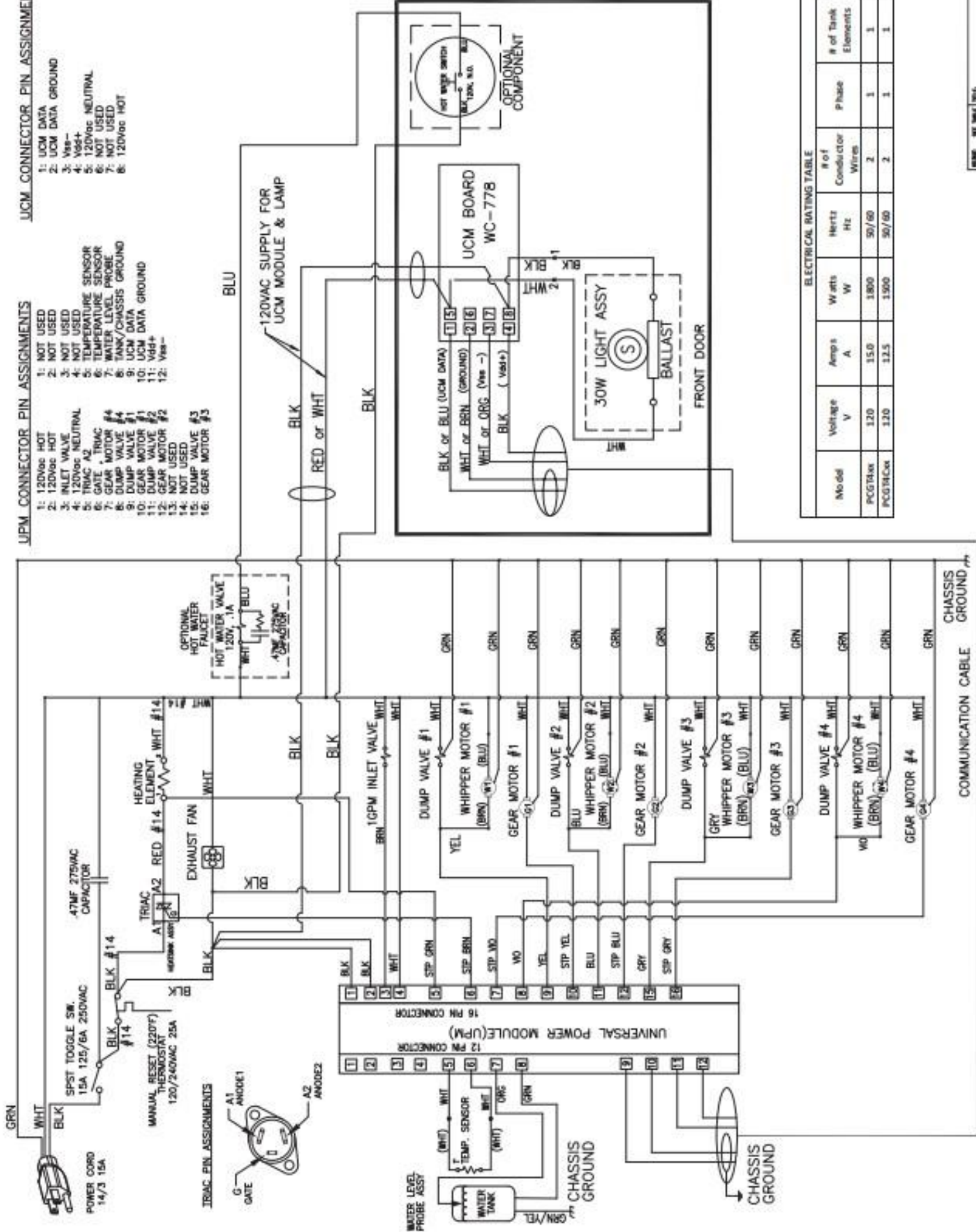


UPM\_CONNECTOR\_PIN\_ASSIGNMENTS

- 1: 120Vac HOT
- 2: 120Vac HOT
- 3: INLET VALVE
- 4: 120Vac NEUTRAL
- 5: TRIAC A2
- 6: GATE TRIAC
- 7: GEAR MOTOR #4
- 8: DUMP VALVE #4
- 9: DUMP VALVE #1
- 10: GEAR MOTOR #1
- 11: DUMP VALVE #2
- 12: GEAR MOTOR #2
- 13: NOT USED
- 14: NOT USED
- 15: NOT USED
- 16: GEAR MOTOR #3

