

**SPECIFICATIONS**

PREPURGE	30 SEC.
INNER PURGE	30 SEC.
POST PURGE	30 SEC.
HSI WARMUP	35 - 75 SEC.
TRIAL TIME	3 SEC.
IGNITION TRIALS	1
RE-CYCLES	1

ALL TIMINGS ARE +/- 0.25 SEC.

**ELECTRICAL SPECIFICATIONS**

**PERIFERAL RATINGS**

GAS VALVE	24 VAC, 5 A MAX
CIRCULATOR CONTACTOR	24 VAC, 10 A MAX
COMBUSTION FAN	120 VAC, 10 A MAX
HOT SERFACE IGNITOR	120 VAC, 10 A MAX
LOCKOUT SIGNAL	120 VAC, 10 A MAX 30 VDC, 5 A MAX

**CONTROL POWER**

24VAC 85-110%, 230mA MAX
120VAC, 85-110%, 20uA MAX

**J1 (AMP # 1-480706-0 SOCKET)**

1. PRESSURE SWITCH INPUT
2. GAS VALVE RETURN
3. OUTPUT TO PRESSURE SWITCH
4. OUTPUT TO HIGH LIMIT
5. GAS VALVE HOT
6. HIGH LIMIT INPUT
7. AQUASTAT INPUT
8. BURNER GROUND
9. OUTPUT TO AQUASTAT

**J3 (AMP # 1-480698-0 SOCKET)**

1. 24 VAC RETURN
2. 24 VAC HOT

**J5 (AMP # 1-480700-0 SOCKET)**

1. TRANSFORMER PRIMARY HOT
2. (NOT USED)
3. TRANSFORMER PRIMARY RETURN

**J7 (AMP # 1-480702-0 SOCKET)**

1. COMBUSTION FAN HOT
2. FAN CHASSIS (IF NEEDED)
3. COMBUSTION FAN RETURN
4. (NOT USED)

**J9 (MOLEX #22-23-2051)**

SYNETEK - LED300A - SERIAL DISPLAY  
RAM - DSP1-01 - SERIAL DISPLAY

**J2 (AMP # 1-480706-0 PIN)**

1. FLAME SENSE INPUT
2. OUTPUT TO CONDENSATE SWITCH
3. OUTPUT TO BLOCKED FLUE SWITCH
4. BLOCKED FLUE INPUT
5. WATER FLOW SWITCH INPUT
6. HIGH/LOW GAS PRESSURE INPUT
7. CONDENSATE SWITCH INPUT
8. OUTPUT TO WATER FLOW SWITCH
9. OUTPUT TO HIGH/LOW GAS SWITCH

