Airtek Smart Cycle Plus

Models SCP1200 to SCP3000

User Guide - PUB042209 REV. B

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

Parker Airtek

ENGINEERING YOUR SUCCESS.

Contents

1 Getting Started

Before unpacking/uncrating your new dryer, inspect the carton/crate for damage. Note any damage on the freight bill. File notice of concealed damage if:

(a) there are any dents in the cabinets
(b) there is any sign of oil on the skid or floor
(c) the refrigerant gauge shows NO pressure
(Upper right side – look for hole in packing)

File these claims with the carrier immediately!

Otherwise, proceed with unpacking/uncrating the unit.

1.1 Environmental & Location Considerations

Following these guidelines will help insure that your new dryer will provide safe and reliable service.

- Unless supplied for special conditions, all SCP dryers must be located indoors in an area with an ambient temperature between 41 - 100ºF (5-37.7ºC) and free from explosive and corrosive fumes. Three (3) feet (92cm) of space must be allowed between all open grills, walls, or other objects.

If the dryer is installed in a confined area, an exhaust system must be provided to eliminate re-circulation of hot atmospheric air.

- High ambient temperatures affect the outlet dew point of the dryer. For every 10º of ambient temperature over 100ºF (37.7ºC) a decrease of 10% of dryer performance is encountered with air cooled dryers. The unit must not operate in an ambient of over 115ºF (46ºC). If ambient temperature conditions are over 100ºF (37.7º), water cooled dryers are recommended.

- Unit must be installed indoors.

2. Dryer Installation

CAUTION

- NEVER work on unit under pressure
- NEVER work on unit when power is connected

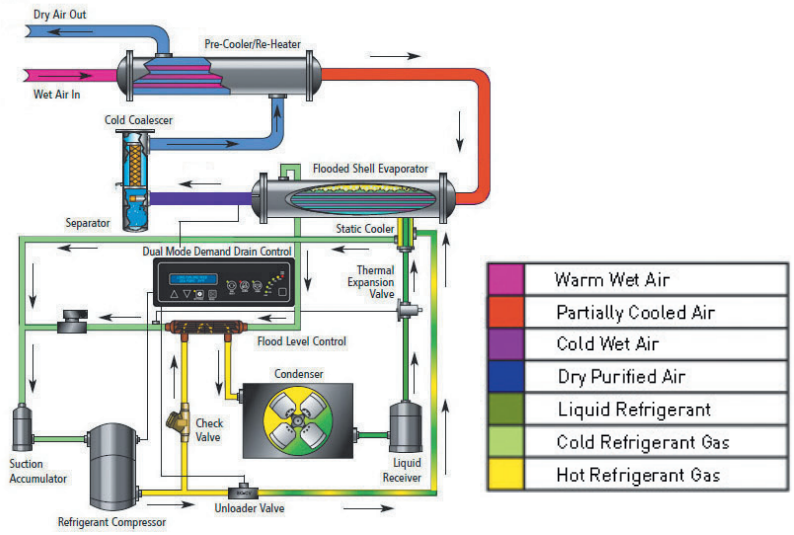
IMPORTANT

- DO NOT over pressurize unit.
- DO NOT pass air through the unit until it has been stabilized (operating about 15-20 minutes)

2.1 Plumbing the Air Lines

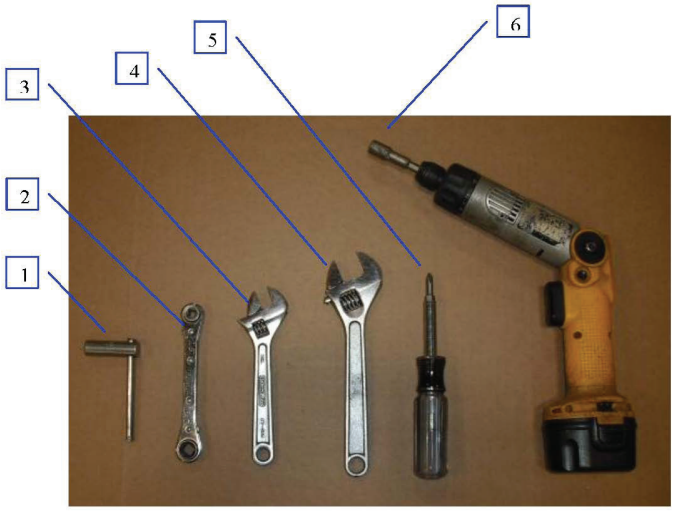
The dryers are shipped ready to run. All connections are made to the outside of the cabinet

- Air piping must be supported independently of the dryer.
- Direction of the air flow must be observed for proper installation.



- Use unions or flange joints on inlet and outlet pipe connections.
- If vibration is present, flexible metal hoses must be installed to prevent the vibration from being transmitted to the dryer.
- Install a bypass line and gate valves to permit isolation of the dryer from the air system. This is done to provide easy service and/or removal of the dryer without interruption of air to the system.

  USE TWO (2) WRENCEHS WHEN CONNECTING DRYER TO PIPING. THIS WILL PREVENT DAMAGE TO INTERNAL AIR LINES.



Recommended tools for Start-up

1. Roto-lock packing wrench (special)
2. Refridge service wrench
3. Small adjustable wrench
4. 6” adjustable wrench
5. Philips screw driver
6. Nut driver for panel removal

2.2 Electrical Connections

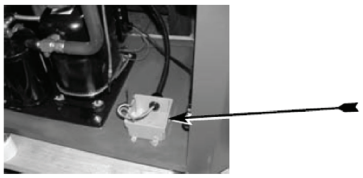
ATTENTION

To be performed by a qualified person only. Risk of serious injury or death. Before connecting electrical power to the dryer check for correct voltage and phase at the connection box. All units must be externally grounded to protect against severe electrical shock.

Service Switch (On Models SMART CYCLE PLUS 1200 to 3000)

Toggle Switch shown in the “OFF” position as shipped. Switch must remain in the “OFF” position until ALL electrical wiring has been completed.

2.3 Electrical Hook-up



Voltage	Phase	Wire Colors
115V	Single	Black, White, Green
230V	Single	Black, Red, Green
230V	3 Phase	3 Black, 1 Green
460V	3 Phase	3 Black, 1 Green
575V	3 Phase	3 Black, 1 Green

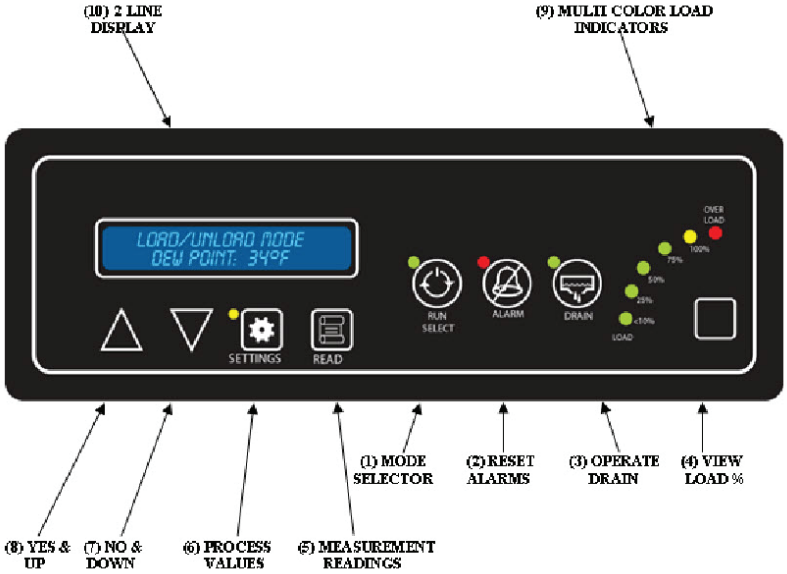
1. Remove side cover and locate electrical box.
2. Remove electric box cover from inside unit.
3. Locate the wires.
4. Locate hole on side of box, place and tighten connector, run wires through connector.
5. Using wire connectors, connect Black to Hot wire, White to Neutral and Green to Ground wire. Refer to table above for voltage and wire colors.
6. Make sure no bare wire is exposed; replace box cover and screw closed.
7. Turn Service Switch “ON”.
8. Replace side covers.

Wire the dryer separately from the air compressor. The dryer must not cycle with the air compressor.

Phase rotation is important if the dryer has a 3 phase condenser (SCP3000). Fans must pull air through condenser coil.

Crankcase heaters are pre-wired from the factory to the line side of the compressor contactor. When power is applied to the dryer, the heater will energize. Heater must be energized for 12 hours prior to start–up and after prolonged shut down. The power must be left on at all times except when servicing.

3. Controls



(1) – RUN SELECT KEY: (MODE SELECTOR)
Push Key to toggle through the four modes of operation ('AUTO' Run Mode, 'LOAD/ UNLOAD' Mode, 'CYCLING' Mode, and 'OFF'). The Display 'main screen' will indicate all modes of operation along with the current Dew Point measurement.

(2) – ALARM KEY: (RESET ALARMS)
When the ALARM Key red 'LED' is flashing, the system has experienced an alarm event. The Display will indicate all alarms when they occur. Pushing the ALARM Key will attempt to clear the fault. Note with some alarms, the system will need to be restarted.

(3) – DRAIN KEY: (OPERATE DRAIN)
When the 'DRAIN' Key is pressed, the drain solenoids will operate for the programmed time duration. (see Settings, Drains). The green LED will illuminate indicating the drains are open.

(4) – LOAD KEY: (VIEW LOAD %)
Pushing the 'LOAD' Key will toggle the Display between indicating 'Mode & Dewpoint' (standard), and, 'Percent of Load' (optionally) that the dryer is experiencing. The green LED will illuminate indicating the display option is active.

(5) – READ KEY: (MEASUREMENT READINGS)
The 'READ' Key will scroll through each system measurement.

(6) – SETTINGS KEY: (PROCESS VALUES)
The 'SETTINGS' Key will scroll through each user setting (process value). The amber LED will illuminate indicating the display is active.

(7) – YES / UP KEY: (YES & UP)
When the 'YES / UP' Key is pressed, the controller will either increment up or toggle depending on which user setting is selected in the 'SETTINGS menu. Note the SETTINGS Key amber LED will now flash. To save the 'new' process value setting, press the SETTINGS Key again – a message 'ARE YOU SURE?' will display (answer either YES or NO, the LED will stop flashing.

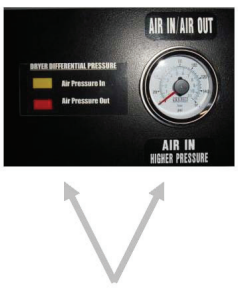
(8) – NO / DOWN KEY: (NO & DOWN)
When the 'NO / DOWN' Key is pressed, the controller will either decrement up or toggle depending on which user setting is selected in the 'SETTINGS menu. Note the SETTINGS Key amber LED will now flash. To save the 'new' process value setting, press the SETTINGS Key again – a message 'ARE YOU SURE?' will display (answer either YES or NO, the LED will stop flashing.

(9) – MULTI COLORS INDICATOR:
These LED's will illuminate in RED, AMBER and GREEN. They represent a 'visual' indication as to dryer loading. If all the LED's are RED, this is the worst possible state (a combination of very bad dew point and or overloaded. The other side of the spectrum would be only one GREEN LED illuminated; indicating less then (<10%) ten percent capacity is being utilized and all is OK.

(10) – MAINTENANCE MONITOR:
The controller will remind the user to perform maintenance on the dryer every six month. The Display will indicate (and the ALARM LED will flash), the statement "CHANGE FILTER." IMPORTANT – The user should change the coalescing filter on a regular basis. Also do all other recommended maintenance (see maintenance section of the Operating Manual) at this time.

To reset the 'Maintenance Monitor' at the completion of the maintenance procedures, push the ALARM Key and when the "HAS FILTER BEEN CHANGED? (YES / NO)" message is in the Display, press the 'YES' Key. Pressing the YES Key will reset the Change Filter timing for six months. Selecting the 'NO' key will exit the menu and the message will repair again in 8 hours.

OTHER FEATURES:
On 'power-up' the Display will indicate the system configuration (System Operating Code #, CFM Range and Firmware Revision) for three seconds.



Dual Pressure Gauge

11

(11) Air Inlet & Outlet PSI Gauges. Indicates that unit is pressurized. Unit MUST be depressurized and bypassed before any service work is done on air system. Excessive pressure drop (more than 5 PSIG) across dryer indicates water may be freezing in the evaporator.

3.1 DP5550 Displays

Power On Screen – Displayed for 3 seconds after power-on or reset

```
[4] 1500-3000 CFM

1.0.4.9x/Dec  1 2009
```

Model and Size
Firmware Rev/Date

Main Display - System OFF

```
      SYSTEM OFF

   Press Run Select
```

Main Display - System Running, No Alarms
Press the RUN SELECT key to cycle thru the operating modes

```
    AUTO MODE (L)

    DEW POINT:36°F
```

Operating Mode
Operating Dew Point

Operating Modes
"SYSTEM OFF"
"AUTO MODE (L)" (L) = load/Unload Mode,
(C) = Cycling Mode
"LOAD/UNLOAD MODE"
"CYCLING MODE"

Main Display - System Running, with Warning Alarms

```
   HIGH INLET TEMP

    DEW POINT:36°F
```

Alarm Description(s)
Operating Dew Point

Warning Alarms
"HIGH DEW POINT"
"DRAIN FAULT"
"HIGH CONDENSER TEMP."
"HIGH INLET TEMP"
"HIGH DIFF PRESSURE"
"BAD SENSOR WARNING"
"CHANGE FILTER"

Note: if more than one alarm condition exists, then the top line of the display will automatically cycle thru all active alarms.

Main Display - System Shutdown Due To Critical Alarm

```
HIGH DISCHARGE PRES.

   Alarm Shutdown
```

Alarm Description
Shutdown status

Critical Alarms

- “DRYER OVERLOAD”
- “BAD SENSOR SHUTDOWN”
- “LOW SUCTION PRESSURE”
- “HIGH DISCHARGE PRES.”
- “HIGH SUPERHEAT”
- “EVAPORATOR FROZEN”
- “EMERGENCY STOP”
- “BAD PUMPDOWN”
- “SYSTEM FAULT”

Press the ALARM key to reset all alarms

```
   AUTO MODE (L)

   Alarm Shutdown
```

Press the RUN SELECT key to restart the dryer after an alarm

Note: if more than one alarm condition exists, then the top line of the display will automatically cycle thru all active alarms.

Read System Parameters

Press the READ key to cycle thru the system parameter values

```
      Dew point

        36°F
```

Parameter Description
Parameter Value

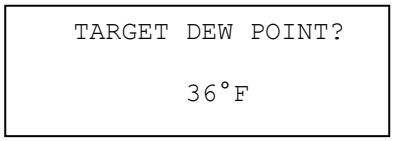
Dew Point Temp.	0 thru 200°F
Superheat Temp.	0 thru 100°F
Suction Temperature	0 thru 200°F
Suction Pressure	0 thru 600 psi
Discharge Pressure	0 thru 600 psi

Inlet Temperature	0 thru 200°F
Condenser Temperature	0 thru 200°F

Note: The parameter value will display “FAULT!” if the sensor input is invalid

Settings Menu - User Settings

Press the SETTINGS key to cycle thru the user settings

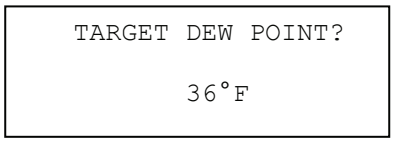


Setting Description

User Settings

	Default	Settings
TARGET DEW POINT?	38 oF	36 thru 50 °F
DRAIN DURATION?	2 secs	1 thru 30 seconds
DRAIN CYCLE?	60 mins	0 thru 60 minutes
MAX CONDENSER TEMP?	100°F	0 thru 125°F
MAX INLET TEMP?	101°F	0 thru 125°F
TEMPERATURE UNITS?	°F	°F, °C
PRESSURE UNITS?	psi	psi, kPa, bars
NETWORK ADDRESS?	1	1 thru 247

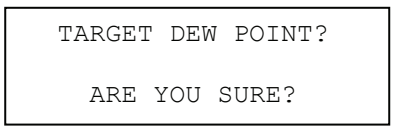
Changing the User Settings



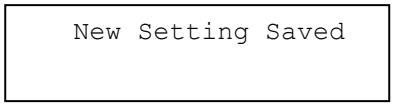
Setting Description

Use the UP and DOWN keys to change the setting

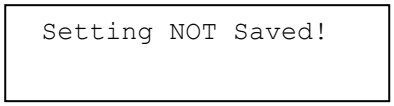
Press the SETTINGS key when finished



Select YES or NO to confirm



YES selected, store setting



NO selected, restore previous setting

Load Display

Press the LOAD key to display the dryer load percentage

```
Dryer Load

67%
```

Clearing the Maintenance Timer

Press the ALARM RESET key to reset the maintenance timer and alarm

```
HAS FILTER BEEN

REPLACED? (YES/NO)
```

Press YES to reset the timer to 6 months (after maintenance has been performed)
Press NO to reset the timer to 8 hours (until maintenance has been performed)

4. Start-Up Procedure

CAUTION

There should be NO air flow through the dryer before or during start-up. It is recommened that the dryer be installed with bypass piping to better service the unit.

4.1 Smart Cycle Plus 1200 – 3000

1. After electrical connection (Refer to Section 3), apply power.
2. After power has been applied the control panel should say “OFF” and the crankcase heater will now start heating. THE CRANKCASE HEATER MUST BE SWITCHED ON 12 HOURS BEFORE STARTING THE DRYER. Failure to comply with this rule may cause serious damage to the compressor.
3. Remove side panel from unit.
4. Some units are shipped with the refrigeration service valve tagged. These tagged service valves must not be opened until the dryer is ready to be started and the main power is permanently applied. Only tagged service valves must be opened.
5. Locate tagged service valves and remove end cap from valve stem. (Fig. 3 below)

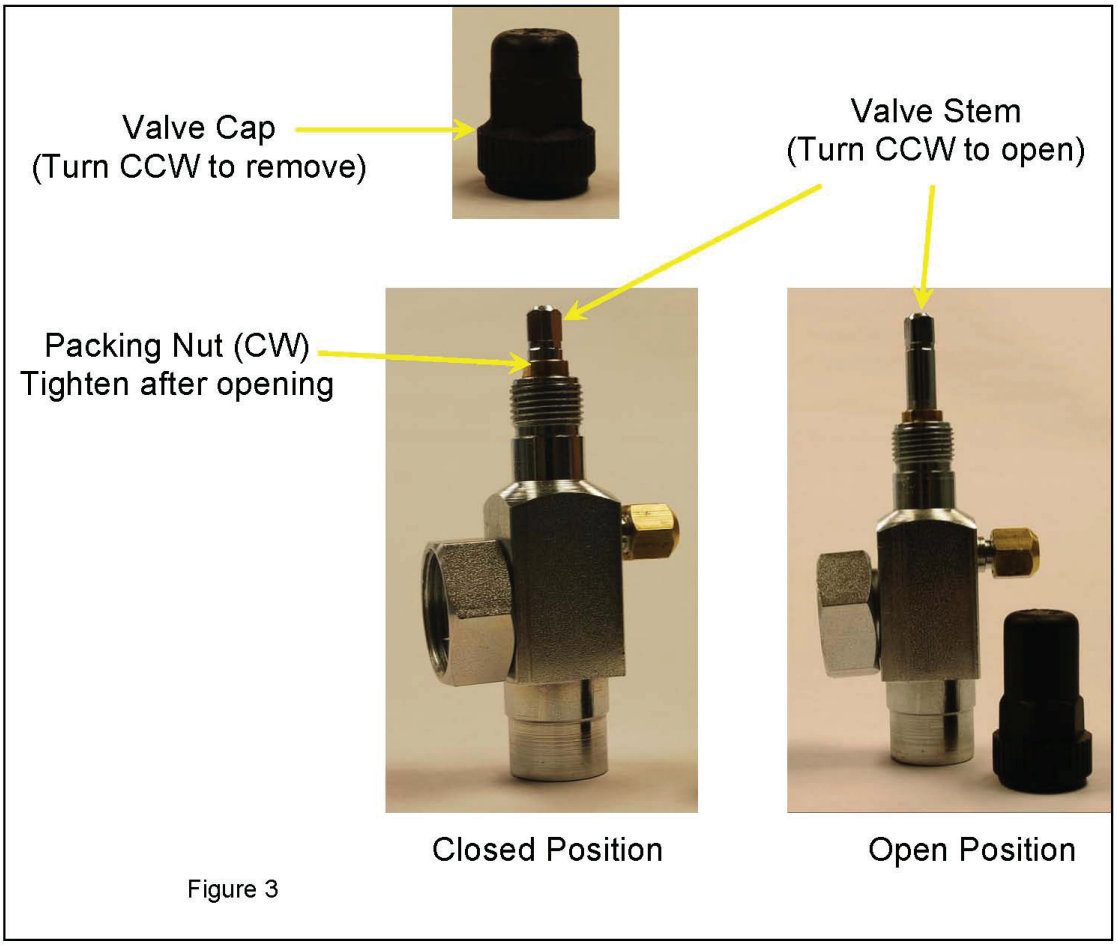


Figure 3

6. Using a refrigeration service or small crescent wrench, turn the valve stem counterclockwise until it stops. Occasionally, it may be necessary to re-tighten the packing nut (turn clockwise) if a leak is noticed. The valve will now be fully opened. (Fig. 3)

7. Replace cap.

8. Once the crankcase heater has been pre-heated, pressure the RUN SELECT button on the control panel to start the dryer.

9. If the storage conditions were adverse (for example very cooled) the refrigeration compressor may make a loud metallic hammering noise. If this happens, turn the dryer off at the panel and wait 60 seconds. Then turn the dryer back on. Repeat this procedure until the refrigeration compressor runs smoothly. The dewpoint should start to drop towards the set point.

IMPORTANT

Do not pass air through the dryer until it is stabilized.
(Unit cycles 2 – 3 times)

10. With the dryer turned on from the control panel, and is stabilized, you can now introduce compressed air to the dryer.

11. Check the automatic drain for proper operation. Drain should open at regular intervals based on the drain control settings.

IMPORTANT

Clean Y-Strainer on drains after the first 4 hours of operation. (See Section 5.0, Fig. 4)

12. Restart dryer using this procedure after maintenance, power outage or prolonged periods of shutdown.

ATTENTION

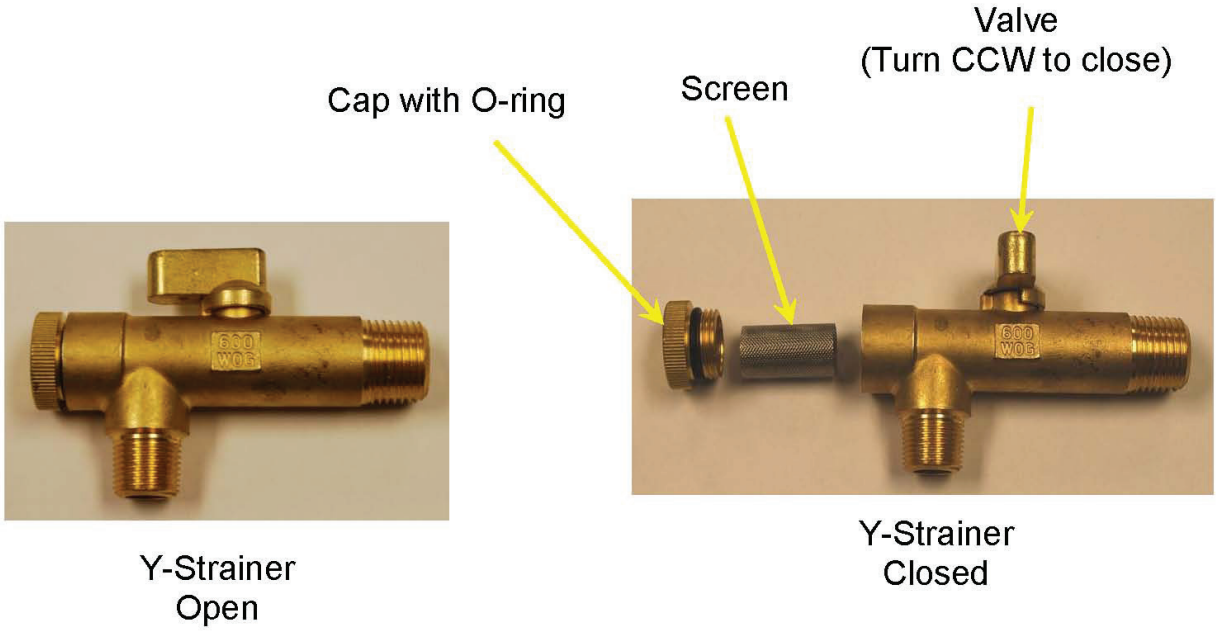
4.2 When Operating Dryer

1. Turn dryer On and Off at control panel only.
2. Keep power to unit at all times except when servicing.
3. Start dryer prior to allowing air flow through unit.
4. Clean condenser when necessary.
5. Maintain ambient temperature between 41-100ºF (5-37.7ºC)
6. Keep inlet temperature under 101ºF (38ºC)
7. Check and clean Y-strainer regularly.
8. NEVER allow dryer to cycle ON/OFF with air compressor.

5. Routine Maintenance

The air cooled condenser must be kept clean. Inspect on a regular basis for dirt or debris that might accumulate. Remove any debris immediately.

It is recommended that the drain and solenoid be checked weekly for proper functioning. The Y-strainer should be checked and screen cleaned monthly. (Fig. 4)



ATTENTION

It is not advisable to tamper with the other adjustments unless you are familiar with refrigeration. The controls interact with each other and, although the effect of an adjustment may not be immediately obvious, it will affect the dryer's performance.

CHARGE LIQUID REFRIGERANT ONLY, DO NOT CHARGE WITH VAPOR!

CAUTION

- See tag for correct refrigerant charge.
- Unit needs to be pulled into vacuum 500 micron (minimum)
- The full charge might not be accepted. If this occurs, the unit can be started and then the remainder of the charge should be slowly metered into the suction side (Suction side is always the inlet to compressor side).

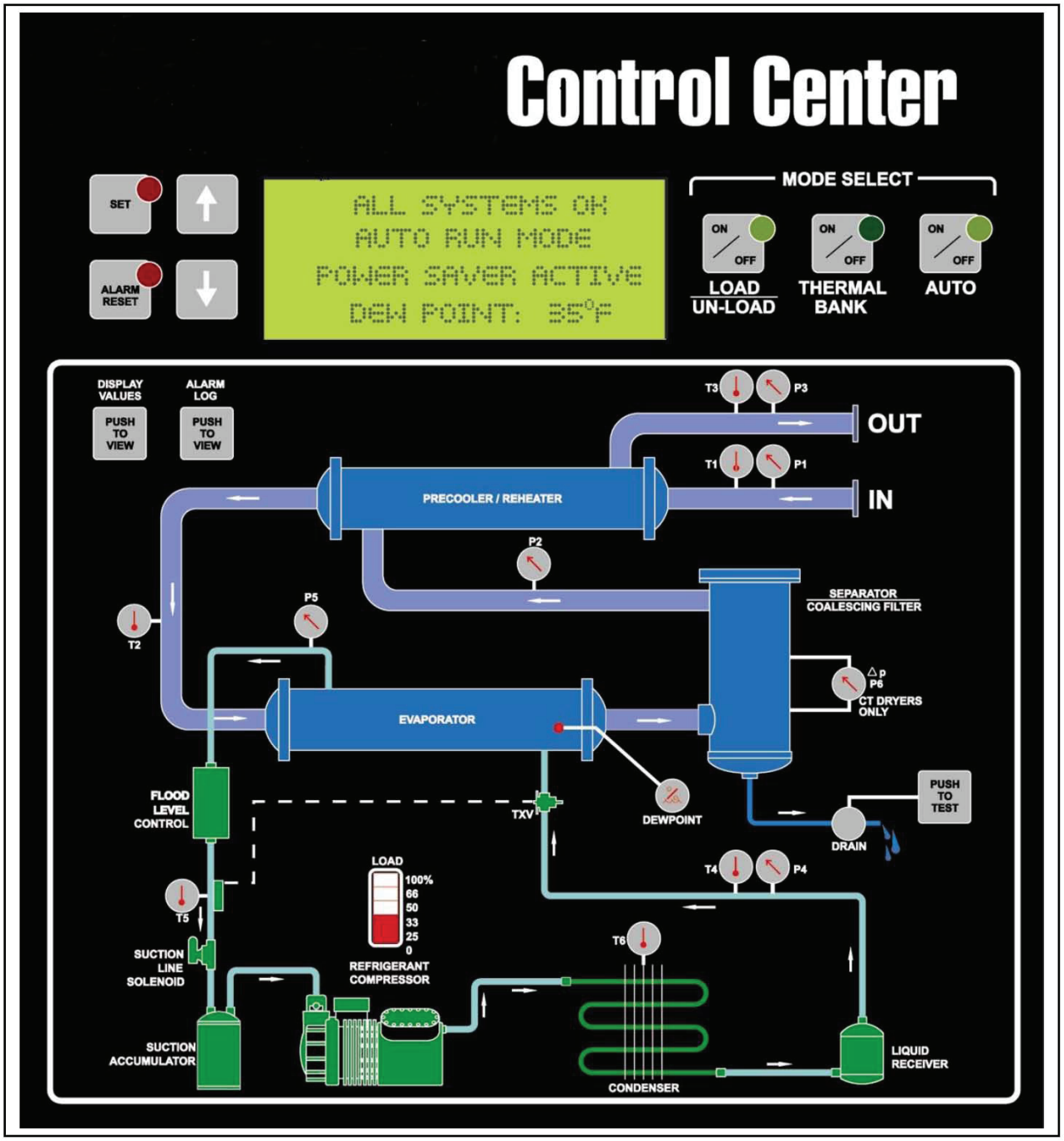
6. Diagnostic Codes & Troubleshooting

ALARM	CODE	CONDITION	TIMEOUT	SHUT-DOWN	RESET
HIGH DEW POINT	11	Actual dew-point is 15ºF above the target setting	2 seconds	No	Auto
DRYER OVERLOAD	12	Dew Point > Set Point +40ºF	10 minutes	YES	MANUAL
BAD SENSOR SHUT-DOWN	13	Dew Point, Suction Temp, Suction Pressure, or Discharge Pressure is reading out of range	2 seconds	YES	MANUAL
LOW PRESSURE	14	Suction PSI < Set point during compressor on	5 seconds	YES	MANUAL
HIGH PRESSURE	15	Discharge Pressure > High Setting, or Switch is open while compressor is on	1 Seconds	YES	MANUAL
HIGH SUPERHEAT! (Semi-Hermetic)	16	Compressor is running. Superheat Calculation is >40ºF and Suction temperature >75ºF	40 minutes	no	Auto
HIGH SUPERHEAT! (Hermetic)	16	Compressor is running. Superheat Calculation is >40ºF and Suction temperature >75ºF	40 minutes	YES	MANUAL
DRAIN FAULT	17	Drain switch is closed for too long	See Note 1	No	Auto
FROZEN EVAP!	18	Dew-Point <= 20ºF	10 minutes	YES	MANUAL
HIGH CONDENSER TEMP	21	Ambient/Water temperature is higher than setting	60 seconds	No	Auto
HIGH INLET TEMP	22	Inlet temperature is higher than setting	60 seconds	No	Auto
HIGH DIFFERENTIAL PRESSURE SWITCH	23	Input from PSID switch is closed	2 seconds	No	Auto
EMERGENCY STOP	24	E-Stop switch is opened or internal fuse is blown	2 seconds	YES	MANUAL
BAD PUMP DOWN	25	Pressure switch remains open for 1 minute after shutdown, or cycles more than 8 times per hour	1 hour (see description)	YES	MANUAL
BAD SENSOR WARNING	26	Inlet, or Condener temperature is reading out of range	2 seconds	No	Auto
NON-RECOVERABLE SYSTEM FAULT	27	Dryer is not configured or configuration has been corrupted	1 Seconds	YES	MANUAL
CHANGE FILTER	28	Timer has timed out	6 months or 8 hours	No	MANUAL

Note 1 - Timeout is Drain Duration setting +10 seconds

ALARM	FAULT-CODE	CAUSE	REMEDY
HIGH DEW POINT	11	1) Thermal load is too high. 2) Condenser is dirty.	1) Reduce compressed air quantity and/or inlet temperature. 2) Clean condenser.
DRYER OVERLOAD	12	1) Thermal load is too high. 2) Unloader valve not closing. (Temperature on the copper lines of each side of the valve will be equal) 3) Compressor will not start, no hum. 4) Compressor will not start, hums but trips overload.	1) Reduce compressed air quantity and/or inlet temperature. 2) Replace valve internals (Repair Kit). 3) Check for: Service switch in OFF position, loose or improper wiring, overload tripped, bad starter. 4) Check for: Loose or improper wiring or voltage, overload tripped, bad starter or compressor failure.
BAD SENSOR SHUTDOWN (Dewpoint, Suction Temp, Discharge psi or Suction psi)	13	1) Sensor connection is loose or disconnected. 2) Sensor is defective.	1) Identify which sensor (scroll thru control panel readings to find faulty sensor) & tighten connections. 2) Identify which sensor (scroll thru control panel readings to find faulty sensor) & replace.
LOW PRESSURE	14	1) Refrigerant leak. 2) Low pressure switch defective. 3) Suction line solenoid not opening. 4) Liquid line solenoid not opening.	1) Locate leak. Repair and recharge. 2) Replace. 3) Replace valve internals (Repair Kit) or coil. 4) Replace valve internals (Repair Kit) or coil.
HIGH PRESSURE	15	1) Condenser dirty / blocked. 2) Fan pressure switch defective. 3) Fan motor defective. 4) Ambient temperature too high. 5) High pressure switch defective. 6) Low water flow. 7) Water valve defective. 8) Liquid line valve or coil defective.	1) Clean condenser. 2) Replace. 3) Replace motor. 4) Improve room ventilation. 5) Replace. 6) Fix water supply. 7) Replace. 8) Replace valve internals (Repair Kit) or coil.
HIGH SUPERHEAT	16	1) Refrigerant leak. 2) Defective superheat probe. 3) Poor contact of superheat probe. 4) Faulty expansion valve.	1) Locate leak. Repair and recharge. 2) Replace. 3) Tighten probe to refrigerant line. 4) Replace.
DRAIN FAULT	17	1) Valve strainer clogged. 2) Drain valve clogged. 3) Solenoid defective. 4) Level sensor defective.	1) Clean. 2) Dis-assemble and clean. 3) Replace. 4) Replace.
FROZEN EVAP!	18	1) Unloader valve not opening. Defective valve or coil.	1) Replace valve internals (Repair Kit) or coil.
HIGH CONDENSER TEMP	21	1) Ambient too high.	1) Improve room ventilation.
HIGH INLET TEMP	22	1) Inlet air temperature too high.	1) Clean air compressor aftercooler and or improve room ventilation.
HIGH DIFFERENTIAL PSI	23	1) Coalescing filter is dirty. 2) Excessive compressed air flow.	1) Change filter (see serial sticker for part #). 2) Reduce flow.
EMERGENCY STOP	24	1) E-stop switch is opened. 2) Internal fuse blown. 3) E-stop jumper is disconnected.	1) Close switch. 2) Replace. 3) Replace.
BAD PUMP DOWN	25	1) Suction valve not fully closing. 2) Unloader valve stuck open. 3) Compressor is defective.	1) Replace valve internals (Repair Kit). 2) Replace valve internals (Repair Kit). 3) Replace.
BAD SENSOR WARNING	26	1) Sensor connection is loose or disconnected. 2) A sensor is defective.	1) Check/tighten connections. 2) Identify which sensor & replace.
NON-RECOVERABLE SYSTEM FAULT	27	1) Not programmed properly.	1) Consult factory for settings and programming instructions.
CHANGE FILTER	28	1) Filter is dirty.	1) Check and replace if necessary (see serial sticker for filter part #).