UCM\_CONNECTOR\_PIN\_ASSIGNMENTS

- 1: UCM DATA
- 2: UCM DATA GROUND
- 3: Vss-
- 4: Vss+
- 5: 120Vac NEUTRAL
- 6: NOT USED
- 7: NOT USED
- 8: 120Vac HOT



ELECTRICAL RATING TABLE

Model	Voltage V	Amps A	Watts W	Hertz Hz	# of Conductor Wires	Phase	# of Tank Elements
PCGT4xx	120	15.0	1800	50/60	2	1	1
PCGT4Cxx	120	12.5	1500	50/60	2	1	1

COMMUNICATION CABLE

CHASSIS GROUND

**INCOMING POWER**  
220-240V<sub>ac</sub> 1PH  
2W+G 50/60 Hz

**POWER BLOCK**  
57-65A/300-450V

**EMI FILTER**  
30A/250V

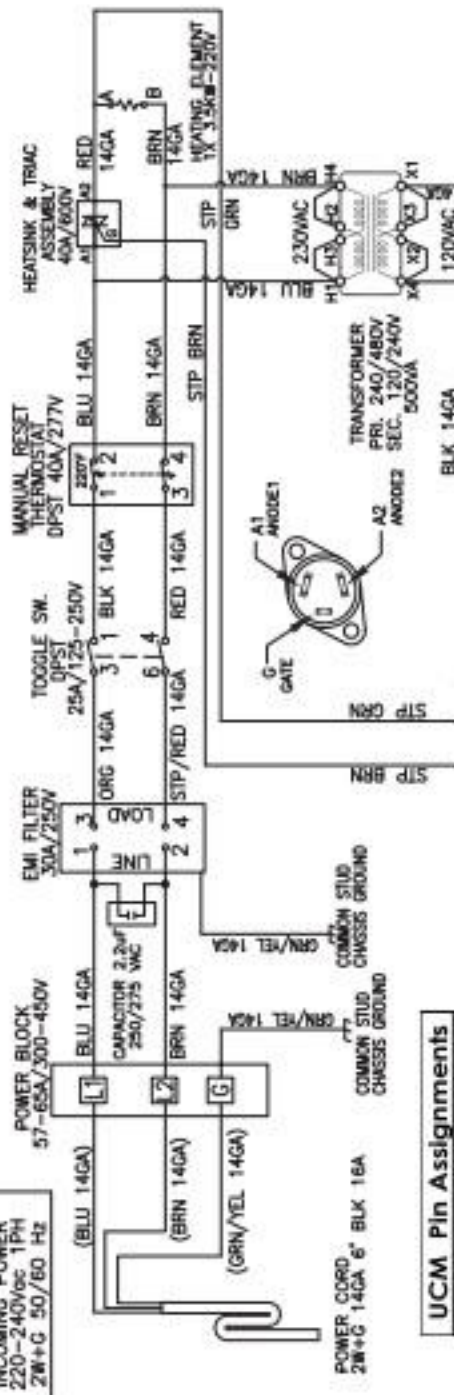
**TOGGLE SW.**  
25A/125-250V  
DPST

**MANUAL RESET THERMOSTAT**  
40A/600V  
DPST 40A/277V

**HEATSINK & TRAC ASSEMBLY**  
40A/600V

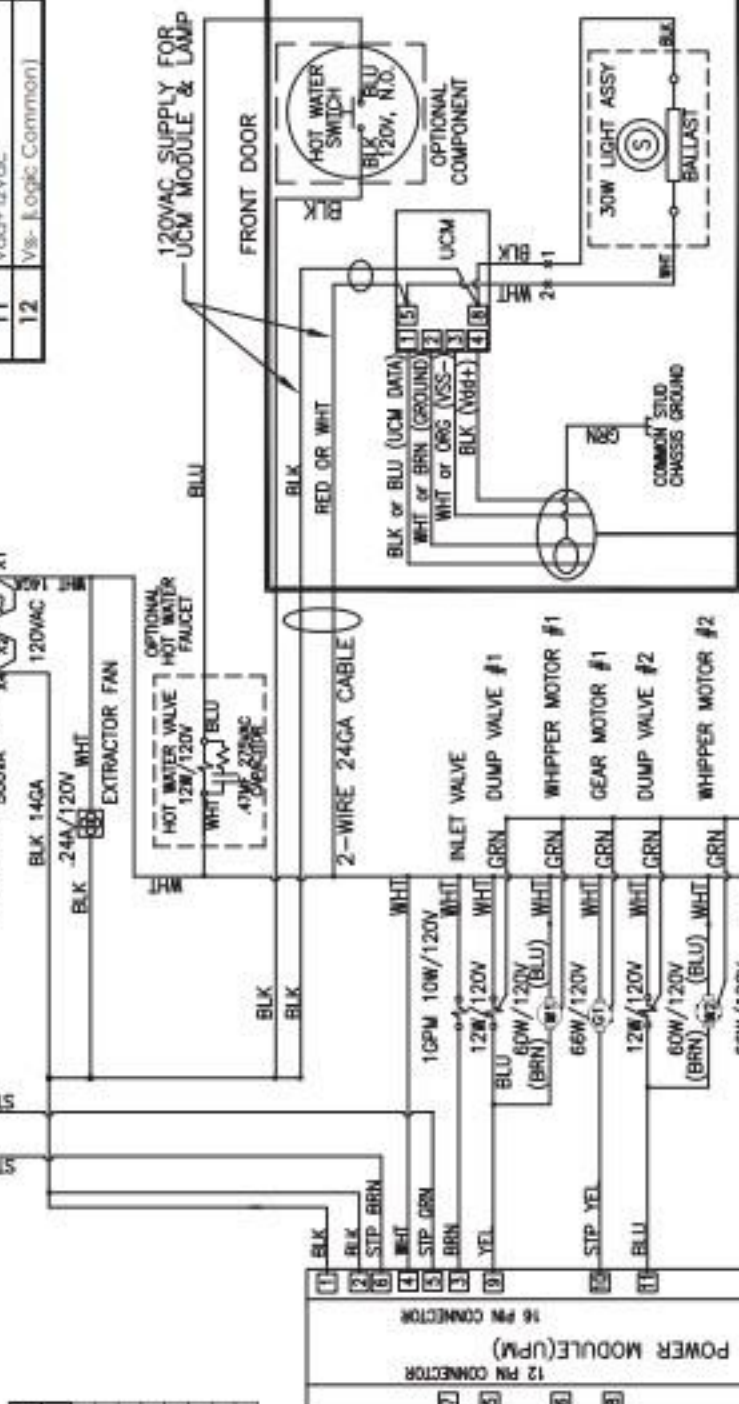
**UPM Pin Assignments**

12 Pin Connector	
1	NOT USED
2	NOT USED
3	NOT USED
4	NOT USED
5	TANK TEMPERATURE SENSOR
6	TANK TEMPERATURE SENSOR
7	WATER LEVEL PROBE
8	UPM GROUND
9	UCM DATA
10	UCM DATA GROUND
11	V <sub>od</sub> +12V <sub>dc</sub>
12	V <sub>s</sub> -Logic Common



