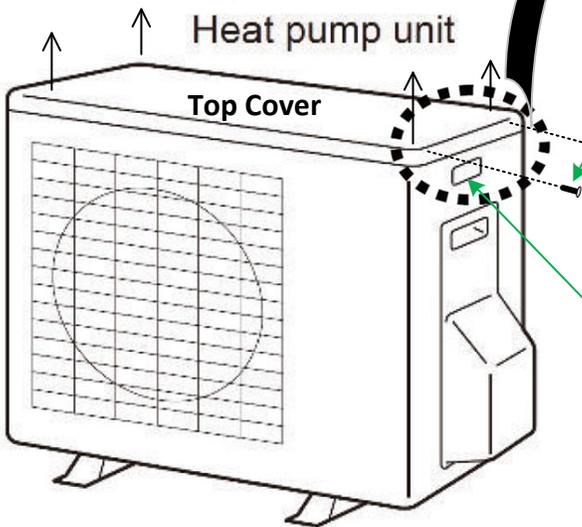
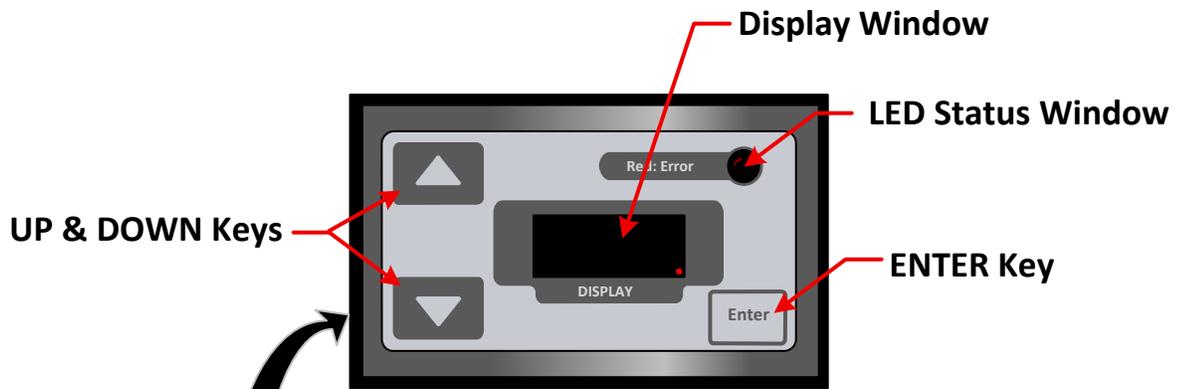


Sanco2 GS4-45HPC & GS4-45HPC-D Heat Pump Water Heater Controller

Quick Start-up Guide

OPERATION CONTROL PANEL



Two Screws

Accessing to the GS5 Control Panel

- Remove the two screws to the top cover
- Remove the top cover
- Remove the screw above the Controller
- Lift the control upward. It is connected to a harness



Quick Start-up Guide

Setting the control internal clock (Military Time)

Press the **Enter** KEY to set the time. Display will flash, use the up **▲** arrow key (forward) & down **▼** arrow key (reverse). Set hour, press **Enter**. Set minutes, press **Enter**.

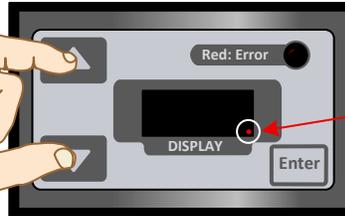
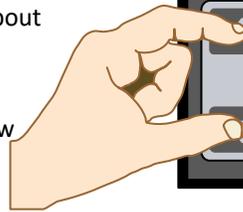


Fast forward, press and hold the up **▲** arrow key. Reverse, press and hold the down **▼** arrow key.

Access Commissioning Mode and Controller Menu

Press the up and down arrows simultaneously for about 10 seconds.

Use the **UP** arrow key to scroll to each mode. Then press **ENTER** to access that mode. Press the **UP** arrow key to move to the next mode

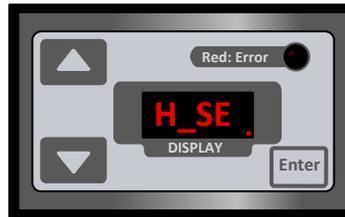


Red LED indicates heat pump is operating. The rest of the screen will be BLANK.

Heat Setting Mode H_SE

This is a factory default setting and should not be changed. The display will flash between "H_SE and nor". Using the **UP** and **DOWN** arrow keys allows the user to toggle between "nor and off".

To advance to the next mode, press the UP arrow key.

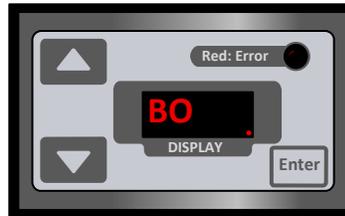


WARNING, OFF prevents the heat pump and freeze protection from operating

ON/OFF Timer Mode – BO – (Blockout) (Military time)

If the BLOCK-OUT (BO) time period is not desired. The mode can be set to 00:00. To accomplish this, press **ENTER**, The screen will alternately flash between **BO** and **0000**. Press **ENTER**, 00 will flash. You can Press **ENTER** to lock in **00**. Press **ENTER**. Press **ENTER** again, the second set of **00**'s will flash. Press **ENTER** to lock in **00**. *If the Owner of Maintenance Staff desires a BLOCK-OUT time, see page 3 for instructions.*

To advance to the next mode, press the UP arrow key.



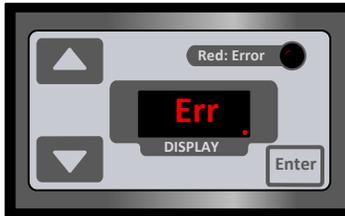
The **BLOCK-OUT (BO) TIME** is beneficial when time-of-use electrical rates are off-peak or for PV Production. This function can be used to allow the heat pump to operate at a certain time of day.

Error Code History Mode - ERR

Press **ENTER** to access mode. Use the **DOWN** arrow key to scroll through the errors.

Chart with Error Code descriptions and explanations are on page 2.

To advance to the next mode, press the UP arrow key.



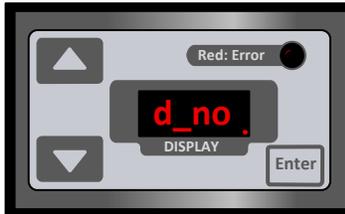
The controller stores up to five error codes. If they occurred in the Error Code History Log, then the display will show the Error Code even if they've been cleared.

Parameters Mode - d_no

Press **ENTER** to access all the parameters. Use the **UP** and **DOWN** arrow keys to access all of the parameters. Press **UP** arrow key to move from **d_no** to **00** upwards to other values.

Chart with data measurement descriptions is on page 2.

To advance to the next mode, press the UP arrow key.



There are twelve different parameter readings. Data can be used to determine operation, performance and troubleshooting.

Air Purge Mode - Air

Standard setting is **OFF**. To purge the heat pump, cold and hot water piping, use the **UP** arrow key to change Air Purge to **ON**.

Heat Pump will operate for 5 minutes. The water will circulate between the Heat Pump and Storage Tank. The Controller will switch back to **OFF** when run time is over.

To advance to the next mode, press the UP arrow key.



The Water Pump is connected to the cold water inlet to the Heat Pump.