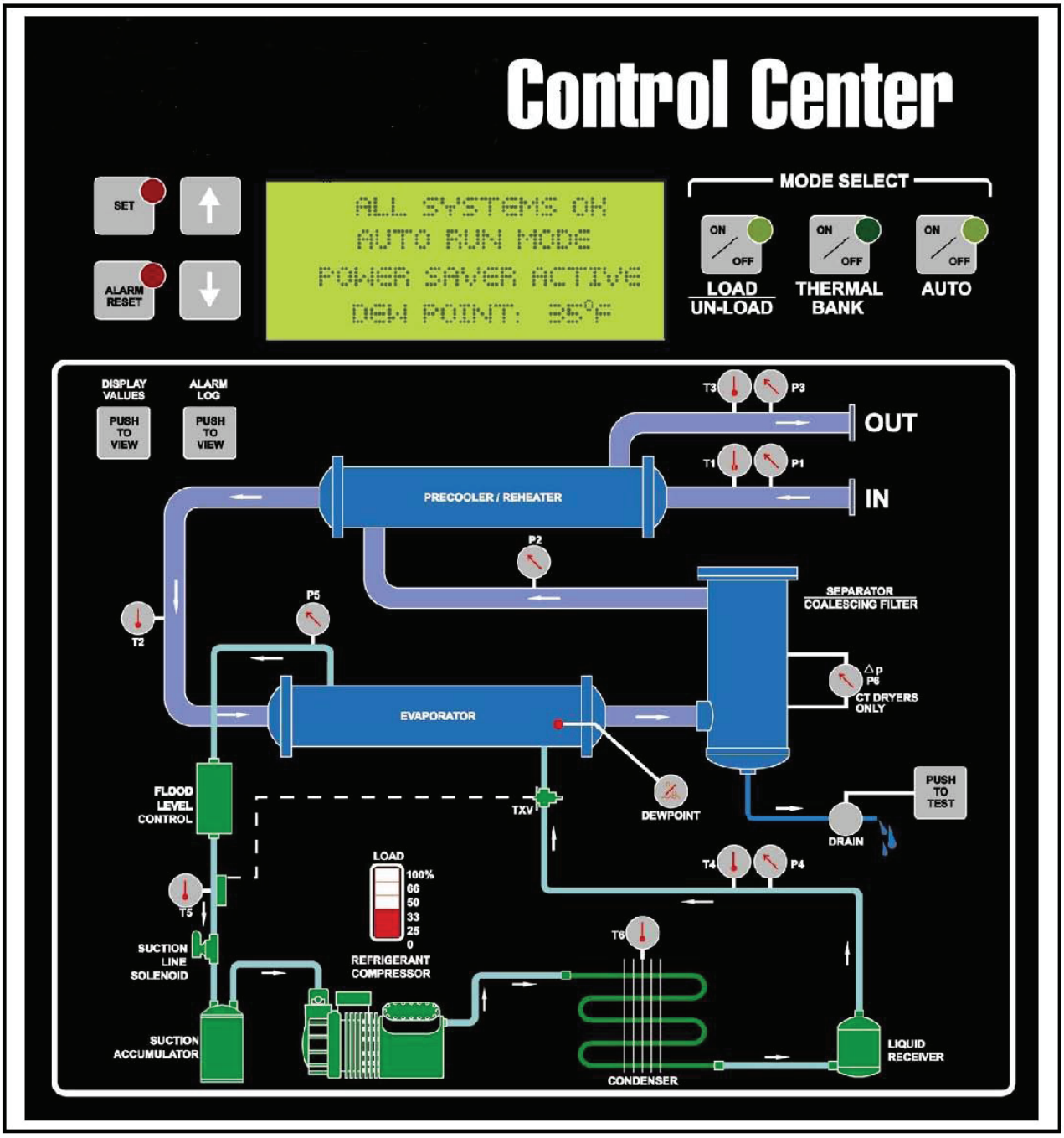
7. Optional Control Center



PREFACE:

This document is intended to make familiar, the Control Center functionality. The “manual”, can serve as a handy guide to quickly move through the operations of the dryer it is controlling. It is not intended to replace the more comprehensive, specific “dryer manual” that will show all other aspects of operation and safety. It is IMPORTANT that both manuals be referenced for complete dryer understanding.

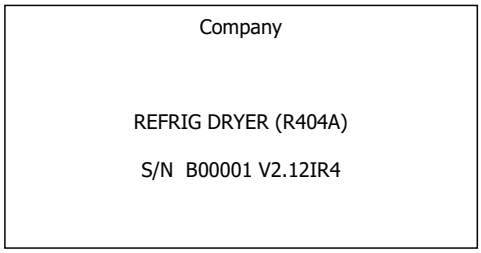
MENU TREE



1.	Up Arrow	Scroll Menu Up or Increment Value
2.	Down Arrow	Scroll Menu Down or Decrement Value
3.	Set	Enter Menu Selection, Enter Program Mode or Save to Memory
4.	Reset Alarm	Back-up Menu Level or Clear ‘Resetable’ Alarm
5.	Load/Un-Load	Load/Un-Load Mode Selector
6.	Thermal Bank	Thermal Bank Mode Selector
7.	Auto Run	Auto Mode Selector – Automatically Sequences to Demand (#5 or #6)
8.	Drain Test	Operates Both Drain System for Programmed Duration
9.	Display Values	Enters Sensor Menus – Indicates Current Values (Series ‘K’ Screens)
10.	Review Alarm Log	Enters Historical Log of Alarm Event (Series ‘J’ Screens)

a. STARTUP NULL SCREEN----------

Upon initialization, the display shows the “type” of dryer the Control Center is configured to control. An example:



This is a fixed configuration. Once assigned to a dryer: the Control Center will never be changed to any of the other configurations. Note that the Control Center Serial Number, Refrigerant Type and Firmware Version are also displayed on the null, initialization screen.

PRE-SETUP

Prior to starting up the dryer, the DISPLAY VALUES button may be selected to view groupings of sensors (use the up/down arrows to scroll through the list) Depress the Display Values button a second time, or the Alarm RESET button to return to the Main Screen. Also, all of the other screens and menus can be viewed by using the up/down arrows. Simply position any particular menu choice into view and advance a menu level by depressing the SET button. Returning to the Main Screen can be achieved at any time by depressing the Alarm RESET button. These screens may be viewed at any time, and at any state of operation.

The Main Screen of the Fan Inactive System prior to start-up (run mode) is the NULL Screen above, when returning to the Main Screen from viewing any of the above Pre-Startup procedures.

STARTUP

TO START the dryer, select any of three main operating modes by depressing their button.

- AUTO Mode (normal operations) dryer will automatically sequence between the Load/Un-Load and Thermal Bank modes as required by demand.
- LOAD/UN-LOAD Mode (cycling operation), or
- THERMAL BANK Mode (cycling operation including compressor including OFF).

CHANGING MODES

The dryer can change modes of operation by simply depressing the any desired mode button. To return the dryer to an INACTIVE (SYSTEM OFF-STANDBY) state, depress, the “current mode” button as is indicated by the Mode Pilot indicator (LED).

b. MAIN SCREEN----------

DISPLAY ORIENTATION

There are several informational indications displayed on the Main Screen. They are displayed on the four lines of the LCD.

1. The first line is the “message” line. If all is normal, this line will indicate ALL SYSTEMS OK, or else it will indicate an alarm; for example, HIGH DEWPOINT. If more than one alarm is active, this message line will “scroll” between any and all messages.

2. The second line is the “mode” line. This line will indicate the dryers operations:
   - SYSTEM INACTIVE (NULL),
   - EMERGENCY STOP,
   - AUTO RUN MODE
   - LOAD/UN-LOAD MODE,
   - THERMAL BANK MODE,
   - SYSTEM OFF, and
   - ALARM SHUT DOWN

3. The third line is the “process” line. INITIALIZING, POWERSAVE ACTIVE or may be blank for all other normal operations.

4. The forth line is dedicated to the current DEWPOINT value.

TYPICAL SCREEN DISPLAYS----------

Below is a sampling of typical display screens; showing some of the possible system operations.

ALL SYSTEMS OK AUTO RUN MODE POWERSAVE ACTIVE DEWPOINT 34ºF (1ºC)	MOTOR OVERLOAD ALARM SHUTDOWN DEWPOINT 39ºF (4ºC)
ALL SYSTEMS OK SYSTEMS OFF DEWPOINT 65ºF (18ºC)	COMPRESSOR WILL CONTINUE TO RUN UNTIL RUMPDOWN IS COMPLETE

STARWATCH ACTIVE AUTO RUN MODE
DEWPOINT 33ºF (0ºC)

c. EVENT----------

EMERGENY STOP At any time the dryer's E-STOP pushbutton is depressed, the dryer will immediately "stop" operations (all output will be de-energized except for COMMON ALARM dry output relay and MODEN relay). To restart the dryer, the flashing mode (AUTO RUN, LOAD/UNLOAD or THERMAL BANK) selector must be re-selected. Note – the E-STOP pushbutton must be rotated and pulled "out" to its normal position before the re-start can be invoked.

ACTIVE ALARMS EMERGENCY STOP! DEWPOINT 35ºF (2ºC)

ALARM SHUT DOWN When a "shut-down" alarm occurs, the dryer will "stop operating and will require a Manual Reset (see VIEW ALARMS section). Once the alarm has been reset and if the alarm condition has been cleared, the system may be re-started. The current mode LED will be flashing. When the mode selector button is depressed, the system will restart and LED will stop flashing and remain illuminated.

LOW FREON/OIL PSI ALARM SHUT DOWN DEWPOINT 35ºF (2ºC)

IMPORTANT

All screens from section (d.) forward to the end of this manual are indicated with an alphanumeric indication in the upper left corner of the display as a screen ID. The CONTR

d. REVIEW ALARM LOG ("J" Series Menus)----------

When the Review Alarm Log pushbutton is depressed, the "J" series screens will be displayed. Each "J" screen shows the status of a possible alarm. The UP/DOWN arrow will allow scrolling through 16 different alarm conditions. The number appearing next the "DAYS SINCE LAST", indicated the last time that the alarms condition has occurred. A zero (0) indicates the current date. For example, 365 would indicate exactly one year since the occurrence of any particular alarm. If "---" is indicated, that means the selected alarm has never happened.

All screens from section (d.) forward to the end of this manual are indicated with an alphanumeric indication in the upper left corner of the display as a screen ID. The CONTROL CENTER will display these ID's as any given screen is selected within the menu tree. Please make note of any particular screen ID when communicating with a support representatives, which may be in question.

When an alarm is tripped, the "COMMON ALARM RELAY" (K16) will energize if the "ALARM OUT" is ENABLED.

There is a form "C" dry contact available for the user on K16 (see schematic). To "DISABLE" the ALARM OUT from energizing the Common Alarm relay, use the SET and UP/DOWN arrow buttons to disable any given alarm. All alarms are factory default to "ENABLED". The used can program anyone, any combination, or all alarms to activate the Common Alarm relay.

J1 ALARM LOG
HIGH DEWPOINT
DAYS SINCE LAST: 1
ALARM OUT: YES

J2 ALARM LOG
LOW FLOW
DAYS SINCE LAST: 25
ALARM OUT: YES

J3 ALARM LOG
DP PROBE DEFAULT
DAYS SINCE LAST: 365
ALARM OUT: YES

J4 ALARM LOG
MOTOR OVERLOAD
DAYS SINCE LAST: ---
ALARM OUT: YES

J5 ALARM LOG
E3: HI SUPERHEAT
DAYS SINCE LAST: ---
ALARM OUT: YES

J6 ALARM LOG
E4: DRYER OVERLOAD
DAYS SINCE LAST: ---
ALARM OUT: YES

J7 ALARM LOG
E5: LOW PRESSURE
DAYS SINCE LAST: ---
ALARM OUT: YES

J8 ALARM LOG
E6: LOW PRESSURE
DAYS SINCE LAST: 0
ALARM OUT: YES

LOW REFRIGERANT/OIL PRESSURE
NOTE IF MULTIPLE COMPRESSORS – SEE ACTIVE ALARMS

J9 ALARM LOG
E7: HIGH PRESSURE
DAYS SINCE LAST: ---
ALARM OUT: YES

HIGH REFRIGERANT PRESSURE

J11 ALARM LOG
W2: HIGH AIR-IN PSI
DAYS SINCE LAST: ---
ALARM OUT: ENABLED

COALESCER ELEMENT DIFFERENTIAL PRESSURE

J12 ALARM LOG
W3: CHANGE FILTER
DAYS SINCE LAST: ---
ALARM OUT: YES

J13 ALARM LOG
W4: HIGH AIR-IN ºF
DAYS SINCE LAST: ---
ALARM OUT: YES

J14 ALARM LOG
W5: HIGH AMBIENT/H2O
DAYS SINCE LAST: ---
ALARM OUT: YES

J15 ALARM LOG
E9: DRAIN FAULT
DAYS SINCE LAST: ---
ALARM OUT: YES

J16 ALARM LOG
MODEM FAULT
DAYS SINCE LAST: 1
ALARM OUT: YES

E. DISPLAY SENSOR VALUES ("K" Series Meus)----------

The DISPLAY VALUE pushbutton is a quick way to view groupings of sensor values. The UP/DOWN arrows will scroll through the 7 possible groups of the "K" series screen.

K1 Superheat 12ºF
T4: Refrig 130ºF
P4: Discharge 100 psi
P5: Suction 96 psi

R TYPE: R404A
K2 Superheat 12ºF
T5: Suction 100ºF
P5: Suction 100 psi

K3	Dewpoint	33ºF
	T1: Inlet	100ºF
	P1: Inlet	100 psi
	T6: Ambient/H2O of	54ºF

NOTE IF NOT “OK” = CHANGE FILTER WILL BE INDICATED

K4		
	P1: Inlet	100 psi
	P1: Outlet	98 psi
	P6: Filter Element	OK

K5		
	T1: Inlet	100ºF
	T3: Outlet	90ºF

K6		
	T6: Ambient/H2O of	67ºF
	P4: Discharge	250 psi
	-Flow	10000 scfm

K7	T1: Inlet	100ºF
	T3: Outlet	90ºF
	PI: Inlet	100 psi
	P3: Outlet	98 psi

K8		
	Auxiliary #1	DISABLED
	Auxiliary #2	75
	Flow	DISABLED

CUSTOM ENGINEERED UNITS

K9	Power:	10.4 Kw
	Current:	12.4 A
	Speed:	13000 RPM
	Frequency:	45 Hz

NOTE Auto-Sequence “Time” can be selected between 1 & 72 hours. (See Compressor Menu’s R1 – R5 to ENABLE or DISABLE by pressing the SET.

K10	COMPRESSORS	
	Timer:	23:59 h:m
	C1: STNDBY	C2: ONLINE
	C3: ONLINE	C4: DISABL

FLOW METER:

All Control Center’s come standard with flow sensor input capabilities. Simply “hook-up” a 4-20mA loop, or a 1 to 5 volt signal to the appropriate flow input (see schematic/wiring diagram)and activate the FLOW ENABLE in the SETUP screens. The loop may be powered by the Control Center or powered externally. The FLOW measurement is displayed in the “K6” screen only if enabled. Refer to schematic for configuring panel to “current/voltage” only if enabled. Call support for details or questions.

1. DEW POINT MENU----------

DEWPOINT
MENU

Press SET to Select

DEWPOINT – The dryer will attempt to deliver a dew point relative to the DEWPOINT SET POINT value. The range for this setting can be selected between 34ºF (1ºC) to 50ºF (10ºC). When the dew point indicated is at the set point value or less, the panel LCD display will give a message: POWERSAVE ACTIVE

D1 DEWPOINT

Value: 36ºF
Set Point: 34ºF

2. SETUP MENU----------

Screen series: "E", "F", "G", "R" and "I" are within the set-up selections.

SETUP
MENU

Press SET to Select

E2 PRODUCT INFORMATION

Press SET to select

E2 CT (404A)
REFRIG AIR DRYER
Serial # B00000
Firmware Rev. 2.38

E3 COMMUNICATIONS
MENU

Press SET to Select

E4 DRAIN SETUP
MENU

Press SET to select

E5

CALIBRATION
MENU

E6 ALARM REPORTING MENU

M1	ALARM #1	
	HIGH DEWPOINT	
RELAY	PAGER	REMOTE
Yes	N/A	N/A

M4	ALARM #2	
	FLOW/AUX	
RELAY	PAGER	REMOTE
Yes	N/A	N/A

M7	ALARM #3	
	DP PROBE FAULT	
RELAY	PAGER	REMOTE
Yes	N/A	N/A

M10	ALARM #4	
	MOTOR FAULT	
RELAY	PAGER	REMOTE
Yes	N/A	N/A

M13	ALARM #1	
	E3: HI SUPERHEAT	
RELAY	PAGER	REMOTE
Yes	N/A	N/A

M16	ALARM #6	
	E4: LOW DP/PUMPDOWN	
RELAY	PAGER	REMOTE
Yes	N/A	N/A

M19	ALARM #7	
	E5: DRYER OVERLOAD	
RELAY	PAGER	REMOTE
Yes	N/A	N/A

M22	ALARM #8	
	E6: LOW PRESSURE	
RELAY	PAGER	REMOTE
Yes	N/A	N/A

M25	ALARM #9	
E7: HIGH(REFRIG)PRESSURE		
RELAY	PAGER	REMOTE
Yes	N/A	N/A

M28	ALARM #10	
W1 : LOW AIR-IN PSI		
RELAY	PAGER	REMOTE
Yes	N/A	N/A

M31	ALARM #11	
W2: HIGH AIR-IN PSI		
RELAY	PAGER	REMOTE
Yes	N/A	N/A

M34	ALARM #12	
W3: CHANGE FILTER		
RELAY	PAGER	REMOTE
Yes	N/A	N/A

M37	ALARM #13
W4: HIGH AIR-IN °F	

M40	ALARM #14	
W5: HIGH AMBIENT/H20		
RELAY	PAGER	REMOTE
Yes	N/A	N/A

M43	ALARM #15	
E9: DRAIN FAULT		
RELAY	PAGER	REMOTE
Yes	N/A	N/A

M46	ALARM #16	
MODEM FAULT		
RELAY	PAGER	REMOTE
Yes	N/A	N/A

CALIBRATION MENU. Each of the transducers in the system has their ranges set in the “H” series screens. It is important that the value indicated in the screens match the maximum range of the transducer span. If while servicing the dryer, and a different ranged transducer is replacing a factory installed transducer, make certain a corrected value for maximum range is entered in the appropriate screen.

H1	ENGLISH / METRIC
SELECT UNITS: (ENGLISH)	

H2 METRIC PRESSURES:
BAR OR KP

H3 INLET PRESSURE
ACTUAL: 93 PSI
OFFSET [0 psi]
FULLSCALE 200 PSI

H4 INLET PRESSURE
ACTUAL: 93 PSI
OFFSET [0 psi]
FULLSCALE 200 PSI

H5 Outlet Pressure
Actual: 0 psi
Offset: [0 psi]
Fullscale 200 psi

H6 Outlet Pressure
Actual: 0 psi
Offset: 0 psi
Fullscale [200 psi]

H7 Discharge Pressure
Actual: 3 psi
Offset: 0 psi
Fullscale [600 psi]

H8 Discharge Pressure
Actual: 0 psi
Offset: 0 psi
Fullscale [600 psi]

H9 Suction Pressure
Actual: 0 psi
Offset: [0 psi]
Fullscale 600 psi

H10 Suction Pressure
Actual: 0 psi
Offset: 0 psi
Fullscale [600 psi]

```
H11  Flow
   Actual:              OPEN
   Offset:           [ 0 scfm ]
   Fullscale:          100 scfm
```

```
H12  Flow
   Actual:              OPEN
   Offset:            0 scfm
   Fullscale:       [100 scfm]
```

```
H13  AUX #1
   Actual:              OPEN
   Offset:             [ 0 ]
   Fullscale:           100
```

```
H14  AUX #1
   Actual:              OPEN
   Offset:                0
   Fullscale:          [ 100 ]
```

```
H15 AUX #2
   Actual:              OPEN
   Offset:             [ 0 ]
   Fullscale:            100
```

```
H16  AUX #2
   Actual:              OPEN
   Offset:                0
   Fullscale:          [ 100 ]
```

System Drains- (**E & I Series Menus**) - Each of the two (2) drain controls can be programmed to be either a `TIMED' or `DEMAND' drains.

- If Timed is selected, the drain will activate to the "Interval" time setting for the period of time indicated in the `Duration' time setting.
- If DEMAND is selected, the drain will operate for the period of time indicated in the `Duration' time setting, when a drain input signal is sensed from the demand drain float. A DRAIN FAULT Alarm can occur if float doesnot respond as expected. When a fault is detected, the drain solenoid will be `pulsed' for ten minutes in attempt to clear the faulted drain.
- The `Auto Test' feature will operate the drain for the period of time indicated in the Duration setting at the specifiedInterval. This feature is intended to prevent sediment buildup by activating the drain periodically and `blowing out' any possible debris.

```
E4          DRAIN SETUP
               MENU

            Press SET to Select
```

```
I 1 Drain #1
Type                [ DEMAND ]
Interval (m:s):          10 :00
Duration:                 2 Sec
```

I 2 Drain #1	
Type	DEMAND
Interval (m:s):	[10]:00
Duration:	2 Sec

I 3 Drain #1	
Type	DEMAND
Interval (m:s):	10:[00]
Duration:	2 Sec

I 4 Drain #1	
Type	DEMAND
Interval (m:s):	10:00
Duration:	[2] Sec

I 5 Drain #1	
On Delay (m:s)	[0:05]
Auto Test (h:m)	12:00

I 6 Drain #1	
On Delay (m:s)	0:05
Auto Test (h:m)	[12]:00

I 7 Drain #1	
On Delay (m:s)	0:05
Auto Test (h:m)	12:[00]

I 8 Drain #2	
Type:	TIMED
Interval (m:s):	10:00
Duration:	2 sec

I 9 Drain #2	
Type:	TIMED
Interval (m:s):	[10]: 00
Duration:	2 sec

I 10 Drain #2	
Type:	TIMED
Interval (m:s):	10:[00]
Duration:	2 sec

I 11 Drain #2	
Type:	TIMED
Interval (m:s):	10:00
Duration:	[2] sec

I 12 Drain #2	
On Delay (m:s)	[0: 05]
Auto Test (h:m)	12:00

I 13 Drain #1	
On Delay (m:s)	[0: 05]
Auto Test (h:m)	12:00

I 14 Drain #2	
On Delay (m:s)	[0: 05]
Auto Test (h:m)	12:00

3. SENSOR SETTINGS----------

SENSOR SETTINGS Press SET to select

C1	P1 LOW INLET
Value:	100 psi
Alarm Set:	50 psi

C2	P1 HIGH INLET
Value:	100 psi
Alarm Set:	101 psi

C3	P4 DISCHARGE
Value:	240 psi
Alarm Set:	350 psi

FLOW INPUT ENABLE (If Value indicates Fault = No sensor)

FLOW ALARM SET POINT

C4	P5 SUCTION
Value:	100 psi
Alarm Set:	30 psi

C5	FLOW SENSOR
Enabled :	[NO]
VALUE:	OPEN
Alarm Set:	0 scfm

C6	FLOW SENSOR
Enabled :	NO
VALUE:	FAULT
Alarm Set:	[0scfm]

C7	AUX #1 SENSOR
Enabled :	[NO]
VALUE:	OPEN

C8	AUX #1 ALARM
Low Alarm :	[0]
High Alarm:	100
Delay (m:s):	00.05

C9	AUX #1 ALARM
Low Alarm :	0
High Alarm:	[100]
Delay (m:s):	00.05

C10	AUX #1 ALARM
Low Alarm :	0
High Alarm:	100
Delay (m:s):	[00.05]

C11	AUX #2 SENSOR
Enabled :	[NO]
Value:	

C12	AUX #2 ALARM
Low Alarm :	[0]
High Alarm:	100
Delay (m:s):	00.05

C13 AUX #2 ALARM	
Low Alarm :	0
High Alarm:	[100]
Delay (m:s):	00.05

C14 AUX #2 ALARM	
Low Alarm :	0
High Alarm:	100
Delay (m:s):	[00.05]

4. TEMPERATURE SETTINGS----------

TEMPERATURE SETTINGS Press SET to select

B1 T1: DRYER INLET	
Value:	72ºF
Alarm Set:	120ºF

B2 T3: DRYER OUTLET	
Value:	86ºF
Alarm Set:	120ºF

B3 T4: REFRIG.	
Value:	87ºF
Alarm Set	130ºF

B3 T4: REFRIG.	
Value:	87ºF
Alarm Set	130ºF

5. VIEW ALARMS----------

VIEW ACTIVE ALARMS Press SET to select

ACTIVE ALARMS
Press UP/DOWN to
View active alarms
Press RESET to

A1 ACTIVE ALARMS
HIGH DEWPOINT
(Self-Resetting)
Press RESET to EXIT

A3a SYSTEM SHUTDOWN – Requires a manual reset.

A2 ACTIVE ALARMS
LOW FLOW
(Self-Resetting)
Press RESET to EXIT

A3 ACTIVE ALARMS
E1: DP PROBE OPEN

Press RESET to Clear

A3b SYSTEM SHUTDOWN – Requires a manual reset.

A3 ACTIVE ALARMS
E2: DP PROBE SHORT

Press RESET to Clear

A4 SYSTEM SHUTDOWN – Requires a manual reset.

A4 ACTIVE ALARMS
MOTOR OVERLOAD

Press RESET to Clear

A5a SYSTEM SHUTDOWN – Requires a manual reset.

A5 ACTIVE ALARMS
E3: SUPERHEAT HIGH

Press RESET to Clear

A5b SYSTEM SHUTDOWN – Requires a manual reset.

A5 ACTIVE ALARMS
E3: SUPERHEAT LOW

Press RESET to Clear

A6 SYSTEM SHUTDOWN – Requires a manual reset.

A6 ACTIVE ALARMS
E4: LOW DEWPOINT

Press RESET to Clear

A7 SYSTEM SHUTDOWN
Requires a manual reset.

A7 ACTIVE ALARMS
ES: DRYER OVERLOAD

Press RESET to Clear

A8 SYSTEM SHUTDOWN
Requires a manual reset.

A8 ACTIVE ALARMS
E6: LOW REFRIG/ OIL PSI

Press RESET to Clear

A9 SYSTEM SHUTDOWN
Requires a manual reset.

A9 ACTIVE ALARMS
E7: HIGH REFRIG PSI

Press RESET to Clear

A10 ACTIVE ALARMS
W1: LOW AIR-IN PSI
(Self Resetting)
Press RESET to Exit

A11 ACTIVE ALARMS
W2: HIGH AIR-IN PSI
(Self Resetting)
Press RESET to Exit

A12 ACTIVE ALARMS
W3: COALESCER PSID

Press RESET to Clear

A13 ACTIVE ALARMS
W4: HIGH AIR-IN ºF
(Self Resetting)
Press RESET to Exit

A14 ACTIVE ALARMS
W5: HIGH AMBIENT/H2O
(Self Resetting)
Press RESET to Exit

A15a Drain #1 FAILURE

A15 ACTIVE ALARMS
DRAIN FAULT-1
(Self Resetting)
Press RESET to Exit

A15b Drain #2 FAILURE

```
A15      ACTIVE ALARMS
              DRAIN FAULT-2
              (Self Resetting)
         Press RESET to Exit
```

A16 Drain Requires a manual reset.

```
A16      ACTIVE ALARMS
                MODEM FAILURE

         Press RESET to Clear
```

```
ACTIVE ALARMS

No Active Alarms
Press RESET to EXIT
```

```
COMPRESSOR
MENU

Press SET to Select
```

Auto-Sequence “Time” can be selected between 1 & 72 hours. NOTE: When set to “TEST”, units will sequence STANDBY COMPRESSOR every 3 minutes (also see the K10 Menu in DISPLAY VALUES).

```
R1  COMPR #1      [ ENABLED ]
    COMPR #2        ENABLED
    COMPR #3        ENABLED
    COMPR #4        DISABLED
```

```
R2  COMPR #1        ENABLED
    COMPR #2      [ ENABLED ]
    COMPR #3        ENABLED
    COMPR #4        DISABLED
```

SELECT “ENABLE or DISABLE”

```
R3  COMPR #1        ENABLED
    COMPR #2        ENABLED
    COMPR #3      [ ENABLED ]
    COMPR #4        DISABLED
```

```
R4  COMPR #1        ENABLED
    COMPR #2        ENABLED
    COMPR #3        ENABLED
    COMPR #4      [ DISABLED ]
```

```
R5
              AUTO-SWITCH TIME:
                   24 Hrs
```

8. Maintenance Charts

The maintenance chart below indicates the components that should be checked while performing routine maintenance on the dryer. The chart also indicates how often a specific check should be done.

Description of Service Required		Service recommended every:			
Component	Operation	Week	Month	6 Months	Year
Filtration	Coalescing Filter Element			✓	🔧
Dryer	Condensing Coil (AC units)	✓	✓	✓	✓
Dryer	Condenser (WC units)*				✓
Dryer	Drain Line Y-Strainer	✓	✓	✓	✓
Dryer	High Pressure Switch		✓	✓	✓
Dryer	Low Pressure Switch*		✓	✓	✓
Dryer	Fan Control Switches (AC units)		✓	✓	✓
Dryer	Compressor Oil Level	✓	✓	✓	✓
Filtration	Drain Solenoid		✓	✓	✓

✓ Check 🔧 Replace

* The condenser should be cleaned only if the unit is running abnormally high discharge pressure. Contact the factory for verification prior to proceeding with this maintenance item.

8.1 Maintenance Procedures

Before performing any maintenance on the machine ensure that air pressure is vented from the system. Also make sure that personnel performing the mainte nance have read the maintenance section of the manual.

Some of the maintenance tasks will require the refrigeration system to run, but when not required, turn the unit off before proceeding.

Upon completion of the maintenance tasks be sure that the machine has been properly reassembled prior to restarting and reintroducing air.

8.2 Routine Maintenance

This section covers the various components that require periodic maintenance and/or replacement.

Coalescing Filter Element

The coalescing filter element should be check Bi-Annually. On units with the standard control panel, check the pressure drop across the unit by using air pressure gauges upstream and downstream of the dryer using the closest possible gauges to the dryer. If it is determined that there is a high pressure drop across the machine, remove the filter element from the machine and inspect it. If the filter is dirty, replace it. Ensure that air pressure is removed from the machine prior to removing the filter element. On units that have the Control Center option installed the filter differential can be checked on the control board.

The coalescing element should be changed annually. To change the filter element:

- De-pressurize the dryer.
- Remove the bolts that secure the filter housing cover.
- Remove the wing nut that secures the filter cap to the element.
- Remove the filter cap.
- Remove the existing element from the housing.
- Install the replacement element.
- Reinstall the filter cap and wing nut
- Reinstall the filter cover.

Condensing Coil (Air Cooled Units)

The condensing coil should be cleaned weekly. Ensure that air pressure is removed from the system prior to cleaning the condenser. The condenser can be cleaned by using a vacuum or compressed air. If the condenser is not clean after it is blown out with compressed air or vacuumed, contact the factory for assistance.

Condenser (Water Cooled Units)

The water cooled condenser should be checked and cleaned annually if necessary. To check the condenser, water flow to the condenser should be shut off, air flow to the machine should be shut off, and the unit should be taken out of a run mode. The end bonnets then need to be removed exposing the tube side of the condenser. The tube side should be inspected for any debris and cleaned. If soft deposits are found they can be cleaned using a pneumatic tube cleaning gun which forces plugs down the tubes. Some have a brush between two rubber plugs and others are specially designed plugs which scrape the tube walls as they travel down the tube. If scale is found special equipment is required to clean the tubes. These cleaning systems utilize a flexible shaft which rotates a brush as it is fed

down the tube, they can also simultaneously flush out the tubes with water. There is a wide variety of brushes and tools available that attach to the shaft to clean both soft and hard deposits.