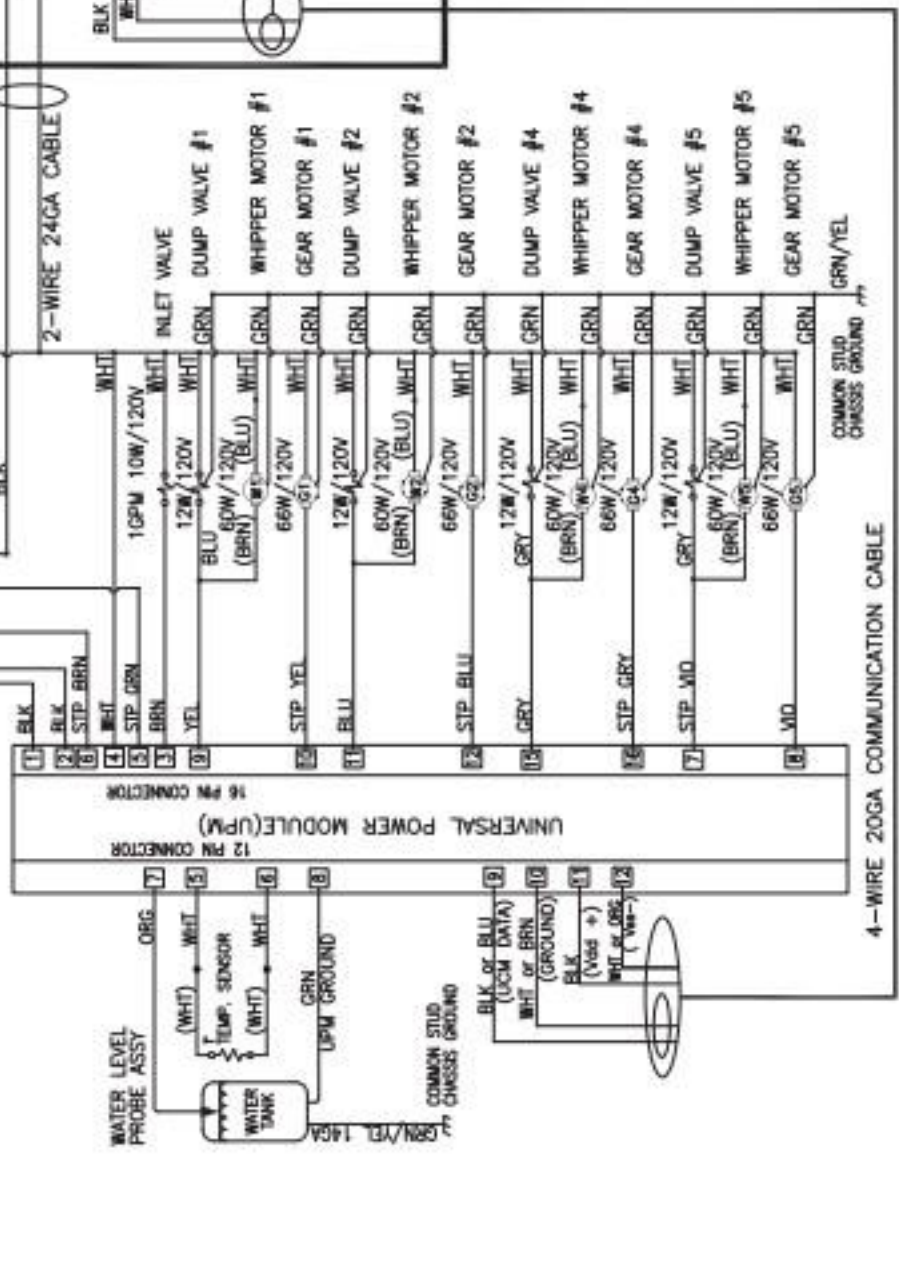
**UCM Pin Assignments**

8 Pin Connector	
1	UCM DATA
2	UCM DATA GROUND
3	V <sub>s</sub> -Logic Common
4	V <sub>od</sub> +5V <sub>dc</sub>
5	120VAC NEUTRAL
6	NOT USED
7	NOT USED
8	120VAC HOT



**ELECTRICAL RATING TABLE**

Model	Voltage V	Amps A	Watts W	Hertz Hz	# of Conductor Wires
PCGT4Ex	2.20	17.0	3700	50/60	2
	2.30	17.6	4044		
	2.40	18.3	4400		

