

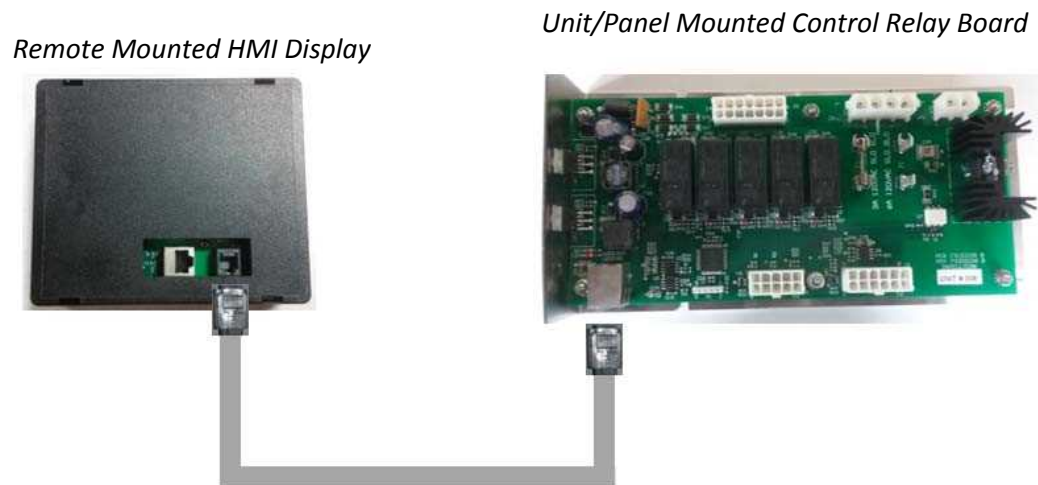
SimpleLink Controller IOM and Startup Manual

Startup Sequence

Step 1: Connect main power including ground to the main control panel

Step 2: Connect normally-open door switches to the SW -SW terminal strips in the main control panel

Step 3: Connect HMI display to Control Relay Board using the RJ45 cable provided by Marsair



Note: Use screws to mount the HMI display back cover to the wall. HMI display module will clip onto back cover.

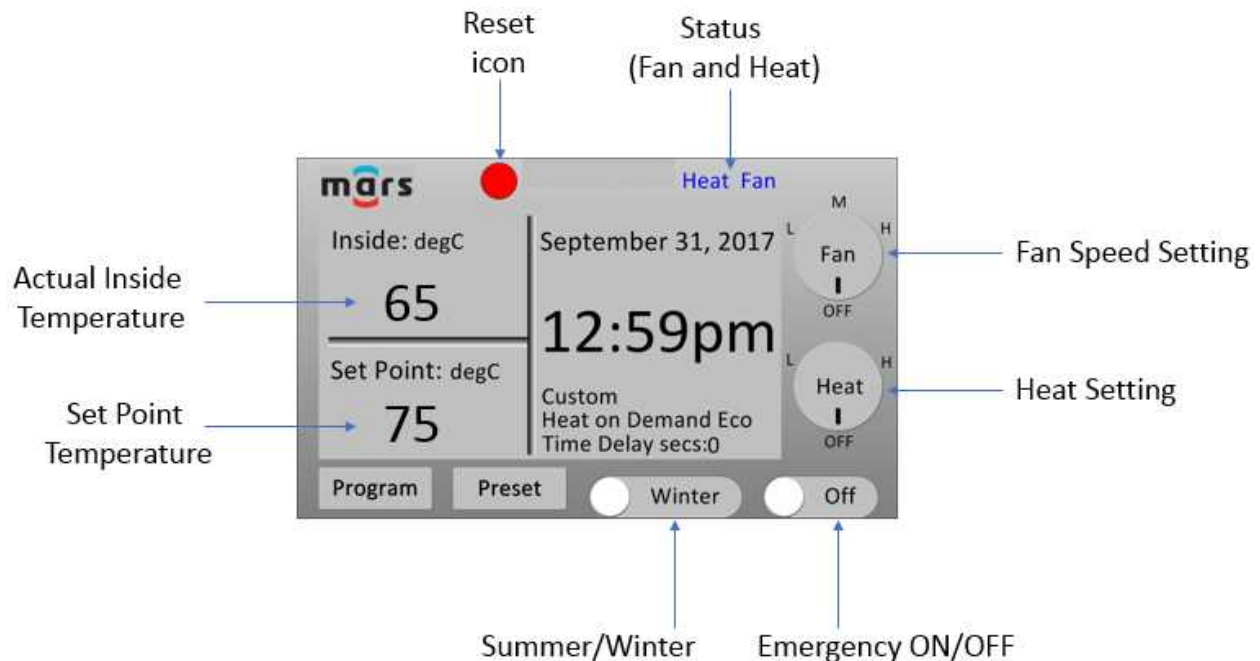
Step 4: Turn main power ON and calibrate HMI screen