Drain Line Y-Strainer (See Section 5.0, Fig. 4)

The drain line y-strainer should be cleaned weekly. Air flow and air pressure should be removed from system before proceeding. To clean the y-strainer:

- Turn the ball valve on the strainer assembly to the closed position
- Remove threaded cap at the end of the ball valve assembly.
- Clean the screen inside of the cap by rinsing it under water.
- Reinstall the screen and cap
- Return the ball valve to the open position

High Pressure, Low Pressure, & Fan Control (AC units only)

The refrigeration pressure switches should be checked monthly to ensure that they are adjusted to the proper settings. Please refer to the applicable electrical drawings for your unit.

Compressor Oil Level

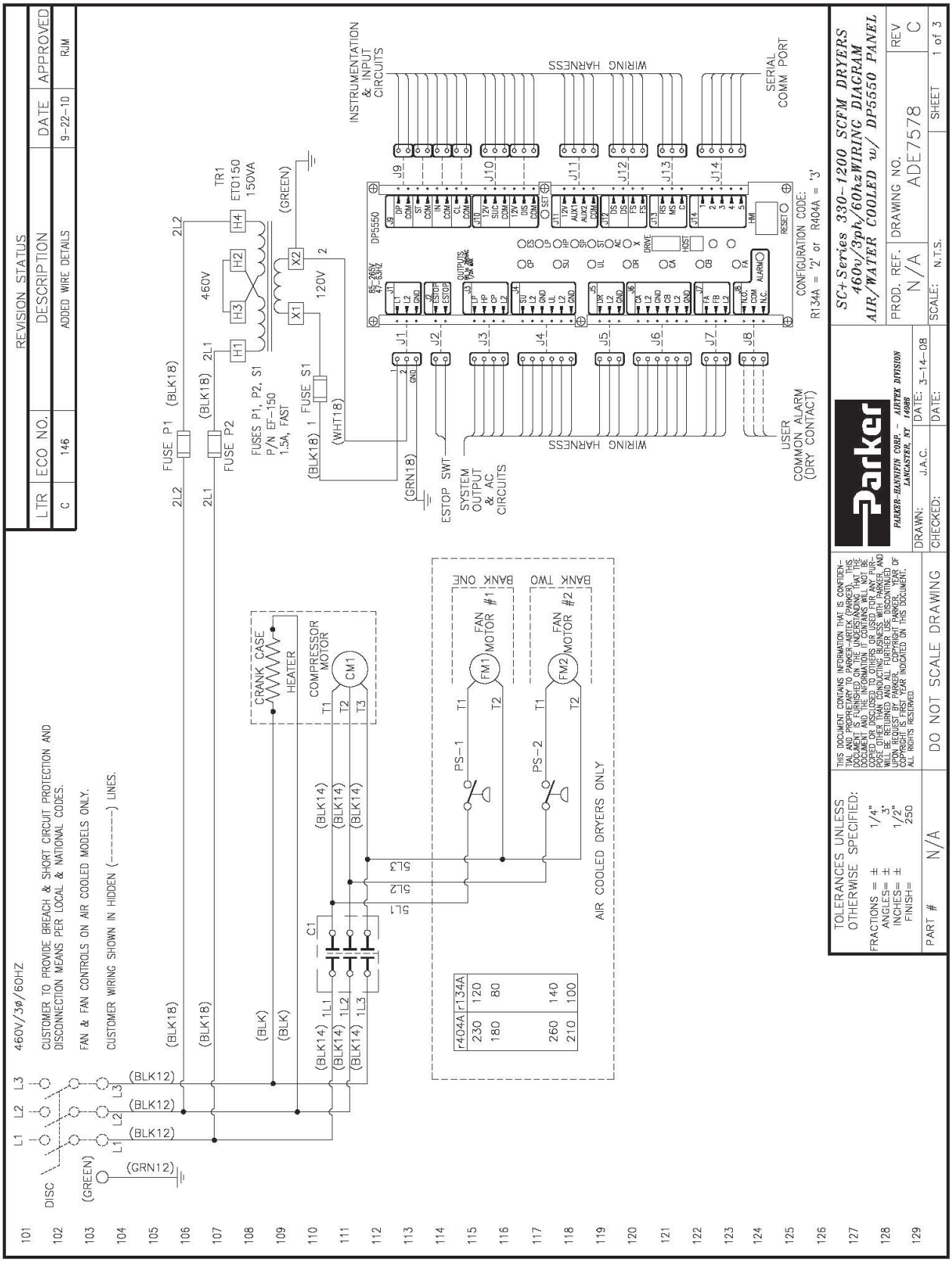
The oil level in the compressor should be checked daily. The refrigeration system should never need oil unless the system is leaking or has been recently repaired. If it is determined that the system needs oil, do the following:

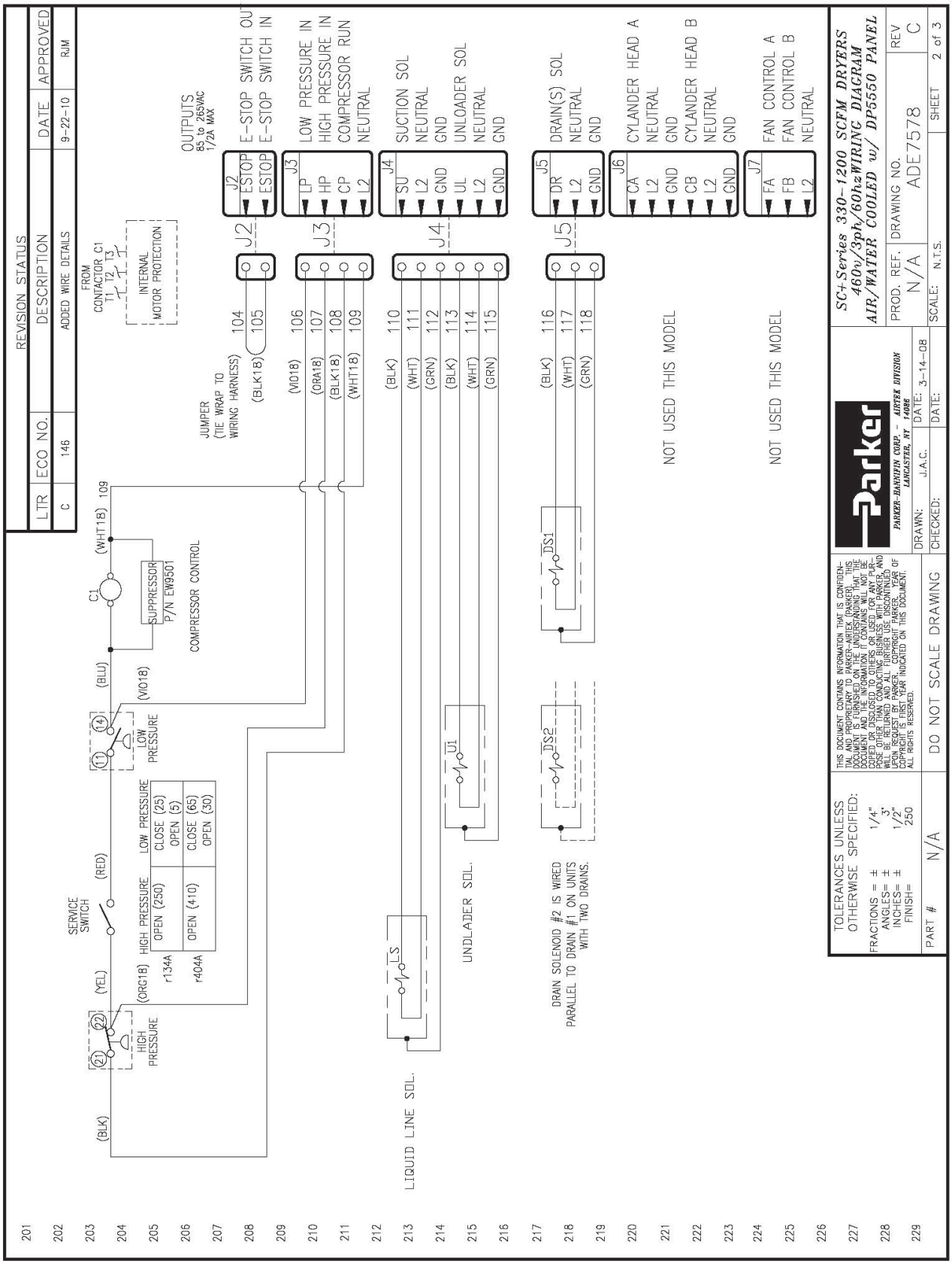
- Run the dryer for a minimum of 2 minutes, if there is not a visible level of oil in the sight glass, proceed to the next step, if there is an oil level, DO NOT add oil to the system.
- Using the appropriate oil pump add the proper oil (POE forR134 and R404 refrigerant) using the Schrader valve on the suction side of the compressor.
- Add oil until there is a visible level in the sight glass with the compressor running.

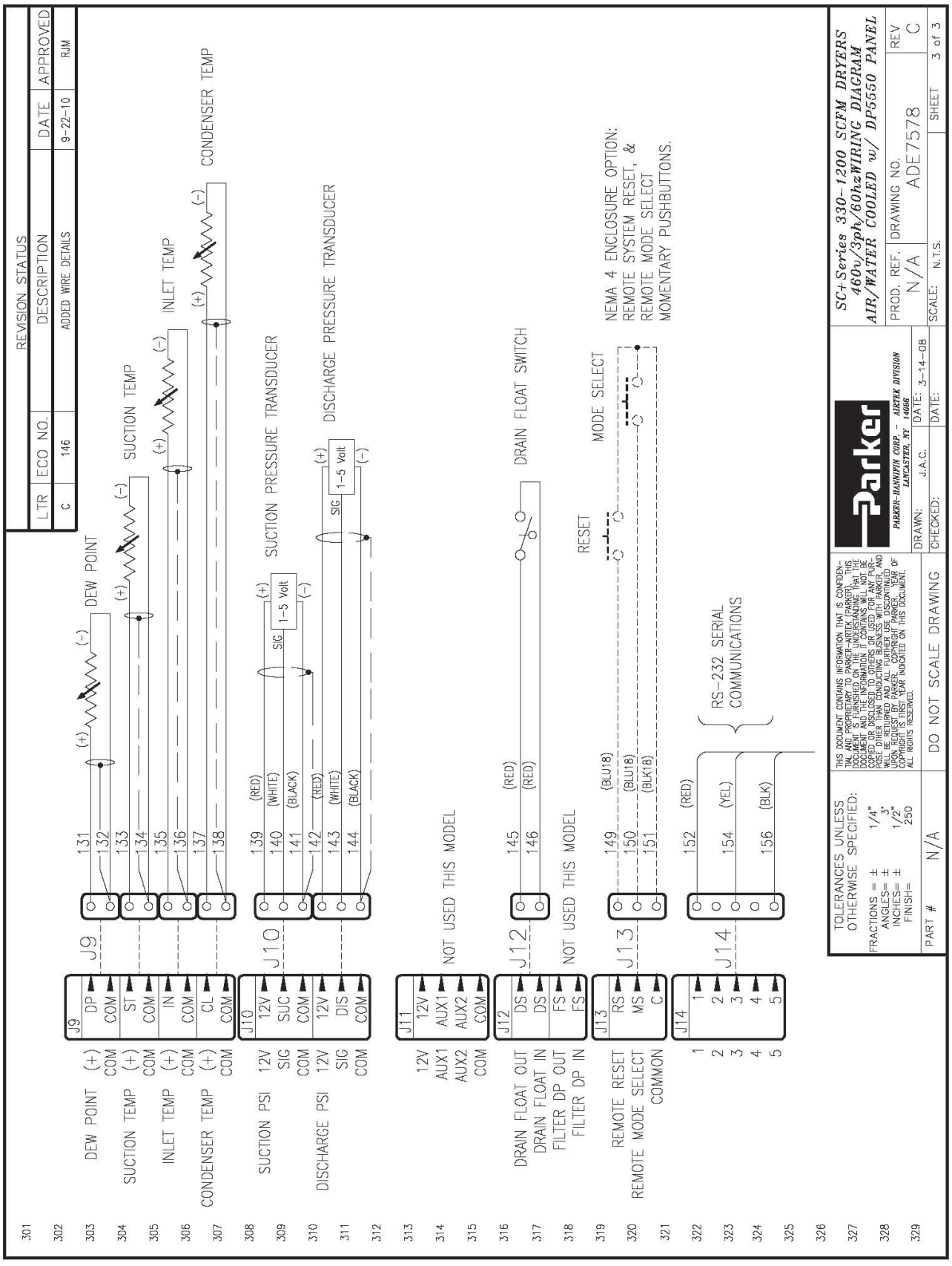
Maintenance Log			
Service Performed	Date	Parts Replaced	Initials

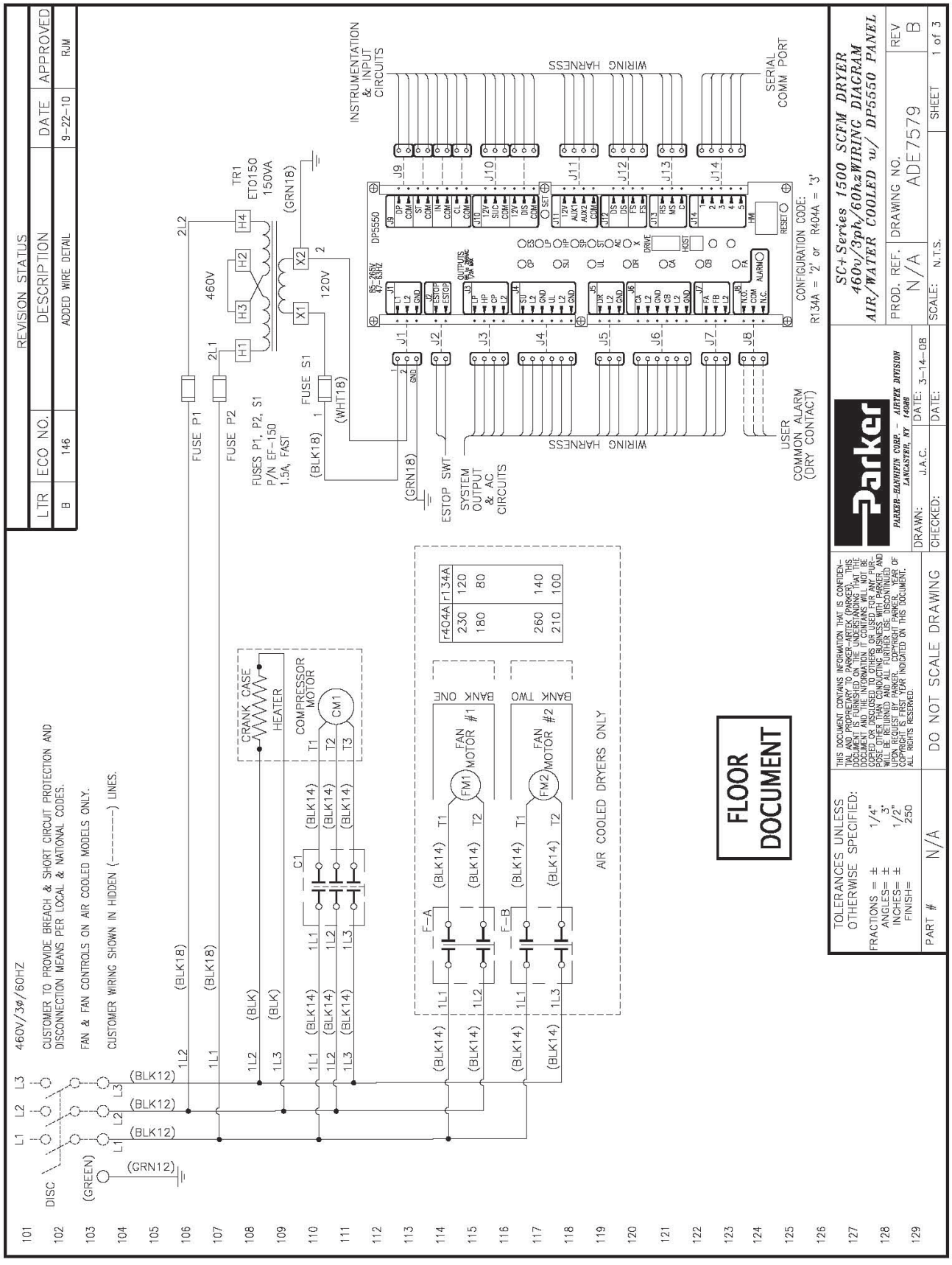
Maintenance Log			
Service Performed	Date	Parts Replaced	Initials

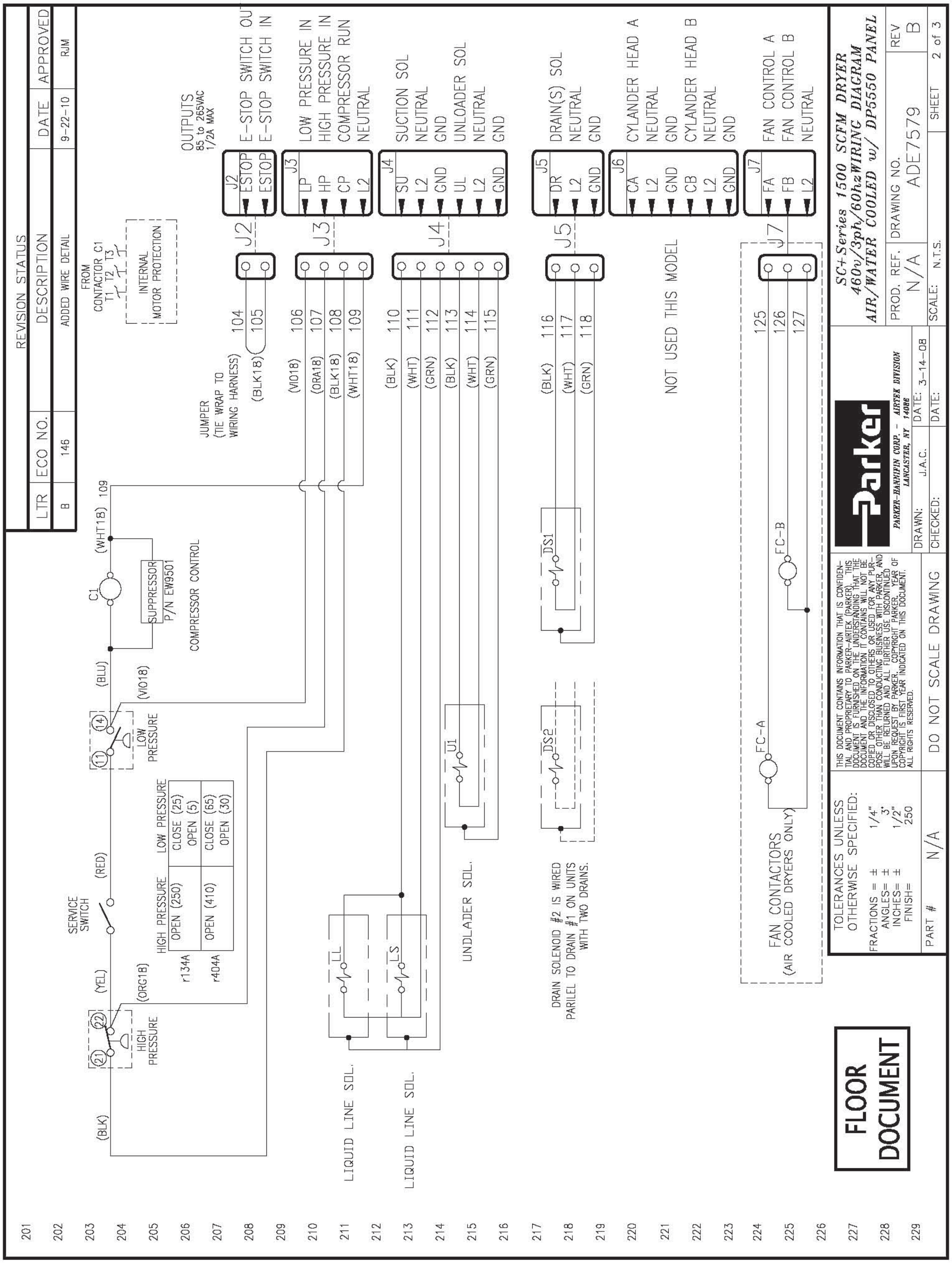
9. Associated Drawings

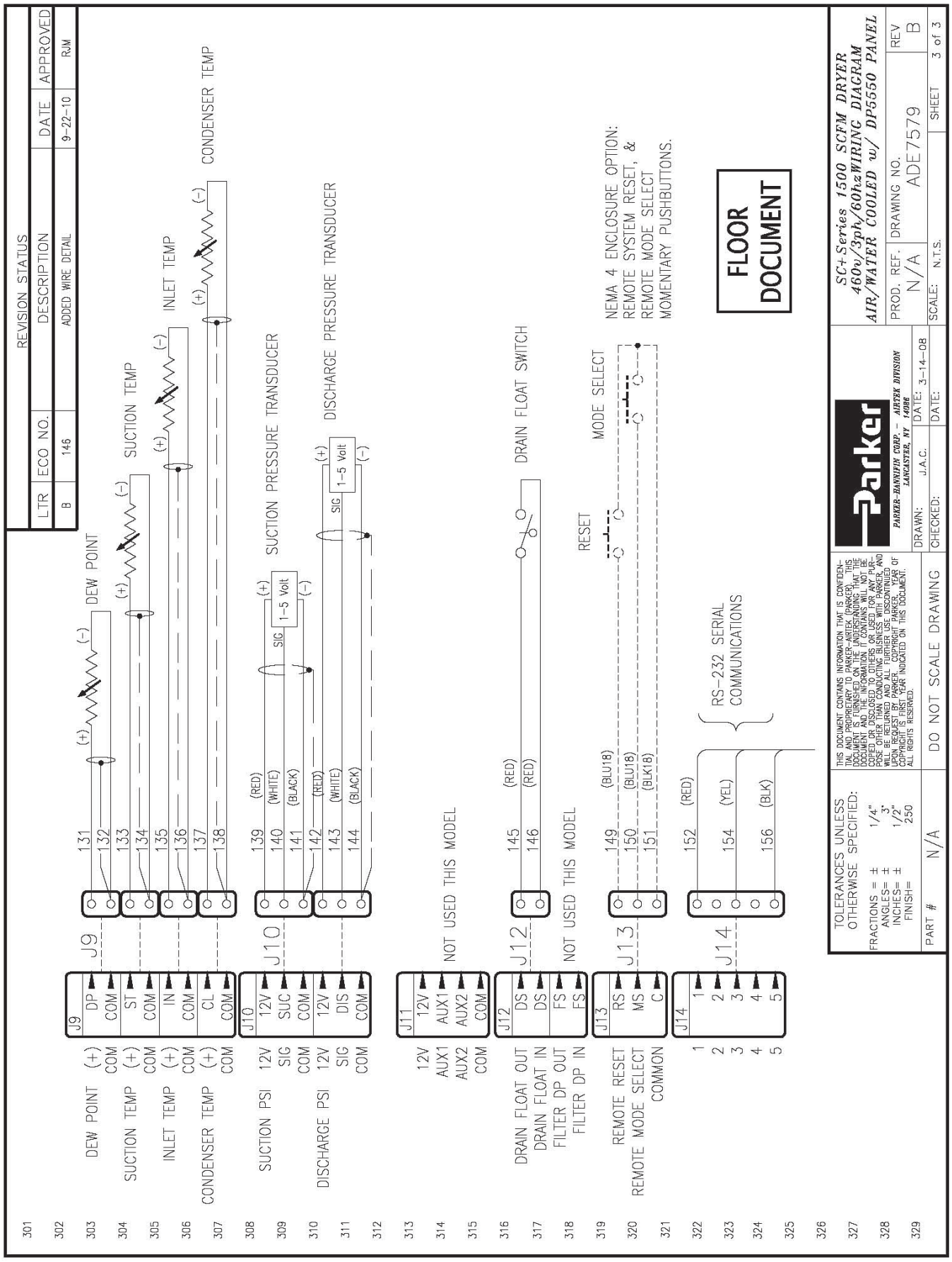


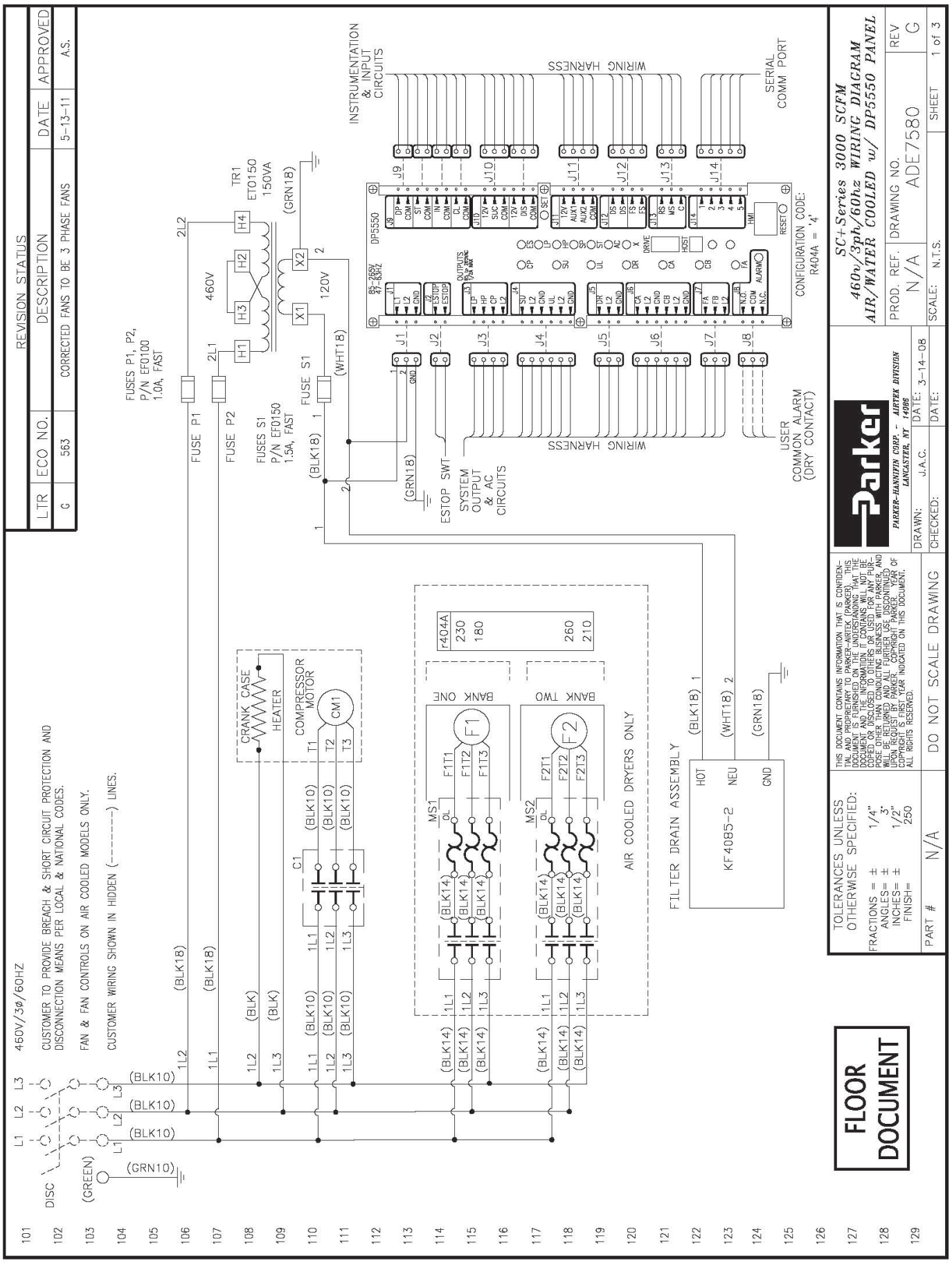

REVISION STATUS
LTR ECO NO. DESCRIPTION DATE APPROVED
C 146 ADDED WIRE DETAILS 9-22-10 RJM
SC+Series 330-1200 SCFM DRYERS
460v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE7578
REV C
SCALE: N.T.S.
SHEET 2 of 3
PARKER-HANNIFIN CORP. - AIRTEK DIVISION
LANCASTER, NY 14086
DRAWN: J.A.C. DATE: 3-14-08
CHECKED: DATE:
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4" 3"
ANGLES= ± 1/2" 250
INCHES= ±
FINISH=
PART # N/A
DO NOT SCALE DRAWING
THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER-AIRTEK (PARKER). THIS DOCUMENT IS FURNISHED ON THE UNDERSTANDING THAT THE DOCUMENT AND THE INFORMATION IT CONTAINS WILL NOT BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST BY PARKER. COPYRIGHT PARKER-HANNIFIN CORP. COPYRIGHT IS FIRST YEAR INDICATED ON THIS DOCUMENT. ALL RIGHTS RESERVED.
SERVICE SWITCH
(RED)
(YEL)
(ORG18)
(BLK)
HIGH PRESSURE
HIGH PRESSURE
LOW PRESSURE
LOW PRESSURE
r134A
r404A
OPEN (250)
CLOSE (25)
OPEN (5)
OPEN (410)
CLOSE (65)
OPEN (30)
C1
(WHT18) 109
(BLU)
(VIO18)
SUPPRESSOR P/N EW9501
COMPRESSOR CONTROL
LIQUID LINE SOL.
LS
UNDLADER SOL.
U1
DRAIN SOLENOID #2 IS WIRED PARALLEL TO DRAIN #1 ON UNITS WITH TWO DRAINS.
DS2
DS1
NOT USED THIS MODEL
NOT USED THIS MODEL
JUMPER (TIE WRAP TO WIRING HARNESS)
(BLK18) 104 105
FROM CONTACTOR C1 T1 T2 T3
INTERNAL MOTOR PROTECTION
OUTPUTS 85 to 265VAC 1/2A MAX
J2 ESTOP ESTOP
E-STOP SWITCH OUT
E-STOP SWITCH IN
J3 LP HP CP L2
(VIO18) 106
(ORA18) 107
(BLK18) 108
(WHT18) 109
LOW PRESSURE IN
HIGH PRESSURE IN
COMPRESSOR RUN
NEUTRAL
J4 SU L2 GND UL L2 GND
(BLK) 110
(WHT) 111
(GRN) 112
(BLK) 113
(WHT) 114
(GRN) 115
SUCTION SOL
NEUTRAL
GND
UNLOADER SOL
NEUTRAL
GND
J5 DR L2 GND
(BLK) 116
(WHT) 117
(GRN) 118
DRAIN(S) SOL
NEUTRAL
GND
J6 CA L2 GND CB L2 GND
CYLANDER HEAD A
NEUTRAL
GND
CYLANDER HEAD B
NEUTRAL
GND
J7 FA FB L2
FAN CONTROL A
FAN CONTROL B
NEUTRAL