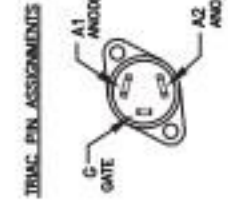
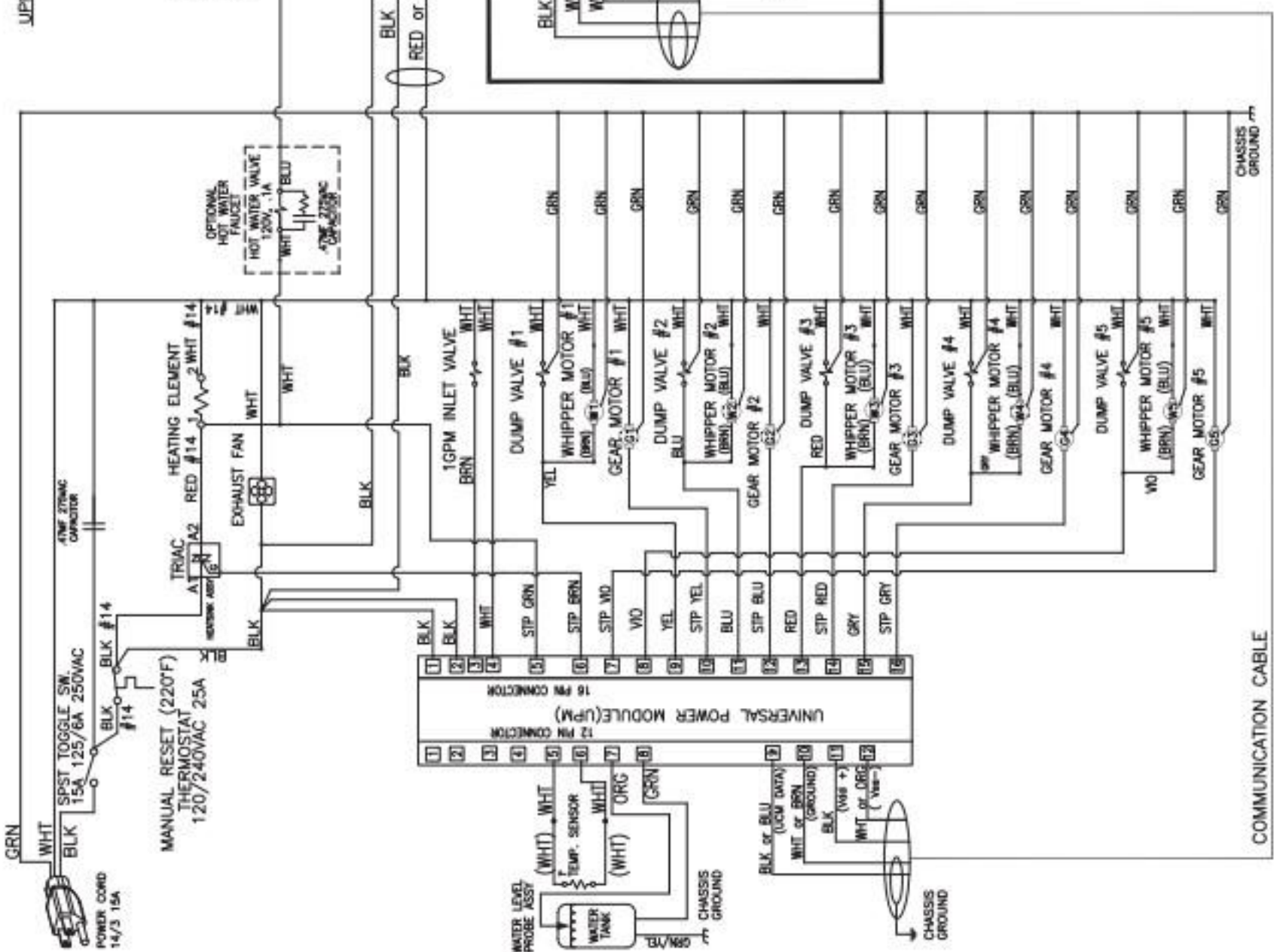


