

|       |     |              |                                                                                                                        |
|-------|-----|--------------|------------------------------------------------------------------------------------------------------------------------|
| 4RT1  | WHT | TO 112 -3-1  | HEATING DETECTION AND<br>RECOVERY TEMPERATURE                                                                          |
|       | BLK | TO 112 -3-2  |                                                                                                                        |
| 4RT2  | WHT | TO 112 -3-3  | SOLUTION TEMPERATURE<br>ENTERING LEVEL CONTROL                                                                         |
|       | BLK | TO 112 -3-4  |                                                                                                                        |
| 4RT3  | WHT | TO 112 -3-5  | HEAT SOLUTION TEMPERATURE<br>ENTERING LT HEAT EXCHANGER                                                                |
|       | BLK | TO 112 -3-6  |                                                                                                                        |
| 4RT5  | WHT | TO 112 -8-9  | ABSORBER TEMPERATURE<br>LEAVING HT GENERATOR                                                                           |
|       | BLK | TO 112 -8-10 |                                                                                                                        |
| 4RT6  | WHT | TO 113 -3-1  | EVAPORATOR ENTERING<br>WATER TEMPERATURE                                                                               |
|       | BLK | TO 113 -3-2  |                                                                                                                        |
| 4RT7  | WHT | TO 113 -3-3  | EVAPORATOR LEAVING<br>WATER TEMPERATURE                                                                                |
|       | BLK | TO 113 -3-4  |                                                                                                                        |
| 4RT8  | WHT | TO 113 -3-5  | ABSORBER LEAVING<br>WATER TEMPERATURE                                                                                  |
|       | BLK | TO 113 -3-6  |                                                                                                                        |
| 4RT9  | WHT | TO 113 -3-7  | CONDENSER LEAVING<br>WATER TEMPERATURE                                                                                 |
|       | BLK | TO 113 -3-8  |                                                                                                                        |
| 4RT10 | WHT | TO 113 -7-7  | ABSORBER ENTERING<br>WATER TEMPERATURE                                                                                 |
|       | BLK | TO 113 -7-8  |                                                                                                                        |
| 4RT12 | WHT | TO 115 -6-1  | SATURATED EVAPORATOR<br>REFRIGERANT TEMPERATURE                                                                        |
|       | BLK | TO 115 -6-2  |                                                                                                                        |
| 4RT13 | WHT | TO 115 -6-3  | ABSORBER SPRAY TEMPERATURE                                                                                             |
|       | BLK | TO 115 -6-4  |                                                                                                                        |
| 4RT14 | WHT | TO 115 -6-5  | SOLUTION TEMPERATURE<br>LEAVING ABSORBER                                                                               |
|       | BLK | TO 115 -6-6  |                                                                                                                        |
| 4RT15 | WHT | TO 115 -6-7  | SOLUTION TEMPERATURE<br>ENTERING ABSORBER                                                                              |
|       | BLK | TO 115 -6-8  |                                                                                                                        |
| 4RT16 | WHT | TO 115 -7-5  | SOLUTION TEMPERATURE<br>ENTERING LT GENERATOR                                                                          |
|       | BLK | TO 115 -7-6  |                                                                                                                        |
| 4RT17 | WHT | TO 115 -8-1  | SOLUTION TEMPERATURE<br>ENTERING HT GENERATOR                                                                          |
|       | BLK | TO 115 -8-2  |                                                                                                                        |
| 4RT18 | WHT | TO 115 -8-3  | SOLUTION TEMPERATURE<br>LEAVING LT GENERATOR                                                                           |
|       | BLK | TO 115 -8-4  |                                                                                                                        |
| 4RT19 | WHT | TO 115 -11-3 | SATURATED CONDENSER<br>REFRIGERANT TEMPERATURE                                                                         |
|       | BLK | TO 115 -11-4 |                                                                                                                        |
| 4RT22 | WHT | TO 112 -6-5  | STEAM OR HOT WATER TEMPER<br>ENTERING HT GENERATOR                                                                     |
|       | BLK | TO 112 -6-6  |                                                                                                                        |
| 4RT23 | WHT | TO 112 -3-7  | STEAM LIMITS:<br>STEAM CONDENSATE TEMPERATURE<br>LEAVING CONDENSATE PUMP<br>HOT WATER LIMITS:<br>HOT WATER TEMPERATURE |
|       | BLK | TO 112 -3-8  |                                                                                                                        |