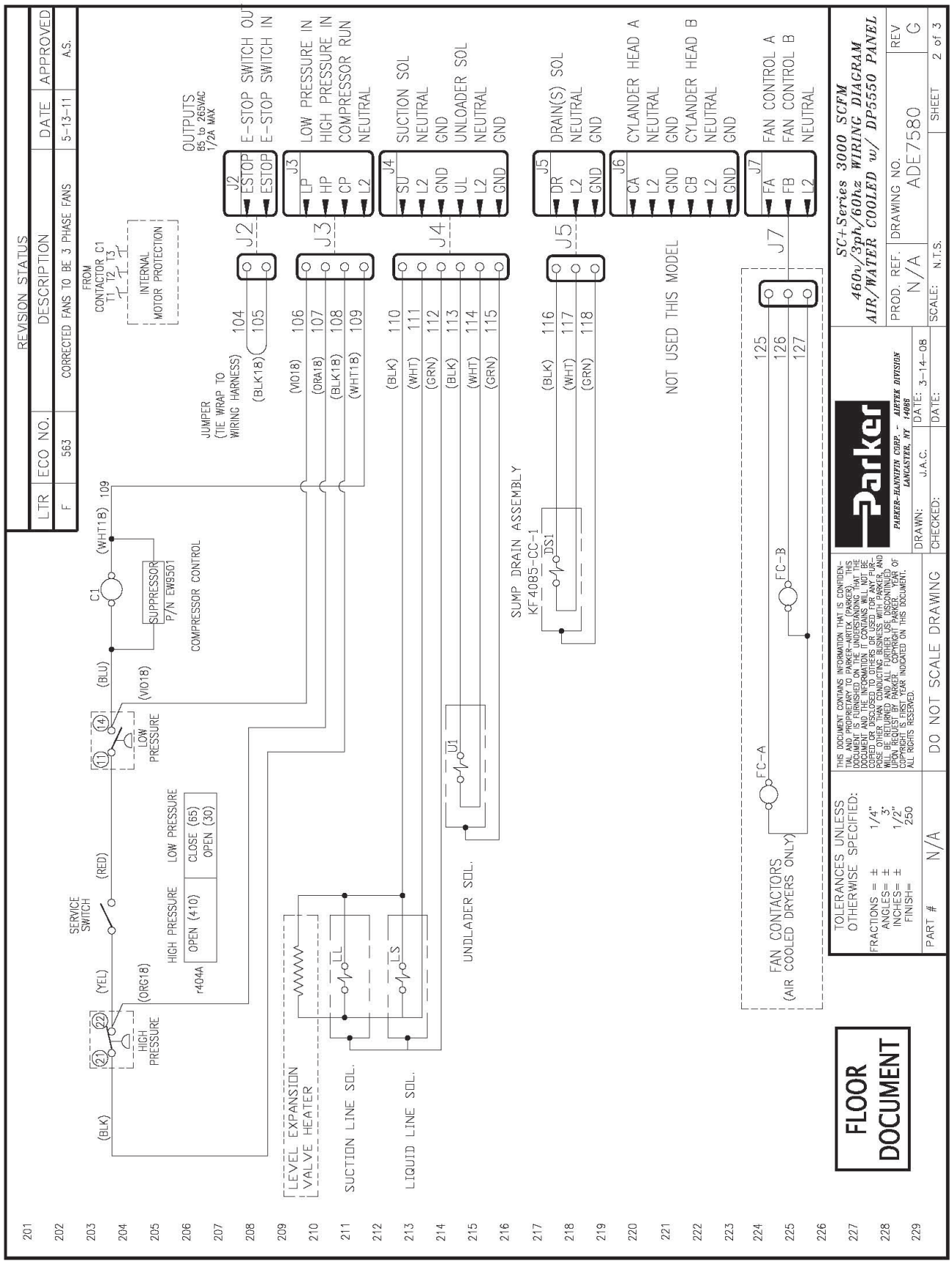

REVISION STATUS
LTR | ECO NO. | DESCRIPTION | DATE | APPROVED
C | 146 | ADDED WIRE DETAILS | 9-22-10 | RJM
DEW POINT
SUCTION TEMP
INLET TEMP
CONDENSER TEMP
SUCTION PRESSURE TRANSDUCER
DISCHARGE PRESSURE TRANSDUCER
1-5 Volt
DRAIN FLOAT SWITCH
NOT USED THIS MODEL
NOT USED THIS MODEL
RESET
MODE SELECT
NEMA 4 ENCLOSURE OPTION:
REMOTE SYSTEM RESET, &
REMOTE MODE SELECT
MOMENTARY PUSHBUTTONS.
RS-232 SERIAL COMMUNICATIONS
J9 DP COM ST COM IN COM CL COM
J10 12V SUC COM 12V DIS COM
J11 12V AUX1 AUX2 COM
J12 DS DS FS FS
J13 RS MS C
J14 1 2 3 4 5
DEW POINT (+) COM
SUCTION TEMP (+) COM
INLET TEMP (+) COM
CONDENSER TEMP (+) COM
SUCTION PSI 12V SIG COM
DISCHARGE PSI 12V SIG COM
12V AUX1 AUX2 COM
DRAIN FLOAT OUT
DRAIN FLOAT IN
FILTER DP OUT
FILTER DP IN
REMOTE RESET
REMOTE MODE SELECT
COMMON
1 2 3 4 5
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER-HANNIFIN CORPORATION. THIS DOCUMENT IS PUBLISHED ON THE UNDERSTANDING THAT THE INFORMATION IT CONTAINS WILL NOT BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST BY PARKER. COPYRIGHT PARKER, YEAR OF COPYRIGHT IS FIRST YEAR INDICATED ON THIS DOCUMENT. ALL RIGHTS RESERVED.
Parker
PARKER-HANNIFIN CORP. - AIRTEK DIVISION
LANCASTER, NY 14086
DRAWN: J.A.C. DATE: 3-14-08
CHECKED: DATE:
SC+Series 330-1200 SCFM DRYERS
460v/3ph/60hzWIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE7578
REV C
SCALE: N.T.S.
SHEET 3 of 3

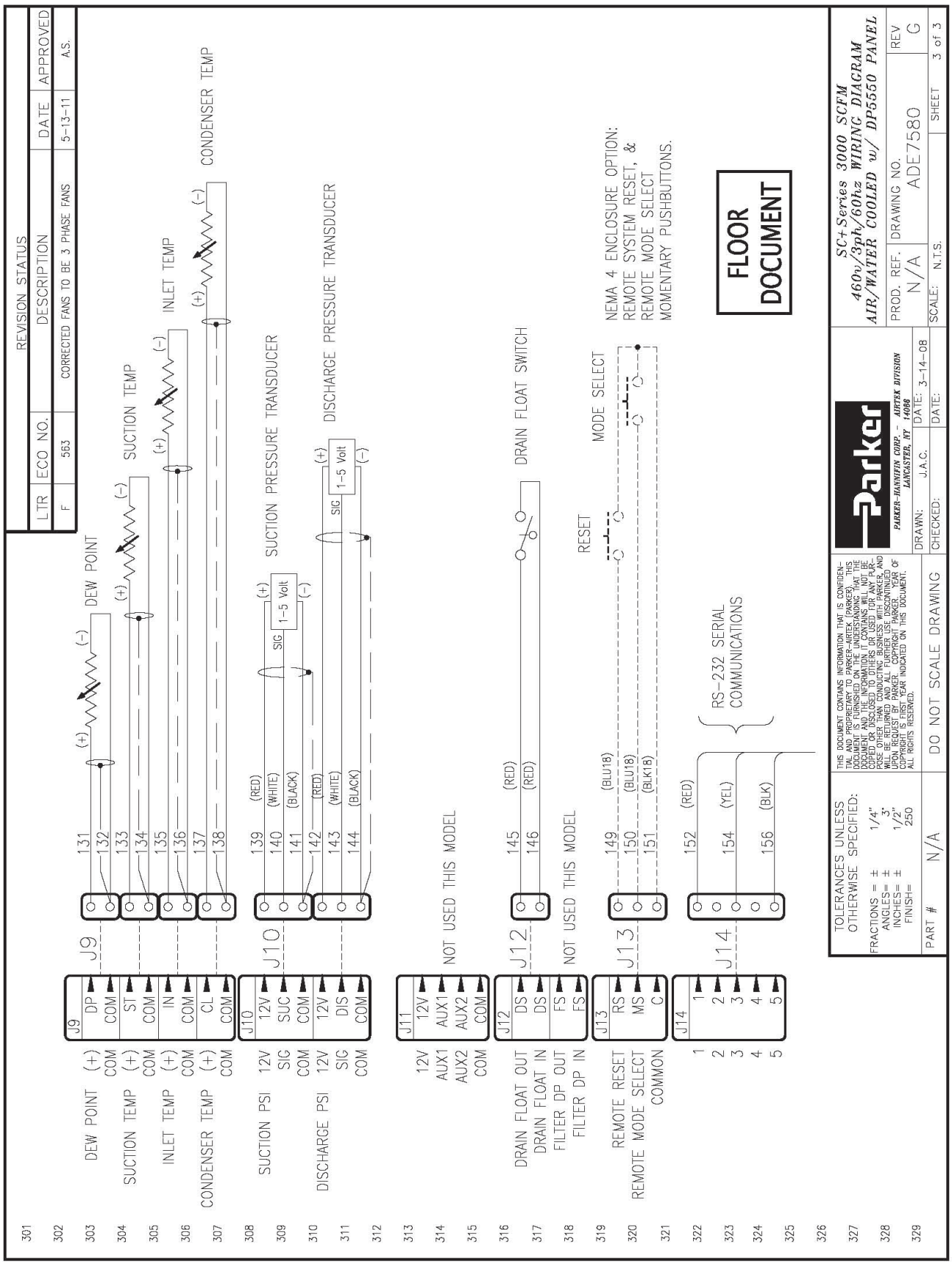

REVISION STATUS
LTR | ECO NO. | DESCRIPTION | DATE | APPROVED
B | 146 | ADDED WIRE DETAIL | 9-22-10 | RJM
460V/3ø/60HZ
CUSTOMER TO PROVIDE BREACH & SHORT CIRCUIT PROTECTION AND DISCONNECTION MEANS PER LOCAL & NATIONAL CODES.
FAN & FAN CONTROLS ON AIR COOLED MODELS ONLY.
CUSTOMER WIRING SHOWN IN HIDDEN (- - - - - -) LINES.
DISC
FUSE P1
FUSE P2
FUSES P1, P2, S1
P/N EF-150
1.5A, FAST
FUSE S1
TR1
ET0150
150VA
460V
120V
CRANK CASE HEATER
COMPRESSOR MOTOR
FAN MOTOR #1
FAN MOTOR #2
BANK ONE
BANK TWO
AIR COOLED DRYERS ONLY
r404A | r134A
230 | 120
180 | 80
260 | 140
210 | 100
ESTOP SWT
SYSTEM OUTPUT & AC CIRCUITS
USER COMMON ALARM (DRY CONTACT)
INSTRUMENTATION & INPUT CIRCUITS
WIRING HARNESS
SERIAL COMM PORT
DP5550
CONFIGURATION CODE:
R134A = '2' or R404A = '3'
FLOOR DOCUMENT
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER-ARTEK (PARKER). THIS DOCUMENT IS FURNISHED ON THE UNDERSTANDING THAT THE DOCUMENT AND THE INFORMATION IT CONTAINS WILL NOT BE DISCLOSED OR DISCUSSED WITH OTHERS OR USED IN ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST BY PARKER. COPYRIGHT PARKER, YEAR OF COPYRIGHT IS FIRST YEAR INDICATED ON THIS DOCUMENT. ALL RIGHTS RESERVED
Parker
PARKER-HANNIFIN CORP. - AIRTEX DIVISION
LANCASTER, NY 14086
DRAWN: J.A.C. DATE: 3-14-08
CHECKED: DATE:
SC+ Series 1500 SCFM DRYER
460v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE7579
REV B
SCALE: N.T.S.
SHEET 1 of 3

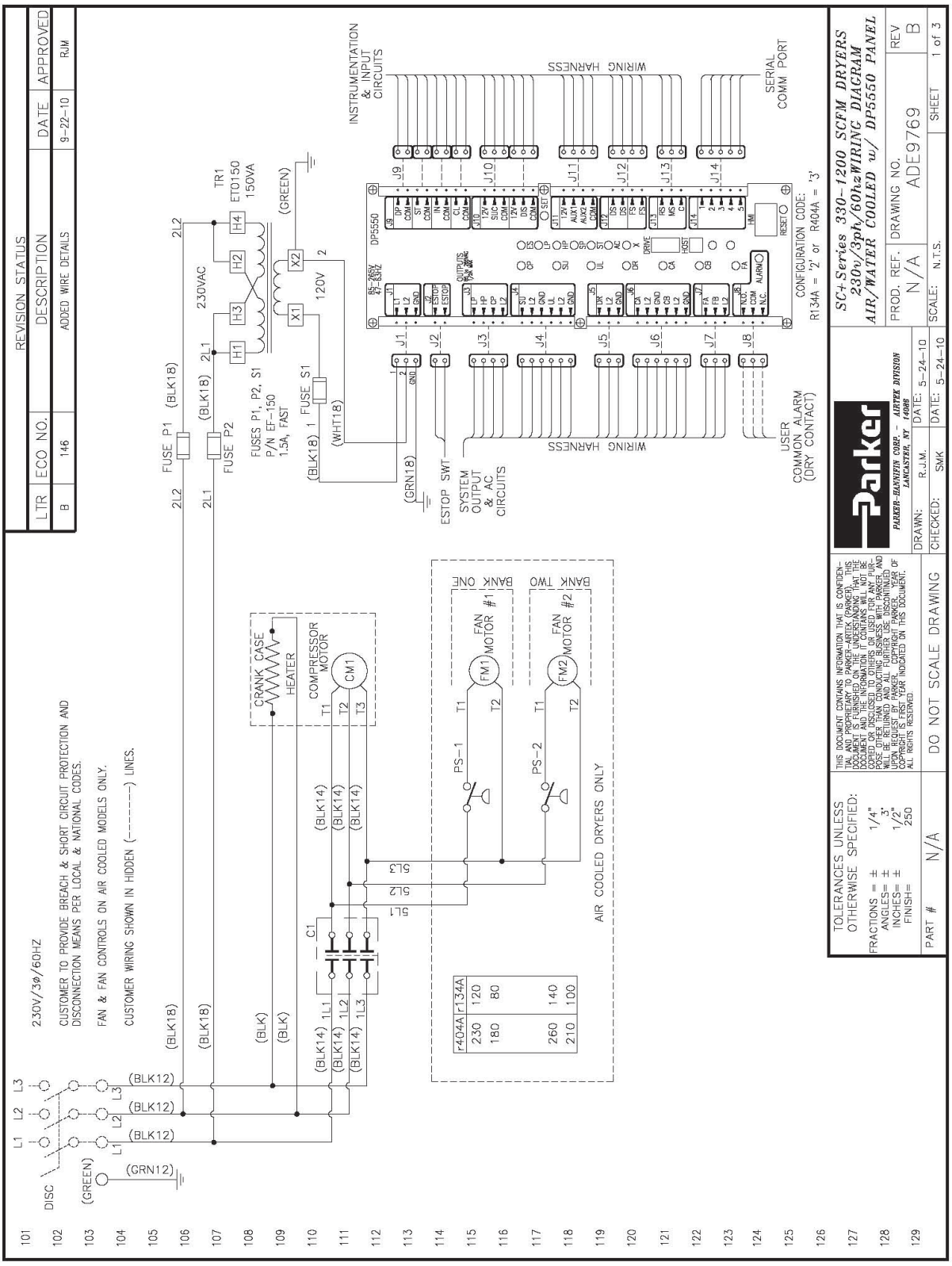

REVISION STATUS
LTR | ECO NO. | DESCRIPTION | DATE | APPROVED
B | 146 | ADDED WIRE DETAIL | 9-22-10 | RJM
OUTPUTS
85 to 265VAC
1/2A MAX
J2 ESTOP E-STOP SWITCH OUT
ESTOP E-STOP SWITCH IN
J3 LP LOW PRESSURE IN
HP HIGH PRESSURE IN
CP COMPRESSOR RUN
L2 NEUTRAL
J4 SU SUCTION SOL
L2 NEUTRAL
GND GND
UL UNLOADER SOL
L2 NEUTRAL
GND GND
J5 DR DRAIN(S) SOL
L2 NEUTRAL
GND GND
J6 CA CYLANDER HEAD A
L2 NEUTRAL
GND GND
CB CYLANDER HEAD B
L2 NEUTRAL
GND GND
J7 FA FAN CONTROL A
FB FAN CONTROL B
L2 NEUTRAL
FROM CONTACTOR C1
T1 T2 T3
INTERNAL MOTOR PROTECTION
JUMPER (TIE WRAP TO WIRING HARNESS)
(BLK18) 104 105
(VIO18) 106
(ORA18) 107
(BLK18) 108
(WHT18) 109
(BLK) 110
(WHT) 111
(GRN) 112
(BLK) 113
(WHT) 114
(GRN) 115
(BLK) 116
(WHT) 117
(GRN) 118
NOT USED THIS MODEL
125
126
127
C1
SUPPRESSOR P/N EW9501
COMPRESSOR CONTROL
(WHT18) 109
(BLU)
(VIO18)
LOW PRESSURE
SERVICE SWITCH
(RED)
(YEL)
(ORG18)
HIGH PRESSURE
(BLK)
HIGH PRESSURE | LOW PRESSURE
r134A | OPEN (250) | CLOSE (25) OPEN (5)
r404A | OPEN (410) | CLOSE (65) OPEN (30)
LIQUID LINE SOL.
LIQUID LINE SOL.
LL
LS
U1
UNDLADER SOL.
DS1
DS2
DRAIN SOLENOID #2 IS WIRED PARILEL TO DRAIN #1 ON UNITS WITH TWO DRAINS.
FC-A
FC-B
FAN CONTACTORS (AIR COOLED DRYERS ONLY)
FLOOR DOCUMENT
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
Parker
PARKER-HANNIFIN CORP. - AIRTEK DIVISION LANCASTER, NY 14086
DRAWN: J.A.C. DATE: 3-14-08
CHECKED: DATE:
SC+Series 1500 SCFM DRYER
460v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE7579
REV B
SCALE: N.T.S.
SHEET 2 of 3


REVISION STATUS
LTR ECO NO. DESCRIPTION DATE APPROVED
B 146 ADDED WIRE DETAIL 9-22-10 RJM
J9
DP
COM
ST
COM
IN
COM
CL
COM
J10
12V
SUC
COM
12V
DIS
COM
J11
12V
AUX1
AUX2
COM
J12
DS
DS
FS
FS
J13
RS
MS
C
J14
1
2
3
4
5
131
132
133
134
135
136
137
138
139 (RED)
140 (WHITE)
141 (BLACK)
142 (RED)
143 (WHITE)
144 (BLACK)
145 (RED)
146 (RED)
149 (BLU18)
150 (BLU18)
151 (BLK18)
152 (RED)
154 (YEL)
156 (BLK)
DEW POINT (+) COM
SUCTION TEMP (+) COM
INLET TEMP (+) COM
CONDENSER TEMP (+) COM
SUCTION PSI 12V SIG COM
DISCHARGE PSI 12V SIG COM
12V AUX1 AUX2 COM
NOT USED THIS MODEL
DRAIN FLOAT OUT
DRAIN FLOAT IN
FILTER DP OUT
FILTER DP IN
NOT USED THIS MODEL
REMOTE RESET
REMOTE MODE SELECT
COMMON
1
2
3
4
5
DEW POINT
SUCTION TEMP
INLET TEMP
CONDENSER TEMP
SUCTION PRESSURE TRANSDUCER
1-5 Volt
DISCHARGE PRESSURE TRANSDUCER
1-5 Volt
DRAIN FLOAT SWITCH
RESET
MODE SELECT
RS-232 SERIAL COMMUNICATIONS
NEMA 4 ENCLOSURE OPTION:
REMOTE SYSTEM RESET, &
REMOTE MODE SELECT
MOMENTARY PUSHBUTTONS.
FLOOR DOCUMENT
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER-HANNIFIN CORP. THIS DOCUMENT IS TENDERED ON THE UNDERSTANDING THAT THE DOCUMENT AND THE INFORMATION IT CONTAINS WILL NOT BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST BY PARKER. COPYRIGHT PARKER, YEAR OF COPYRIGHT IS FIRST YEAR INDICATED ON THIS DOCUMENT. ALL RIGHTS RESERVED.
Parker
PARKER-HANNIFIN CORP - AIRTEK DIVISION
LANCASTER, NY 14086
DRAWN: J.A.C. DATE: 3-14-08
CHECKED: DATE:
SC+ Series 1500 SCFM DRYER
460v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE7579
REV B
SCALE: N.T.S.
SHEET 3 of 3


REVISION STATUS
LTR | ECO NO. | DESCRIPTION | DATE | APPROVED
C | 563 | CORRECTED FANS TO BE 3 PHASE FANS | 5-13-11 | A.S.
460V/3ø/60HZ
CUSTOMER TO PROVIDE BREACH & SHORT CIRCUIT PROTECTION AND DISCONNECTION MEANS PER LOCAL & NATIONAL CODES.
FAN & FAN CONTROLS ON AIR COOLED MODELS ONLY.
CUSTOMER WIRING SHOWN IN HIDDEN (- - - - - -) LINES.
FUSES P1, P2, P/N EF0100 1.0A, FAST
FUSES S1 P/N EF0150 1.5A, FAST
TR1 ET0150 150VA
460V
120V
FUSE P1
FUSE P2
FUSE S1
DISC
(GREEN)
(GRN10)
(BLK10)
(BLK18)
(BLK)
(WHT18)
(GRN18)
CRANK CASE HEATER
COMPRESSOR MOTOR
CM1
C1
MS1
MS2
BANK ONE
BANK TWO
F1
F2
r404A
230
180
260
210
AIR COOLED DRYERS ONLY
FILTER DRAIN ASSEMBLY
KF4085-2
HOT
NEU
GND
INSTRUMENTATION & INPUT CIRCUITS
WIRING HARNESS
SERIAL COMM PORT
DP5550
85-265V 47-63HZ
CONFIGURATION CODE: R404A = '4'
ESTOP SWT
SYSTEM OUTPUT & AC CIRCUITS
USER COMMON ALARM (DRY CONTACT)
SC+Series 3000 SCFM
460v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE7580
REV G
SCALE: N.T.S.
SHEET 1 of 3
Parker
PARKER-HANNIFIN CORP. - AIRTEK DIVISION
LANCASTER, NY 14086
DRAWN: J.A.C. DATE: 3-14-08
CHECKED: DATE:
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES = ± 3°
INCHES = ± 1/2"
FINISH = 250
PART # N/A
DO NOT SCALE DRAWING
THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER-HANNIFIN. BY ACCEPTING THIS DOCUMENT YOU AGREE THAT THE DOCUMENT IS FURNISHED ON THE UNDERSTANDING THAT THE DOCUMENT AND THE INFORMATION IT CONTAINS WILL NOT BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL COPIES DESTROYED UPON REQUEST BY PARKER. COPYRIGHT © [FIRST YEAR OF COPYRIGHT IS FIRST YEAR INDICATED ON THIS DOCUMENT]. ALL RIGHTS RESERVED.
FLOOR DOCUMENT


REVISION STATUS
LTR ECO NO. DESCRIPTION DATE APPROVED
F 563 CORRECTED FANS TO BE 3 PHASE FANS 5-13-11 A.S.
SC+Series 3000 SCFM
460v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE7580
REV C
SCALE: N.T.S.
SHEET 2 of 3
Parker
PARKER-HANNIFIN CORP. - AIRTEK DIVISION LANCASTER, NY 14086
DRAWN: J.A.C. DATE: 3-14-08
CHECKED: DATE:
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
FLOOR DOCUMENT
THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER-AIRTEK (PARKER). THIS DOCUMENT IS FURNISHED ON THE UNDERSTANDING THAT THE DOCUMENT AND THE INFORMATION CONTAINED THEREIN WILL BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST. UNPUBLISHED RIGHTS RESERVED UNDER THE COPYRIGHT LAWS OF THE UNITED STATES OF AMERICA. COPYRIGHT (C) FIRST YEAR INDICATED ON THIS DOCUMENT. ALL RIGHTS RESERVED.
OUTPUTS 85 to 265VAC 1/2A MAX
J2 ESTOP E-STOP SWITCH OUT
ESTOP E-STOP SWITCH IN
J3 LP LOW PRESSURE IN
HP HIGH PRESSURE IN
CP COMPRESSOR RUN
L2 NEUTRAL
J4 SU SUCTION SOL
L2 NEUTRAL
GND
UL UNLOADER SOL
L2 NEUTRAL
GND
J5 DR DRAIN(S) SOL
L2 NEUTRAL
GND
J6 CA CYLANDER HEAD A
L2 NEUTRAL
GND
CB CYLANDER HEAD B
L2 NEUTRAL
GND
J7 FA FAN CONTROL A
FB FAN CONTROL B
L2 NEUTRAL
NOT USED THIS MODEL
FROM CONTACTOR C1 T1 T2 T3
INTERNAL MOTOR PROTECTION
JUMPER (TIE WRAP TO WIRING HARNESS)
104 105
(BLK18) (BLK18)
106 107 108 109
(VIO18) (ORA18) (BLK18) (WHT18)
110 111 112 113 114 115
(BLK) (WHT) (GRN) (BLK) (WHT) (GRN)
116 117 118
(BLK) (WHT) (GRN)
125 126 127
SUMP DRAIN ASSEMBLY KF4085-CC-1
DS1
C1
(WHT18) 109
SUPPRESSOR P/N EW9501
COMPRESSOR CONTROL
(BLU)
(VIO18)
LOW PRESSURE
HIGH PRESSURE
SERVICE SWITCH
(RED)
(YEL)
(ORG18)
(BLK)
HIGH PRESSURE
LOW PRESSURE
r404A
OPEN (410)
CLOSE (65)
OPEN (30)
LEVEL EXPANSION VALVE HEATER
SUCTION LINE SOL.
LIQUID LINE SOL.
UNLOADER SOL.
LL
LS
U1
FC-A
FC-B
FAN CONTACTORS (AIR COOLED DRYERS ONLY)


REVISION STATUS
LTR ECO NO. DESCRIPTION DATE APPROVED
F 563 CORRECTED FANS TO BE 3 PHASE FANS 5-13-11 A.S.
DEW POINT
SUCTION TEMP
INLET TEMP
CONDENSER TEMP
SUCTION PRESSURE TRANSDUCER
DISCHARGE PRESSURE TRANSDUCER
1-5 Volt
DRAIN FLOAT SWITCH
NOT USED THIS MODEL
RESET
MODE SELECT
NEMA 4 ENCLOSURE OPTION:
REMOTE SYSTEM RESET, &
REMOTE MODE SELECT
MOMENTARY PUSHBUTTONS.
RS-232 SERIAL COMMUNICATIONS
FLOOR DOCUMENT
SC+Series 3000 SCFM
460v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PARKER-HANNIFIN CORP. - AIRTEK DIVISION
LANCASTER, NY 14086
DRAWN: J.A.C. DATE: 3-14-08
CHECKED: DATE:
PROD. REF. N/A
DRAWING NO. ADE7580
REV G
SCALE: N.T.S.
SHEET 3 of 3
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES = ± 3°
INCHES = ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER-AIRTEK (PARKER). THIS DOCUMENT IS FURNISHED ON THE UNDERSTANDING THAT THE RECIPIENT AND THE INFORMATION CONTAINED WILL NOT BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST BY PARKER. COPYRIGHT PARKER-HANNIFIN OR COPYRIGHT IS FIRST YEAR INDICATED ON THIS DOCUMENT. ALL RIGHTS RESERVED.


REVISION STATUS
LTR | ECO NO. | DESCRIPTION | DATE | APPROVED
B | 146 | ADDED WIRE DETAILS | 9-22-10 | RJM
SC+Series 330-1200 SCFM DRYERS
230v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE9769
REV B
SCALE: N.T.S.
SHEET 1 of 3
PARKER-HANNIFIN CORP. - AIRTEK DIVISION
LANCASTER, NY - 14086
DRAWN: R.J.M. DATE: 5-24-10
CHECKED: SWK DATE: 5-24-10
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
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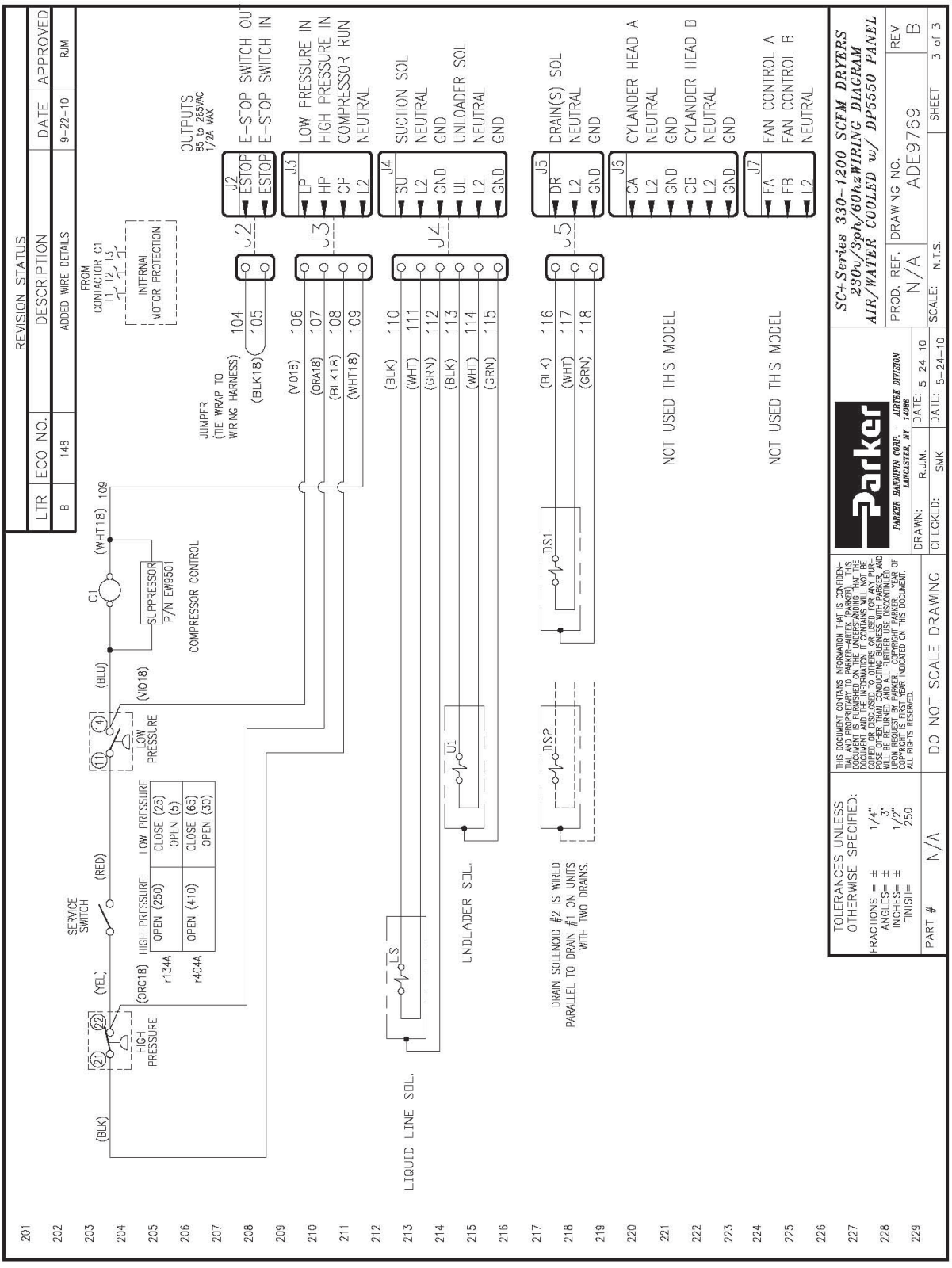
230V/3Ø/60HZ
CUSTOMER TO PROVIDE BREACH & SHORT CIRCUIT PROTECTION AND DISCONNECTION MEANS PER LOCAL & NATIONAL CODES.
FAN & FAN CONTROLS ON AIR COOLED MODELS ONLY.
CUSTOMER WIRING SHOWN IN HIDDEN (- - - - - -) LINES.
DISC
L1 L2 L3
(GREEN)
(GRN12)
(BLK12)
(BLK18)
(BLK)
(BLK14)
FUSE P1
FUSE P2
2L2
2L1
230VAC
TR1
ET0150
150VA
H1 H2 H3 H4
X1 X2
120V
FUSES P1, P2, S1
P/N EF-150
1.5A, FAST
FUSE S1
(WHT18)
(GRN18)
ESTOP SWT
SYSTEM OUTPUT & AC CIRCUITS
INSTRUMENTATION & INPUT CIRCUITS
WIRING HARNESS
SERIAL COMM PORT
DP5550
CONFIGURATION CODE:
R134A = '2' or R404A = '3'
USER COMMON ALARM (DRY CONTACT)
CRANK CASE HEATER
COMPRESSOR MOTOR
CM1
C1
1L1 1L2 1L3
5L1 5L2 5L3
PS-1
PS-2
BANK ONE
BANK TWO
FAN MOTOR #1
FAN MOTOR #2
FM1
FM2
AIR COOLED DRYERS ONLY
r404A r134A
230 120
180 80
260 140
210 100


REVISION STATUS
LTR ECO NO. DESCRIPTION DATE APPROVED
B 146 ADDED WIRE DETAILS 9-22-10 RJM
SC+ Series 330-1200 SCFM DRYERS
230v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE9769
REV B
SCALE: N.T.S.
SHEET 3 of 3
DRAWN: R.J.M. DATE: 5-24-10
CHECKED: SMK DATE: 5-24-10
PARKER-HANNIFIN CORP. - AIRTEK DIVISION
LANCASTER, NY 14086
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
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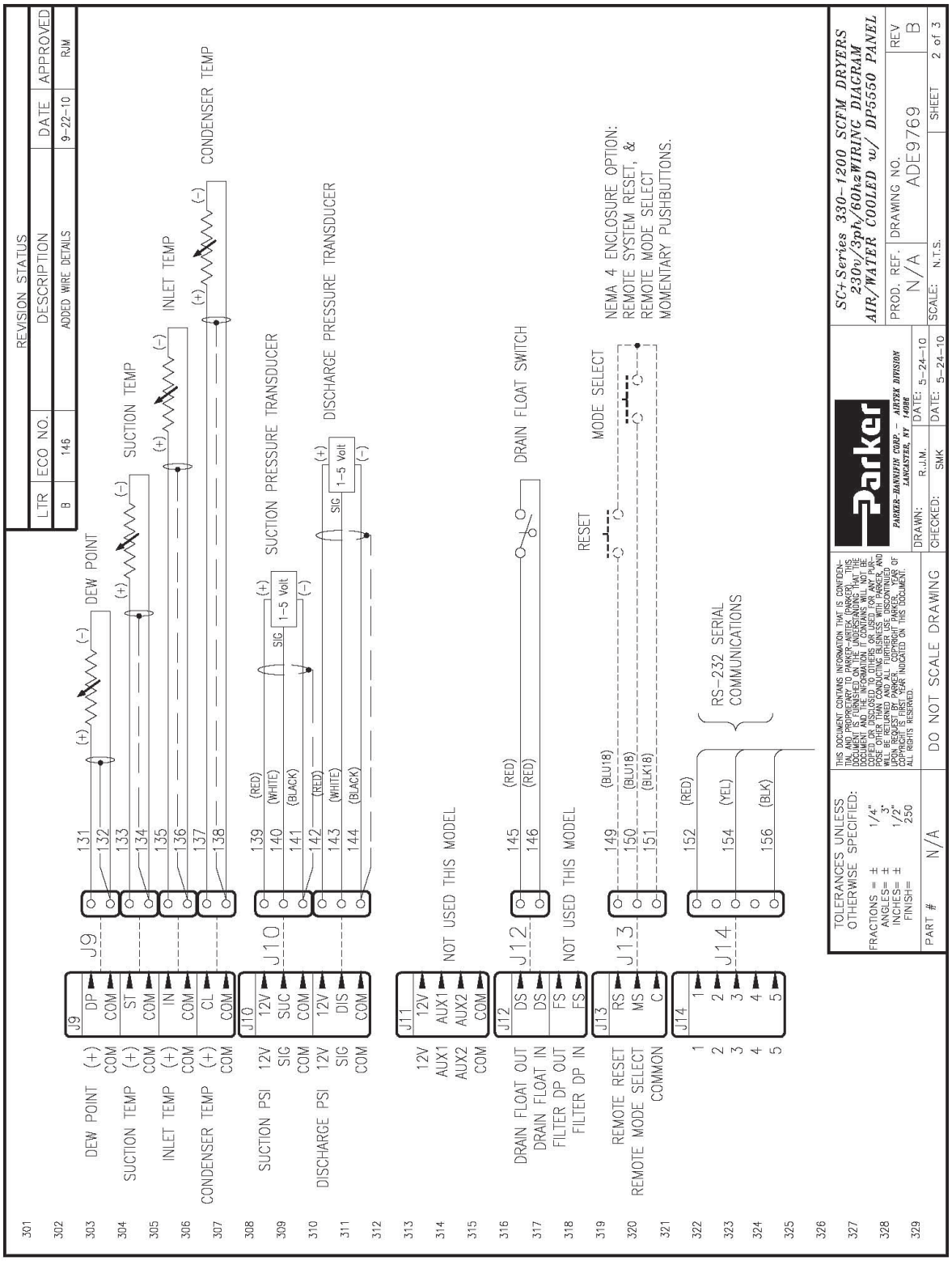
OUTPUTS 85 to 265VAC 1/2A MAX
J2 ESTOP E-STOP SWITCH OUT
ESTOP E-STOP SWITCH IN
J3 LP LOW PRESSURE IN
HP HIGH PRESSURE IN
CP COMPRESSOR RUN
L2 NEUTRAL
J4 SU SUCTION SOL
L2 NEUTRAL
GND GND
UL UNLOADER SOL
L2 NEUTRAL
GND GND
J5 DR DRAIN(S) SOL
L2 NEUTRAL
GND GND
J6 CA CYLANDER HEAD A
L2 NEUTRAL
GND GND
CB CYLANDER HEAD B
L2 NEUTRAL
GND GND
J7 FA FAN CONTROL A
FB FAN CONTROL B
L2 NEUTRAL
NOT USED THIS MODEL
NOT USED THIS MODEL
FROM CONTACTOR C1 T1 T2 T3
INTERNAL MOTOR PROTECTION
JUMPER (TIE WRAP TO WIRING HARNESS)
104 105 106 107 108 109 110 111 112 113 114 115 116 117 118
(BLK18) (VIO18) (ORA18) (BLK18) (WHT18) (BLK) (WHT) (GRN) (BLK) (WHT) (GRN) (BLK) (WHT) (GRN)
C1 (WHT18) 109
SUPPRESSOR P/N EW9501
COMPRESSOR CONTROL
LOW PRESSURE (BLU) (VIO18)
HIGH PRESSURE (ORG18) (YEL) (RED) (BLK)
SERVICE SWITCH
HIGH PRESSURE LOW PRESSURE
r134A OPEN (250) CLOSE (25) OPEN (5)
r404A OPEN (410) CLOSE (65) OPEN (30)
LIQUID LINE SOL. LS
UNLOADER SOL. U1
DRAIN SOLENOID #2 IS WIRED PARALLEL TO DRAIN #1 ON UNITS WITH TWO DRAINS. DS2 DS1