4-WIRE 20GA COMMUNICATION CABLE

COMMON STUD CHASSIS GROUND GRN/YEL

- UPM CONNECTOR PIN ASSIGNMENTS**
- 1: 120Vac HOT
  - 2: 120Vac HOT
  - 3: INLET VALVE
  - 4: 120Vac NEUTRAL
  - 5: TRIPAC A2
  - 6: GATE
  - 7: GEAR MOTOR #5
  - 8: DUMP VALVE #5
  - 9: DUMP VALVE #4
  - 10: GEAR MOTOR #4
  - 11: DUMP VALVE #3
  - 12: GEAR MOTOR #3
  - 13: DUMP VALVE #2
  - 14: GEAR MOTOR #2
  - 15: DUMP VALVE #1
  - 16: GEAR MOTOR #1

- UCM CONNECTOR PIN ASSIGNMENTS**
- 1: NOT USED
  - 2: NOT USED
  - 3: NOT USED
  - 4: NOT USED
  - 5: TEMPERATURE SENSOR
  - 6: TEMPERATURE SENSOR
  - 7: WATER LEVEL PROBE
  - 8: NOT USED
  - 9: NOT USED
  - 10: UCM DATA GROUND
  - 11: UCM DATA GROUND
  - 12: Vcc+



**ELECTRICAL RATING TABLE**

Model	Voltage V	Amps A	Watts W	Hertz Hz	# of Conductor Wires	Phase
PGGT5xx	120	15.0	1800	50/60	2	1
PGGT50x	120	12.5	1500	50/60	2	1

