


PUMP

BLOWER/P2

OZONE

P/N 52531HC3  
MODEL SUV



Balboa Instruments  
Incorporated  
BALBOA INSTRUMENTS INC.  
TUSTIN, CA.

Certified to comply with the limits for a class B computing device pursuant to subpart J of part 15 of the FCC rules

MODEL: WHM-SUV-CCAH

PAT. NO. 4618797



Balboa Instrument Incorporated  
01/11/06

SUV SYSTEM WIRING DIAGRAM

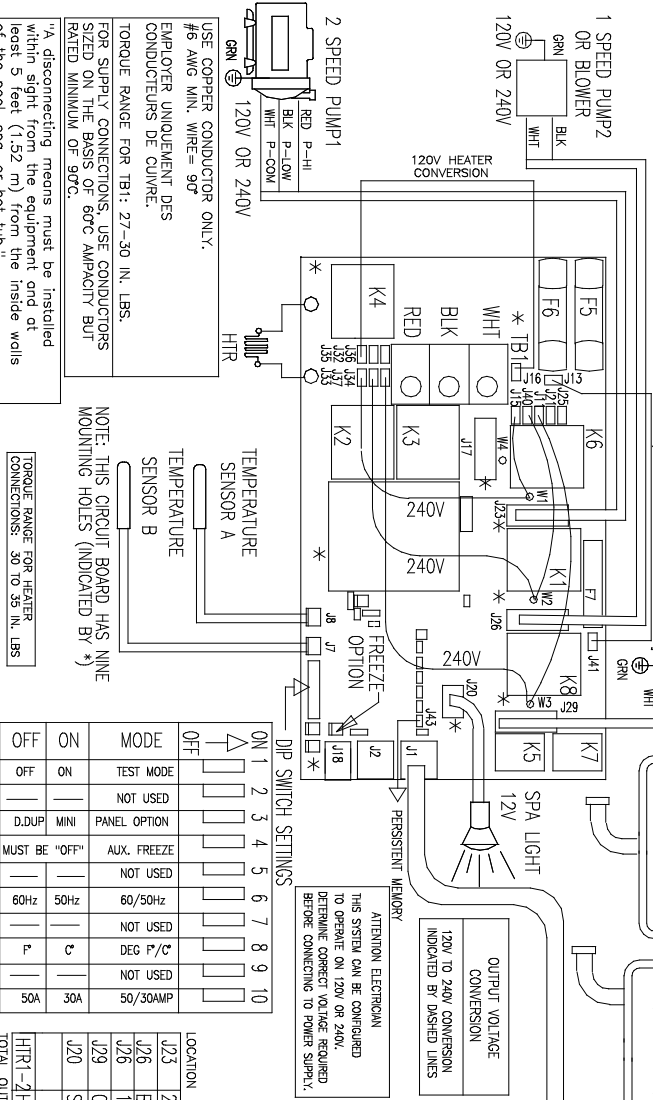
PART NUMBER 52531HC3

DIGITAL DUPLEX (OPTIONAL)

MINI PANEL

- BLOWER TO PUMP2 CONVERSION INSTRUCTIONS:**
1. REMOVE 10A FUSE FROM T7 COMPLETELY.
  2. INSTALL BLK WIRE FROM J15 TO J41

- OZONE GENERATOR 120V OR 240V**



**ATTENTION ELECTRICIAN:**  
THIS SYSTEM CAN BE CONFIGURED TO OPERATE ON 120V OR 240V. DETERMINE CORRECT VOLTAGE REQUIRED BEFORE CONNECTING TO POWER SUPPLY.

**OUTPUT VOLTAGE CONVERSION:**  
120V TO 240V CONVERSION INDICATED BY DASHED LINES

**120V TO 240V HEATER CONVERSION INSTRUCTIONS:**

1. CONVERSION MUST BE PERFORMED BY A QUALIFIED, LICENSED ELECTRICIAN, HARDWARE ONLY.
2. DISCONNECT FROM POWER & REMOVE WIRE/COILS.
3. REMOVE WIRE CONNECTED TO J-16 & J-35 COMPLETELY AND DISCARD.
4. INSTALL 240V POWER LINE TO T81 TERMINAL BLOCK.
5. SET DIP SWITCH 10 TO "OFF" POSITION.

If this unit is to be permanently connected, connect only to a circuit that is protected by a Class A ground fault circuit interrupter (GFCI.).

LOCATION	DEVICE	VOLTAGE	RATING	CONNECT FROM	CONNECT TO
J23	2 SPD P1	120/240V	16/12A	W1	J15
J26	BLOWER	120/240V	8A	W2	J40
J26	TSP PUMP2	120/240V	16/12A	W2	J40
J29	OZONE	120/240V	1A	W3	J11
J20	SPA LIGHT	12V			

HTR1-2HEATER 240/120V 5.5KW/1.4KW  
TOTAL OUTPUT AMPERAGE DRAW NOT TO EXCEED MAX INPUT RATING OF SPA.

**1 SPEED PUMP2 OR BLOWER**  
120V OR 240V

**2 SPEED PUMP1**  
120V OR 240V

USE COPPER CONDUCTOR ONLY.  
#8 AWG MIN. WIRE = 90°  
EMPLOYER UNQUOTEMENT DES CONDUCTEURS DE CUIVRE.  
TORQUE RANGE FOR T81: 27-50 IN. LBS.  
FOR SUPPLY CONNECTIONS, USE CONDUCTORS SIZED ON THE BASIS OF 80°C AMPACITY BUT RATED MINIMUM OF 90°C.

**TEMPERATURE SENSOR A**  
**TEMPERATURE SENSOR B**

NOTE: THIS CIRCUIT BOARD HAS NINE MOUNTING HOLES (INDICATED BY \*)

TORQUE RANGE FOR HEATER CONNECTIONS: 30 TO 35 IN. LBS.

**DIP SWITCH SETTINGS**

SWITCH	SETTING	DESCRIPTION
1	ON	120V TO 240V CONVERSION
2	OFF	HEATER CONVERSION
3	OFF	HEATER CONVERSION
4	OFF	HEATER CONVERSION
5	OFF	HEATER CONVERSION
6	OFF	HEATER CONVERSION
7	OFF	HEATER CONVERSION
8	OFF	HEATER CONVERSION
9	OFF	HEATER CONVERSION
10	OFF	HEATER CONVERSION

**TEMPERATURE SENSOR A**

MODE	TEST MODE	NOT USED	AUX. FREEZE	NOT USED	60/50Hz	NOT USED	DEG F/C	NOT USED	50/30AMP
OFF	ON	OFF	ON	OFF	60Hz	OFF	F	OFF	30A