REVISION STATUS
LTR ECO NO. DESCRIPTION DATE APPROVED
B 146 ADDED WIRE DETAILS 9-22-10 RJM
SC+Series 330-1200 SCFM DRYERS
230v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PARKER-HANNIFIN CORP. - AIRTEK DIVISION
LANCASTER, NY 14086
DRAWN: R.J.M. DATE: 5-24-10
CHECKED: SMK DATE: 5-24-10
PROD. REF. N/A
DRAWING NO. ADE9769
REV B
SCALE: N.T.S.
SHEET 2 of 3
PART # N/A
DO NOT SCALE DRAWING
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
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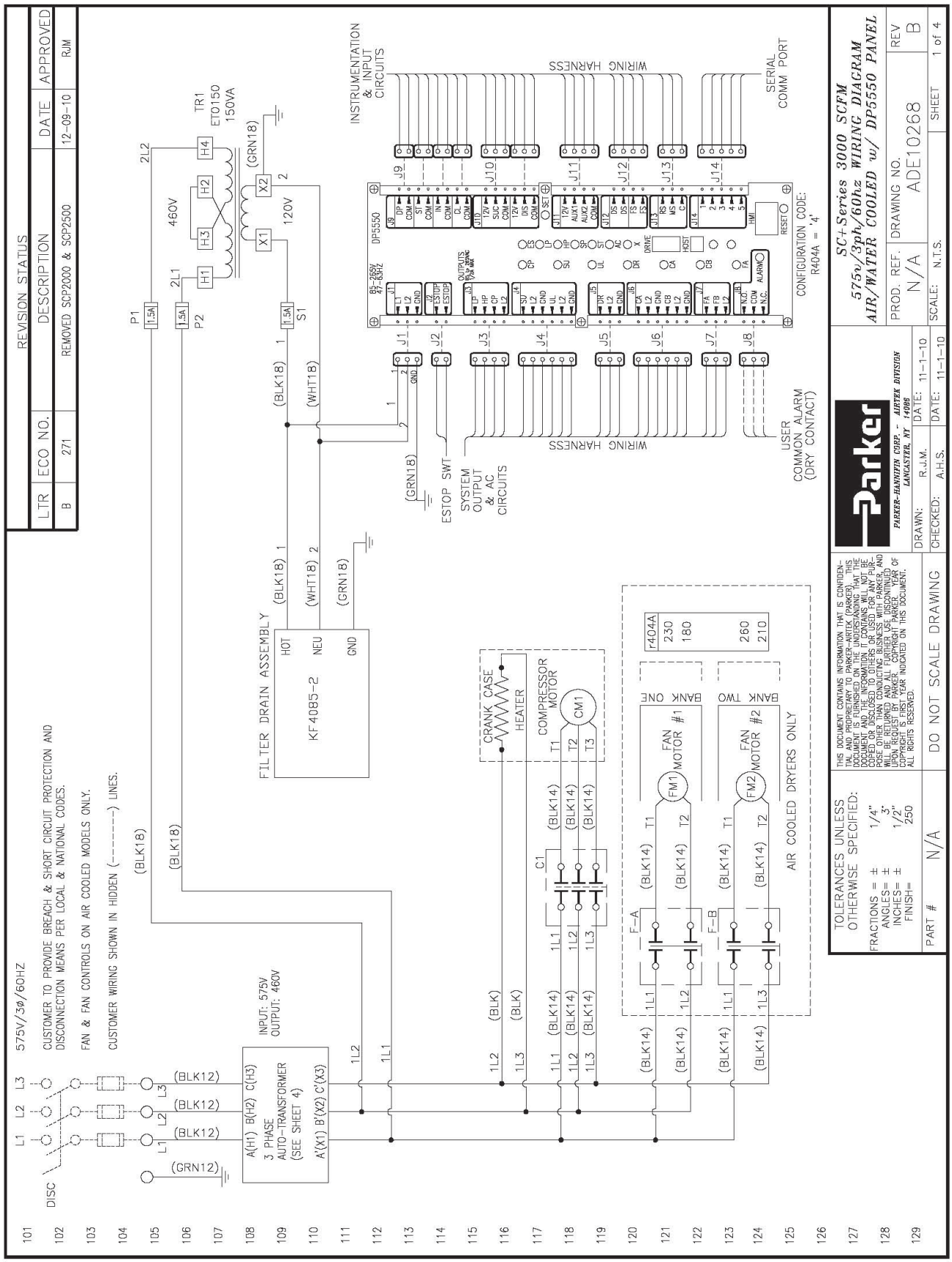
DEW POINT (+) COM
SUCTION TEMP (+) COM
INLET TEMP (+) COM
CONDENSER TEMP (+) COM
SUCTION PSI 12V SIG COM
DISCHARGE PSI 12V SIG COM
12V AUX1 AUX2 COM
DRAIN FLOAT OUT
DRAIN FLOAT IN
FILTER DP OUT
FILTER DP IN
REMOTE RESET
REMOTE MODE SELECT
COMMON
1 2 3 4 5
J9 DP COM ST COM IN COM CL COM
J10 12V SUC COM 12V DIS COM
J11 12V AUX1 AUX2 COM
J12 DS DS FS FS
J13 RS MS C
J14 1 2 3 4 5
131 132 133 134 135 136 137 138
139 (RED) 140 (WHITE) 141 (BLACK) 142 (RED) 143 (WHITE) 144 (BLACK)
145 (RED) 146 (RED)
149 (BLU18) 150 (BLU18) 151 (BLK18)
152 (RED) 154 (YEL) 156 (BLK)
(+) (-)
DEW POINT
SUCTION TEMP
INLET TEMP
CONDENSER TEMP
SUCTION PRESSURE TRANSDUCER
SIG 1-5 Volt
DISCHARGE PRESSURE TRANSDUCER
DRAIN FLOAT SWITCH
RESET
MODE SELECT
NOT USED THIS MODEL
NOT USED THIS MODEL
RS-232 SERIAL COMMUNICATIONS
NEMA 4 ENCLOSURE OPTION:
REMOTE SYSTEM RESET, &
REMOTE MODE SELECT
MOMENTARY PUSHBUTTONS.


REVISION STATUS
LTR | ECO NO. | DESCRIPTION | DATE | APPROVED
B | 271 | REMOVED SCP2000 & SCP2500 | 12-09-10 | RJM
575V/3Ø/60HZ
CUSTOMER TO PROVIDE BREACH & SHORT CIRCUIT PROTECTION AND DISCONNECTION MEANS PER LOCAL & NATIONAL CODES.
FAN & FAN CONTROLS ON AIR COOLED MODELS ONLY.
CUSTOMER WIRING SHOWN IN HIDDEN (- - - - - -) LINES.
DISC
INPUT: 575V
OUTPUT: 460V
3 PHASE AUTO-TRANSFORMER (SEE SHEET 4)
FILTER DRAIN ASSEMBLY
KF4085-2
HOT
NEU
GND
TR1 ET0150 150VA
460V
120V
INSTRUMENTATION & INPUT CIRCUITS
WIRING HARNESS
SERIAL COMM PORT
DP5550
CONFIGURATION CODE: R404A = '4'
ESTOP SWT
SYSTEM OUTPUT & AC CIRCUITS
USER COMMON ALARM (DRY CONTACT)
CRANK CASE HEATER
COMPRESSOR MOTOR
FAN MOTOR #1
FAN MOTOR #2
BANK ONE
BANK TWO
r404A 230 180
260 210
AIR COOLED DRYERS ONLY
SC+Series 3000 SCFM
575v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE10268
REV B
SCALE: N.T.S.
SHEET 1 of 4
DRAWN: R.J.M. DATE: 11-1-10
CHECKED: A.H.S. DATE: 11-1-10
PARKER-HANNIFIN CORP. - AIRTEX DIVISION LANCASTER, NY 14086
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES = ± 3°
INCHES = ± 1/2"
FINISH = 250
PART # N/A
DO NOT SCALE DRAWING
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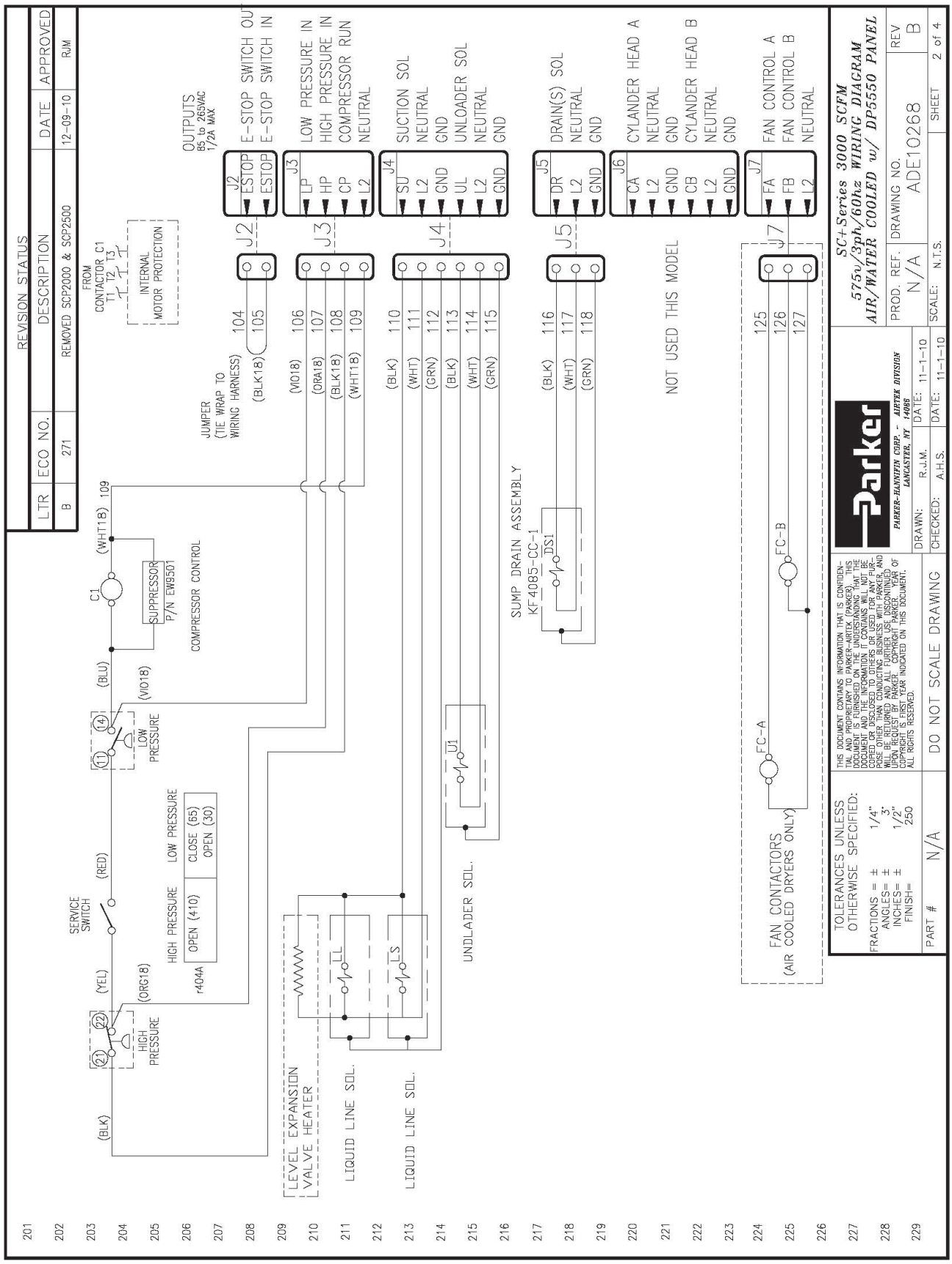
REVISION STATUS
LTR ECO NO. DESCRIPTION DATE APPROVED
B 271 REMOVED SCP2000 & SCP2500 12-09-10 RJM
SC+Series 3000 SCFM
575v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE10268
REV B
SHEET 2 of 4
SCALE: N.T.S.
PARKER-HANNIFIN CORP. - AIRTEK DIVISION LANCASTER, NY 14086
DRAWN: R.J.M. DATE: 11-1-10
CHECKED: A.H.S. DATE: 11-1-10
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
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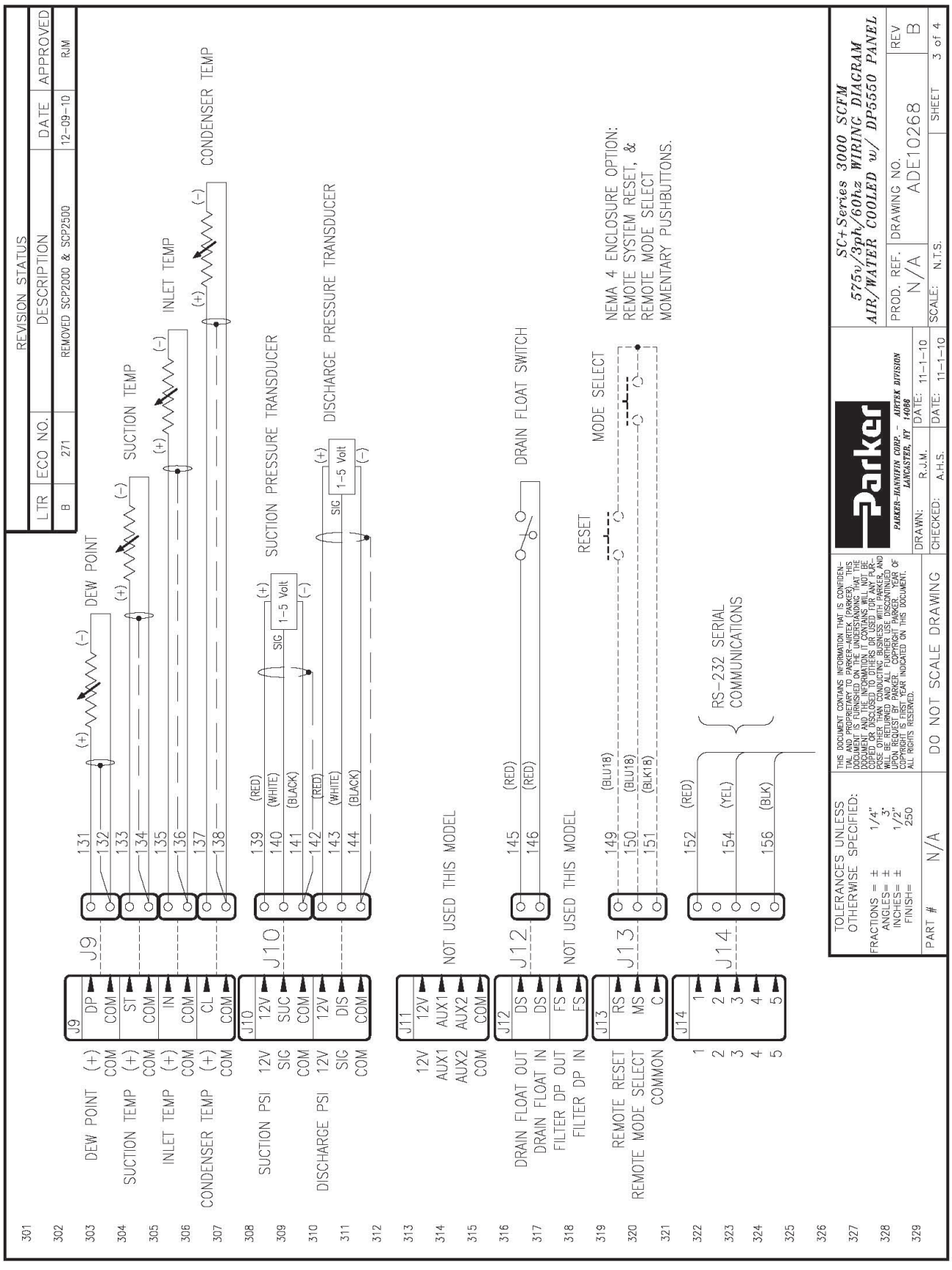
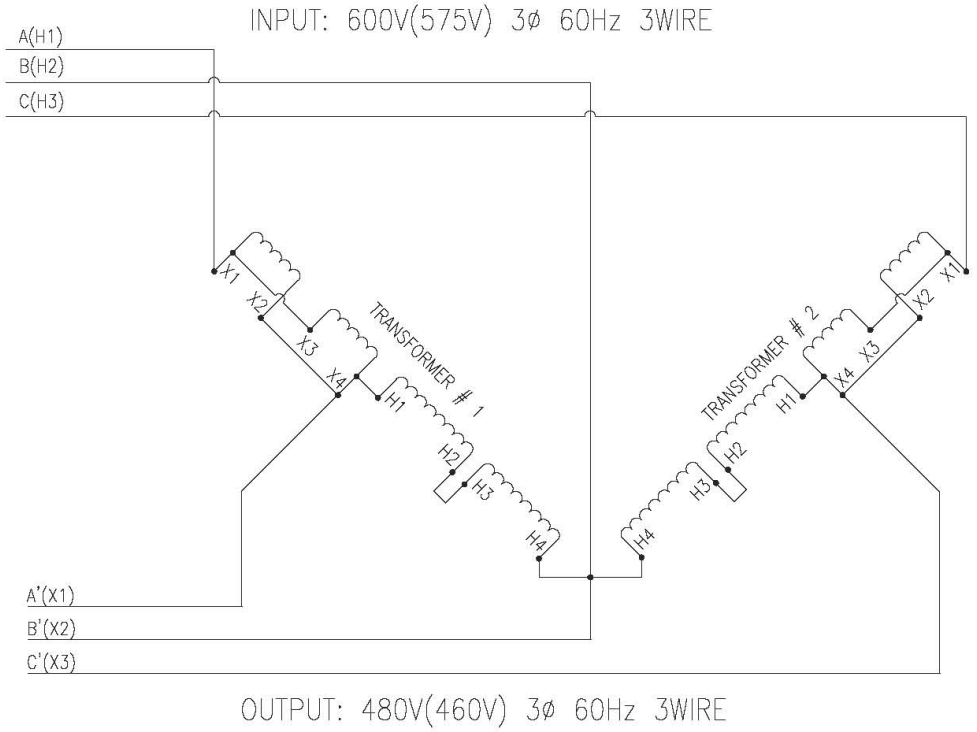
OUTPUTS 85 to 265VAC 1/2A MAX
J2 ESTOP E-STOP SWITCH OUT
ESTOP E-STOP SWITCH IN
J3 LP LOW PRESSURE IN
HP HIGH PRESSURE IN
CP COMPRESSOR RUN
L2 NEUTRAL
J4 SU SUCTION SOL
L2 NEUTRAL
GND
UL UNLOADER SOL
L2 NEUTRAL
GND
J5 DR DRAIN(S) SOL
L2 NEUTRAL
GND
J6 CA CYLANDER HEAD A
L2 NEUTRAL
GND
CB CYLANDER HEAD B
L2 NEUTRAL
GND
J7 FA FAN CONTROL A
FB FAN CONTROL B
L2 NEUTRAL
NOT USED THIS MODEL
FROM CONTACTOR C1 T1 T2 T3
INTERNAL MOTOR PROTECTION
JUMPER (TIE WRAP TO WIRING HARNESS)
104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 125 126 127
(BLK18) (VIO18) (ORA18) (BLK18) (WHT18) (BLK) (WHT) (GRN) (BLK) (WHT) (GRN) (BLK) (WHT) (GRN)
C1 (WHT18) 109
(BLU) (VIO18)
SUPPRESSOR P/N EW9501
COMPRESSOR CONTROL
LOW PRESSURE
HIGH PRESSURE
SERVICE SWITCH
(RED) (YEL) (ORG18) (BLK)
HIGH PRESSURE LOW PRESSURE
OPEN (410) CLOSE (65) OPEN (30)
r404A
LEVEL EXPANSION VALVE HEATER
LIQUID LINE SOL. LL
LIQUID LINE SOL. LS
UNLOADER SOL. U1
SUMP DRAIN ASSEMBLY KF4085-CC-1 DS1
FAN CONTACTORS (AIR COOLED DRYERS ONLY) FC-A FC-B


REVISION STATUS
LTR ECO NO. DESCRIPTION DATE APPROVED
B 271 REMOVED SCP2000 & SCP2500 12-09-10 RJM
SC+Series 3000 SCFM
575v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE10268
REV B
SCALE: N.T.S.
SHEET 3 of 4
PARKER-HANNIFIN CORP. - AIRTEK DIVISION LANCASTER, NY 14086
DRAWN: R.J.M. DATE: 11-1-10
CHECKED: A.H.S. DATE: 11-1-10
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES = ± 3°
INCHES = ± 1/2"
FINISH = 250
PART # N/A
DO NOT SCALE DRAWING
THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER-AIRTEK (PARKER). THIS DOCUMENT IS FURNISHED ON THE UNDERSTANDING THAT THE RECIPIENT AND THE NAMED CUSTOMER WILL NOT BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST BY PARKER. COPYRIGHT PARKER-HANNIFIN & COPYRIGHT IS FIRST YEAR INDICATED ON THIS DOCUMENT. ALL RIGHTS RESERVED.
DEW POINT (+) COM
SUCTION TEMP (+) COM
INLET TEMP (+) COM
CONDENSER TEMP (+) COM
SUCTION PSI 12V SIG COM
DISCHARGE PSI 12V SIG COM
DRAIN FLOAT OUT
DRAIN FLOAT IN
FILTER DP OUT
FILTER DP IN
REMOTE RESET
REMOTE MODE SELECT
COMMON
12V AUX1 AUX2 COM
NOT USED THIS MODEL
NOT USED THIS MODEL
RS-232 SERIAL COMMUNICATIONS
DEW POINT
SUCTION TEMP
INLET TEMP
CONDENSER TEMP
SUCTION PRESSURE TRANSDUCER
DISCHARGE PRESSURE TRANSDUCER
1-5 Volt
DRAIN FLOAT SWITCH
RESET
MODE SELECT
NEMA 4 ENCLOSURE OPTION:
REMOTE SYSTEM RESET, &
REMOTE MODE SELECT
MOMENTARY PUSHBUTTONS.
J9 J10 J11 J12 J13 J14
(RED) (WHITE) (BLACK) (BLU18) (BLK18) (YEL) (BLK)

REVISION STATUS				
LTR	ECO NO.	DESCRIPTION	DATE	APPROVED
B	271	REMOVED SCP2000 & SCP2500	12-09-10	RJM



THIS IS AN AUTO-TRANSFORMER CONNECTION

CUSTOMER TO PROVIDE BREACH AND OVER-CURRENT PROTECTION ACCORDING TO NATIONAL AND LOCAL CODES.

TYPE CC TIME DELAY FUSE RECOMMENDED.

TOLERANCES UNLESS OTHERWISE SPECIFIED:

FRACTIONS = ±	1/4"
ANGLES= ±	3°
INCHES= ±	1/2"
FINISH=	250

PART # N/A

DO NOT SCALE DRAWING

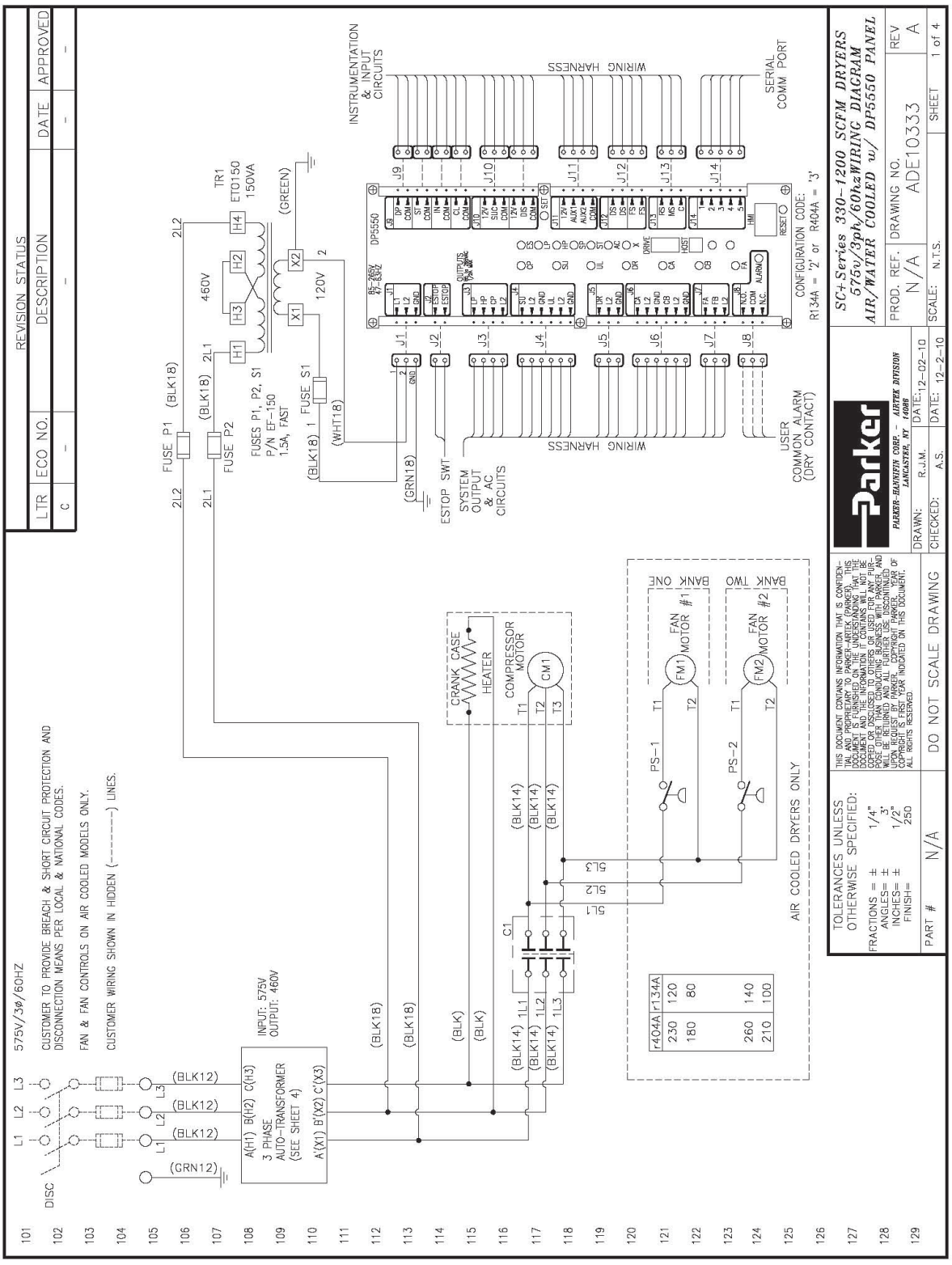
PARKER-HANNIFIN CORP. - AIRTEK DIVISION
LANCASTER, NY 14086

DRAWN:	R.J.M.	DATE:	11-1-10
CHECKED:	A.H.S.	DATE:	11-1-10

SC+Series 3000 SCFM
575v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL

PROD. REF.	DRAWING NO.	REV
N/A	ADE10268	B

SCALE: N.T.S. SHEET 4 of 4


REVISION STATUS
LTR | ECO NO. | DESCRIPTION | DATE | APPROVED
C | - | - | - | -
575V/3ø/60HZ
CUSTOMER TO PROVIDE BREACH & SHORT CIRCUIT PROTECTION AND DISCONNECTION MEANS PER LOCAL & NATIONAL CODES.
FAN & FAN CONTROLS ON AIR COOLED MODELS ONLY.
CUSTOMER WIRING SHOWN IN HIDDEN (- - - - - -) LINES.
DISC
INPUT: 575V
OUTPUT: 460V
A(H1) B(H2) C(H3)
3 PHASE
AUTO-TRANSFORMER
(SEE SHEET 4)
A'(X1) B'(X2) C'(X3)
FUSE P1
FUSE P2
FUSES P1, P2, S1
P/N EF-150
1.5A, FAST
FUSE S1
TR1
ET0150
150VA
460V
120V
2L1
2L2
H1
H2
H3
H4
X1
X2
(BLK18)
(WHT18)
(GREEN)
(GRN18)
(BLK12)
(BLK)
(BLK14)
1L1
1L2
1L3
C1
CRANK CASE
HEATER
COMPRESSOR
MOTOR
CM1
T1
T2
T3
PS-1
PS-2
BANK ONE
BANK TWO
FAN
MOTOR #1
FM1
FAN
MOTOR #2
FM2
r404A r134A
230 120
180 80
260 140
210 100
AIR COOLED DRYERS ONLY
INSTRUMENTATION
& INPUT
CIRCUITS
WIRING HARNESS
SERIAL
COMM PORT
DP5550
ESTOP SWT
SYSTEM
OUTPUT
& AC
CIRCUITS
USER
COMMON ALARM
(DRY CONTACT)
CONFIGURATION CODE:
R134A = '2' or R404A = '3'
SC+Series 330-1200 SCFM DRYERS
575v/3ph/60hzWIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PARKER-HANNIFIN CORP. - AIRTEK DIVISION
LANCASTER, NY 14086
DRAWN: R.J.M. DATE: 12-02-10
CHECKED: A.S. DATE: 12-2-10
PROD. REF. N/A
DRAWING NO. ADE10333
REV A
SCALE: N.T.S.
SHEET 1 of 4
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3'
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
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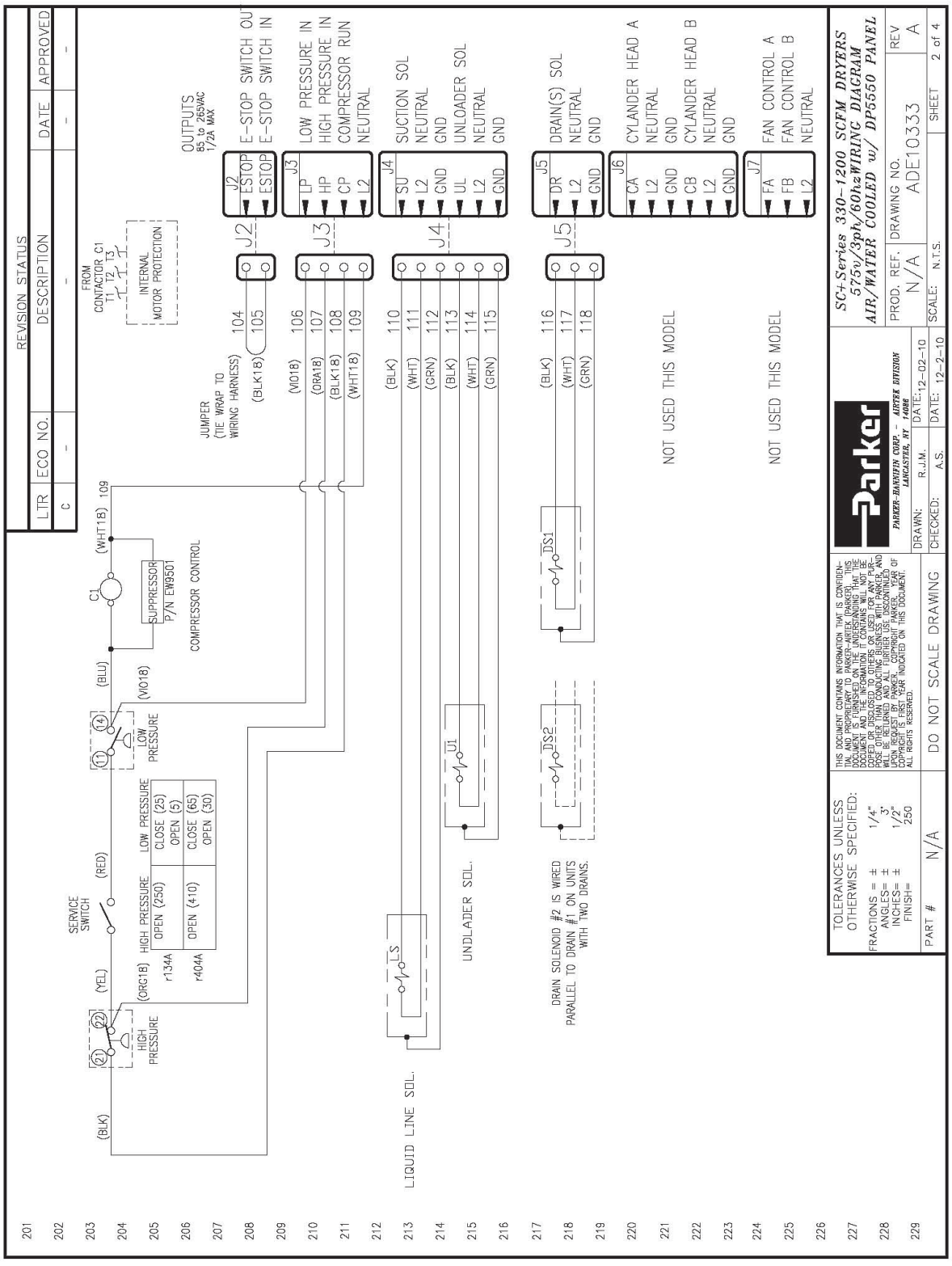
REVISION STATUS
LTR ECO NO. DESCRIPTION DATE APPROVED
C - - - -
SC+Series 330-1200 SCFM DRYERS
575v/3ph/60hzWIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE10333
REV A
SHEET 2 of 4
SCALE: N.T.S.
DRAWN: R.J.M. DATE: 12-02-10
CHECKED: A.S. DATE: 12-2-10
PARKER-HANNIFIN CORP. - LITTER DIVISION
LANCASTER, NY 14086
Parker
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
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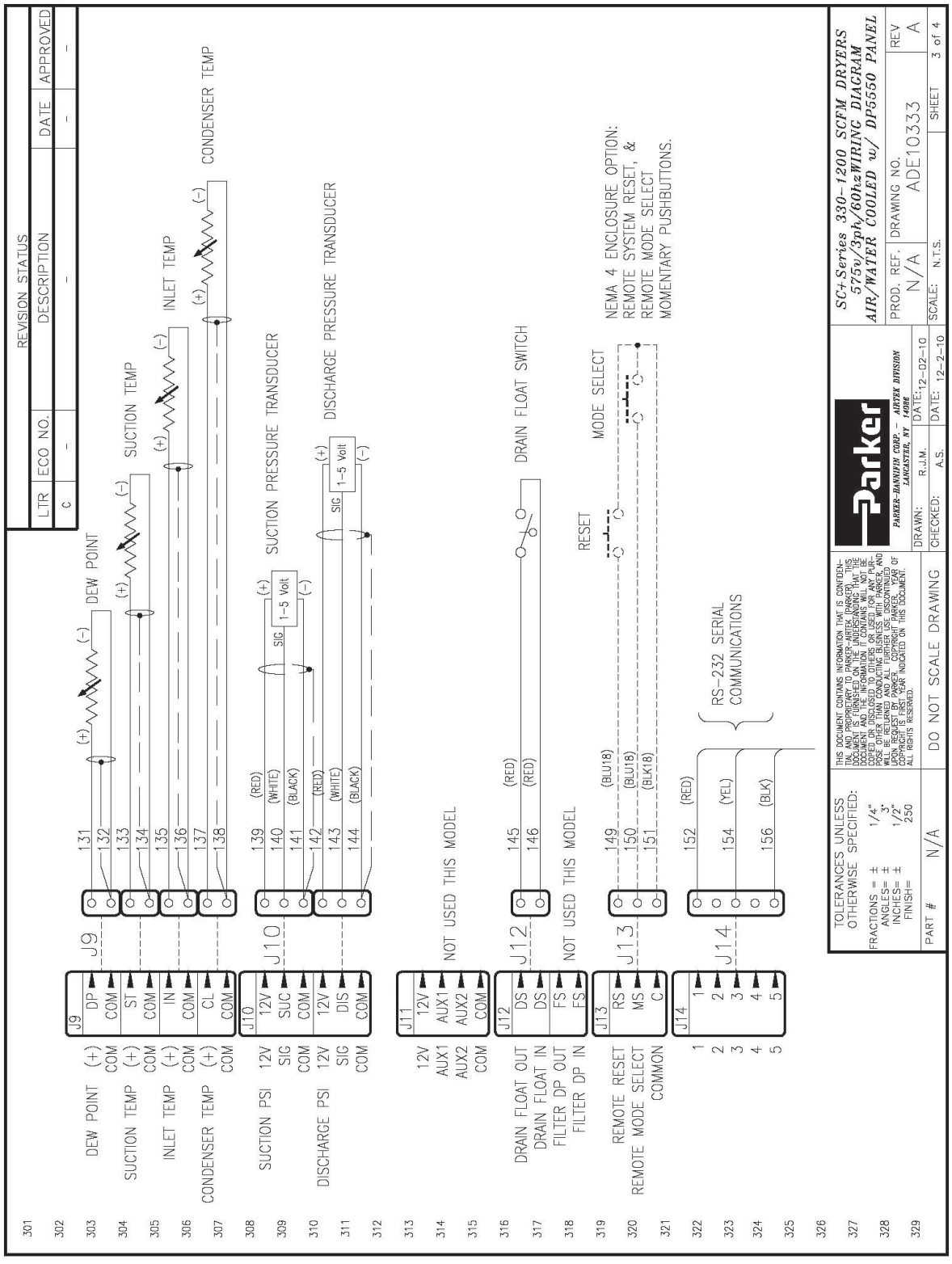
ALL RIGHTS RESERVED.
FROM CONTACTOR C1 T1 T2 T3
INTERNAL MOTOR PROTECTION
OUTPUTS 85 to 265VAC 1/2A MAX
J2 ESTOP ESTOP
E-STOP SWITCH OUT
E-STOP SWITCH IN
J3 LP HP CP L2
LOW PRESSURE IN
HIGH PRESSURE IN
COMPRESSOR RUN
NEUTRAL
J4 SU L2 GND UL L2 GND
SUCTION SOL
NEUTRAL
GND
UNLOADER SOL
NEUTRAL
GND
J5 DR L2 GND
DRAIN(S) SOL
NEUTRAL
GND
J6 CA L2 GND CB L2 GND
CYLANDER HEAD A
NEUTRAL
GND
CYLANDER HEAD B
NEUTRAL
GND
J7 FA FB L2
FAN CONTROL A
FAN CONTROL B
NEUTRAL
JUMPER (TIE WRAP TO WIRING HARNESS)
(BLK18) 104 105
(VIO18) 106
(ORA18) 107
(BLK18) 108
(WHT18) 109
(BLK) 110
(WHT) 111
(GRN) 112
(BLK) 113
(WHT) 114
(GRN) 115
(BLK) 116
(WHT) 117
(GRN) 118
(WHT18) 109
C1
SUPPRESSOR P/N EW9501
COMPRESSOR CONTROL
(BLU)
(VIO18)
LOW PRESSURE
SERVICE SWITCH
(RED)
(YEL)
(ORG18)
HIGH PRESSURE
HIGH PRESSURE
r134A
r404A
OPEN (250)
OPEN (410)
CLOSE (25)
OPEN (5)
CLOSE (65)
OPEN (30)
(BLK)
LS
LIQUID LINE SOL.
U1
UNDLADER SOL.
DS2
DRAIN SOLENOID #2 IS WIRED PARALLEL TO DRAIN #1 ON UNITS WITH TWO DRAINS.
DS1
NOT USED THIS MODEL
NOT USED THIS MODEL


REVISION STATUS
LTR ECO NO. DESCRIPTION DATE APPROVED
C - - - -
DEW POINT
SUCTION TEMP
INLET TEMP
CONDENSER TEMP
SUCTION PRESSURE TRANSDUCER
DISCHARGE PRESSURE TRANSDUCER
1-5 Volt
NOT USED THIS MODEL
DRAIN FLOAT SWITCH
RESET
MODE SELECT
NEMA 4 ENCLOSURE OPTION:
REMOTE SYSTEM RESET, &
REMOTE MODE SELECT
MOMENTARY PUSHBUTTONS.
RS-232 SERIAL COMMUNICATIONS
DP
ST
IN
CL
SUC
DIS
DS
FS
MS
C
RS
12V
AUX1
AUX2
COM
SIG
(+)
(-)
(RED)
(WHITE)
(BLACK)
(BLU18)
(BLK18)
(YEL)
(BLK)
J9
J10
J11
J12
J13
J14
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
149
150
151
152
154
156
1
2
3
4
5
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
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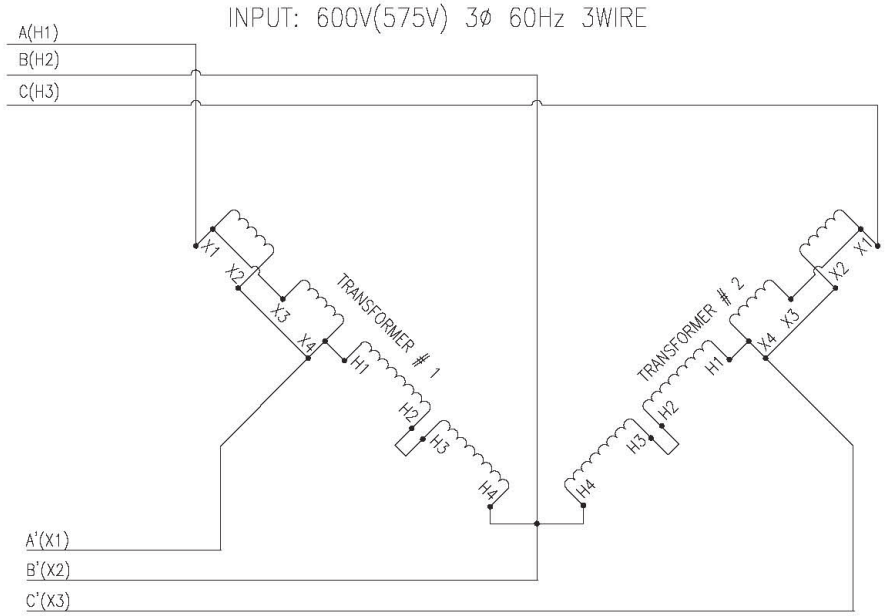
Parker
PARKER-HANNIFIN CORP. - AIRTEK DIVISION
LANCASTER, NY 14086
DRAWN: R.J.M. DATE: 12-02-10
CHECKED: A.S. DATE: 12-2-10
SC+Series 330-1200 SCFM DRYERS
575v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE10333
REV A
SCALE: N.T.S.
SHEET 3 of 4

REVISION STATUS				
LTR	ECO NO.	DESCRIPTION	DATE	APPROVED
C	–	–	–	–



THIS IS AN AUTO–TRANSFORMER CONNECTION

CUSTOMER TO PROVIDE BREACH AND OVER–CURRENT PROTECTION ACCORDING TO NATIONAL AND LOCAL CODES.

TYPE CC TIME DELAY FUSE RECOMMENDED.

TOLERANCES UNLESS OTHERWISE SPECIFIED:

FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250

PART # N/A

DO NOT SCALE DRAWING

Parker

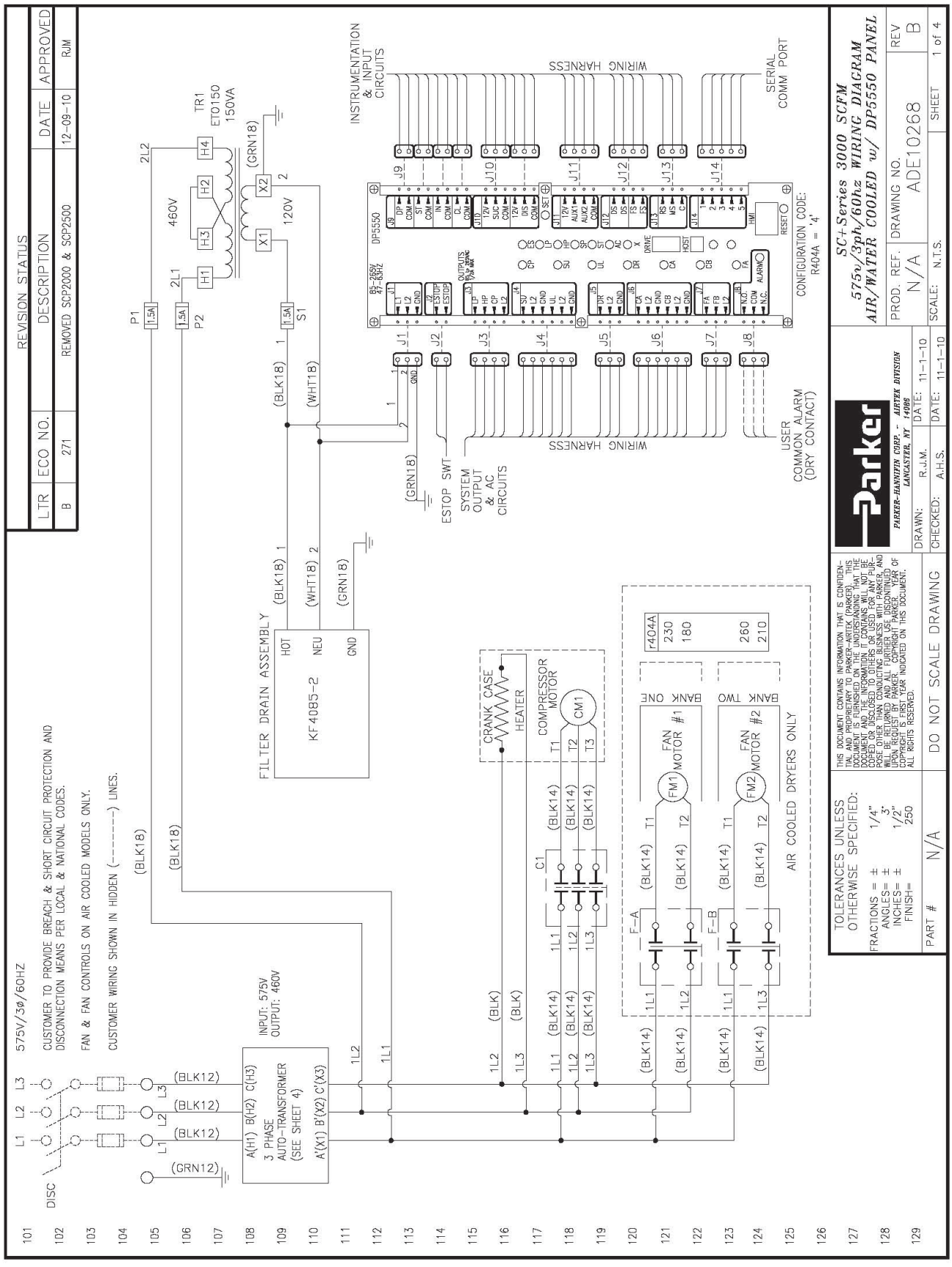
PARKER–HANNIFIN CORP. – AIRTEK DIVISION
LANCASTER, NY 14086

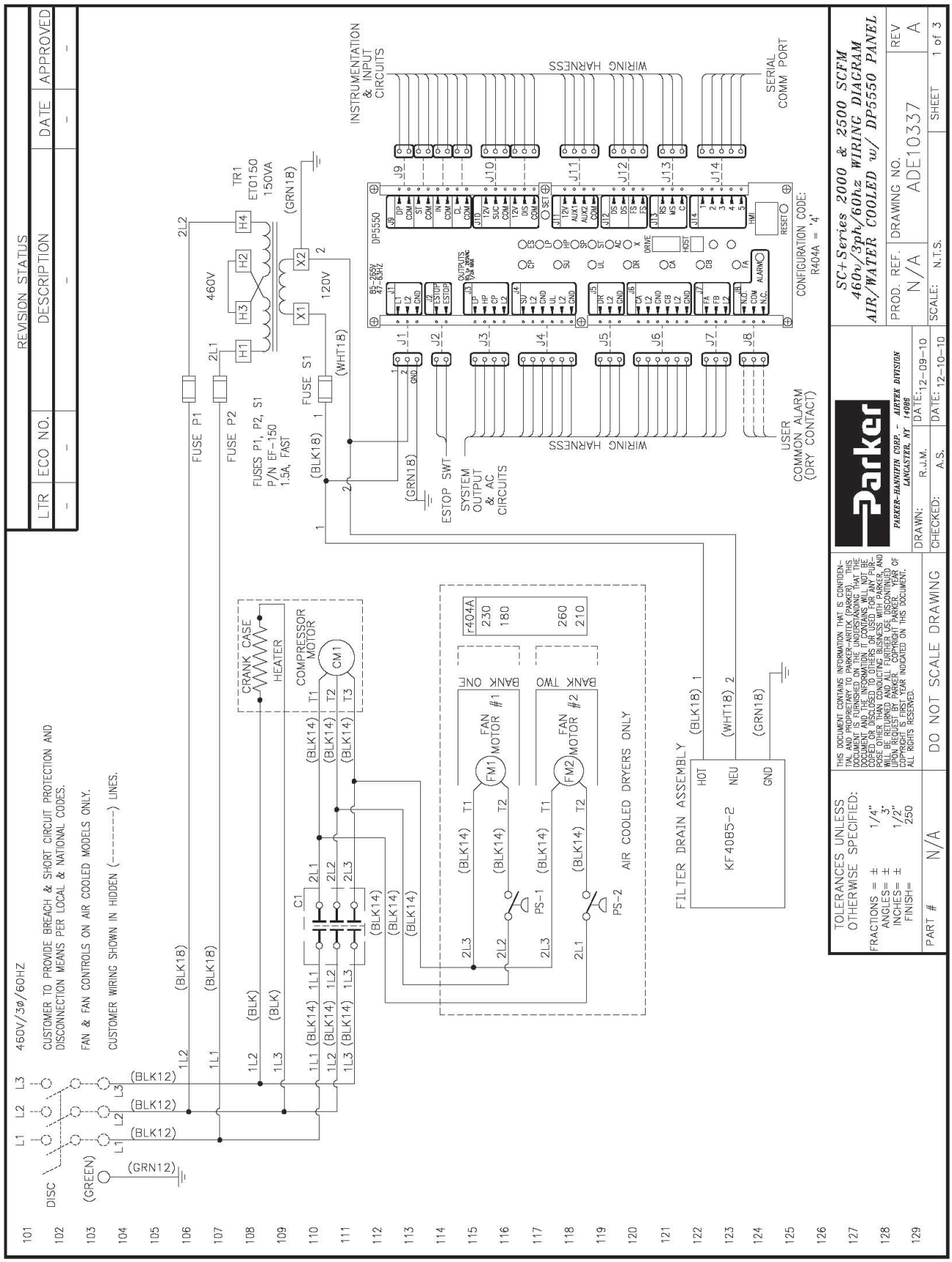
DRAWN: R.J.M. DATE: 12–02–10
CHECKED: A.S. DATE: 12–2–10

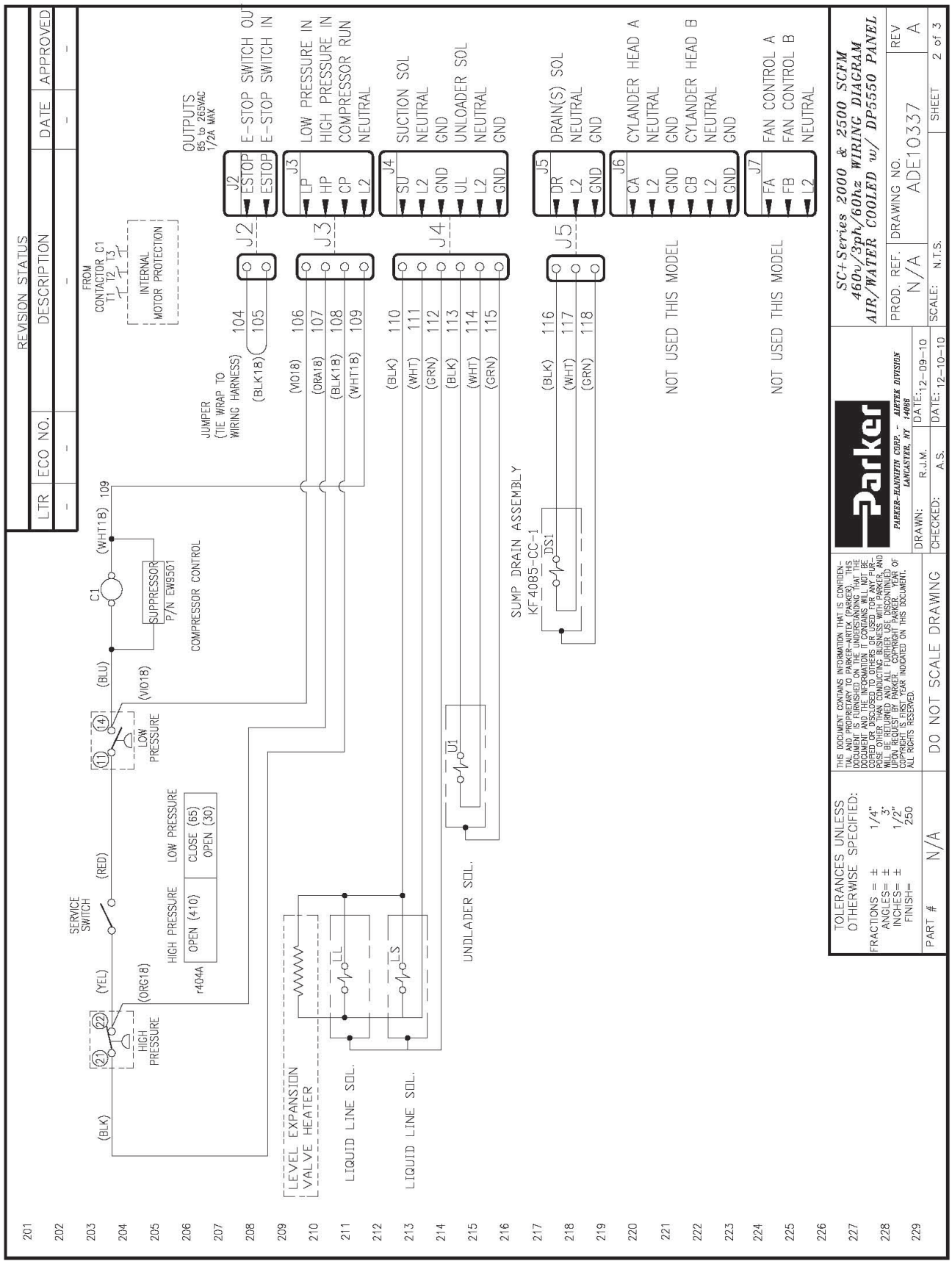
SC+Series 330–1200 SCFM DRYERS
575v/3ph/60hzWIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL

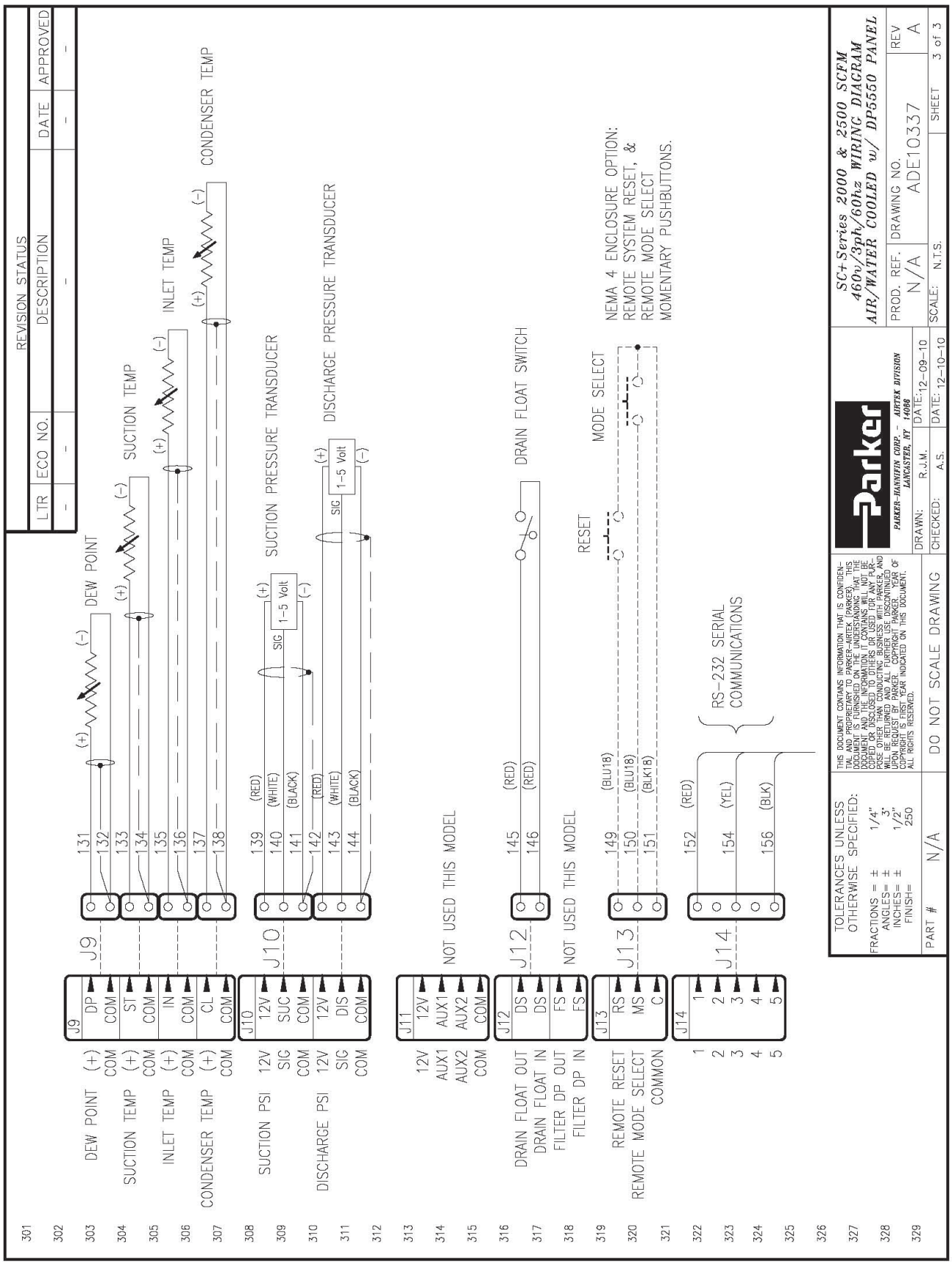
PROD. REF.	DRAWING NO.	REV
N/A	ADE10333	A

SCALE: N.T.S. SHEET 4 of 4


REVISION STATUS
LTR | ECO NO. | DESCRIPTION | DATE | APPROVED
B | 271 | REMOVED SCP2000 & SCP2500 | 12-09-10 | RJM
575V/3Ø/60HZ
CUSTOMER TO PROVIDE BREACH & SHORT CIRCUIT PROTECTION AND DISCONNECTION MEANS PER LOCAL & NATIONAL CODES.
FAN & FAN CONTROLS ON AIR COOLED MODELS ONLY.
CUSTOMER WIRING SHOWN IN HIDDEN (- - - - - -) LINES.
DISC
INPUT: 575V
OUTPUT: 460V
3 PHASE
AUTO-TRANSFORMER
(SEE SHEET 4)
FILTER DRAIN ASSEMBLY
KF4085-2
HOT
NEU
GND
TR1
ET0150
150VA
460V
120V
INSTRUMENTATION & INPUT CIRCUITS
WIRING HARNESS
SERIAL COMM PORT
DP5550
CONFIGURATION CODE:
R404A = '4'
ESTOP SWT
SYSTEM OUTPUT & AC CIRCUITS
USER COMMON ALARM (DRY CONTACT)
CRANK CASE HEATER
COMPRESSOR MOTOR
FAN MOTOR #1
FAN MOTOR #2
BANK ONE
BANK TWO
r404A
230
180
260
210
AIR COOLED DRYERS ONLY
SC+Series 3000 SCFM
575v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE10268
REV B
SCALE: N.T.S.
SHEET 1 of 4
DRAWN: R.J.M. DATE: 11-1-10
CHECKED: A.H.S. DATE: 11-1-10
PARKER-HANNIFIN CORP. - AIRTEX DIVISION
LANCASTER, NY 14086
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES = ± 3°
INCHES = ± 1/2"
FINISH = 250
PART # N/A
DO NOT SCALE DRAWING
THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER-AIRTEX (PARKER). THIS DOCUMENT IS FURNISHED ON THE UNDERSTANDING THAT THE INFORMATION AND DESIGNS CONTAINED HEREIN WILL NOT BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST. UNPUBLISHED - PARKER PROPRIETARY DATA - COPYRIGHT IS FIRST YEAR INDICATED ON THIS DOCUMENT. ALL RIGHTS RESERVED.


REVISION STATUS
LTR | ECO NO. | DESCRIPTION | DATE | APPROVED
SC+Series 2000 & 2500 SCFM
460v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE10337
REV A
SHEET 1 of 3
SCALE: N.T.S.
DRAWN: R.J.M. DATE: 12-09-10
CHECKED: A.S. DATE: 12-10-10
PARKER-HANNIFIN CORP. - AIRTEK DIVISION
LANCASTER, NY 14086
460V/3Ø/60HZ
CUSTOMER TO PROVIDE BREACH & SHORT CIRCUIT PROTECTION AND DISCONNECTION MEANS PER LOCAL & NATIONAL CODES.
FAN & FAN CONTROLS ON AIR COOLED MODELS ONLY.
CUSTOMER WIRING SHOWN IN HIDDEN (- - - - - -) LINES.
DISC
(GREEN)
(GRN12)
(BLK12)
FUSE P1
FUSE P2
FUSES P1, P2, S1
P/N EF-150
1.5A, FAST
FUSE S1
TR1
ET0150
150VA
460V
120V
(BLK18)
(WHT18)
(GRN18)
(GRN1B)
ESTOP SWT
SYSTEM OUTPUT & AC CIRCUITS
INSTRUMENTATION & INPUT CIRCUITS
WIRING HARNESS
SERIAL COMM PORT
DP5550
CONFIGURATION CODE:
R404A = '4'
USER COMMON ALARM (DRY CONTACT)
CRANK CASE HEATER
COMPRESSOR MOTOR
CM1
C1
BANK ONE
BANK TWO
FAN MOTOR #1
FAN MOTOR #2
FM1
FM2
r404A
230
180
260
210
PS-1
PS-2
AIR COOLED DRYERS ONLY
FILTER DRAIN ASSEMBLY
KF40B5-2
HOT
NEU
GND
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER-AIRTEK (PARKER). THIS DOCUMENT IS FURNISHED ON THE UNDERSTANDING THAT THE DOCUMENT AND THE INFORMATION IT CONTAINS WILL NOT BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST BY PARKER. COPYRIGHT IS FIRST YEAR INDICATED ON THIS DOCUMENT.
ALL RIGHTS RESERVED.