41R TO 11B3-3  
73A TO 11U2 2B-2  
73A TO 11K3-A1

4 NO 1 C 2 NC  
451B

HIGH TEMPERATURE GENERATOR  
HIGH PRESSURE CUTOFF SWITCH

| A11<br>FORMER SOLUTION<br>PUMP ADJUSTABLE<br>FREQUENCY DRIVE | A12<br>LOW THERM SOLUTION<br>PUMP ADJUSTABLE<br>FREQUENCY DRIVE |
|--------------------------------------------------------------|-----------------------------------------------------------------|
| (17) FC O — 130A TO TUI J1-8                                 | (17) FC O — 130B TO TUI J1-8                                    |
| (13) PV O — 130A TO TUI J7-8                                 | (13) PV O — 130B TO TUI J7-8                                    |
| (20) MC O — 121A TO TUI J1-6                                 | (20) MC O — 135A TO TUI J7-6                                    |
| (16) MB O — 120A TO TUI J1-6                                 | (16) MB O — 130A TO TUI J7-3                                    |
| T3 O — 12A BLK                                               | T3 O — 18A BLK                                                  |
| T2 O — 11A YEL                                               | T2 O — 17A YEL                                                  |
| T1 O — 10A RED                                               | T1 O — 16A RED                                                  |
| L3 O — 6A BLK TO 1F8                                         | L3 O — 15A BLK TO 1F8                                           |
| L2 O — 5A YEL TO 1F8                                         | L2 O — 14A YEL TO 1F8                                           |
| L1 O — 4A RED TO 1F4                                         | L1 O — 13A RED TO 1F7                                           |
| (8) SE O — 55A                                               | (8) SE O — 45A                                                  |
| (11) SE O — 51A TO TUI J12-1<br>01B                          | (11) SE O — 40A TO 11C-11                                       |
| (9) SE O — 50A TO TUI J12-3                                  | (9) SE O — 43A TO TUI J12-3                                     |

[illegible]

**481 RETREATMENT PUMP MOTOR**  
481 MOTOR HIGH TEMP CUTOUT

3A BLK TO 1U11-6  
3A YEL TO 1U11-4  
7A RED TO 1U11-2

SPUICE 3  
SPUICE 2  
SPUICE 1  
SPUICE 6  
SPUICE 8  
SPUICE 8  
SPUICE 4  
SPUICE 7

481  
300V-50HZ  
1400V-50HZ

BLK SPUICE 88A TO 1U11-6  
481  
BLK SPUICE 41F TO 1TB2-2

**482 AMBROSER SOLUTION PUMP MOTOR**  
482 MOTOR HIGH TEMP CUTOUT

13A BLK  
11A YEL  
10A RED

SPUICE 3  
SPUICE 2  
SPUICE 1  
SPUICE 6  
SPUICE 8  
SPUICE 8  
SPUICE 4  
SPUICE 7

482  
300V-50HZ  
1400V-50HZ

BLK SPUICE 81B  
482  
BLK SPUICE 48A

**483 LOW TEMP SOLUTION PUMP MOTOR**  
483 MOTOR HIGH TEMP CUTOUT

18A BLK  
17A YEL  
16A RED

SPUICE 3  
SPUICE 2  
SPUICE 1  
SPUICE 6  
SPUICE 8  
SPUICE 8  
SPUICE 4  
SPUICE 7

483  
300V-50HZ  
1400V-50HZ

BLK SPUICE 83A TO 1K3-14  
483  
BLK SPUICE 48A

**484 HIGH TEMP SOLUTION PUMP MOTOR**  
484 MOTOR HIGH TEMP CUTOUT

21A BLK TO 1U13-6  
20A YEL TO 1U13-4  
19A RED TO 1U13-2

SPUICE 3  
SPUICE 2  
SPUICE 1  
SPUICE 6  
SPUICE 8  
SPUICE 8  
SPUICE 4  
SPUICE 7

484  
300V-50HZ  
1400V-50HZ

BLK SPUICE 88A TO 1U12-6  
484  
BLK SPUICE 41G TO 1TB2-2

**PUMP MOTOR WIRING DETAIL - OTHER VOLTAGES**

12A,13A,18A OR 21A  
14A,11A,17A OR 20A  
7A,10A,16A OR 19A

SPUICE 9  
SPUICE 3  
SPUICE 8  
SPUICE 2  
SPUICE 7  
SPUICE 1  
SPUICE 4  
SPUICE 5  
SPUICE 6

SUPPLIED MOTOR LEADS

T3 SPUICE 12A,13A OR 21A  
T2 SPUICE 14A,11A,17A OR 20A  
T1 SPUICE 7A,10A,16A OR 19A

UNIT LINE VOLTAGE  
120 OR 220V-50HZ  
200 OR 220V-50HZ

UNIT LINE VOLTAGE  
415V-50HZ  
575V-50HZ

[illegible]

**INTERSTAGE VAPOR PRESSURE TRANSDUCER**

Unit: 4R1  
 RED to 1U2 47-8  
 BLK to 1U2 47-6  
 WHT to 1U2 47-11  
 GRN to 1U2 47-12  
 SHIELD to 1U2 47-10

