH (LEAD/LAG) |
| DPI: DIFFERENTIAL PRESSURE SWITCH (SEPARATOR)    | REG: REGULATOR                  |
| DP2: DIFFERENTIAL PRESSURE SWITCH (FLUID FILTER) | RG: REGULATOR GAUGE             |
| FF: FLUID FILTER                                 | RP: RESERVOIR PRESSURE          |
| FI: AIR FILTER INDICATOR SWITCH                  | RES: RESERVOIR                  |
| FSV: FLUID SAMPLE VALVE                          | SCV: SWING CHECK VALVE          |
| GP: GAUGE PANEL                                  | SF: SCAVENGE FILTER             |
| IV: INLET VALVE                                  | SG: SCAVENGE SIGHTGLASS         |
| LF: LINE FILTER                                  | SHV: SHUTTLE VALVE              |
| MD: MOISTURE DRAIN                               | SS: PRIMARY SEPARATOR SCAVENGE  |
| MPCV: MINIMUM PRESSURE CHECK VALVE               | TG: TEMPERATURE GAUGE           |
| MU: MUFFLER                                      | 3WSV: 3-WAY SOLENOID VALVE      |
| OR: SCAVENGE ORIFICE (0.040)                     |                                 |

# Control Schematic (P\$, less lift valves)

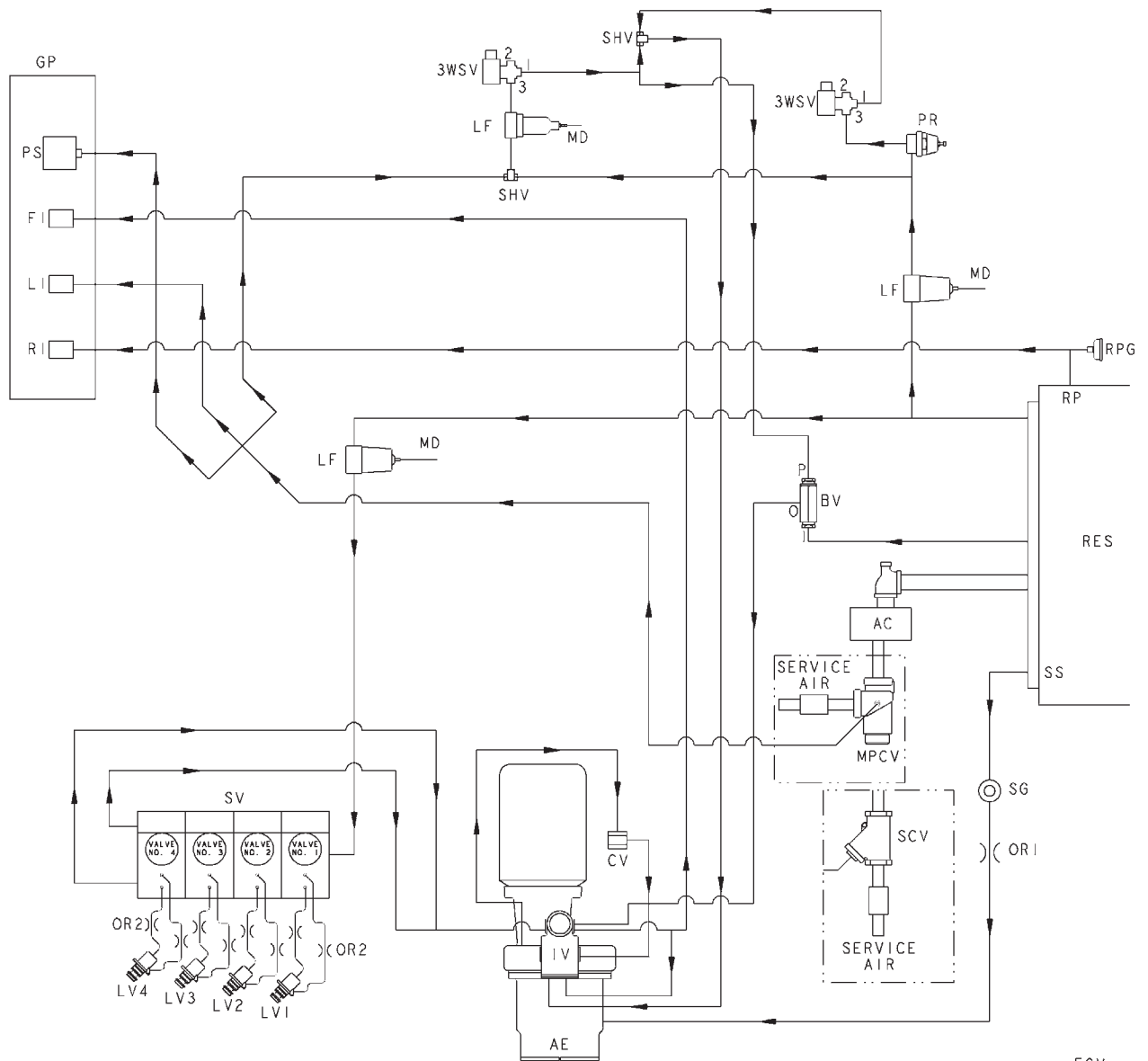
141295



- |                                                 |                                        |
|-------------------------------------------------|----------------------------------------|
| AC: AFTERCOOLER                                 | PR: PRESSURE REGULATOR                 |
| AE: AIREND                                      | PS: PRESSURE SWITCH                    |
| BV: BLOWDOWN VALVE                              | REG: INLET VALVE REGULATOR (HI-P ONLY) |
| CV: CAPACITY VALVE                              | RES: RESERVOIR                         |
| DP: DIFFERENTIAL PRESSURE SWITCH (FLUID FILTER) | RG: REGULATOR GAUGE (HI-P ONLY)        |
| FF: FLUID FILTER                                | RI: RESERVOIR PRESSURE INDICATOR       |
| FI: AIR FILTER INDICATOR SWITCH                 | RP: RESERVOIR PRESSURE                 |
| FSV: FLUID SAMPLE VALVE                         | RPG: RESERVOIR PRESSURE GAUGE          |
| GP: GAUGE PANEL                                 | SCV: SWING CHECK VALVE                 |
| IV: INLET VALVE                                 | SHV: SHUTTLE VALVE                     |
| LF: LINE FILTER                                 | SG: SCAVENGE SIGHTGLASS                |
| LI: LINE PRESSURE INDICATOR                     | SS: SEPARATOR SCAVENGE                 |
| MD: MOISTURE DRAIN                              | SV: 150 PSI SOLENOID VALVE             |
| MPCV: MINIMUM PRESSURE CHECK VALVE              | 3WSV: 3-WAY SOLENOID VALVE             |
| ORI: ORIFICE (0.078)                            |                                        |