REVISION STATUS
LTR ECO NO. DESCRIPTION DATE APPROVED
SC+Series 2000 & 2500 SCFM
460v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE10337
REV A
SHEET 2 of 3
SCALE: N.T.S.
DRAWN: R.J.M. DATE: 12-09-10
CHECKED: A.S. DATE: 12-10-10
PARKER-HANNIFIN CORP. - AIRTEX DIVISION LANCASTER, NY 14086
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER-AIRTEX (PARKER). THIS DOCUMENT IS FURNISHED ON THE UNDERSTANDING THAT THE DOCUMENT AND THE INFORMATION CONTAINED IN IT WILL BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST BY PARKER. COPYRIGHT © [FIRST YEAR INDICATED ON THIS DOCUMENT]. ALL RIGHTS RESERVED.
OUTPUTS 85 to 265VAC 1/2A MAX
J2 ESTOP E-STOP SWITCH OUT
ESTOP E-STOP SWITCH IN
J3 LP LOW PRESSURE IN
HP HIGH PRESSURE IN
CP COMPRESSOR RUN
L2 NEUTRAL
J4 SU SUCTION SOL
L2 NEUTRAL
GND
UL UNLOADER SOL
L2 NEUTRAL
GND
J5 DR DRAIN(S) SOL
L2 NEUTRAL
GND
J6 CA CYLANDER HEAD A
L2 NEUTRAL
GND
CB CYLANDER HEAD B
L2 NEUTRAL
GND
J7 FA FAN CONTROL A
FB FAN CONTROL B
L2 NEUTRAL
NOT USED THIS MODEL
NOT USED THIS MODEL
FROM CONTACTOR C1 T1 T2 T3
INTERNAL MOTOR PROTECTION
JUMPER (TIE WRAP TO WIRING HARNESS)
104 (BLK18)
105 (BLK18)
106 (VIO18)
107 (ORA18)
108 (BLK18)
109 (WHT18)
110 (BLK)
111 (WHT)
112 (GRN)
113 (BLK)
114 (WHT)
115 (GRN)
116 (BLK)
117 (WHT)
118 (GRN)
SUMP DRAIN ASSEMBLY KF4085-CC-1
DS1
U1
UNDLADER SOL.
LIQUID LINE SOL.
LL
LIQUID LINE SOL.
LS
LEVEL EXPANSION VALVE HEATER
SERVICE SWITCH
HIGH PRESSURE
OPEN (410)
r404A
LOW PRESSURE
CLOSE (65)
OPEN (30)
HIGH PRESSURE
LOW PRESSURE
COMPRESSOR CONTROL
SUPPRESSOR P/N EW9501
C1
(WHT18) 109
(BLU)
(VIO18)
(RED)
(YEL)
(ORG18)
(BLK)
11 14
21 22


REVISION STATUS
LTR | ECO NO. | DESCRIPTION | DATE | APPROVED
SC+ Series 2000 & 2500 SCFM
460v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE10337
REV A
SCALE: N.T.S.
SHEET 3 of 3
PARKER-HANNIFIN CORP. - AIRTEK DIVISION
LANCASTER, NY 14086
DRAWN: R.J.M. DATE: 12-09-10
CHECKED: A.S. DATE: 12-10-10
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES = ± 3°
INCHES = ± 1/2"
FINISH = 250
PART # N/A
DO NOT SCALE DRAWING
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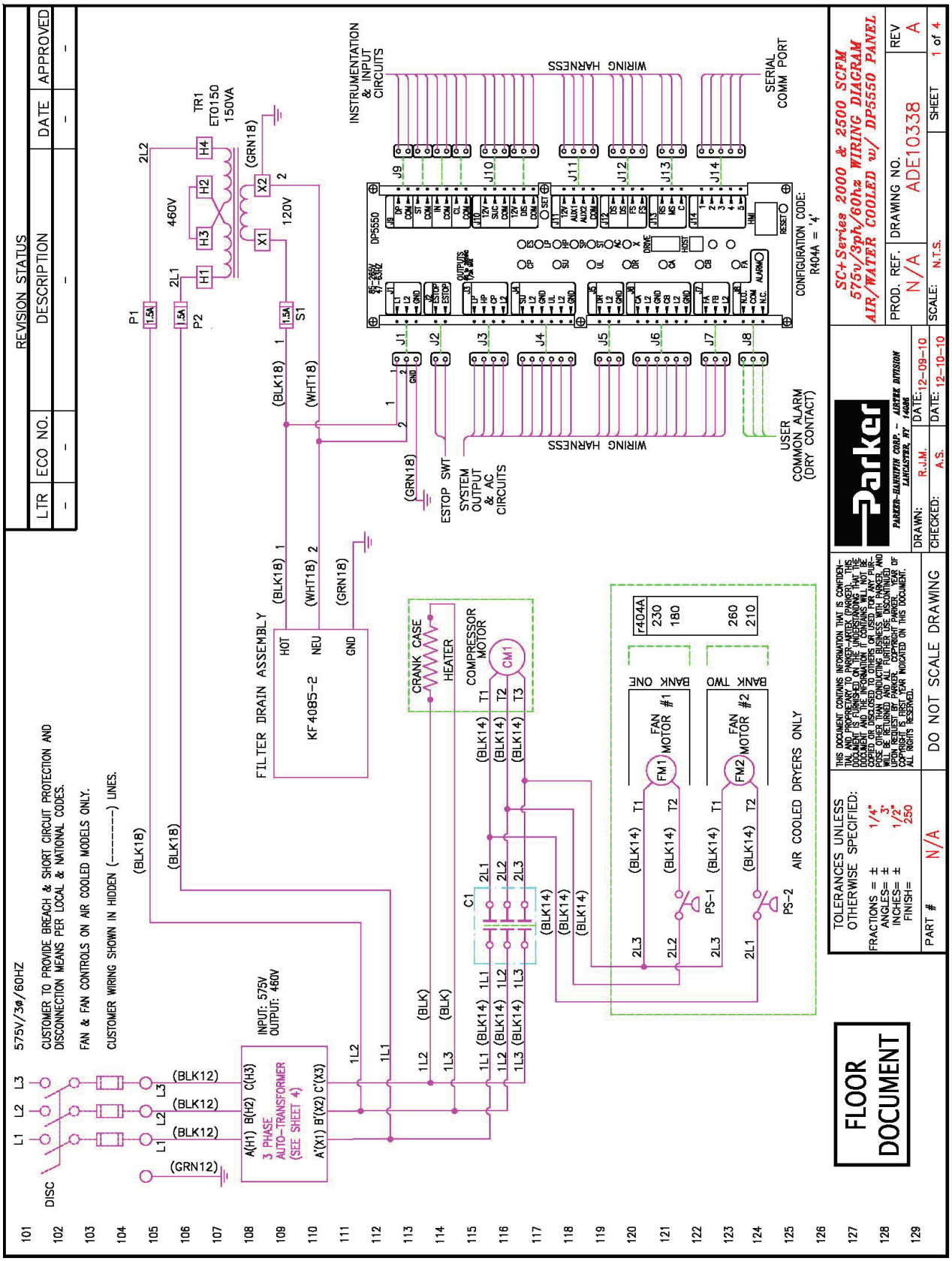
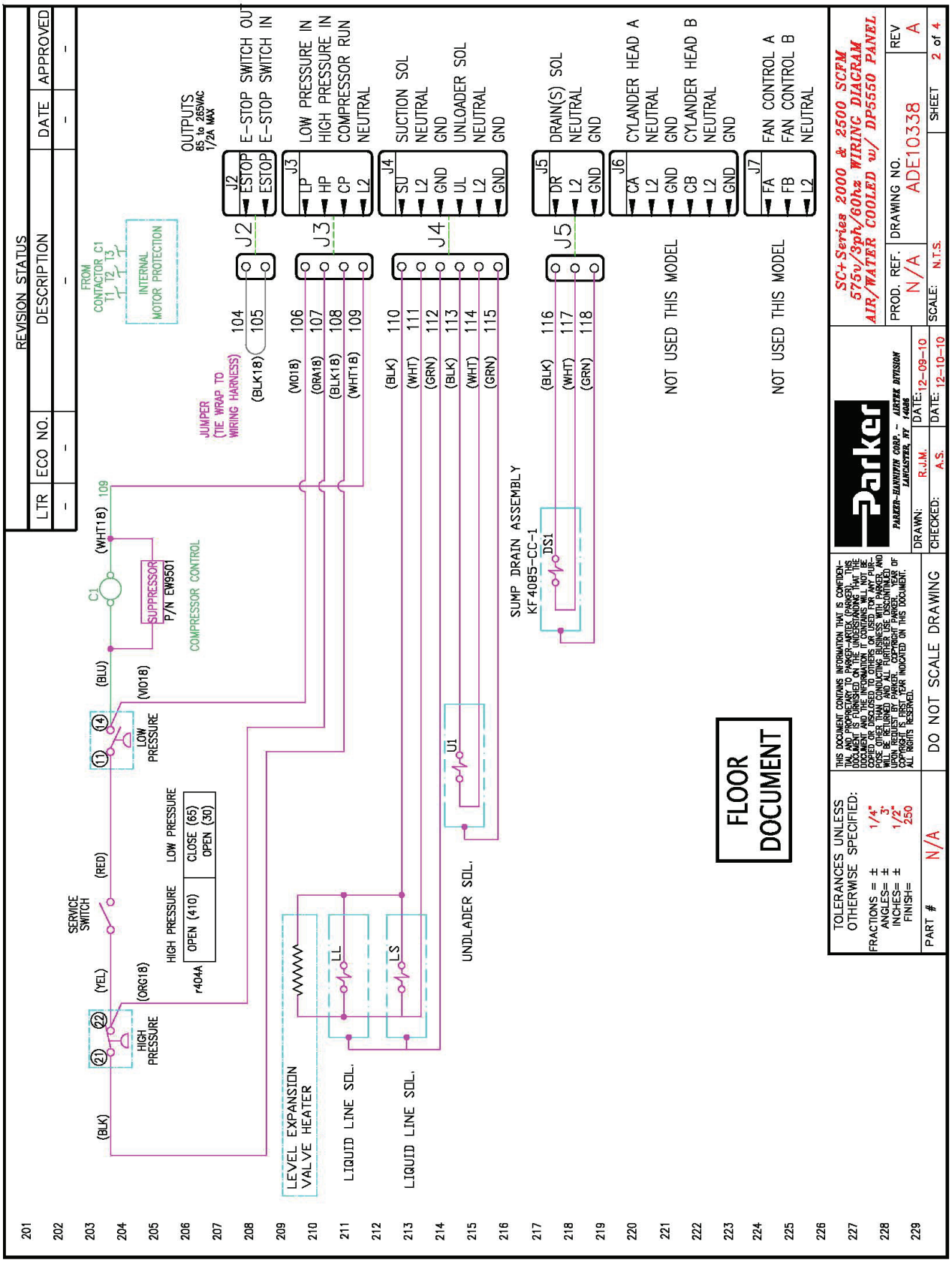
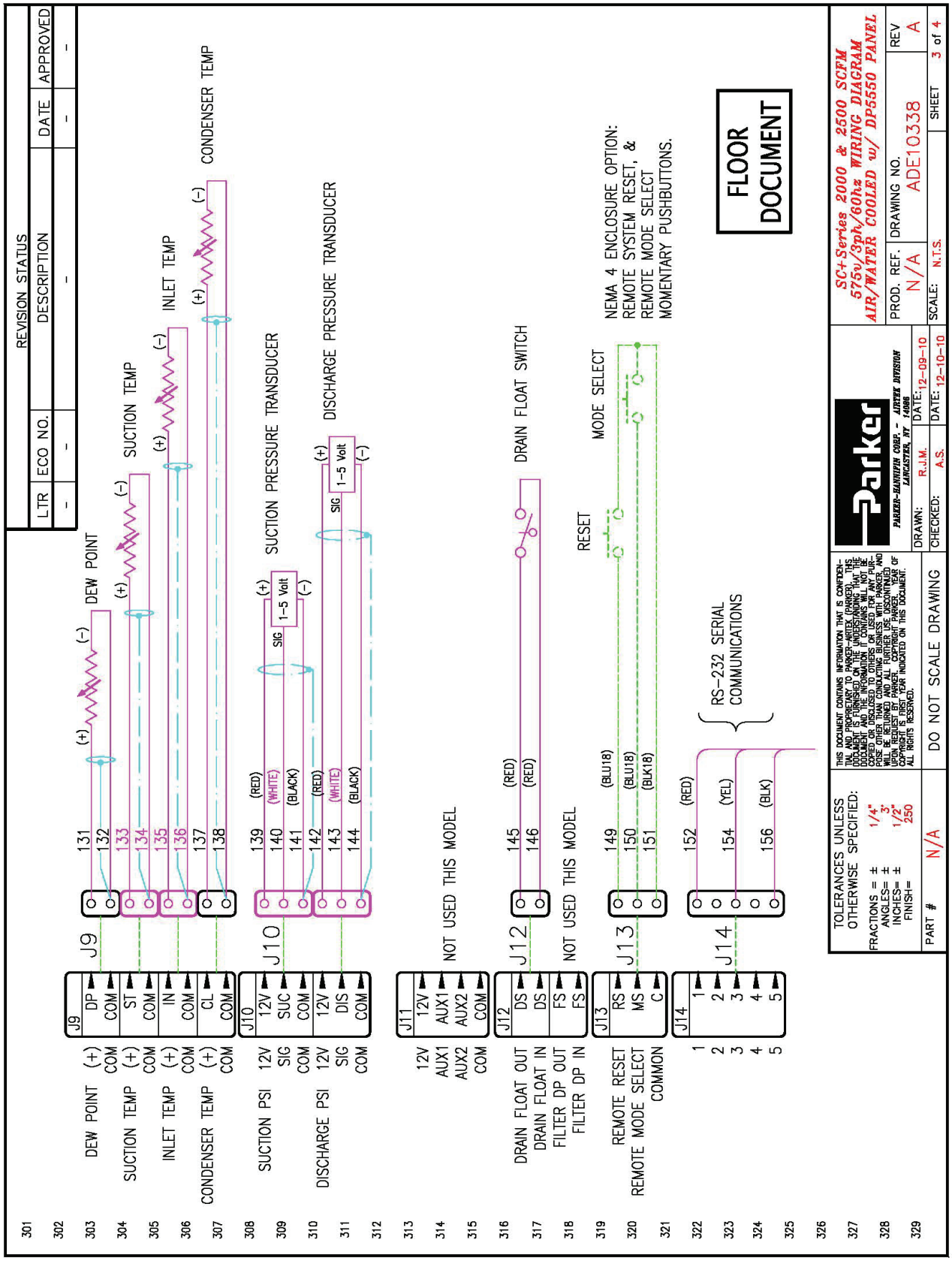
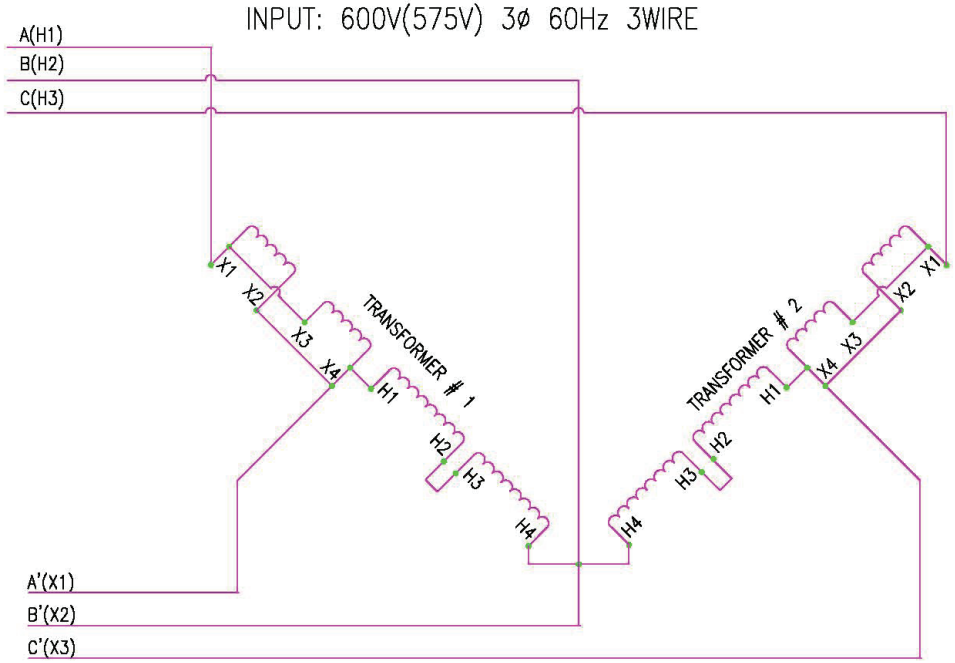
J9 DP COM ST COM IN COM CL COM
J10 12V SUC COM 12V DIS COM
J11 12V AUX1 AUX2 COM
J12 DS DS FS FS
J13 RS MS C
J14 1 2 3 4 5
DEW POINT (+) COM
SUCTION TEMP (+) COM
INLET TEMP (+) COM
CONDENSER TEMP (+) COM
SUCTION PSI 12V SIG COM
DISCHARGE PSI 12V SIG COM
12V AUX1 AUX2 COM
DRAIN FLOAT OUT
DRAIN FLOAT IN
FILTER DP OUT
FILTER DP IN
REMOTE RESET
REMOTE MODE SELECT
COMMON
1 2 3 4 5
131 132 133 134 135 136 137 138
139 140 141 142 143 144
145 146
149 150 151
152 154 156
DEW POINT
SUCTION TEMP
INLET TEMP
CONDENSER TEMP
SUCTION PRESSURE TRANSDUCER
1-5 Volt
DISCHARGE PRESSURE TRANSDUCER
NOT USED THIS MODEL
DRAIN FLOAT SWITCH
NOT USED THIS MODEL
RESET
MODE SELECT
NEMA 4 ENCLOSURE OPTION:
REMOTE SYSTEM RESET, &
REMOTE MODE SELECT
MOMENTARY PUSHBUTTONS.
RS-232 SERIAL COMMUNICATIONS
(RED) (WHITE) (BLACK) (BLU18) (BLK18) (YEL) (BLK)
(+) (-) SIG


REVISION STATUS
LTR | ECO NO. | DESCRIPTION | DATE | APPROVED
SC+Series 2000 & 2500 SCFM
575v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE10338
REV A
SCALE: N.T.S.
SHEET 1 of 4
575V/3Ø/60HZ
CUSTOMER TO PROVIDE BREACH & SHORT CIRCUIT PROTECTION AND DISCONNECTION MEANS PER LOCAL & NATIONAL CODES.
FAN & FAN CONTROLS ON AIR COOLED MODELS ONLY.
CUSTOMER WIRING SHOWN IN HIDDEN (- - - - - -) LINES.
DISC
INPUT: 575V
OUTPUT: 460V
3 PHASE AUTO-TRANSFORMER (SEE SHEET 4)
FILTER DRAIN ASSEMBLY
KF4085-2
TR1 ET0150 150VA
460V
120V
DP5550
INSTRUMENTATION & INPUT CIRCUITS
WIRING HARNESS
SERIAL COMM PORT
CONFIGURATION CODE: R404A = '4'
ESTOP SWT
SYSTEM OUTPUT & AC CIRCUITS
USER COMMON ALARM (DRY CONTACT)
CRANK CASE HEATER
COMPRESSOR MOTOR
BANK ONE
BANK TWO
FAN MOTOR #1
FAN MOTOR #2
r404A
230
180
260
210
PS-1
PS-2
AIR COOLED DRYERS ONLY
FLOOR DOCUMENT
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER. BY ACCEPTING THIS DOCUMENT IT IS FURNISHED ON THE UNDERSTANDING THAT THE DOCUMENT AND THE INFORMATION IT CONTAINS WILL NOT BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS EXPRESSLY LOANED AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST BY PARKER. COPYRIGHT © [YEAR] BY PARKER. COPYRIGHT IS ASSERTED FOR INDICATED ON THIS DOCUMENT. ALL RIGHTS RESERVED.
DRAWN: R.J.M. DATE: 12-09-10
CHECKED: A.S. DATE: 12-10-10
PARKER-HANNIFIN CORP. - AIRTEK DIVISION LANCASTER, NY 14086


REVISION STATUS
LTR | ECO NO. | DESCRIPTION | DATE | APPROVED
- | - | - | - | -
SC+Series 2000 & 2500 SCFM
575v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE10338
REV A
SHEET 2 of 4
SCALE: N.T.S.
DRAWN: R.J.M. DATE: 12-09-10
CHECKED: A.S. DATE: 12-10-10
PARKER-HANNIFIN CORP. ~ AIRTEK DIVISION LANCASTER, PA 17606
Parker
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER-HANNIFIN CORP. BY ACCEPTANCE OF THIS DOCUMENT AND THE INFORMATION IT CONTAINS YOU AGREE THAT THE DOCUMENT WILL NOT BE COPIED OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST BY PARKER. COPYRIGHT PARKER, YEAR OF COPYRIGHT IS FIRST YEAR INDICATED ON THIS DOCUMENT. ALL RIGHTS RESERVED.
FLOOR DOCUMENT
OUTPUTS 85 to 265VAC 1/2A MAX
J2 ESTOP E-STOP SWITCH OUT
ESTOP E-STOP SWITCH IN
J3 LP LOW PRESSURE IN
HP HIGH PRESSURE IN
CP COMPRESSOR RUN
L2 NEUTRAL
J4 SU SUCTION SOL
L2 NEUTRAL
GND GND
UL UNLOADER SOL
L2 NEUTRAL
GND GND
J5 DR DRAIN(S) SOL
L2 NEUTRAL
GND GND
J6 CA CYLANDER HEAD A
L2 NEUTRAL
GND GND
CB CYLANDER HEAD B
L2 NEUTRAL
GND GND
J7 FA FAN CONTROL A
FB FAN CONTROL B
L2 NEUTRAL
NOT USED THIS MODEL
NOT USED THIS MODEL
FROM CONTACTOR C1 T1 T2 T3
INTERNAL MOTOR PROTECTION
JUMPER (TIE WRAP TO WIRING HARNESS)
104 105 (BLK18)
106 107 108 109 (VIO18) (ORA18) (BLK18) (WHT18)
110 111 112 113 114 115 (BLK) (WHT) (GRN) (BLK) (WHT) (GRN)
116 117 118 (BLK) (WHT) (GRN)
SUMP DRAIN ASSEMBLY KF4085-CC-1
DS1
C1
(WHT18) 109
SUPPRESSOR P/N EW9501
COMPRESSOR CONTROL
(BLU)
(VIO18)
LOW PRESSURE
HIGH PRESSURE
LOW PRESSURE
CLOSE (65)
OPEN (30)
OPEN (410)
r404A
SERVICE SWITCH
(RED)
(YEL)
(ORG18)
HIGH PRESSURE
(BLK)
LEVEL EXPANSION VALVE HEATER
LIQUID LINE SOL.
LL
LIQUID LINE SOL.
LS
UNDLADER SOL.
U1


REVISION STATUS
LTR | ECO NO. | DESCRIPTION | DATE | APPROVED
- | - | - | - | -
DEW POINT
SUCTION TEMP
INLET TEMP
CONDENSER TEMP
SUCTION PRESSURE TRANSDUCER
DISCHARGE PRESSURE TRANSDUCER
1-5 Volt
DRAIN FLOAT SWITCH
MODE SELECT
RESET
NEMA 4 ENCLOSURE OPTION:
REMOTE SYSTEM RESET, &
REMOTE MODE SELECT
MOMENTARY PUSHBUTTONS.
NOT USED THIS MODEL
RS-232 SERIAL COMMUNICATIONS
J9
J10
J11
J12
J13
J14
DP
ST
IN
CL
SUC
DIS
RS
MS
C
DS
FS
AUX1
AUX2
FLOOR DOCUMENT
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER-HANNIFIN CORP. THIS DOCUMENT IS FURNISHED ON THE UNDERSTANDING THAT THE DOCUMENT AND THE INFORMATION IT CONTAINS WILL NOT BE DISCLOSED OR TRANSFERRED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST BY PARKER. COPYRIGHT PARKER, YEAR OF COPYRIGHT IS FIRST YEAR INDICATED ON THIS DOCUMENT. ALL RIGHTS RESERVED.
Parker
PARKER-HANNIFIN CORP. - AIRTEK DIVISION
LANCASTER, NY 14086
DRAWN: R.J.M. DATE: 12-09-10
CHECKED: A.S. DATE: 12-10-10
SC+Series 2000 & 2500 SCFM
575v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL
PROD. REF. N/A
DRAWING NO. ADE10338
REV A
SCALE: N.T.S.
SHEET 3 of 4

REVISION STATUS				
LTR	ECO NO.	DESCRIPTION	DATE	APPROVED
–	–	–	–	–



FLOOR DOCUMENT

THIS IS AN AUTO-TRANSFORMER CONNECTION

CUSTOMER TO PROVIDE BREACH AND OVER-CURRENT PROTECTION ACCORDING TO NATIONAL AND LOCAL CODES.

TYPE CC TIME DELAY FUSE RECOMMENDED.

TOLERANCES UNLESS OTHERWISE SPECIFIED:	
FRACTIONS = ±	1/4"
ANGLES= ±	3°
INCHES= ±	1/2"
FINISH=	250
PART #	N/A

DO NOT SCALE DRAWING

Parker

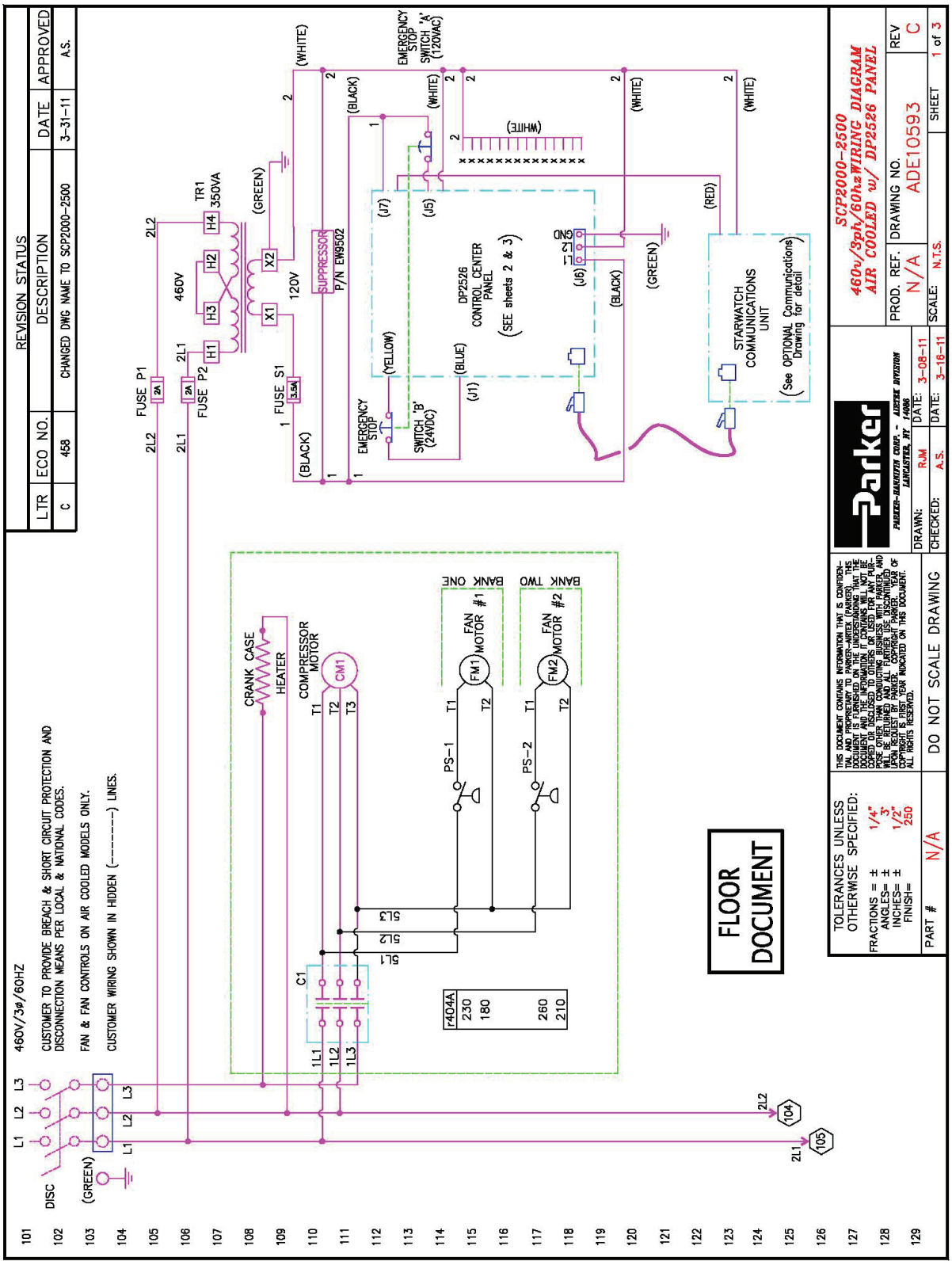
PARKER-HANNIFIN CORP. – AIRTEK DIVISION
LANCASTER, NY 14086

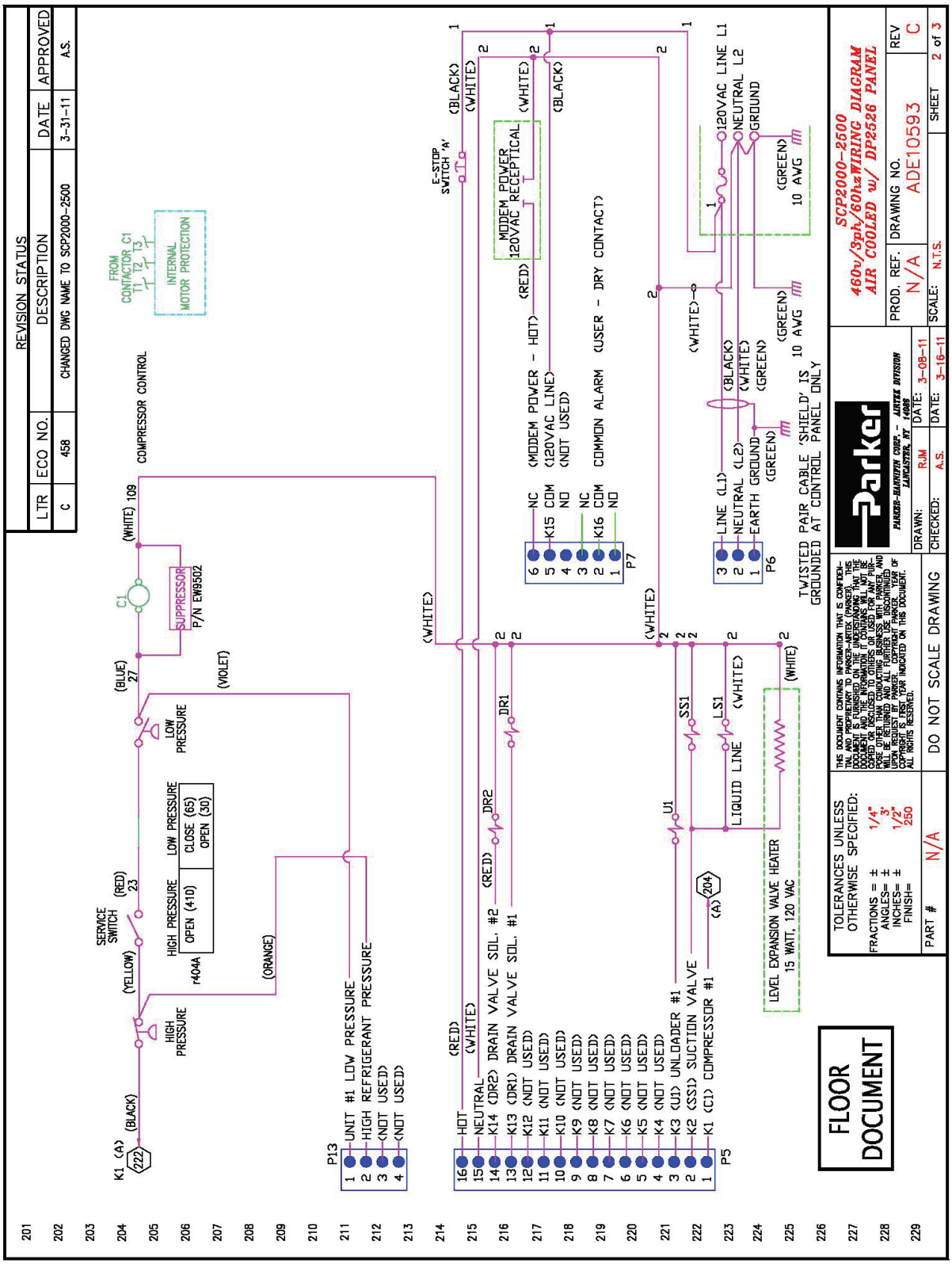
DRAWN:	R.J.M.	DATE:	12-09-10
CHECKED:	chk	DATE:	chk date

SC+Series 2000 SCFM
575v/3ph/60hz WIRING DIAGRAM
AIR/WATER COOLED w/ DP5550 PANEL

PROD. REF.	DRAWING NO.	REV
N/A	ADE10338	A

SCALE: N.T.S. SHEET 4 of 4


REVISION STATUS
LTR | ECO NO. | DESCRIPTION | DATE | APPROVED
C | 458 | CHANGED DWG NAME TO SCP2000-2500 | 3-31-11 | A.S.
460V/3ø/60HZ
CUSTOMER TO PROVIDE BREACH & SHORT CIRCUIT PROTECTION AND DISCONNECTION MEANS PER LOCAL & NATIONAL CODES.
FAN & FAN CONTROLS ON AIR COOLED MODELS ONLY.
CUSTOMER WIRING SHOWN IN HIDDEN (- - - - - -) LINES.
DISC
L1 L2 L3
(GREEN)
FUSE P1
FUSE P2
FUSE S1
TR1 350VA
460V
120V
(WHITE)
(BLACK)
(GREEN)
SUPPRESSOR P/N EW9502
EMERGENCY STOP
SWITCH 'B' (24VDC)
EMERGENCY STOP SWITCH 'A' (120VAC)
(YELLOW)
(BLUE)
(J1)
(J5)
(J7)
DP2526 CONTROL CENTER PANEL
(SEE sheets 2 & 3)
(J6)
GND
(RED)
STARWATCH COMMUNICATIONS UNIT
(See OPTIONAL Communications Drawing for detail)
CRANK CASE HEATER
COMPRESSOR MOTOR
CM1
C1
PS-1
PS-2
FAN MOTOR #1
FAN MOTOR #2
FM1
FM2
BANK ONE
BANK TWO
T1
T2
T3
1L1
1L2
1L3
5L1
5L2
5L3
7404A
230 180
260 210
FLOOR DOCUMENT
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
THIS DOCUMENT CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO PARKER-HANNIFIN CORPORATION. BY ACCEPTING THIS DOCUMENT IS FURNISHED ON THE UNDERSTANDING THAT THE DOCUMENT AND THE INFORMATION IT CONTAINS WILL NOT BE DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN CONDUCTING BUSINESS WITH PARKER, AND WILL BE RETURNED AND ALL FURTHER USE DISCONTINUED UPON REQUEST. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE PRIOR WRITTEN PERMISSION OF PARKER-HANNIFIN CORP. IS PROHIBITED. COPYRIGHT 2011 PARKER HANNIFIN CORP. ALL RIGHTS RESERVED.
Parker
PARKER-HANNIFIN CORP. - AIRTEK DIVISION
LANCASTER, NY 14086
DRAWN: R.J.M DATE: 3-08-11
CHECKED: A.S. DATE: 3-16-11
SCP2000-2500
460v/3ph/60hz WIRING DIAGRAM
AIR COOLED w/ DP2526 PANEL
PROD. REF. N/A
DRAWING NO. ADE10593
REV C
SCALE: N.T.S.
SHEET 1 of 3