**J4 (AMP # 1-480700-0 PIN)**

1. 120 VAC HOT
2. EARTH GROUND
3. 120 VAC RETURN

**J6 (AMP # 1-480702-0 PIN)**

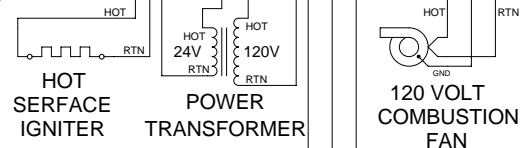
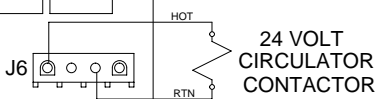
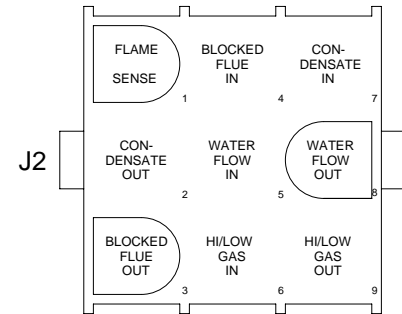
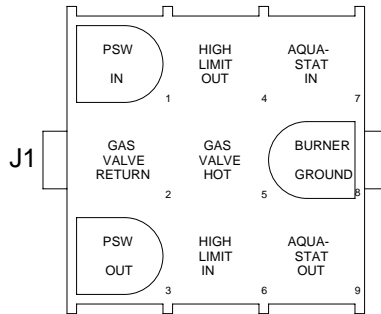
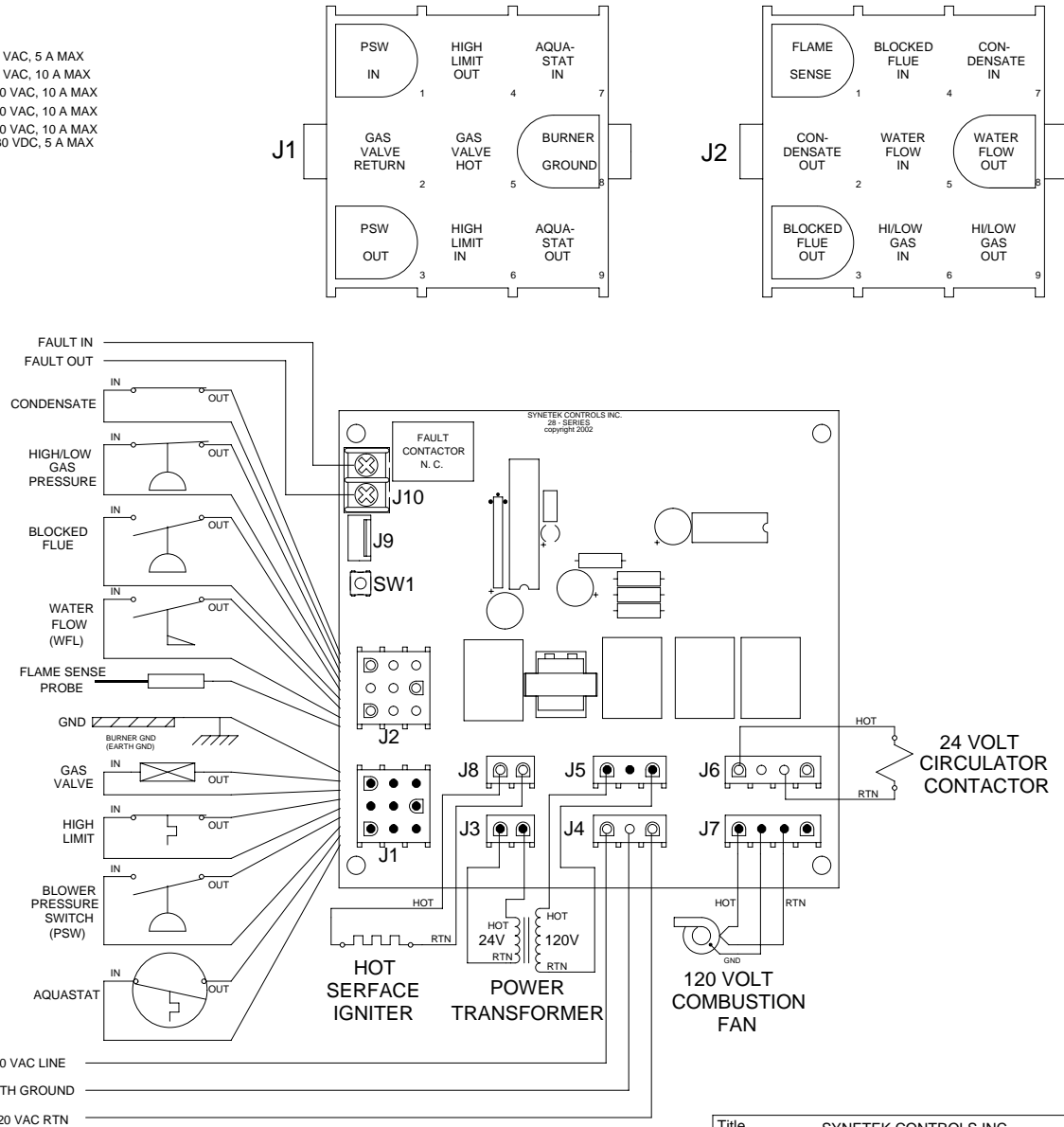
1. CIRCULATOR HOT
2. (NOT USED)
3. CIRCULATOR RETURN
4. (NOT USED)

**J8 (AMP # 1-480698-0 PIN)**

1. IGNITOR HOT
2. IGNITOR RETURN

**J10 (FAULT INDICATOR SCREW TERMINAL)**

CONTACT OPEN IF FAULT OR NO POWER  
CONTACT CLOSED IF NORMAL OPERATION  
AND UNIT IS POWERED



Title			SYNETEK CONTROLS INC. 28 - SERIES CONTROL		
Size	Number	DH21280A		Rev	B
Date	01-02-03	Drawn by	DDJ		
Filename	AW280A_B.PCB	Sheet	1	of	1