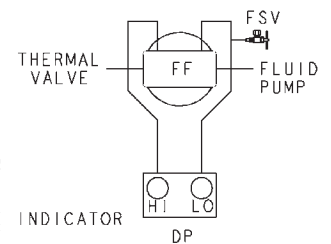
# Control Schematic (P\$, with lift valves)

140514-2



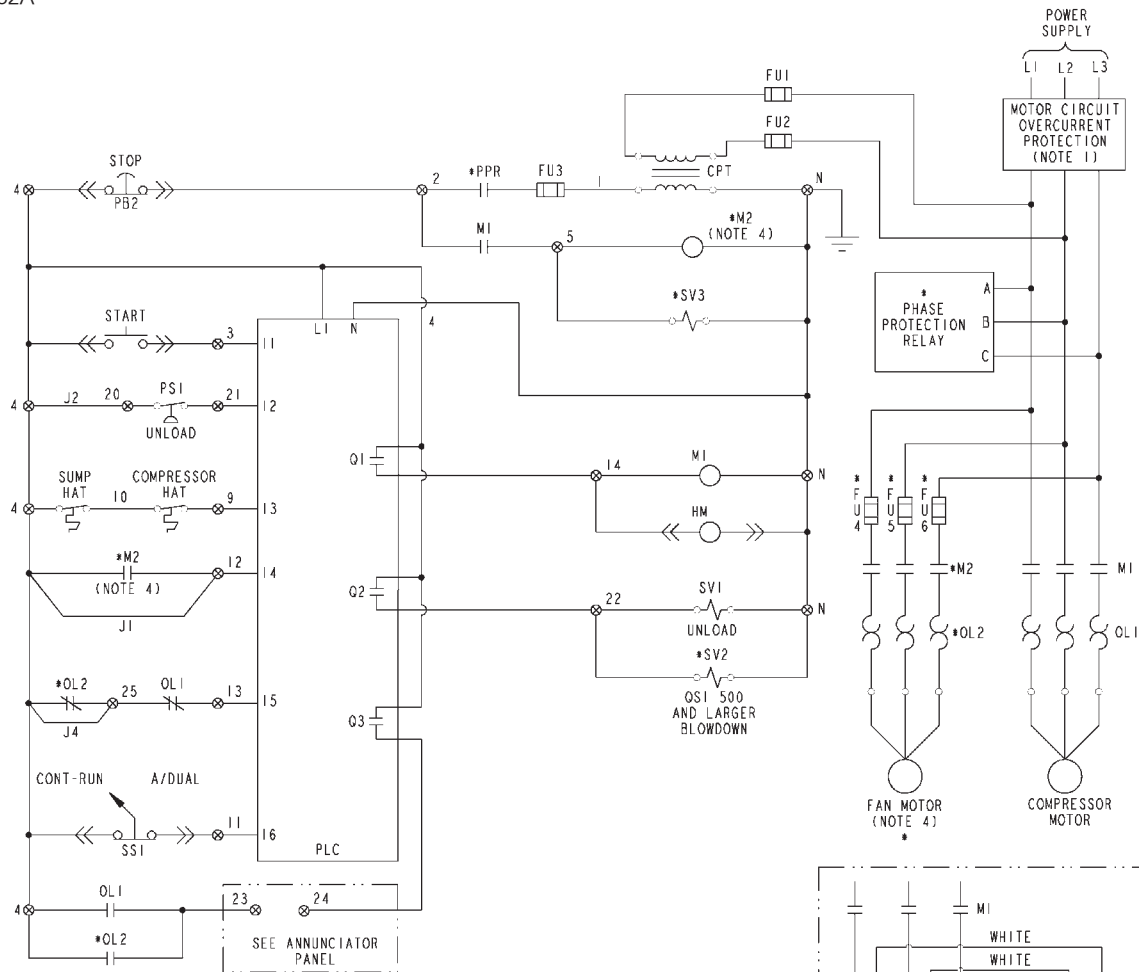
AC: AFTERCOOLER  
 AE: AIREND  
 BV: BLOWDOWN VALVE  
 CV: CAPACITY VALVE  
 DP: DIFFERENTIAL PRESSURE SWITCH (FLUID FILTER)  
 FF: FLUID FILTER  
 FI: AIR FILTER INDICATOR SWITCH  
 FSV: FLUID SAMPLE VALVE  
 GP: GAUGE PANEL  
 IV: INLET VALVE  
 LF: LINE FILTER  
 LI: LINE PRESSURE INDICATOR  
 LV: LIFT VALVE  
 MD: MOISTURE DRAIN  
 MPCV: MINIMUM PRESSURE CHECK VALVE

ORI: ORIFICE (0.078)  
 OR2: ORIFICE (0.062)  
 PR: PRESSURE REGULATOR  
 PS: PRESSURE SWITCH  
 RES: RESERVOIR  
 RI: RESERVOIR PRESSURE INDICATOR  
 RP: RESERVOIR PRESSURE  
 RPG: RESERVOIR PRESSURE GAUGE  
 SCV: SWING CHECK VALVE  
 SHV: SHUTTLE VALVE  
 SG: SCAVENGE SIGHTGLASS  
 SS: SEPARATOR SCAVENGE  
 SV: 150 PSI SOLENOID VALVE  
 3WSV: 3-WAY SOLENOID VALVE

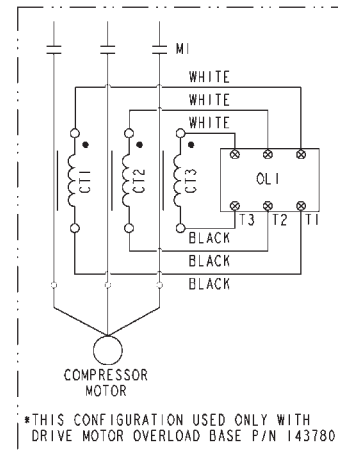
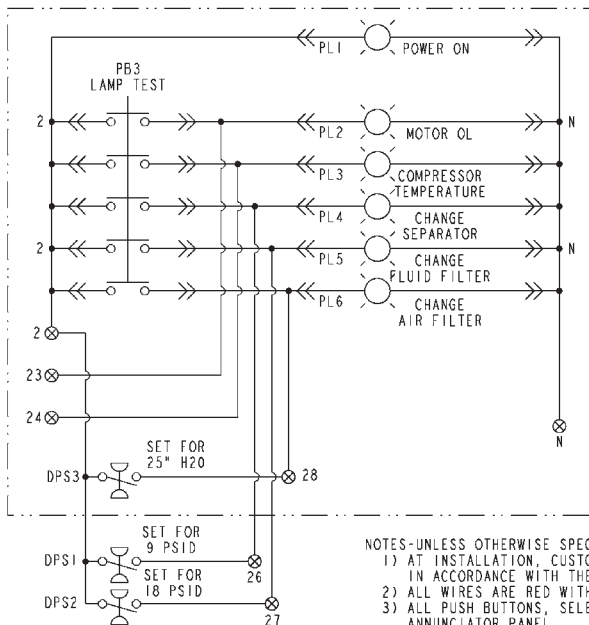