User Manual, Heated Air Curtain

Note: The screen will lockout every 15 seconds of non-use.
Default password to unlock the screen is “0000”

Main Menu



Emergency ON/OFF

This will toggle between ON-OFF. In OFF position, the air curtain will always be OFF. In ON position, the air curtain will operate in the selected preset mode.

Summer/Winter Selector Switch

In Winter position, the internal thermostat will cycle the heat. In Summer position, controller will permit fan operation only.

Fan Speed

Fan speed dial adjusts fan speed. Number of fan speed increments depend on the type of air curtain and accessories. Lowest fan speed is factory set for appropriate heat dissipation.

Heat Setting

Heat speed dial adjusts heat output. Hi-Lo heat setting is standard on most electric heated air curtains.

Status

For heated units, the blue Fan icon will come ON when the fan is ON and both Heat and Fan icons will come ON when both heat and fan are ON.

Actual Inside Temperature

Built in temperature sensor measures and displays intake air temperature. The units can be changed between °C to °F by touching “degC” or “degF” on the screen.

Set Point Temperature

User set point temperature decides to turn the heat ON if set point temperature is below the actual inside temperature. Touch the screen at set point temperature to set desired value. Desired value can also be set from the “Program” menu.

Reset icon

The red reset icon reminds the user for periodic air curtain service such as cleaning or changing filters or to clean any dust build up in side the air curtain housing using a damp cloth.

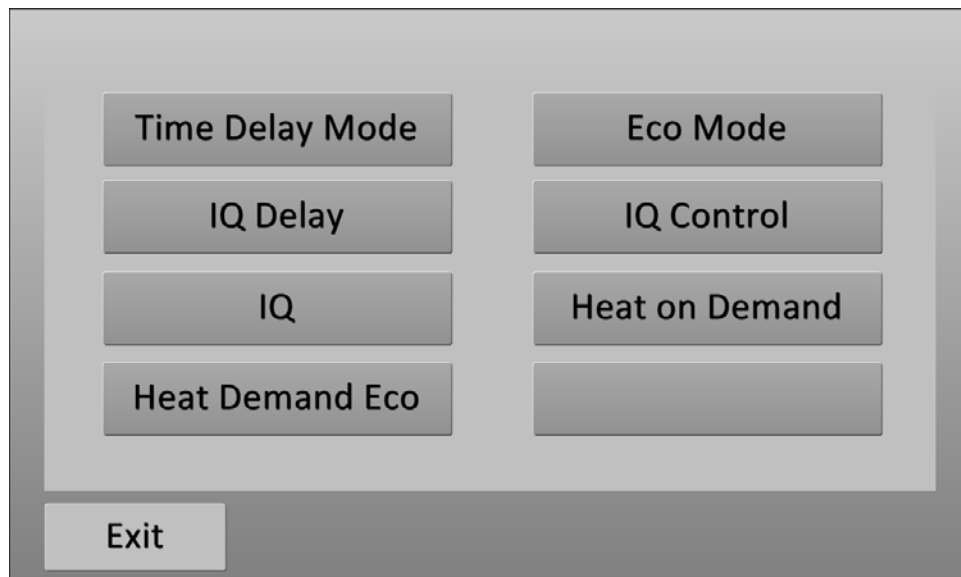
The red reset icon will come ON during startup which should be reset.

The red reset icon will also come ON after 6 months of operation (or) 840 hours of cumulative operation, whichever comes first.

To reset or remove the red reset icon –

1. Go to program menu
2. Go to service button
3. Click clean button

Preset Modes



Time Delay Mode

This will be the default mode that should be selected.
The default time delay is 5 seconds.

The time delay can be changed by –

1. Going to program menu
2. Push Time Delay button
3. Set desired time delay
4. Hit save

Eco Mode

In this mode, the fan speed will automatically be set at medium speed and for heated units, heat will be set to low heat. This mode is to reduce energy consumption due to air curtain operation.