**SUPPLY STEAM PRESSURE TRANSDUCER  
STEAM UNITS ONLY**

Unit: 4R2  
 RED to 1U3 4B-1  
 BLK to 1U3 4B-2  
 WHT to 1U3 4B-4  
 GRN to 1U3 4B-5  
 SHIELD to 1U3 4B-3

**HT GENERATOR STEAM PRESSURE TRANSDUCER  
STEAM UNITS ONLY**

Unit: 4R3  
 RED to 1U3 4B-6  
 BLK to 1U3 4B-7  
 WHT to 1U3 4B-9  
 GRN to 1U3 4B-10  
 SHIELD to 1U3 4B-8

**EVAPORATOR DIFFERENTIAL WATER PRESSURE TRANSDUCER**

Unit: OPTIONAL 4R4  
 RED to 18A4 to 1U7 4B-4  
 BLK to 18A4 to 1U7 4B-5  
 CABLE 4

**CONDENSER-ABSORBER DIFFERENTIAL WATER PRESSURE TRANSDUCER**

Unit: OPTIONAL 4R5  
 RED to 18A4 to 1U7 4B-9  
 BLK to 18A4 to 1U7 4B-10  
 CABLE 4

2307-8238  
CONNECTION DIAGRAM  
UNIT MOUNTED CONTROLS  
ABT HORIZON ABSORPTION

1. REFER TO DRAWING 3207-4237 FOR UNIT UNIT CONTROL PANEL MOUNTED DEVICES AND WIRING.
2. ALL TRANCE DEVICES AND ASSOCIATED WIRING MARKED AS OPTIONAL MAY NOT BE PRESENT ON THE UNIT UNLESS REQUIRED BY CONTROL OPTIONS SPECIFIED ON THE SALES ORDER. REFER TO THE AS-BUILT DRAWING FOR THE DEVICES SUPPLIED WITH THE UNIT TO DETERMINE WHICH DEVICES ARE ACTUALLY SUPPLIED ON THE UNIT.
3. BASED LINES INDICATE DEVICES AND WIRING TO BE PROVIDED BY CUSTOMER. REFER TO THE AS-BUILT DRAWING FOR THE UNIT TO DETERMINE WHICH DEVICES THE UNIT TO DETERMINE THE ACTUAL CUSTOMER SUPPLIED DEVICES AND WIRING REQUIRED ON THE UNIT.
4. TERMINALS INDICATED ON A4 AND A4S DEVICES ARE USED ON ALL LINE VOLTAGES EXCEPT 480V. TERMINALS INDICATED ON A4S DEVICES ARE USED ON 480V. REFER TO THE AS-BUILT DRAWING FOR THE UNIT TO DETERMINE WHICH DEVICES ARE ACTUALLY SUPPLIED ON THE UNIT.
5. UNIT ENERGY WIRE IS FACTORY INSTALLED AND 4001 ENERGY WIRE WEEPER AND 4017 ENERGY WIRE BY SPIN AND FACTORY BOND ON RIGID UNITS. UNIT ENERGY WIRE IS PROVIDED BY THINE FOR FIELD BONDING. REFER TO THE AS-BUILT DRAWING FOR THE UNIT TO DETERMINE WHICH DEVICES ARE ACTUALLY SUPPLIED. WIRE WEEPER. THINE PROVIDES BY CABLE ASSEMBLY FOR FIELD WIRING BY CUSTOMER TO THE 4017 ENERGY WIRE.

1 = MAIN UNIT CONTROL PANEL  
4 = UNIT MOUNTED DEVICE  
6 = CUSTOMER PROVIDED DEVICE

**⚠ WARNING**  
**HAZARDOUS VOLTAGE!**  
 DISCONNECT ALL ELECTRIC POWER  
 INCLUDING REMOTE DISCONNECTS  
 BEFORE SERVICING.  
 FAILURE TO DISCONNECT POWER  
 BEFORE SERVICING CAN CAUSE  
 SERIOUS PERSONAL INJURY OR DEATH.

**⚠ AVERTISSEMENT**  
**VOLTAGE DANGEREUX!**  
 DÉBRANCHER TOUTES LES SOURCES  
 D'ÉLECTRICITÉ Y COMPRIS LES  
 DISJONCTEURS À DISTANCE  
 AVANT D'EFFECTUER L'ENTRETIEN.  
 FAUTE DE DÉBRANCHER LA SOURCE  
 ÉLECTRIQUE AVANT D'EFFECTUER  
 L'ENTRETIEN PEUT ENTRAÎNER DES  
 BLESSURES CORPORELLES SÈVÈRES  
 OU LA MORT.

**⚠ CAUTION**  
USE COPPER CONDUCTORS ONLY.  
UNIT TERMINALS ARE NOT DESIGNED  
TO ACCEPT OTHER TYPES OF  
CONDUCTORS.  
FAILURE TO DO SO MAY CAUSE  
DAMAGE TO THE EQUIPMENT.