CRYOGENIC EXPERTS, INC.

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Operating And Installation Instructions
Model CYCSYS-120-2.0-.3-NO-GS

I. Installation Instructions

1. Mount the unit on a level concrete base and anchor through the holes provided in the base of the stand. The cycling system should be located on the outlet of the vaporizers – This is a gas side Cycling System.

2. Connect a 120 vac power supply to the terminal strip – see wiring diagram for the correct terminals to connect the power to the unit. Be sure that the unit is provided with a proper ground. Make sure that all connection made to the electrical cabinet are made through the bottom or side of the electrical enclosure and are gasketed. This is very important to prevent leaks / water entering the unit.

3. Connect the gas supply to the inlet connections on the unit. One from each vaporizer or vaporizer bank to each inlet connection on the cycling system.

4. Connect the gas outlet connection of the unit to the house line.

5. Leak check the unit / piping with nitrogen at 1.25 times the max working pressure with clean dry nitrogen or air to insure that there are no leaks in the system.

6. Clean all piping for the required service. Make sure that there is no loose debris that could enter the valves as this will damage the valves and prevent them from operation properly.

7. Turn power on to the unit and turn power on to the unit. Adjust the timer to a short period – 2 to 3 minutes – and allow the unit to cycle several times to be sure that the valve are operating properly. The valves will close when energized. Observe the liquid flow to the ambients to make sure that the gas if flowing to the units properly and that the valves are not leaking. Readjust the timer to the 8 hour time period once everything is operating properly.

II Operating Instructions

1. Turn power on to the unit.

2. Turn the liquid on to the system.

3. Open the valves at the outlet of the system to allow the gas to flow to the system.

4. Turn the On / Off switch to the on position. The off position will keep the both valves open. The on position will cycle the valves.

II. Trouble Shooting

1. Unit will not cycle
   a. Power turned off to the unit
   b. Solenoid valve defective
   c. Defective timer
   d. Blown control circuit fuse
   e. Dirt in the solenoid valves

III. Specifications

Inlet Connections	1 1/2" Mueller flange
Outlet Connection	1 1/2" Mueller flange
Flow	18,000 scfh
MAWP	500 psig
Power Required	120 vac, 5 amps
Cleaning	For Oxygen Service Per CP7953 rev H
Pressure Drop	<1 psig
Fluid	Gaseous Oxygen/Nitrogen

Unit Includes The Following:

1. NEMA 4 electrical enclosure
2. Normally open solenoid valves
3. Stainless steel interconnecting piping
4. Lights for the following:
   a. Power on
   b. Valve A on
   c. Valve B on
5. Stand Assembly
6. On Off Auto Switch
7. Control circuit fuse