

# SOLARAY-PV SRCC OG-300 Label Set

The following labels must be attached to the relevant valves in the system in order for it to be considered OG-300 compliant. This page should be laminated, each label cut from it, punched in the margin at the left hand side and affixed to the appropriate valve with a wire tie, plastic ties are inappropriate due to high operating temperatures. Failure to affix these labels will void the SRCC OG-300 system certification.

## **PLEASE CONSULT SECTION 4.11.1 OF YOUR INSTALLATION MANUAL FOR SPECIFIC FREEZE TOLERANCE INFORMATION.**

A 60% CONCENTRATION OF DOWFROST HD PROPYLENE GLYCOL AND DISTILLED WATER CAN PROTECT YOUR SOLARAY SYSTEM TO TEMPERATURES AS LOW AS -65° F. LOWER CONCENTRATIONS OF DOWFROST HD AND DISTILLED WATER WILL PROVIDE A LOWER LEVEL OF FREEZE PROTECTION.

### **VALVE 23 COLD WATER SUPPLY ISOLATION VALVE**

THIS VALVE IS NORMALLY OPEN AND ALLOWS POTABLE WATER TO FILL THE SOLAR STORAGE TANK. WHEN CLOSED THE SOLAR STORAGE TANK IS ISOLATED FROM THE PRESSURIZED CITY COLD WATER SUPPLY LINE PIPING.

### **VALVE 5 COLLECTOR ARRAY ISOLATION VALVE (WARNING HOT)**

VALVE 5 IS NORMALLY OPEN. WHEN CLOSED THE SOLAR COLLECTOR LOOP PIPING IS ISOLATED FROM THE SOLAR STORAGE TANK.

### **VALVE 10 COLLECTOR ARRAY ISOLATION VALVE (WARNING HOT)**

VALVE 10 IS NORMALLY OPEN. WHEN CLOSED THE SOLAR COLLECTOR LOOP PIPING IS ISOLATED FROM THE SOLAR STORAGE TANK.

### **VALVE 12 COLLECTOR PUMP ISOLATION VALVE (WARNING HOT)**

VALVE 12 IS NORMALLY OPEN. WHEN CLOSED THE CIRCULATING PUMP IS ISOLATED FROM THE SOLAR COLLECTOR LOOP PIPING. **NEVER** SHUT THESE VALVES WHILE THE CIRCULATING PUMP IS IN OPERATION. TURN THE TOGGLE SWITCH, NO. 21, TO THE "OFF" POSITION.

### **VALVE 14 COLLECTOR PUMP ISOLATION VALVE (WARNING HOT)**

VALVE 14 IS NORMALLY OPEN. WHEN CLOSED THE CIRCULATING PUMP IS ISOLATED FROM THE SOLAR COLLECTOR LOOP PIPING. **NEVER** SHUT THESE VALVES WHILE THE CIRCULATING PUMP IS IN OPERATION. TURN THE TOGGLE SWITCH, NO. 21, TO THE "OFF" POSITION.

### **VALVE 9 COLLECTOR ARRAY FILL/DRAIN VALVE (WARNING HOT)**

VALVE 9 IS NORMALLY CLOSED. WHEN OPEN, IT IS USED TO CHARGE AND DRAIN THE SOLAR COLLECTOR LOOP PIPING.

THE HEAT TRANSFER FLUID USED IN THIS SYSTEM IS DOWFROST HD PROPYLENE GLYCOL. IT MUST BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH THE DOW CHEMICAL COMPANY MATERIAL SAFETY DATA SHEET MSDS NO. 000130. A COPY OF THE MSDS HAS BEEN PROVIDED WITH YOUR INSTALLATION MANUAL. NO OTHER FLUID SHALL BE USED THAT WOULD CHANGE THE ORIGINAL CLASSIFICATION OF THIS SYSTEM. UNAUTHORIZED ALTERATIONS TO THIS SYSTEM COULD RESULT IN A HAZARDOUS HEALTH CONDITION.

**BE EXTREMELY CAREFUL WHEN DRAINING THIS FLUID. IT MAY BE DISCHARGED AT A VERY HIGH TEMPERATURE AND/OR PRESSURE.**

**VALVE 11 COLLECTOR ARRAY FILL/DRAIN VALVE (WARNING HOT)**

VALVE 11 IS NORMALLY CLOSED. WHEN OPEN, IT IS USED TO CHARGE AND DRAIN THE SOLAR COLLECTOR LOOP PIPING.

THE HEAT TRANSFER FLUID USED IN THIS SYSTEM IS DOWFROST HD PROPYLENE GLYCOL. IT MUST BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH THE DOW CHEMICAL COMPANY MATERIAL SAFETY DATA SHEET MSDS NO. 000130. A COPY OF THE MSDS HAS BEEN PROVIDED WITH YOUR INSTALLATION MANUAL. NO OTHER FLUID SHALL BE USED THAT WOULD CHANGE THE ORIGINAL CLASSIFICATION OF THIS SYSTEM. UNAUTHORIZED ALTERATIONS TO THIS SYSTEM COULD RESULT IN A HAZARDOUS HEALTH CONDITION.

**BE EXTREMELY CAREFUL WHEN DRAINING THIS FLUID. IT MAY BE DISCHARGED AT A VERY HIGH TEMPERATURE AND/OR PRESSURE.**

**THE FOLLOWING LABEL SHALL BE AFFIXED TO THE SINGLE-THROW SWITCH USED TO ISOLATE THE PV ARRAY FROM THE CIRCULATOR PUMP. THE SINGLE-THROW SINGLE POLE SWITCH SHALL BE MOUNTED IN A STANDARD UL LISTED BOX. WE RECOMMEND A NON-METALLIC WEATHERPROOF ENCLOSURE SUCH AS THE CARLON E381D "T" BOX, OR EQUAL, WITH A WEATHERPROOF TOGGLE SWITCH COVER, CARLON E98TSC OR EQUAL. THE ENCLOSURE SHALL HAVE KNOCKOUTS TO ACCEPT THE LOW VOLTAGE WIRING AND SHOULD BE MOUNTED TO A FRAMING MEMBER BESIDE OR ABOVE THE SOLAR TANK TO PROVIDE UNOBSTRUCTED ACCESS TO THE SWITCH.**

**COMPONENT 21 CIRCULATING PUMP "ON/OFF" TOGGLE SWITCH**

THIS SWITCH ALLOWS YOU TO TURN ON OR OFF THE 12 VOLT DC CIRCULATING PUMP FOR REPLACEMENT OR MAINTENANCE.

**THE FOLLOWING 2 LABELS ARE REQUIRED WHEN INSTALLING THE SOLARAY SYSTEM IN A 2-TANK CONFIGURATION**

**VALVE 25 SOLAR TANK ISOLATION VALVE (WARNING HOT)**

THIS VALVE IS NORMALLY OPEN. WHEN CLOSED IN CONJUNCTION WITH VALVE NO. 22 WILL ISOLATE THE SOLAR STORAGE TANK FOR REPLACEMENT OR MAINTENANCE.

**VALVE 30 BACK-UP TANK ISOLATION VALVE (WARNING HOT)**

THIS VALVE IS NORMALLY OPEN. WHEN CLOSED IN CONJUNCTION WITH VALVES 22 AND 25 WILL ISOLATE THE BACK-UP WATER HEATER FOR REPLACEMENT OR MAINTENANCE.