REVISION STATUS
LTR | ECO NO. | DESCRIPTION | DATE | APPROVED
C | 458 | CHANGED DWG NAME TO SCP2000-2500 | 3-31-11 | A.S.
SCP2000-2500
460v/3ph/60hz WIRING DIAGRAM
AIR COOLED w/ DP2526 PANEL
PROD. REF. N/A
DRAWING NO. ADE10593
REV C
SHEET 2 of 3
SCALE: N.T.S.
DRAWN: RJM DATE: 3-08-11
CHECKED: A.S. DATE: 3-16-11
Parker
PARKER-HANNIFIN CORP. - LENNOX DIVISION
LANCASTER, PA 17608
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
FLOOR DOCUMENT
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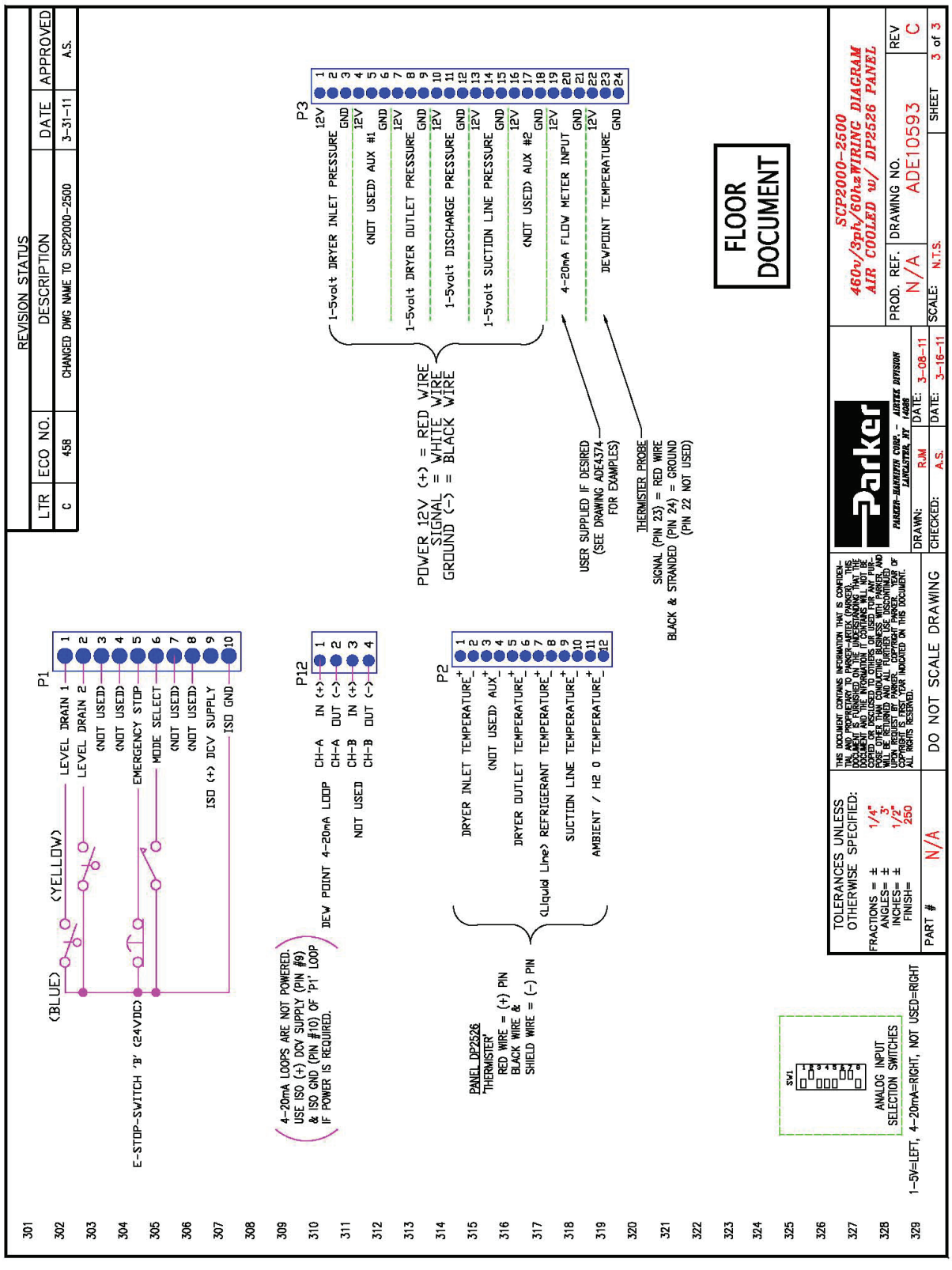
COMPRESSOR CONTROL
FROM CONTACTOR C1 T1 T2 T3
INTERNAL MOTOR PROTECTION
C1
SUPPRESSOR P/N EW9502
(WHITE) 109
(BLUE) 27
LOW PRESSURE
HIGH PRESSURE
LOW PRESSURE CLOSE (65) OPEN (30)
HIGH PRESSURE OPEN (410) r404A
SERVICE SWITCH
(RED) 23
(YELLOW)
(ORANGE)
(VIOLET)
K1 (A) (222) (BLACK)
P13
1 UNIT #1 LOW PRESSURE
2 HIGH REFRIGERANT PRESSURE
3 (NOT USED)
4 (NOT USED)
P5
16 HOT
15 NEUTRAL
14 (DR2) DRAIN VALVE SOL. #2
13 (DR1) DRAIN VALVE SOL. #1
12 (NOT USED)
11 (NOT USED)
10 (NOT USED)
9 (NOT USED)
8 (NOT USED)
7 (NOT USED)
6 (NOT USED)
5 (NOT USED)
4 (NOT USED)
3 (U1) UNLOADER #1
2 (SS1) SUCTION VALVE
1 (C1) COMPRESSOR #1
(A) 204
(RED)
(WHITE)
DR2
DR1
U1
SS1
LS1
LIQUID LINE
LEVEL EXPANSION VALVE HEATER 15 WATT, 120 VAC
E-STOP SWITCH 'A'
(BLACK)
(WHITE)
MODEM POWER 120VAC RECEPTICAL
(RED)
(WHITE)
(BLACK)
P7
6 NC (MODEM POWER - HOT)
5 K15 COM (120VAC LINE)
4 NO (NOT USED)
3 NC COMMON ALARM (USER - DRY CONTACT)
2 K16 COM
1 NO
P6
3 LINE (L1)
2 NEUTRAL (L2)
1 EARTH GROUND
(BLACK)
(WHITE)
(GREEN)
120VAC LINE L1
NEUTRAL L2
GROUND
(GREEN) 10 AWG
TWISTED PAIR CABLE 'SHIELD' IS GROUNDED AT CONTROL PANEL ONLY


REVISION STATUS
LTR | ECO NO. | DESCRIPTION | DATE | APPROVED
C | 458 | CHANGED DWG NAME TO SCP2000-2500 | 3-31-11 | A.S.
P1
(YELLOW)
(BLUE)
LEVEL DRAIN 1
LEVEL DRAIN 2
(NOT USED)
(NOT USED)
EMERGENCY STOP
MODE SELECT
(NOT USED)
(NOT USED)
ISO (+) DCV SUPPLY
ISO GND
E-STOP-SWITCH 'B' (24VDC)
4-20mA LOOPS ARE NOT POWERED.
USE ISO (+) DCV SUPPLY (PIN #9)
& ISO GND (PIN #10) OF 'P1' LOOP
IF POWER IS REQUIRED.
P12
DEW POINT 4-20mA LOOP
CH-A IN (+)
CH-A OUT (-)
CH-B IN (+)
CH-B OUT (-)
NOT USED
P2
DRYER INLET TEMPERATURE
(NOT USED) AUX
DRYER OUTLET TEMPERATURE
(Liquid Line) REFRIGERANT TEMPERATURE
SUCTION LINE TEMPERATURE
AMBIENT / H2 O TEMPERATURE
PANEL DP2526
THERMISTER
RED WIRE = (+) PIN
BLACK WIRE &
SHIELD WIRE = (-) PIN
SV1
ANALOG INPUT
SELECTION SWITCHES
1-5V=LEFT, 4-20mA=RIGHT, NOT USED=RIGHT
P3
1-5volt DRYER INLET PRESSURE
(NOT USED) AUX #1
1-5volt DRYER OUTLET PRESSURE
1-5volt DISCHARGE PRESSURE
1-5volt SUCTION LINE PRESSURE
(NOT USED) AUX #2
4-20mA FLOW METER INPUT
DEWPOINT TEMPERATURE
POWER 12V (+) = RED WIRE
SIGNAL = WHITE WIRE
GROUND (-) = BLACK WIRE
USER SUPPLIED IF DESIRED
(SEE DRAWING ADE4374
FOR EXAMPLES)
THERMISTER PROBE
SIGNAL (PIN 23) = RED WIRE
BLACK & STRANDED (PIN 24) = GROUND
(PIN 22 NOT USED)
FLOOR DOCUMENT
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES = ± 3°
INCHES = ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
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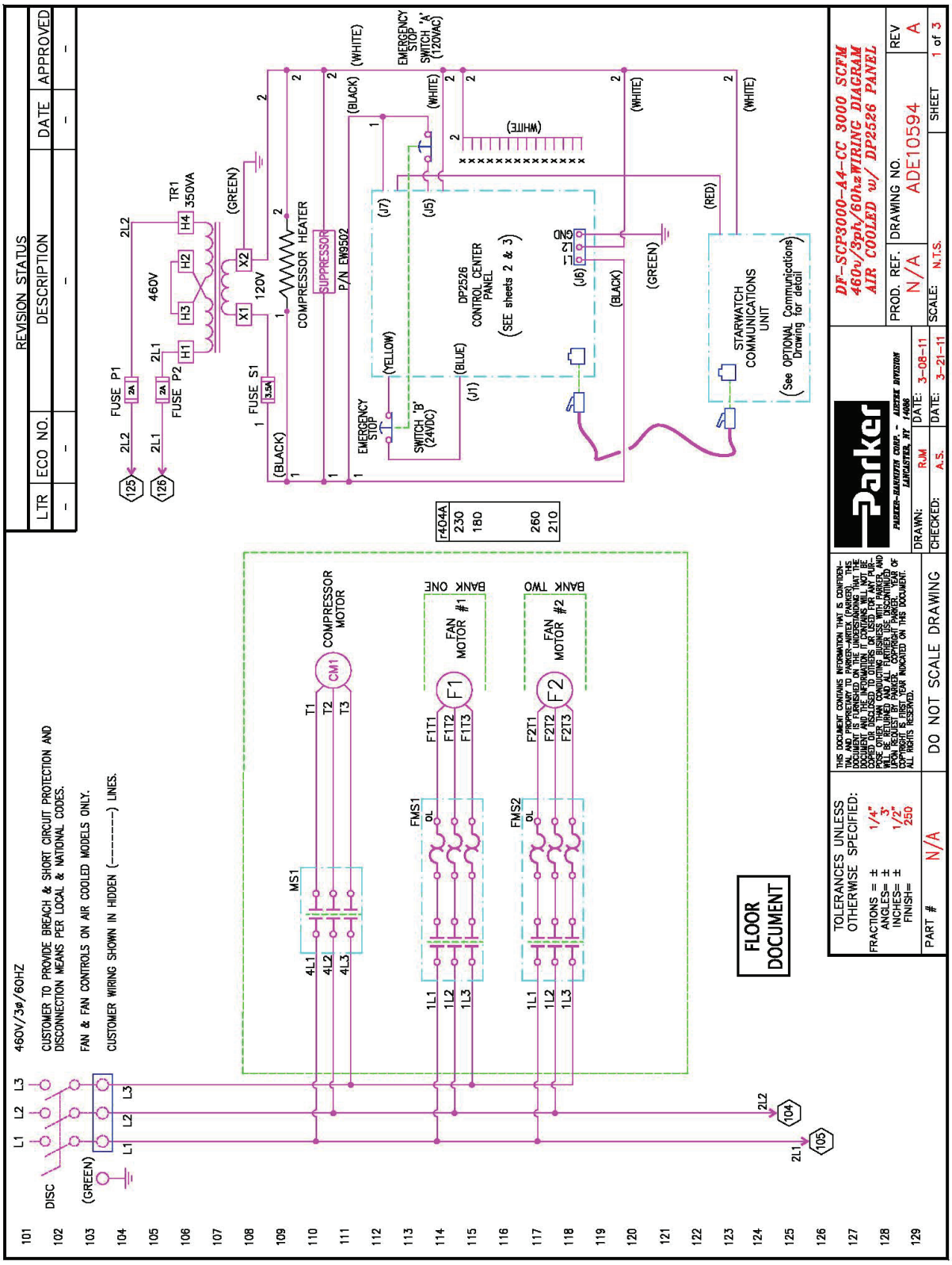
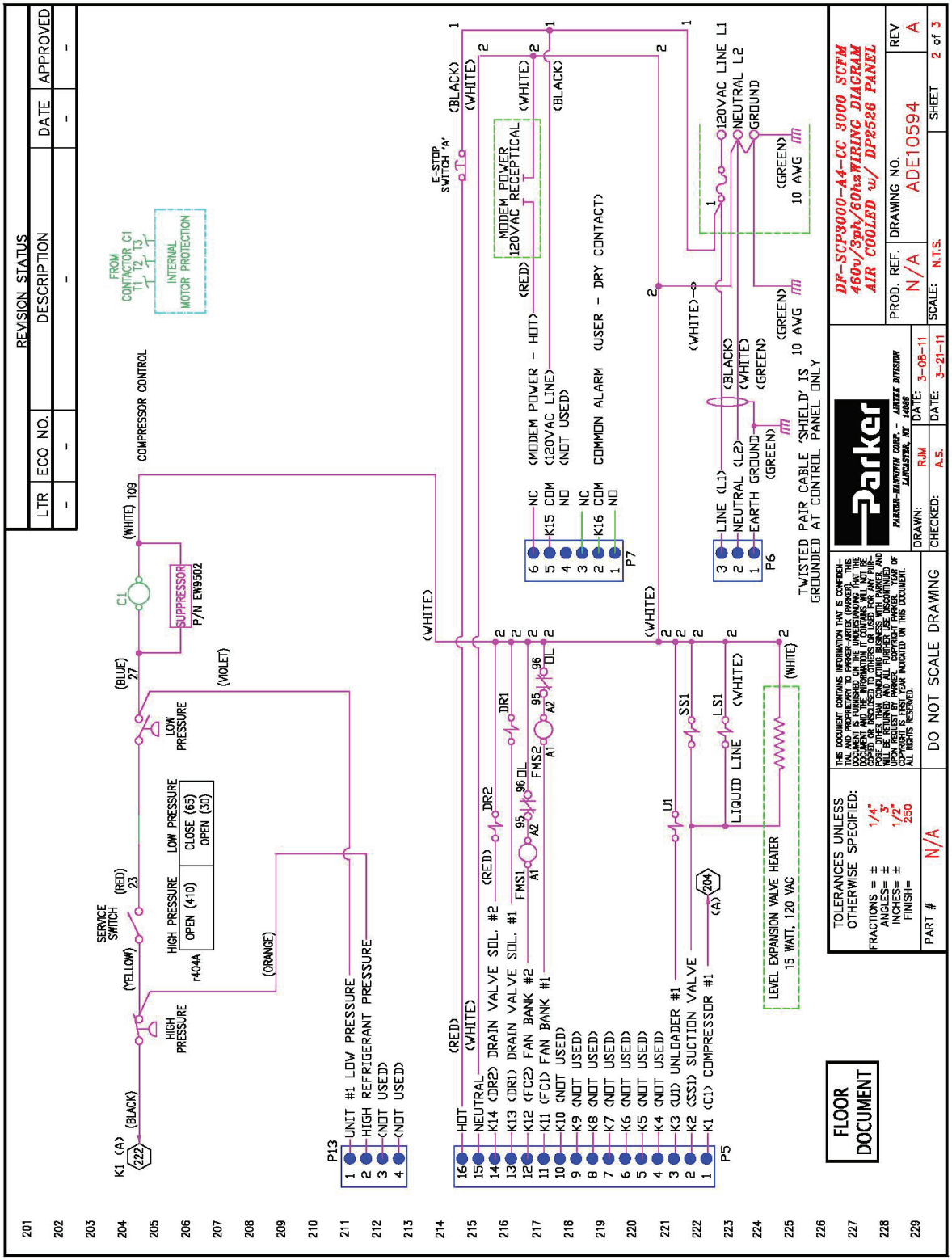
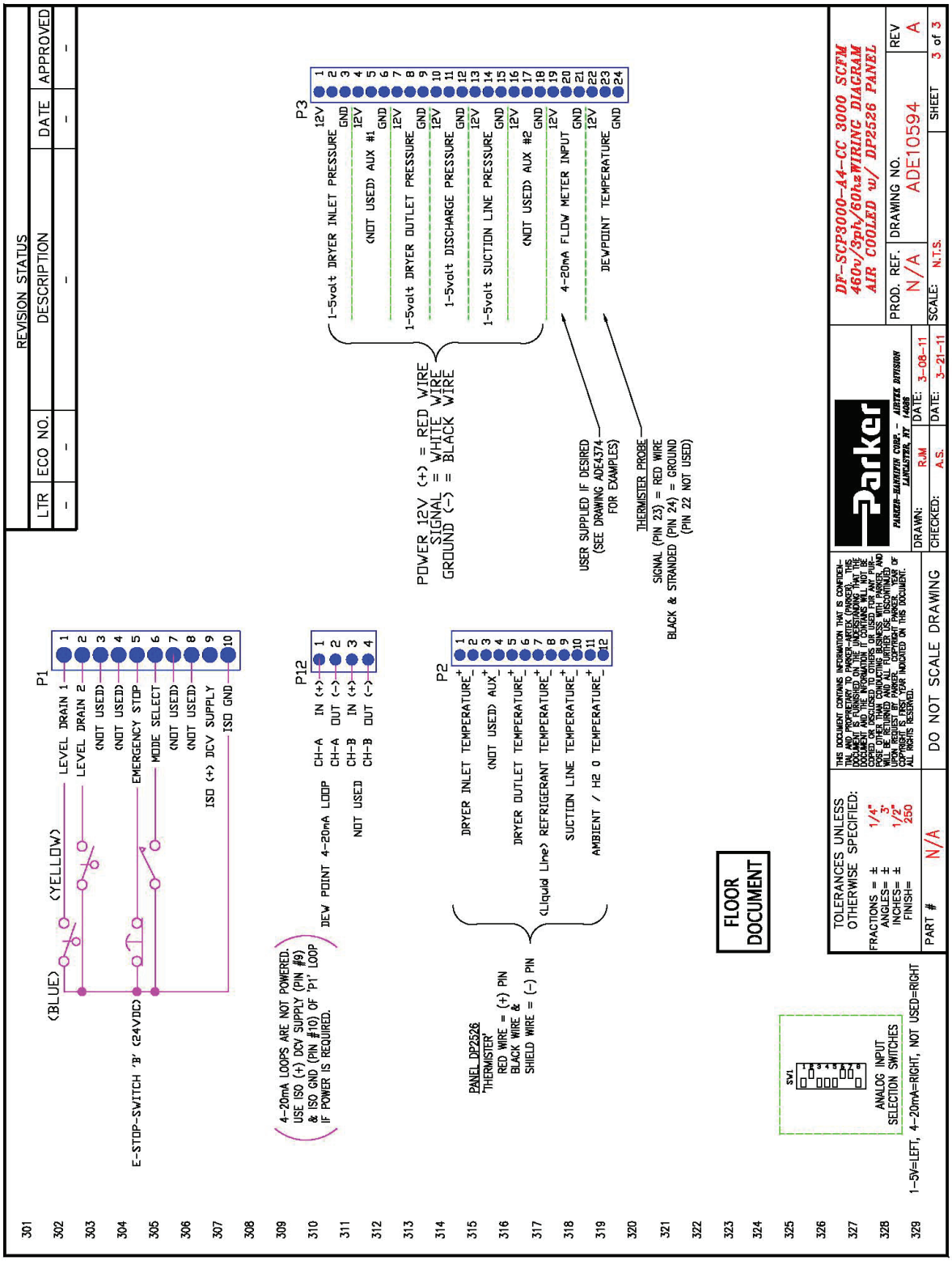
PARKER-HANNIFIN CORP. - AIRTEK DIVISION
LANCASTER, KY 40444
DRAWN: RJM DATE: 3-08-11
CHECKED: A.S. DATE: 3-16-11
SCP2000-2500
460v/3ph/60hz WIRING DIAGRAM
AIR COOLED w/ DP2526 PANEL
PROD. REF. N/A
DRAWING NO. ADE10593
REV C
SCALE: N.T.S.
SHEET 3 of 3


REVISION STATUS
LTR ECO NO. DESCRIPTION DATE APPROVED
DF-SCP3000-A4-CC 3000 SCFM
460v/3ph/60hz WIRING DIAGRAM
AIR COOLED w/ DP2526 PANEL
PROD. REF. N/A
DRAWING NO. ADE10594
REV A
SHEET 1 of 3
SCALE: N.T.S.
DRAWN: RJM DATE: 3-08-11
CHECKED: A.S. DATE: 3-21-11
Parker
PARKER-HANNIFIN CORP. - AIRTEK DIVISION
LANCASTER, NY 14086
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
FLOOR DOCUMENT
460V/3ø/60HZ
CUSTOMER TO PROVIDE BREACH & SHORT CIRCUIT PROTECTION AND DISCONNECTION MEANS PER LOCAL & NATIONAL CODES.
FAN & FAN CONTROLS ON AIR COOLED MODELS ONLY.
CUSTOMER WIRING SHOWN IN HIDDEN (- - - - - -) LINES.
DISC
(GREEN)
L1 L2 L3
MS1
4L1 4L2 4L3
COMPRESSOR MOTOR
CM1
T1 T2 T3
FMS1
OL
1L1 1L2 1L3
F1T1 F1T2 F1T3
F1
FAN MOTOR #1
BANK ONE
FMS2
OL
2L1 2L2
F2T1 F2T2 F2T3
F2
FAN MOTOR #2
BANK TWO
R404A
230 180
260 210
FUSE P1
FUSE P2
2A
TR1 350VA
460V
120V
H1 H2 H3 H4
X1 X2
FUSE S1
3.5A
COMPRESSOR HEATER
SUPPRESSOR
P/N EW9502
EMERGENCY STOP SWITCH 'A' (120VAC)
EMERGENCY STOP SWITCH 'B' (24VDC)
DP2526 CONTROL CENTER PANEL
(SEE sheets 2 & 3)
J1 J5 J7
J15
J16
GND
STARWATCH COMMUNICATIONS UNIT
(See OPTIONAL Communications Drawing for detail)
(BLACK)
(WHITE)
(YELLOW)
(BLUE)
(RED)
(GREEN)
125
126
104
105
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129


REVISION STATUS
LTR | ECO NO. | DESCRIPTION | DATE | APPROVED
DF-SCP3000-A4-CC 3000 SCFM
460v/3ph/60hzWIRING DIAGRAM
AIR COOLED w/ DP2526 PANEL
PROD. REF. N/A
DRAWING NO. ADE10594
REV A
SCALE: N.T.S.
SHEET 2 of 3
DRAWN: R.M 3-08-11
CHECKED: A.S. 3-21-11
PARKER-HANNIFIN CORP. - AIRTEK DIVISION LANCASTER, NY 14086
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
FLOOR DOCUMENT
COMPRESSOR CONTROL
FROM CONTACTOR C1 T1 T2 T3
INTERNAL MOTOR PROTECTION
SERVICE SWITCH
HIGH PRESSURE
LOW PRESSURE
OPEN (410) CLOSE (65) OPEN (30)
r404A
SUPPRESSOR P/N EW9502
C1
E-STOP SWITCH 'A'
MODEM POWER 120VAC RECEPTICAL
(MODEM POWER - HOT)
(120VAC LINE)
(NOT USED)
COMMON ALARM (USER - DRY CONTACT)
120VAC LINE L1
NEUTRAL L2
GROUND
10 AWG
LINE (L1)
NEUTRAL (L2)
EARTH GROUND
TWISTED PAIR CABLE 'SHIELD' IS GROUNDED AT CONTROL PANEL ONLY
LEVEL EXPANSION VALVE HEATER
15 WATT, 120 VAC
LIQUID LINE
SUCTION VALVE
UNLOADER #1
COMPRESSOR #1
DRAIN VALVE SOL. #2
DRAIN VALVE SOL. #1
FAN BANK #2
FAN BANK #1
UNIT #1 LOW PRESSURE
HIGH REFRIGERANT PRESSURE
(NOT USED)
P5
P6
P7
P13


REVISION STATUS
LTR | ECO NO. | DESCRIPTION | DATE | APPROVED
DF-SCP3000-A4-CC 3000 SCFM
460v/3ph/60hz WIRING DIAGRAM
AIR COOLED w/ DP2526 PANEL
PROD. REF. N/A
DRAWING NO. ADE10594
REV A
SCALE: N.T.S.
SHEET 3 of 3
DRAWN: R.JM DATE: 3-08-11
CHECKED: A.S. DATE: 3-21-11
Parker
PARKER-HANNIFIN CORP. - AIRTEK DIVISION
LANCASTER, NY 14086
TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS = ± 1/4"
ANGLES= ± 3°
INCHES= ± 1/2"
FINISH= 250
PART # N/A
DO NOT SCALE DRAWING
FLOOR DOCUMENT
P1
(YELLOW)
(BLUE)
LEVEL DRAIN 1
LEVEL DRAIN 2
(NOT USED)
(NOT USED)
EMERGENCY STOP
MODE SELECT
(NOT USED)
(NOT USED)
ISO (+) DCV SUPPLY
ISO GND
E-STOP-SWITCH 'B' (24VDC)
4-20mA LOOPS ARE NOT POWERED.
USE ISO (+) DCV SUPPLY (PIN #9)
& ISO GND (PIN #10) OF 'P1' LOOP
IF POWER IS REQUIRED.
P12
DEW POINT 4-20mA LOOP
CH-A IN (+)
CH-A OUT (-)
CH-B IN (+)
CH-B OUT (-)
NOT USED
P2
DRYER INLET TEMPERATURE
(NOT USED) AUX
DRYER OUTLET TEMPERATURE
(Liquid Line) REFRIGERANT TEMPERATURE
SUCTION LINE TEMPERATURE
AMBIENT / H2 O TEMPERATURE
PANEL DP2526
THERMISTER
RED WIRE = (+) PIN
BLACK WIRE & = (-) PIN
SHIELD WIRE = (-) PIN
SW1
ANALOG INPUT
SELECTION SWITCHES
1-5V=LEFT, 4-20mA=RIGHT, NOT USED=RIGHT
P3
1-5volt DRYER INLET PRESSURE
(NOT USED) AUX #1
1-5volt DRYER OUTLET PRESSURE
1-5volt DISCHARGE PRESSURE
1-5volt SUCTION LINE PRESSURE
(NOT USED) AUX #2
4-20mA FLOW METER INPUT
DEWPOINT TEMPERATURE
POWER 12V (+) = RED WIRE
SIGNAL = WHITE WIRE
GROUND (-) = BLACK WIRE
USER SUPPLIED IF DESIRED
(SEE DRAWING ADE4374
FOR EXAMPLES)
THERMISTER PROBE
SIGNAL (PIN 23) = RED WIRE
BLACK & STRANDED (PIN 24) = GROUND
(PIN 22 NOT USED)

10. Spare Parts List

Replacement parts	STD. MODEL (scfm)				
	1200	1500	2000	2500	3000
Compressor					
460V/3PH/60Hz	*DP16255 (AC) DP16240-4-1 (WC)	DP16260-4	DP16280-4	DP16292-404	
Fan motor					
460V/1PH/60Hz (460V Dryers)	*DP18184	DP18192			DP205-16-M
Fan motor starter contactor	N/A				ES5003-5
Starter overload relay	N/A				ES5001-2.4
Fan blade	*DP18158-B	DP18185-B			DP205-16-B
Fan guard	*DP18158-G	DP18184-G			DP205-16-G
Condenser coil (Air-Cooled)	*DP14407-C	DP14422-1-C			DP205-16
Water regulating valve (watercooled only)	DP38110	DP38115		DP38120	
Suction line solenoid valve	N/A	DP32121	DP32126-H		
Suction line solenoid coil	N/A	DP32084-C	DP32301		
Unloader solenoid valve	DP32100-H	DP32110-H	DP32115-H		
Liquid line solenoid valve	DP32086-1	DP32100-H	DP32110-H		
Unloader/liquid line solenoid coil	DP32301	DP32301			
Expansion valve	DP34185-404	DP34201-4	DP33011-4	DP33012-4	
Refrigerant suction filter	DP28305	DP28315-B (replaceable core)			
Refrigerant liquid line drier	DP28135	DP28135	DP28315-C (replaceable core)		
Fan #1 pressure switch	DP40080				
Fan #2 pressure switch	DP40081				
High refrigerant pressure switch	DP40051 (AC) / DP401030 (WC)				
Low refrigerant pressure switch	DP40026 (AC) / DP401030 (WC)				
Dual air pressure gauge	DP42100-P	DP42100-P			
Electronic controller	DP5550	DP5550			
Dew point temperature probe	DP5060-P12	DP5060-P15-1	DP5060-P18	DP5060-P18	DP5060-P18
Superheat probe	DP5060-S	DP5060-S			
Air inlet temperature probe	DP5060-T15	DP5060-P15			
Ambient or Water temperature probe	DP5060-T15	DP5060-P15			
Refrigerant pressure transducer	TP2455	TP2455			
Demand drain level sensor	DP6060-S	DP6060-S			
Replacement filter element	JE1600-C10	JE1600-C10	(3) JE1000-C10		JE3000-C10
Upper Drain solenoid valve #1	TP8002	TP8002	TP8005-1		
Lower Drain solenoid valve #2	TP8002-1	TP8003	TP8005-1	TP8101-1P	
Actuated drain ball valve	N/A			TP6605-5	
Valve strainer screen	KP5025-S		N/A		
Compressor contactor	ES5035	ES5035		ES5050	
Transformer (Control)	ET0150				

* Starting with serial # 120602860 and higher.

Parker Airtek

WARRANTY REGISTRATION

IMPORTANT! Mail or Fax (716-685-1010) Today!

Fold and Seal and your Service Warranty will be registered immediately.
We are here to help. For more information on service or installation, call the Service Department at 1-855-287-8123.

Email to: fstwarranty@parker.com

Model # _____ Serial # _____

Company _____

Address _____

City _____ State/Province _____ Zip _____

Telephone _____ Contact _____

Title _____ Department _____

Date Purchased _____ Date installed _____

Purchased From _____

COMMENTS

Please indicate a response on a scale of
(1) being the lowest to (5) being the highest

Condition of Arrival _____

Ease of Installation _____

Ease of Start-Up _____

Product Quality _____

Technical Assistance _____

Clarity of Instruction/Warranty Manual _____

FINAL OPERATION CHECK LIST

Inlet air temperature is _____

Inlet PSIG is _____

The dew point temperature controller reads between

_____ and _____

Air compressor HP _____ at Max SCFM is _____

Is the dryer a minimum of 3' from any structure on all sides?

Yes No

The Y strainer for drains has been cleaned after first 8 hours of operation Yes No

What are your thoughts on the operation of the dryer?

_____

_____

Why did you choose this manufacturer?

_____

_____

What could we do better?

_____

_____

Worldwide Filtration Manufacturing Locations

North America

Compressed Air Treatment

Filtration & Separation/Balston
Haverhill, MA
978 858 0505
www.parker.com/balston

Finite Airtek Filtration
Airtek/domnick hunter/Zander
Lancaster, NY
716 686 6400
www.parker.com/faf

Finite Airtek Filtration/Finite
Oxford, MI
248 628 6400
www.parker.com/finitefilter

Engine Filtration & Water Purification

Racor
Modesto, CA
209 521 7860
www.parker.com/racor

Holly Springs, MS
662 252 2656
www.parker.com/racor

Beaufort, SC
843 846 3200
www.parker.com/racor

Racor – Village Marine Tec.
Gardena, CA
310 516 9911
desalination.parker.com

Parker Sea Recovery
Carson, CA
310 637 3400
www.searecovery.com

Hydraulic Filtration

Hydraulic Filter
Metamora, OH
419 644 4311
www.parker.com/hydraulicfilter

Laval, QC Canada
450 629 9594
www.parkerfarr.com

Process Filtration

domnick hunter Process Filtration
Oxnard, CA
805 604 3400
www.parker.com/processfiltration

Madison, WI
608 824 0500
www.scilog.com

Phoenixville, PA
610 933 1600
www.parker.com/processfiltration

Aerospace Filtration

Velcon Filtration
Colorado Springs, CO
719 531 5855
www.velcon.com

Europe

Compressed Air Treatment

domnick hunter Filtration & Separation
Gateshead, England
+44 (0) 191 402 9000
www.parker.com/dhfns

Parker Gas Separations
Etten-Leur, Netherlands
+31 76 508 5300
www.parker.com/dhfns

Hiross Zander
Padova Business Unit
Padova, Italy
+39 049 9712 111
www.parker.com/hzd

Hiross Zander
Essen Business Unit
Essen, Germany
+49 2054 9340
www.parker.com/hzd

Engine Filtration & Water Purification

Racor
Dewsbury, England
+44 (0) 1924 487 000
www.parker.com/rfde

Racor Research & Development
Stuttgart, Germany
+49 (0)711 7071 290-10
www.parker.com/rfde

Hydraulic Filtration

Hydraulic Filter
Arnhem, Holland
+31 26 3760376
www.parker.com/hfde

Urjala Operation
Urjala, Finland
+358 20 753 2500
www.parker.com/hfde

Condition Monitoring Centre
Norfolk, England
+44 (0) 1842 763 299
www.parker.com/hfde

Parker Kittiwake
West Sussex, England
+44 (0) 1903 731 470
www.kittiwake.com

Parker Procal
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