# Electrical Control Diagram (auto dual, across the line)

WP1962A



LOCATED IN ANNUNCIATOR PANEL



\*THIS CONFIGURATION USED ONLY WITH DRIVE MOTOR OVERLOAD BASE P/N 143780

## NOMENCLATURE

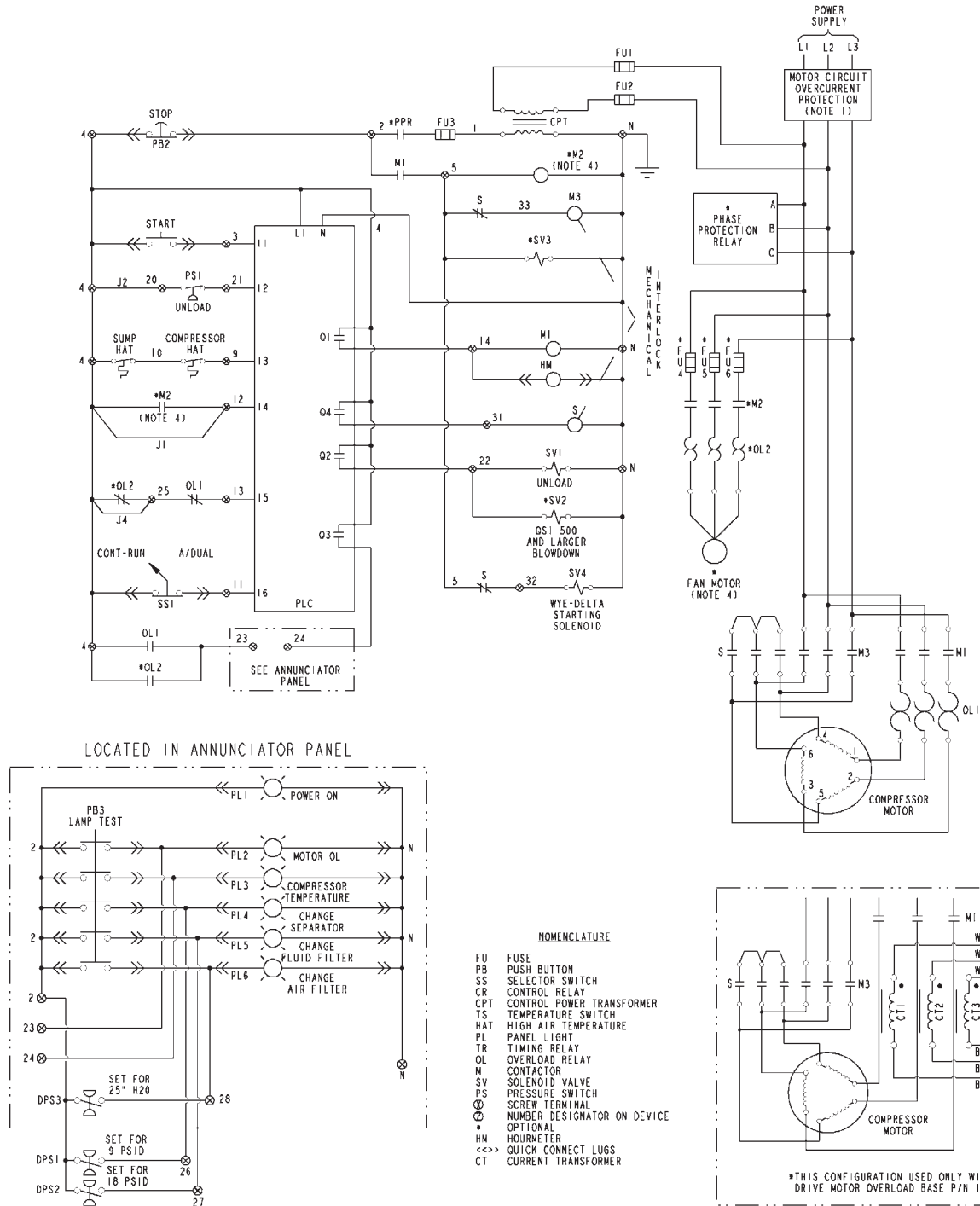
|     |                           |      |                             |
|-----|---------------------------|------|-----------------------------|
| FU  | FUSE                      | M    | CONTACTOR                   |
| PB  | PUSH BUTTON               | SV   | SOLENOID VALVE              |
| SS  | SELECTOR SWITCH           | PS   | PRESSURE SWITCH             |
| CR  | CONTROL RELAY             | ⊗    | SCREW TERMINAL              |
| CPT | CONTROL POWER TRANSFORMER | ②    | NUMBER DESIGNATOR ON DEVICE |
| TS  | TEMPERATURE SWITCH        | *    | OPTIONAL                    |
| HAT | HIGH AIR TEMPERATURE      | HM   | HOURLY METER                |
| PL  | PANEL LIGHT               | <<>> | QUICK CONNECT LUGS          |
| TR  | TIMING RELAY              | CT   | CURRENT TRANSFORMER         |
| OL  | OVERLOAD RELAY            |      |                             |

## NOTES-UNLESS OTHERWISE SPECIFIED:

- 1) AT INSTALLATION, CUSTOMER IS TO PROVIDE DISCONNECT AND BRANCH CIRCUIT OVERLOAD PROTECTION IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND/OR ANY LOCAL CODES HAVING PRECEDENCE.
- 2) ALL WIRES ARE RED WITH THE FOLLOWING EXCEPTIONS: "N" WIRES ARE WHITE AND "G" WIRES ARE GREEN.
- 3) ALL PUSH BUTTONS, SELECTOR SWITCHES, HOURMETER & INDICATOR LIGHTS ARE LOCATED IN THE ANNUNCIATOR PANEL.
- 4) FAN MOTOR USED ON ALL AIR-COOLED UNITS AND ON WATER-COOLED UNITS WITH CABINET VENT FAN.