The fan speed can be changed from the main menu by pushing the fan speed dial.

IQ Delay

In this mode, the time delay will automatically set based on the ON-OFF cycles.

Note: The fan speed will be frozen to what the setting was prior to selecting this IQ delay mode.

IQ Control

Optional mode: In this mode, both the fan speed and Heat output will automatically set based on inside and outside temperature.

Note: Unlike IQ delay, the time delay can be manually set in this mode

IQ

Optional mode: This is combination of **IQ Delay** and **IQ Control** mode. The fan speed, heat output and time delay will be set automatically.

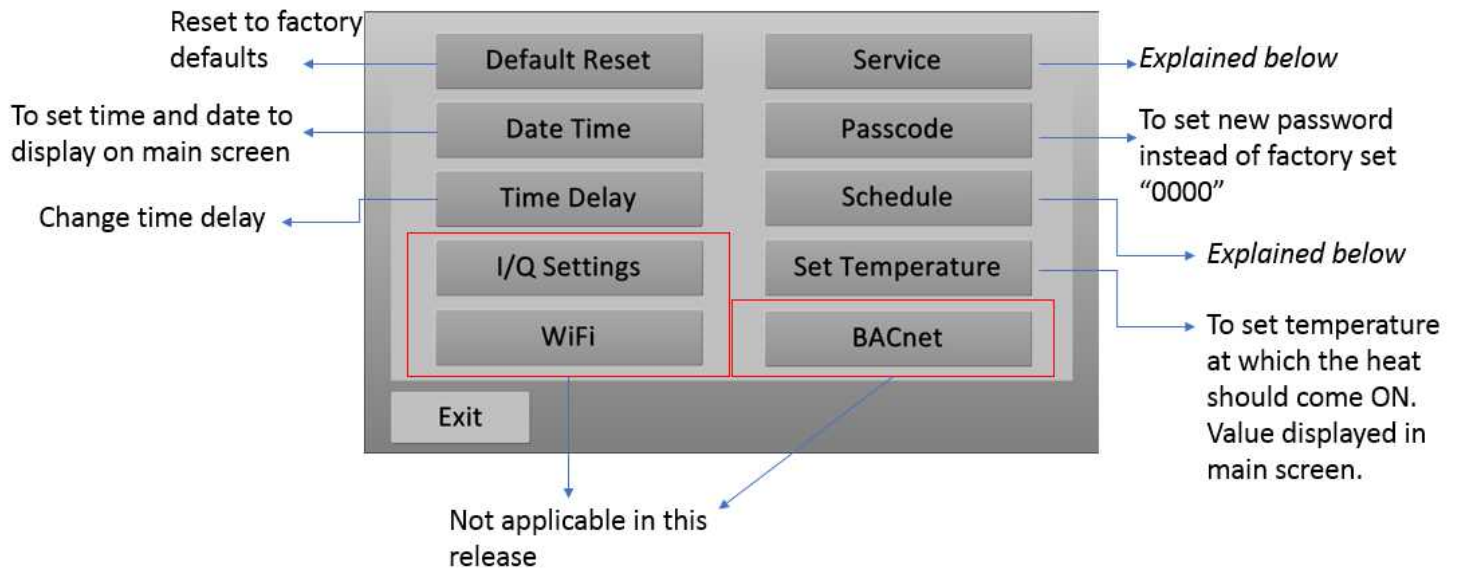
Heat On Demand

In addition to providing thermal separation, heated air curtain behaves like a space heater in this mode. When the doors are closed and if the space temperature gets below the set point temperature, both fan and heat turns ON.

Heat On Demand Eco

Same as above but when the air curtain is acting as a space heater, the fan speed and heat will be in low setting to reduce power consumption and to minimize sound.

Program Menu



Note: most of the buttons in program screen are self-explanatory. Here are few of the screens that might need additional explanation.

