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CO₂ TANK SWITCH

MODEL : 2002-S/2002-S2

INSTALLATION AND INSTRUCTION MANUAL

10/10
4861622

Sheldon Manufacturing Inc. P.O. Box 627 Cornelius, Oregon 97113
EMAIL: tech@Shellab.com INTERNET: <http://www.Shellab.com/~Shellab>
1-800-322-4897 (503) 640-3000 FAX (503) 640-1366

TABLE OF CONTENTS

SECTION 1.0	INSTALLATION AND OPERATING INSTRUCTIONS
SECTION 2.0	PARTS LIST AND WIRING DIAGRAM

These units are for professional, industrial or educational use where the preparation or testing of materials is done at approximately atmospheric pressure and no flammable, volatile or combustible materials are being heated. These units are not intended for hazardous or household locations or use.

INSTALLATION AND OPERATING INSTRUCTIONS

Attach tubing from the gas tank regulators to the fittings marked GAS LINE IN on the rear panel of the TANK SWITCH. Attach a length of tubing from the fitting marked GAS LINE OUT to incubator.

OPERATING INSTRUCTIONS

Set regulators to proper operating pressures. Both regulators should be set to 15 psi. It does not matter which tank is attached to which input fitting. When one tank is empty, the gas line will change to the other tank automatically. At this time the empty tank can be replaced. Note: there are no alarms to indicate when the tanks are empty so tank pressure should be checked on a regular basis to insure that both tanks do not run empty. When an empty tank is replaced, simply set the regulator on the partial tank to a value of 15 psi but never more than 20 psi.

Replacing a tank:

1. Remove regulator from empty tank.
2. Attach regulator to new tank and decrease pressure to 15 psi.

This process will allow you to always keep your FULL tank on stand-by.

It is highly recommended that a good quality 0-60 PSI output range **DUAL STAGE** pressure regulator be used on the CO₂ tank. The dual stage regulator will have two pressure gauges. The high pressure gauge (0-4000 PSI) will indicate the pressure within the tank. The low pressure gauge (0-60 PSI) will indicate the output pressure on the supply hose to the incubator. Do not use single stage regulators. They will not supply a stable pressure. Just because a regulator has two gauges does not mean that it is a dual stage regulator. **Insure that you are using a dual stage regulator.**