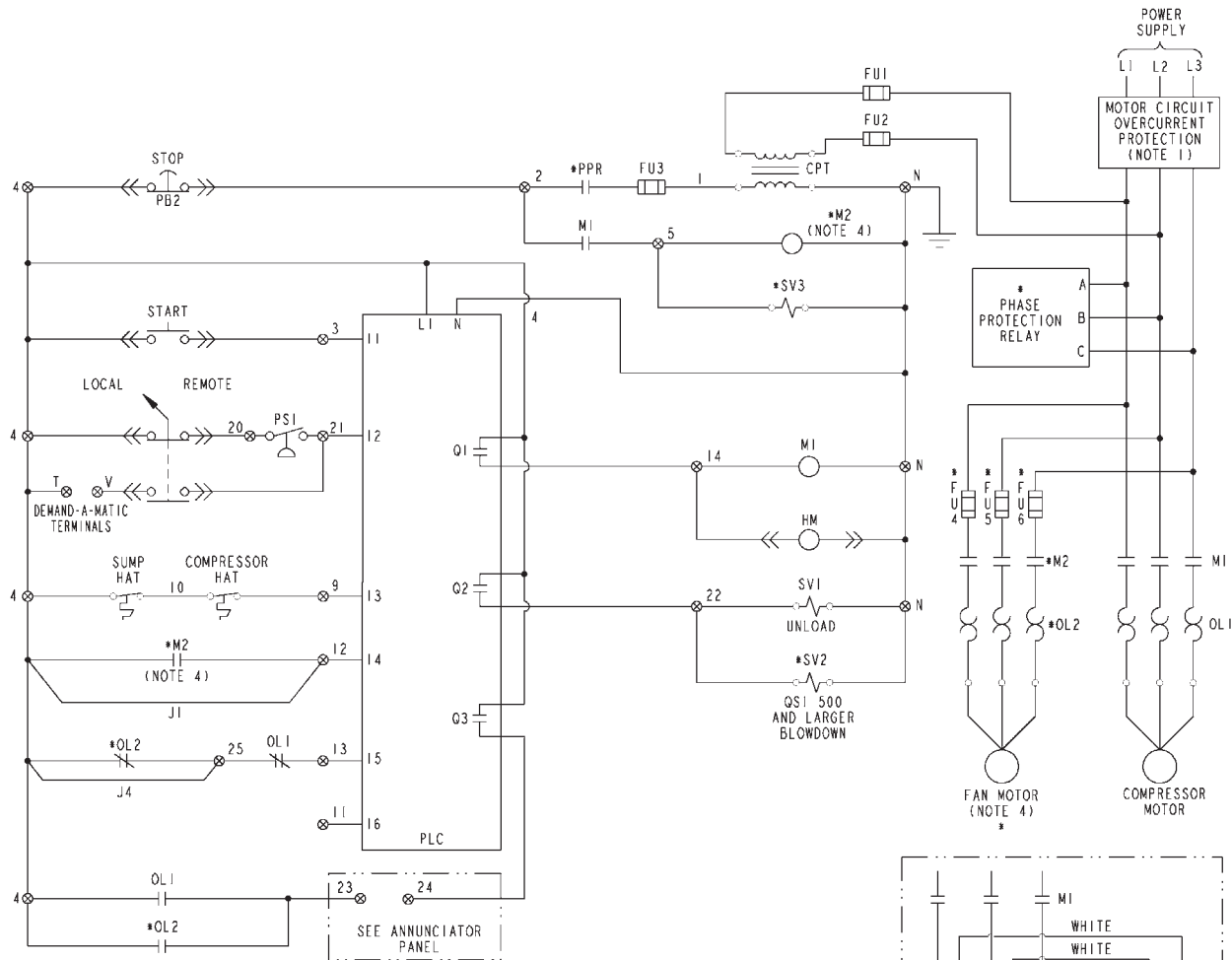
# Electrical Control Diagram (auto dual, wye-delta)

WP1962A1

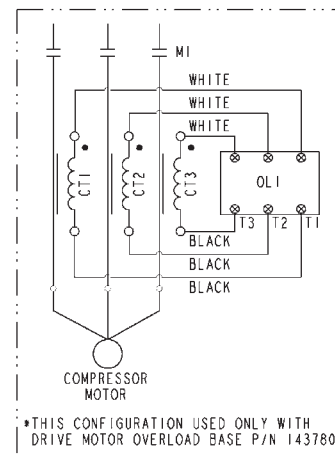
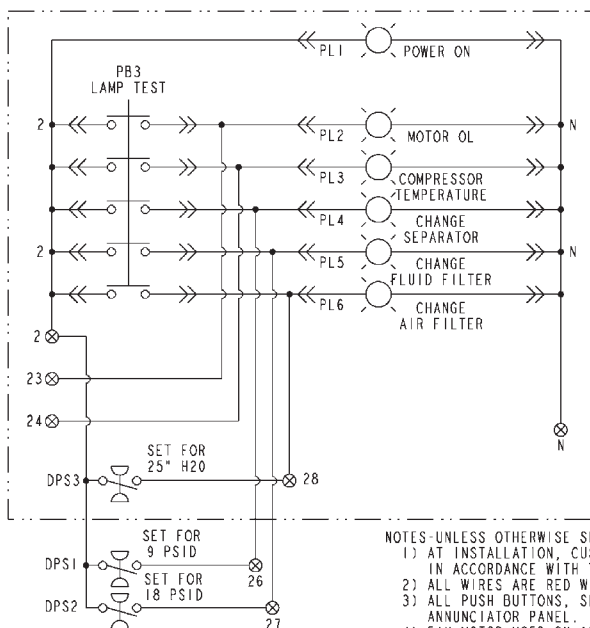


