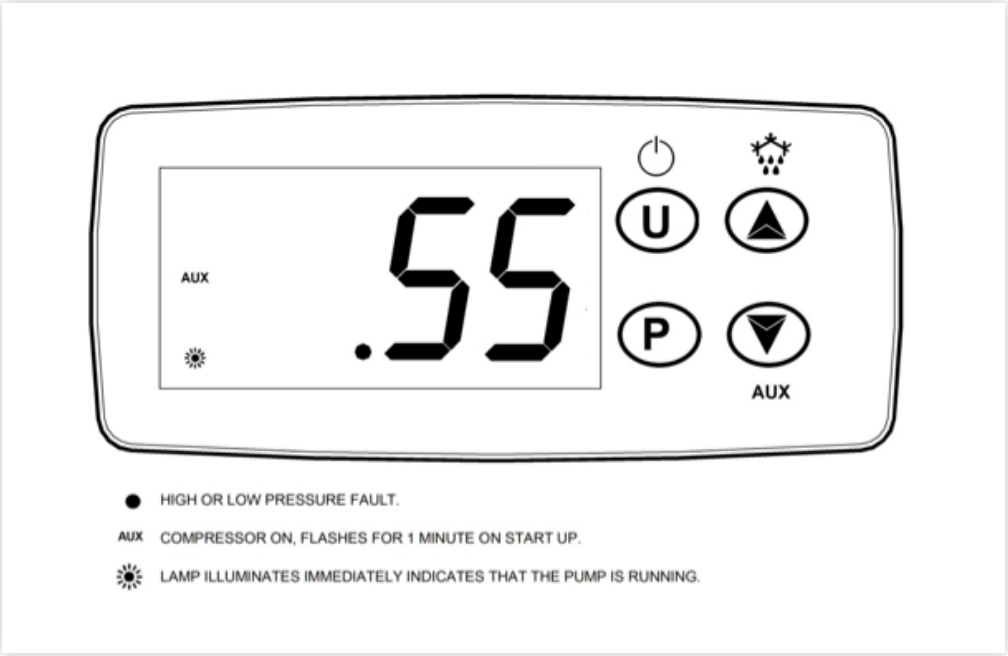
USING THE CONTROLLER

Using the SAHP

Fig 10

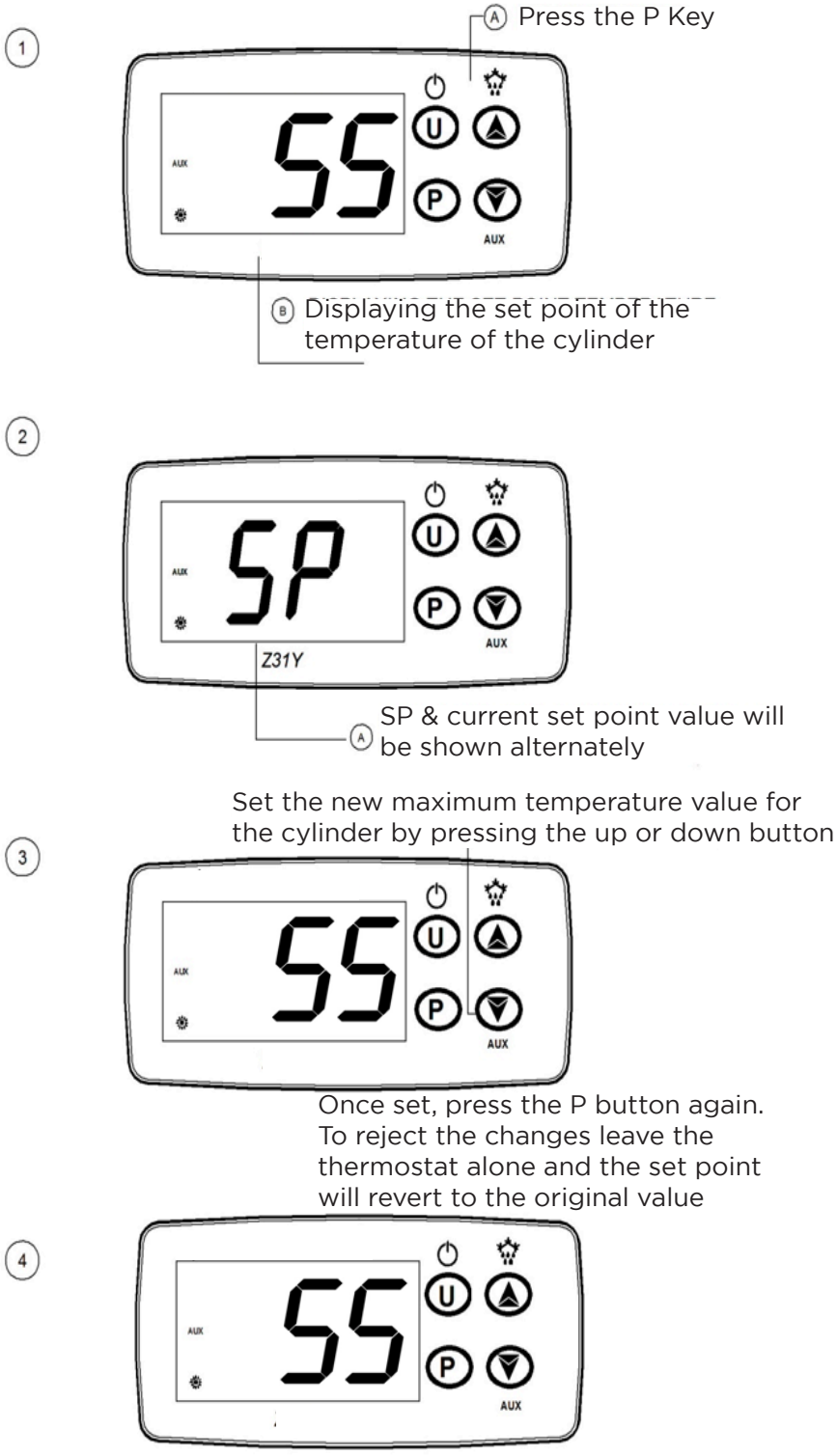


DESCRIPTION	ACTION	COMMENTS
P BUTTON	Press to show SP program mode to change operating temperature of the compressor	The temperature of the cylinder is pre-set at 130°F Never exceed 130°F in Standard mode. Never exceed 140°F in Eco mode.
UP BUTTON	Increases the temperature	
DOWN BUTTON	Decreases the temperature	

USING THE CONTROLLER continued

Using the SAHP

Fig 11



TROUBLESHOOTING

PROBLEMS	CAUSES	SOLUTION
The screen doesn't show any information.	Lack of power.	Check the power supply. Check that the power switch is on.
The system starts and stops, the screen switches off. A Dot appears on the screen (when off).	Incorrect refrigerant charge. Air in the plumbing circuit. High Pressure switch is on.	Please check the gas through the sight glass. Verify the cleanliness of the plumbing circuit. Check the pressure switches function properly. Lime deposits inside the plumbing circuit: Clean the filter in the plumbing circuit and clean the whole system. Check the functioning of the water pump and bleed the pump. Bleed the air through into air vent. Check the R134a / 513a load (check the sight glass for the refrigerant)
E1 error appears on screen.	Non condensable gases in the refrigeration circuit. Temperature probe.	Empty the refrigeration circuit and refill with clean refrigerant. Check the continuity of the probe using a multimeter. Check the temperature probe connection.

TROUBLESHOOTING GUIDE

PROBLEMS	CAUSES	SOLUTION
The water is cold and the compressor is working.	Lower set temperature.	Check the temperature set point on screen.
	The temperature sensor is disconnected to the cylinder.	Check the right placement of the temperature sensor inside the cylinder.
	The pipework between the panel and the SAHP is not properly insulated.	Check the proper insulation of the plumbing circuit and the cylinder.
	Incorrect refrigerant charge.	Check the R134a / 513a charge (check the sight glass for the refrigerant).
The panel is frosting.	Frost could appear during the normal operation and it melts once the LMTB stops.	
The water does not reach temperature.	Incorrect refrigerant charge.	Check the R134a / 513a charge (check the sight glass for the refrigerant).
	Incorrect Installation.	Ensure panel is installed and unit installed correctly.
	Refrigerant Leak or charge.	Check for leaks. If pipe run over 27 " extra refrigerant must be added (check the sight glass for the refrigerant).