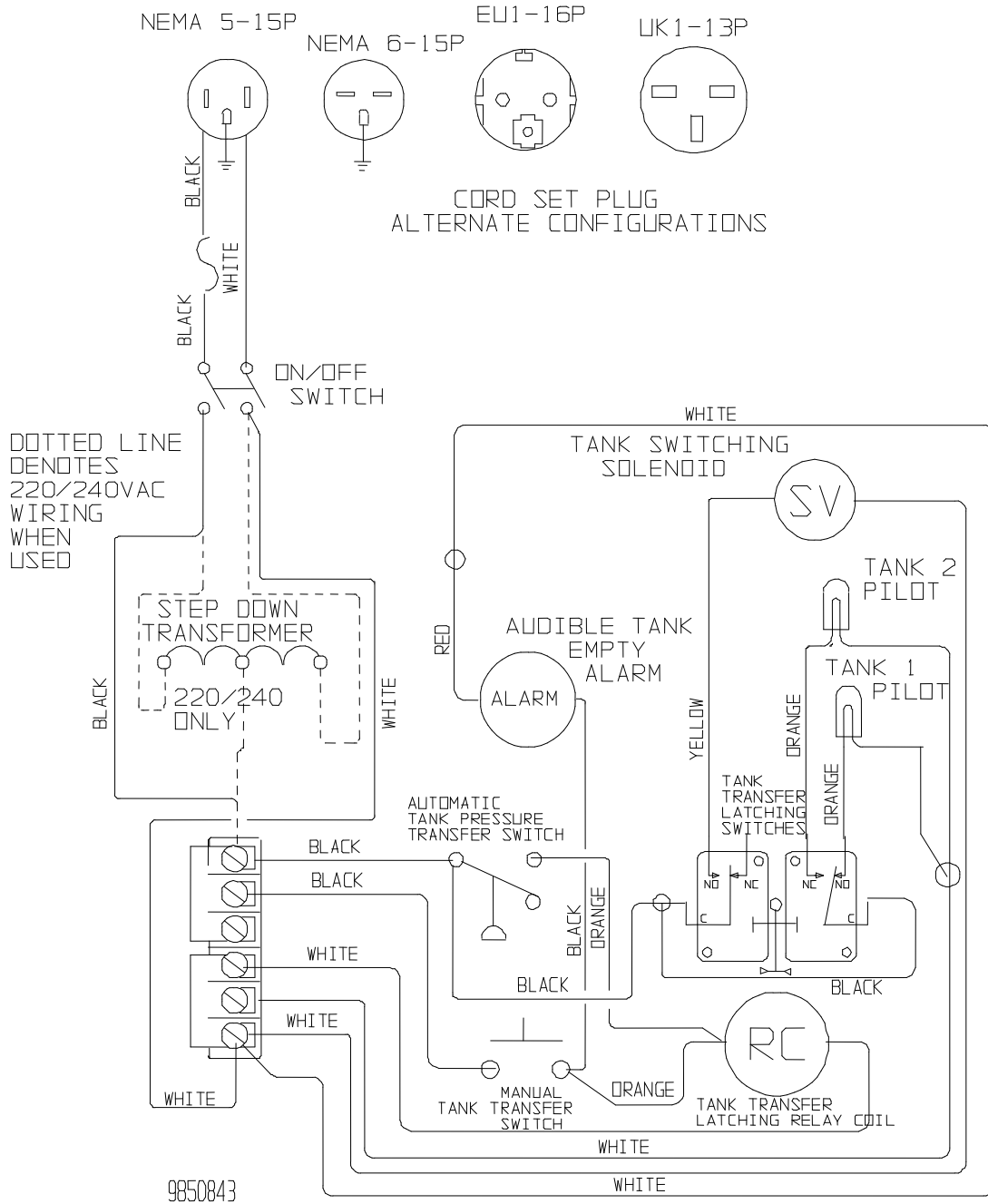
It is normal for the high pressure gauge on your regulator to start out reading 800 to 1000 PSI with a full tank. The reading will drop to 500 to 800 PSI quickly and will stay there for most of the duration of the tank. At the end of use the pressure will drop quickly to zero to indicate that the tank is completely empty. Pure CO₂ is in a liquid state in the tank, and a constant vapor pressure is generated in the tank above the liquid level. The CO₂ is drawn off of the top as a gas. The same vapor pressure is maintained as long as any liquid is left in the tank. When the last of the liquid has evaporated into gas then the pressure will drop rapidly as the gas is drawn off.

Only medical grade CO₂ should be used in your incubator. The use of any lesser grade may damage your incubator and void your warranty.

Section**2****PARTS LIST**

Description	115V	220V
Audio Alarm	0250501	0250501
Fuse 5 AMP MDA	3300500	3300500
Latching Relay	7030535	7030535
Momentary Switch	7850561	7850561
On/Off Switch	7850560	7850560
Power Cord, USA	1800516	1800537
Pressure Switch	7850574	7850574
Solenoid Valve	8600526	8600526
Tank Indicator Pilot Light	4650553	4650553
Transformer 220V to 115V	N/A	8350518

WIRE DIAGRAM



SHELDON MANUFACTURING, INC.
LIMITED WARRANTY
(Parts only, exclusive of labor)

Sheldon Manufacturing, Inc., (“Manufacturer”) warrants for the original user of this product that all parts, not including finished goods products, it manufactures or resells will be free from defects in material and workmanship for a period of one year from the date of delivery of this product to the original user (the “Warranty Period”). During the Warranty Period, Manufacturer, at its election and expense, will repair or replace parts that are proven to Manufacturer’s satisfaction to be defective, or, at Manufacturer’s option, refund the price or credit the price of any parts that are proven to Manufacturer’s satisfaction to be defective. This warranty does not cover any labor or damage due to accident, misuse, negligence, or abnormal use. Use of parts in a system that includes components not manufactured by Manufacturer is not covered by this warranty. Any alteration or removal of the serial number on Manufacturer’s parts will void this warranty. **Under no circumstances will Manufacturer be liable for indirect, incidental, consequential, or special damages.** The terms of this warranty are governed by the laws of the state of Oregon without regards to the principles of conflicts of laws thereof. If any provision of this limited warranty is held to be unenforceable by any court of competent jurisdiction, the remainder of this limited warranty will remain in full force and effect.

This warranty is in lieu of and excludes all other warranties or obligations, either express or implied. Manufacturer expressly disclaims all implied warranties, including without limitation, the warranties of merchantability and fitness for a particular purpose.



For fast and efficient support, please have the following information available anytime you request service:

Model _____

Serial No. _____

Part No. _____



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