# Electrical Control Diagram (auto demand, across the line)

WP1962B



## LOCATED IN ANNUNCIATOR PANEL



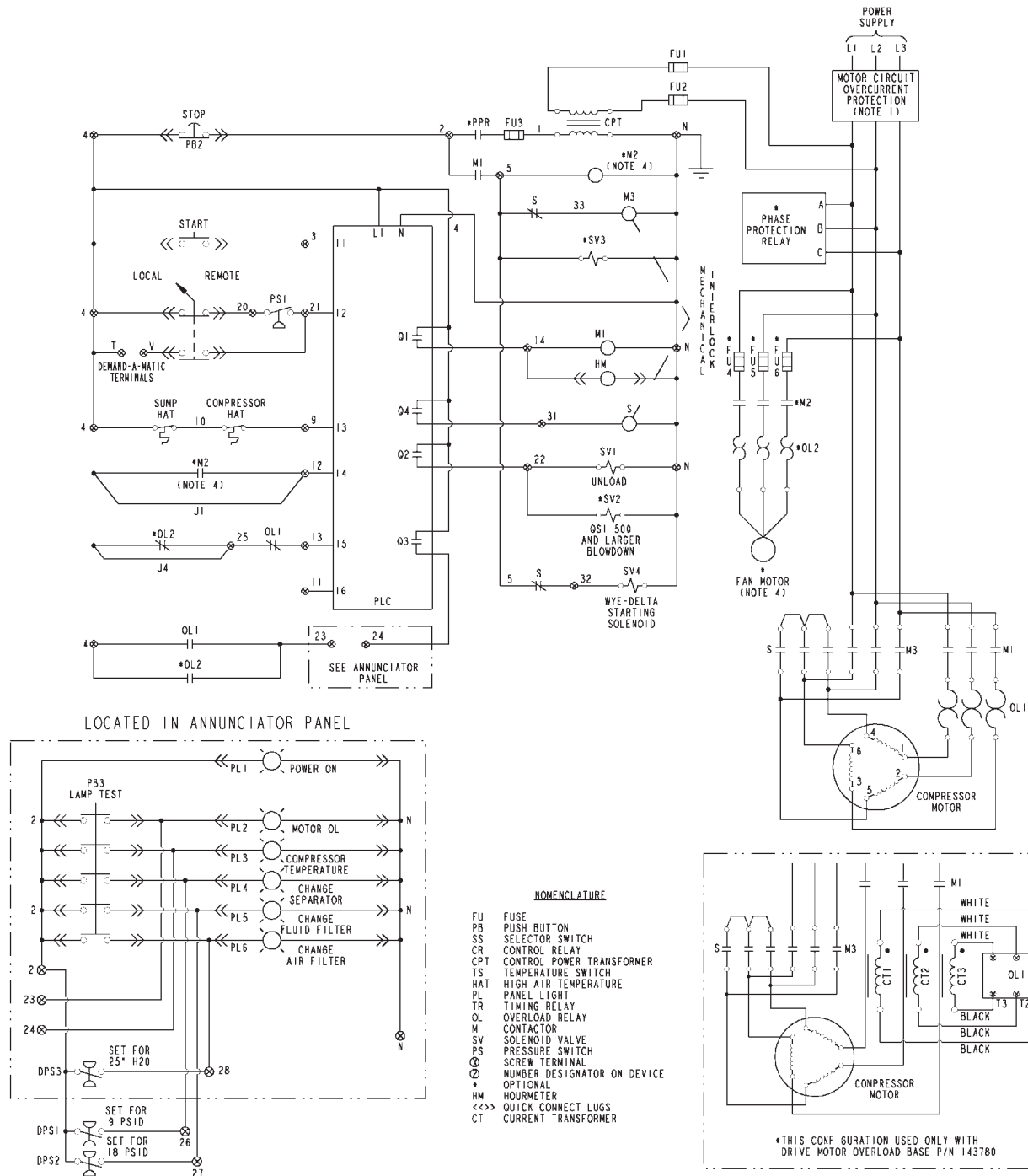
\*THIS CONFIGURATION USED ONLY WITH DRIVE MOTOR OVERLOAD BASE P/N 143780

|     |                           |      |                             |
|-----|---------------------------|------|-----------------------------|
| FU  | FUSE                      | M    | CONTACTOR                   |
| PB  | PUSH BUTTON               | SV   | SOLENOID VALVE              |
| SS  | SELECTOR SWITCH           | PS   | PRESSURE SWITCH             |
| CR  | CONTROL RELAY             | ⊗    | SCREW TERMINAL              |
| CPT | CONTROL POWER TRANSFORMER | ②    | NUMBER DESIGNATOR ON DEVICE |
| TS  | TEMPERATURE SWITCH        | #    | OPTIONAL                    |
| HAT | HIGH AIR TEMPERATURE      | HM   | HOURLY                      |
| PL  | PANEL LIGHT               | <<>> | QUICK CONNECT LUGS          |
| TR  | TIMING RELAY              | CT   | CURRENT TRANSFORMER         |
| OL  | OVERLOAD RELAY            |      |                             |

- NOTES-UNLESS OTHERWISE SPECIFIED:
- 1) AT INSTALLATION, CUSTOMER IS TO PROVIDE DISCONNECT AND BRANCH CIRCUIT OVERLOAD PROTECTION IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND/OR ANY LOCAL CODES HAVING PRECEDENCE.
  - 2) ALL WIRES ARE RED WITH THE FOLLOWING EXCEPTIONS: "N" WIRES ARE WHITE AND "G" WIRES ARE GREEN.
  - 3) ALL PUSH BUTTONS, SELECTOR SWITCHES, HOURMETER & INDICATOR LIGHTS ARE LOCATED IN THE ANNUNCIATOR PANEL.
  - 4) FAN MOTOR USED ON ALL AIR-COOLED UNITS AND ON WATER-COOLED UNITS WITH CABINET VENT FAN.