NAME	SEE PAGE	WELD
WIRING	SEE THIS	
APPROVAL	SEE THIS	

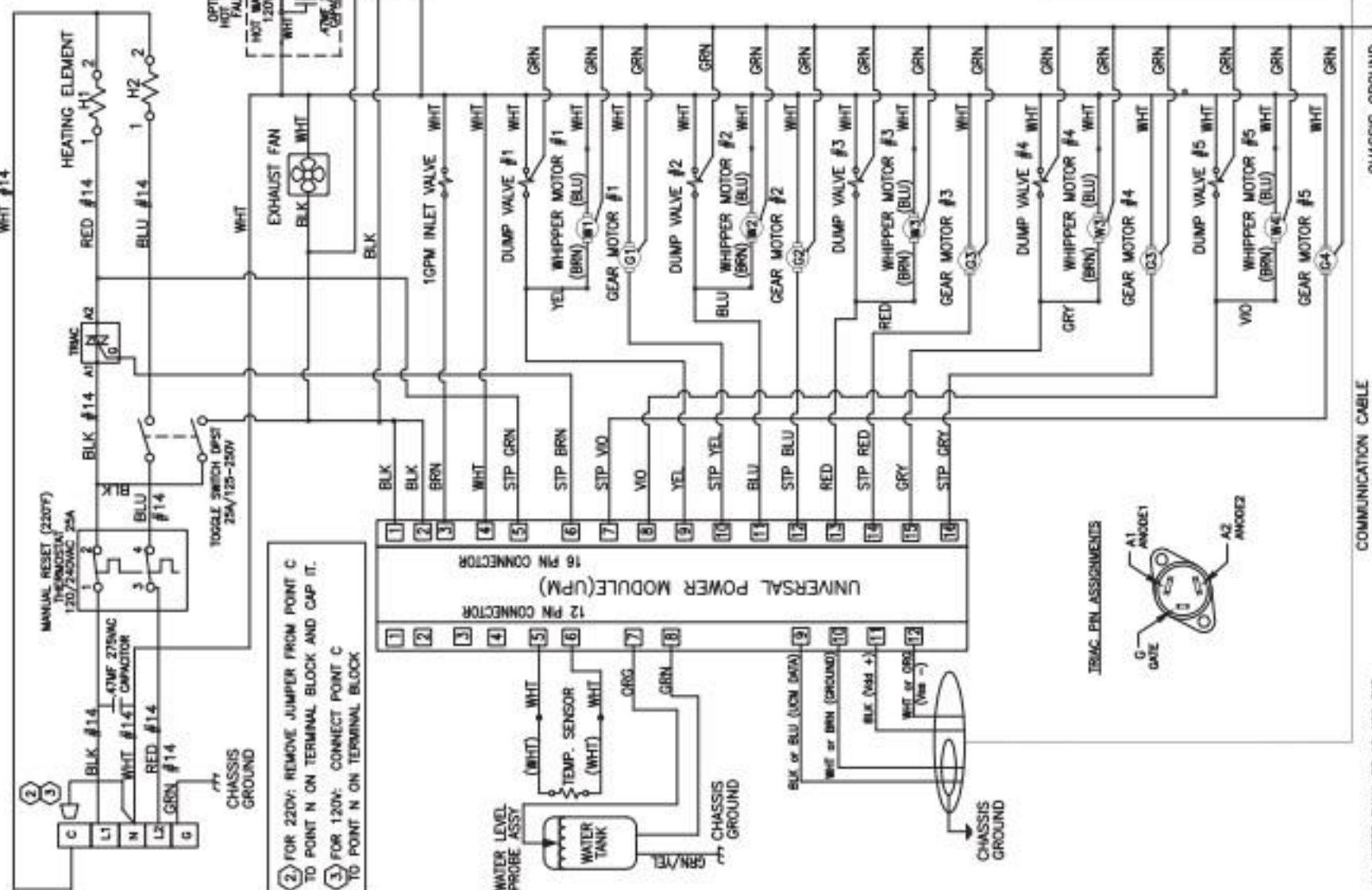
**UCM CONNECTOR PIN ASSIGNMENTS**

- 1: UCM DATA GROUND
- 2: UCM DATA GROUND
- 3: Vss-
- 4: Vss+
- 5: 120VAC NEUTRAL
- 6: 120VAC INDIVIDUAL
- 7: NOT USED
- 8: 120VAC HOT

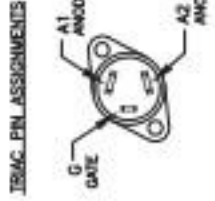
**LPM CONNECTOR PIN ASSIGNMENTS**

- 1: 120VAC HOT
- 2: 120VAC HOT
- 3: INLET VALVE
- 4: 120VAC NEUTRAL
- 5: TRAC A2
- 6: GATE, TRAC
- 7: GEAR MOTOR #5
- 8: DUMP VALVE #1
- 9: DUMP VALVE #2
- 10: GEAR MOTOR #1
- 11: DUMP VALVE #3
- 12: GEAR MOTOR #2
- 13: DUMP VALVE #4
- 14: GEAR MOTOR #3
- 15: DUMP VALVE #5
- 16: GEAR MOTOR #4

- 1: NOT USED
- 2: NOT USED
- 3: NOT USED
- 4: NOT USED
- 5: TEMPERATURE SENSOR
- 6: TEMPERATURE SENSOR
- 7: WATER LEVEL PROBE
- 8: TANK/CHASSIS GROUND
- 9: UCM DATA
- 10: UCM DATA GROUND
- 11: Vss+
- 12: Vss-



② FOR 220V: REMOVE JUMPER FROM POINT C TO POINT N ON TERMINAL BLOCK AND CAP IT.  
 ③ FOR 120V: CONNECT POINT C TO POINT N ON TERMINAL BLOCK.



**ELECTRICAL RATINGS TABLE**

Model	Voltage V	Amperes A	Watts W	Herz Hz	# of Tank Elements	Phase	Tank Element Rating W/Hz
P-8170/We	120	15.0	1800	50/60	1	1	(1) 1600W/12C
	120/220	14.5	3000	50/60			(2) 1600W/12C
	120	15.0	1800	50/60			(3) 1600W/12C
P-8170/We	120	16.0	3600	50/60	1	1	(1) 1600W/12C
	120	12.5	1500	50/60			(2) 1150W/12C
	120/220	10.9	2400	50/60			(3) 1150W/12C
P-8170/We	120	12.5	1500	50/60	1	1	(1) 1150W/12C
	120/240	11.0	2850	50/60			(2) 1150W/12C
	120/240	11.0	2850	50/60			(3) 1150W/12C

1. ALL WIRES SHALL BE 18 AWG PVC.