# Electrical Control Diagram (auto demand, wye-delta)

WP1962B1

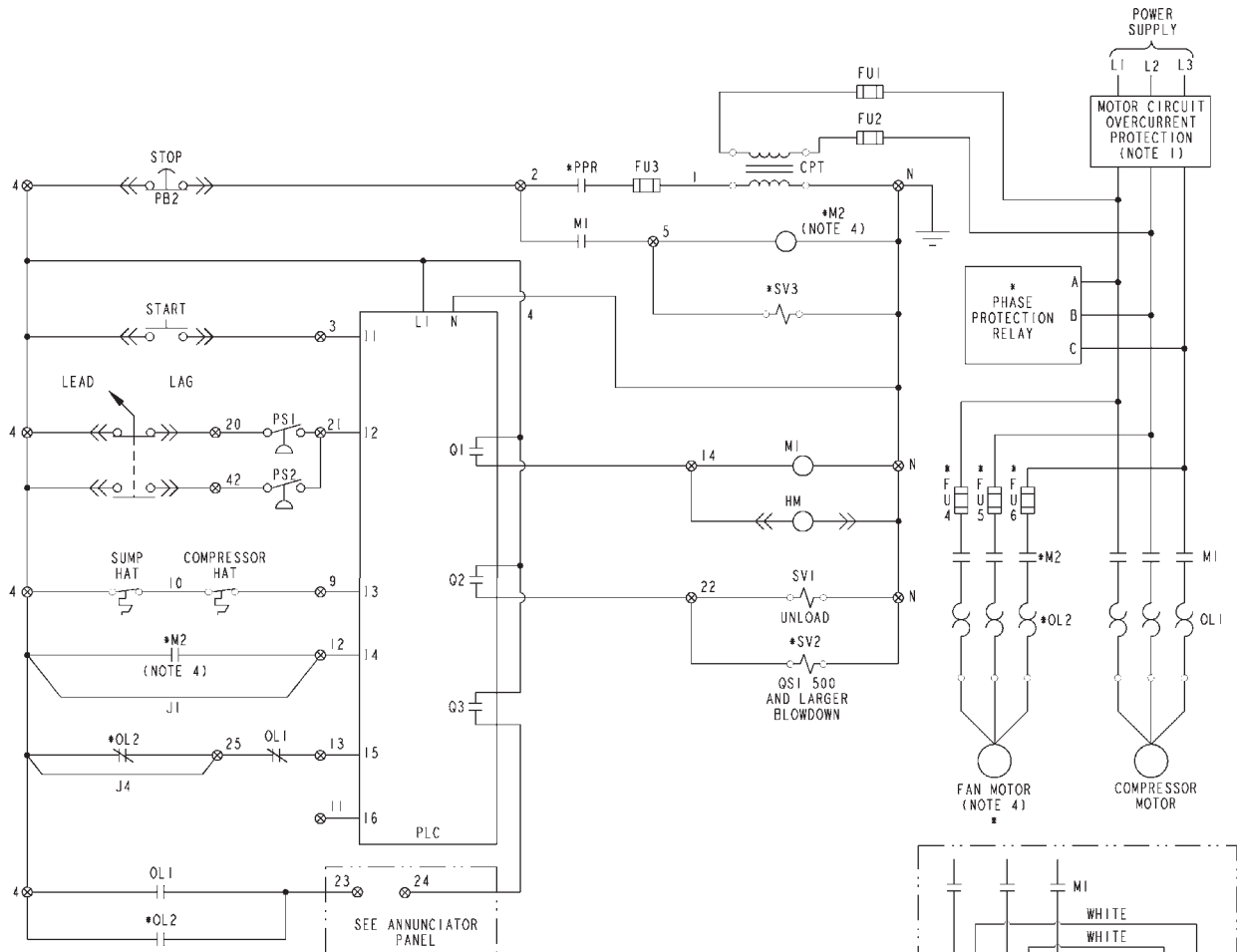


## NOTES-UNLESS OTHERWISE SPECIFIED:

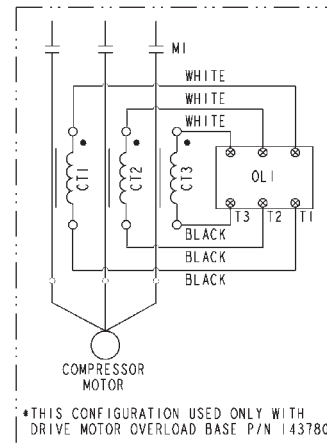
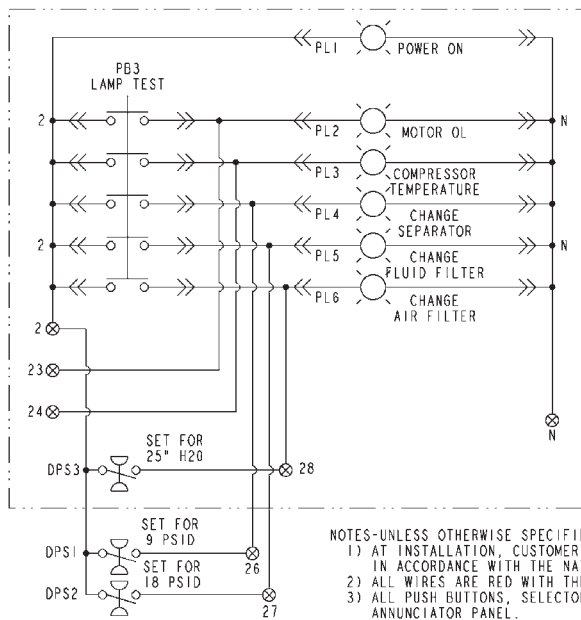
- 1) AT INSTALLATION, CUSTOMER IS TO PROVIDE DISCONNECT AND BRANCH CIRCUIT OVERLOAD PROTECTION IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND/OR ANY LOCAL CODES HAVING PRECEDENCE.
- 2) ALL WIRES ARE RED WITH THE FOLLOWING EXCEPTIONS: "N" WIRES ARE WHITE AND "G" WIRES ARE GREEN.
- 3) ALL PUSH BUTTONS, SELECTOR SWITCHES, HOURLY METER & INDICATOR LIGHTS ARE LOCATED IN THE ANNUNCIATOR PANEL.
- 4) FAN MOTOR USED ON ALL AIR-COOLED UNITS AND ON WATER-COOLED UNITS WITH CABINET VENT FAN.

# Electrical Control Diagram (lead/lag, across the line)

WP1962D



## LOCATED IN ANNUNCIATOR PANEL



## NOMENCLATURE

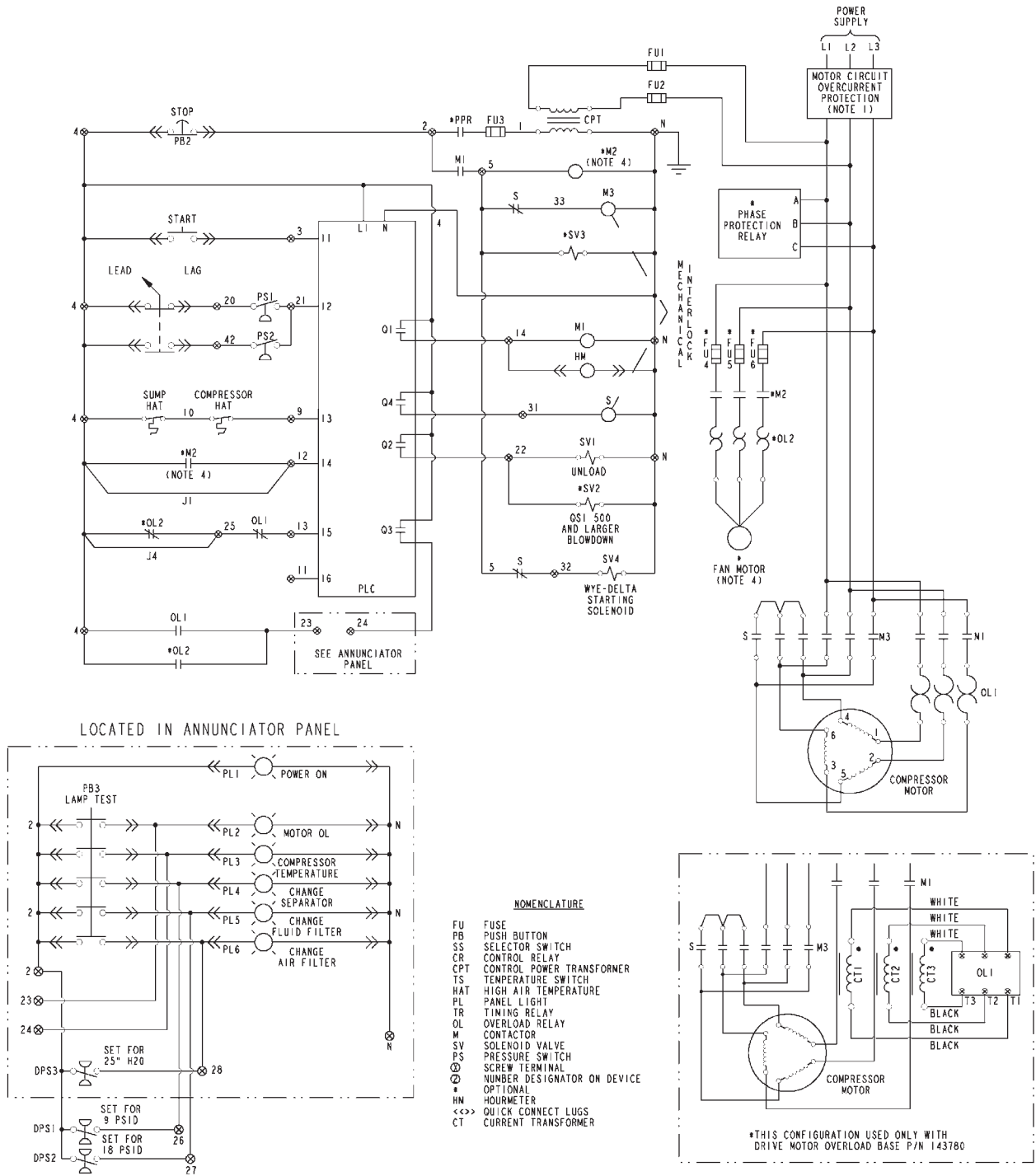
|     |                           |      |                             |
|-----|---------------------------|------|-----------------------------|
| FU  | FUSE                      | M    | CONTACTOR                   |
| PB  | PUSH BUTTON               | SV   | SOLENOID VALVE              |
| SS  | SELECTOR SWITCH           | PS   | PRESSURE SWITCH             |
| CR  | CONTROL RELAY             | ⊗    | SCREW TERMINAL              |
| CPT | CONTROL POWER TRANSFORMER | ⊙    | NUMBER DESIGNATOR ON DEVICE |
| TS  | TEMPERATURE SWITCH        | *    | OPTIONAL                    |
| HAT | HIGH AIR TEMPERATURE      | HM   | HOURLY METER                |
| PL  | PANEL LIGHT               | <>>> | QUICK CONNECT LUGS          |
| TR  | TIMING RELAY              | CT   | CURRENT TRANSFORMER         |
| OL  | OVERLOAD RELAY            |      |                             |

## NOTES-UNLESS OTHERWISE SPECIFIED:

- 1) AT INSTALLATION, CUSTOMER IS TO PROVIDE DISCONNECT AND BRANCH CIRCUIT OVERLOAD PROTECTION IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND/OR ANY LOCAL CODES HAVING PRECEDENCE.
- 2) ALL WIRES ARE RED WITH THE FOLLOWING EXCEPTIONS: "N" WIRES ARE WHITE AND "G" WIRES ARE GREEN.
- 3) ALL PUSH BUTTONS, SELECTOR SWITCHES, HOURLY METER & INDICATOR LIGHTS ARE LOCATED IN THE ANNUNCIATOR PANEL.
- 4) FAN MOTOR USED ON ALL AIR-COOLED UNITS AND ON WATER-COOLED UNITS WITH CABINET VENT FAN.
- 5) PS1 MUST NOT BE ADJUSTED TO CAUSE MOTOR LOAD TO EXCEED MOTOR NAMEPLATE. PS2 IS SET 5 PSIG LESS THAN PS1.

# Electrical Control Diagram (lead/lag, wye-delta)

WP1962D1



- NOTES-UNLESS OTHERWISE SPECIFIED:
- 1) AT INSTALLATION, CUSTOMER IS TO PROVIDE DISCONNECT AND BRANCH CIRCUIT OVERLOAD PROTECTION IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND/OR ANY LOCAL CODES HAVING PRECEDENCE.
  - 2) ALL WIRES ARE RED WITH THE FOLLOWING EXCEPTIONS: "N" WIRES ARE WHITE AND "G" WIRES ARE GREEN.
  - 3) ALL PUSH BUTTONS, SELECTOR SWITCHES, HOURMETER & INDICATOR LIGHTS ARE LOCATED IN THE ANNUNCIATOR PANEL.
  - 4) FAN MOTOR USED ON ALL AIR-COOLED UNITS AND ON WATER-COOLED UNITS WITH CABINET VENT FAN.
  - 5) PS1 MUST NOT BE ADJUSTED TO CAUSE MOTOR LOAD TO EXCEED MOTOR NAMEPLATE. PS2 IS SET 5 PSIG LESS THAN PS1.

|     |                           |     |                             |
|-----|---------------------------|-----|-----------------------------|
| FU  | FUSE                      | M   | CONTACTOR                   |
| PB  | PUSH BUTTON               | SV  | SOLENOID VALVE              |
| SS  | SELECTOR SWITCH           | PS  | PRESSURE SWITCH             |
| CR  | CONTROL RELAY             | Ø   | SCREW TERMINAL              |
| CPT | CONTROL POWER TRANSFORMER | ②   | NUMBER DESIGNATOR ON DEVICE |
| TS  | TEMPERATURE SWITCH        | *   | OPTIONAL                    |
| HAT | HIGH AIR TEMPERATURE      | HM  | HOURMETER                   |
| PL  | PANEL LIGHT               | <>> | QUICK CONNECT LUGS          |
| TR  | TIMING RELAY              | CT  | CURRENT TRANSFORMER         |
| OL  | OVERLOAD RELAY            |     |                             |

1) AT INSTALLATION, CUSTOMER IS TO PROVIDE DISCONNECT AND BRANCH CIRCUIT OVERLOAD PROTECTION IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND/OR ANY LOCAL CODES HAVING PRECEDENCE.



# Standard Terms and Conditions

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## Quincy Compressor and Ortman Fluid Power Divisions

**LEGAL EFFECT:** Except as expressly otherwise agreed to in writing by an authorized representative of Seller, the following terms and conditions shall apply to and form a part of this order and any additional and/or different terms of Buyer's purchase order or other form of acceptance are rejected in advance and shall not become a part of this order.

The rights of Buyer hereunder shall be neither assignable nor transferable except with the written consent of Seller.

This order may not be canceled or altered except with the written consent of Seller and upon terms which will indemnify Seller against all loss occasioned thereby. All additional costs incurred by Seller due to changes in design or specifications, modification of this order or revision of product must be paid for by Buyer.

In addition to the rights and remedies conferred upon Seller by this order, Seller shall have all rights and remedies conferred at law and in equity and shall not be required to proceed with the performance of this order if Buyer is in default in the performance of such order or of any other contract or order with seller.

**TERMS OF PAYMENT:** Unless otherwise specified in the order acknowledgment, the terms of payment shall be net cash within thirty (30) days after shipment. These terms shall apply to partial as well as complete shipments. If any proceeding be initiated by or against Buyer under any bankruptcy or insolvency law, or in the judgment of Seller the financial condition of Buyer, at the time the equipment is ready for shipment, does not justify the terms of payment specified, Seller reserves the right to require full payment in cash prior to making shipment. If such payment is not received within fifteen (15) days after notification of readiness for shipment, Seller may cancel the order as to any unshipped item and require payment of its reasonable cancellation charges.

If Buyer delays shipment, payments based on date of shipment shall become due as of the date when ready for shipment. If Buyer delays completion of manufacture, Seller may elect to require payment according to percentage of completion. Equipment held for Buyer shall be at Buyer's risk and storage charges may be applied at the discretion of Seller.

Accounts past due shall bear interest at the highest rate lawful to contract for but if there is no limit set by law, such interest shall be eighteen percent (18%). Buyer shall pay all cost and expenses, including reasonable attorney's fees, incurred in collecting the same, and no claim, except claims within Seller's warranty of material or workmanship, as stated below, will be recognized unless delivered in writing to Seller within thirty (30) days after date of shipment.

**TAXES:** All prices exclude present and future sales, use, occupation, license, excise, and other taxes in respect of manufacture, sales or delivery, all of which shall be paid by Buyer unless included in the purchase price at the proper rate or a proper exemption certificate is furnished.

**ACCEPTANCE:** All offers to purchase, quotations and contracts of sales are subject to final acceptance by an authorized representative at Seller's plant.

**DELIVERY:** Except as otherwise specified in this quotation, delivery will be F. O. B. point of shipment. In the absence of exact shipping instruction, Seller will use its discretion regarding best means of insured shipment. No liability will be accepted by Seller for so doing. All transportation charges are at Buyer's expense. Time of delivery is an estimate only and is based upon the receipt of all information and necessary approvals. The shipping schedule shall not be construed to limit seller in making commitments for materials or in fabricating articles under this order in accordance with Seller's normal and reasonable production schedules.

Seller shall in no event be liable for delays caused by fires, acts of God, strikes, labor difficulties, acts of governmental or military authorities, delays in transportation or procuring materials, or causes of any kind beyond Seller's control. No provision for liquidated damages for any cause shall apply under this order. Buyer shall accept delivery within thirty (30) days after receipt of notification of readiness for shipment. Claims for shortages will be deemed to have been waived if not made in writing within ten (10) days after the receipt of the material in respect of which any such shortage is claimed. Seller is not responsible for loss or damage in transit after having received "In Good Order" receipt from the carrier. All claims for loss or damage in transit should be made to the carrier.

# Standard Terms and Conditions

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## Quincy Compressor and Ortman Fluid Power Divisions

**TITLE & LIEN RIGHTS:** The equipment shall remain personal property, regardless of how affixed to any realty or structure. Until the price (including any notes given therefore) of the equipment has been fully paid in cash, Seller shall, in the event of Buyer's default, have the right to repossess such equipment.

**PATENT INFRINGEMENT:** If properly notified and given an opportunity to do so with friendly assistance, Seller will defend Buyer and the ultimate user of the equipment from any actual or alleged infringement of any published United States patent by the equipment or any part thereof furnished pursuant hereto (other than parts of special design, construction, or manufacture specified by and originating with Buyer), and will pay all damages and costs awarded by competent court in any suit thus defended or of which it may have had notice and opportunity to defend as aforesaid.

**STANDARD WARRANTY:** Seller warrants that products of its own manufacture will be free from defects in workmanship and materials under normal use and service for the period specified in the product instruction manual. Warranty for service parts will be ninety (90) days from date of factory shipment. Electric Motors, gasoline and diesel engines, electrical apparatus and all other accessories, components and parts not manufactured by Seller are warranted only to the extent of the original manufacturer's warranty.

Notice of the alleged defect must be given to the Seller, in writing with all identifying details including serial number, type of equipment and date of purchase within thirty (30) days of the discovery of the same during the warranty period.

Seller's sole obligation on this warranty shall be, at its option, to repair or replace or refund the purchase price of any product or part thereof which proves to be defective. If requested by Seller, such product or part thereof must be promptly returned to seller, freight prepaid, for inspection.

Seller warrants repaired or replaced parts of its own manufacture against defects in materials and workmanship under normal use and service for ninety (90) days or for the remainder of the warranty on the product being repaired.

This warranty shall not apply and Seller shall not be responsible or liable for:

- (a) Consequential, collateral or special losses or damages;
- (b) Equipment conditions caused by fair wear and tear, abnormal conditions of use, accident, neglect or misuse of equipment, improper storage or damage resulting during shipping;
- (c) Deviation from operating instructions, specifications or other special terms of sale;
- (d) Labor charges, loss or damage resulting from improper operation, maintenance or repairs made by person(s) other than Seller or Seller's authorized service station.

In no event shall Seller be liable for any claims whether arising from breach of contract or warranty or claims of negligence or negligent manufacture in excess of the purchase price.

THIS WARRANTY IS THE SOLE WARRANTY OF SELLERS AND ANY OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED IN LAW OR IMPLIED IN FACT, INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE ARE HEREBY SPECIFICALLY EXCLUDED.

**LIABILITY LIMITATIONS:** Under no circumstances shall the Seller have any liability for liquidated damages or for collateral, consequential or special damages or for loss of profits, or for actual losses or for loss of production or progress of construction, whether resulting from delays in delivery or performance, breach of warranty, negligent manufacture or otherwise.

**ENVIRONMENTAL AND OSHA REQUIREMENTS:** At the time of shipment of the equipment from the factory, Quincy Compressor / Ortman Fluid Power will comply with the various Federal, State and local laws and regulations concerning occupational health and safety and pollution. However, in the installation and operation of the equipment and other matters over which the seller has no control, the Seller assumes no responsibility for compliance with those laws and regulations, whether by the way of indemnity, warranty or otherwise.

[illegible]





Rotary/Vacuum/Systems: 251.937.5900  
Nearest Distributor: 888.424.7729  
E-mail: [info@quincycompressor.com](mailto:info@quincycompressor.com)  
Website: [www.quincycompressor.com](http://www.quincycompressor.com)



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