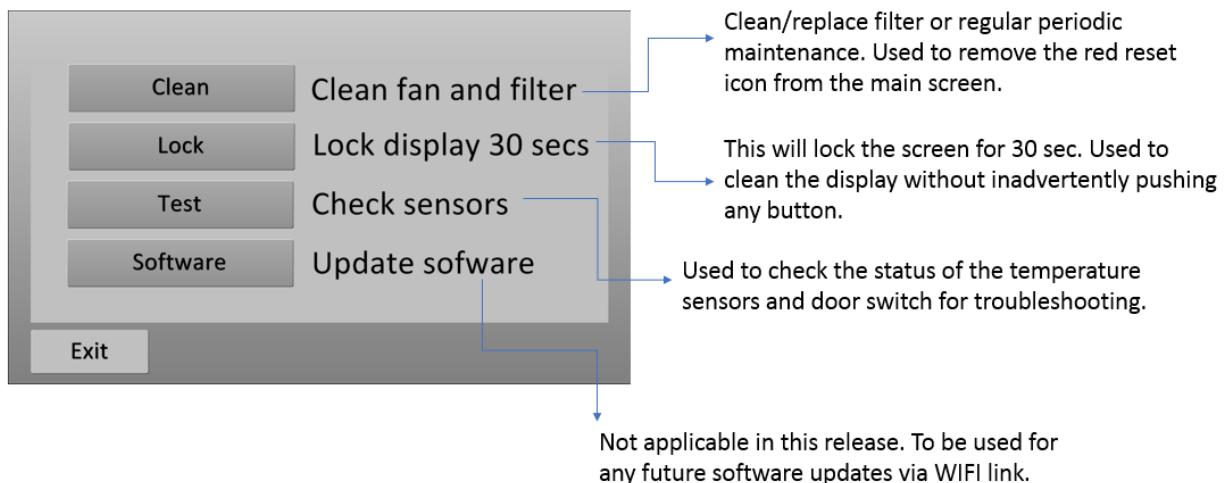
Schedule

Used to schedule the air curtain operation for the entire week

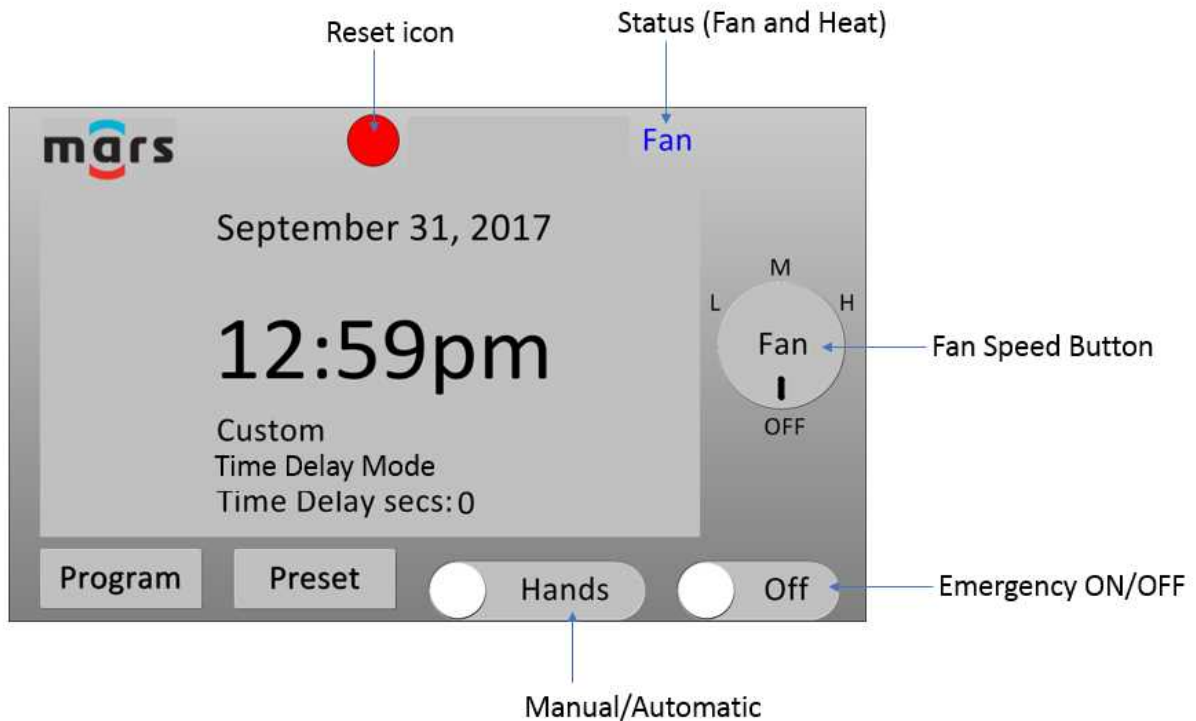
The 'Schedule' screen displays a weekly schedule with the following details:

- Days: Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday (all checked)
- Start Time: 12:12 pm
- Stop Time: 12:12 pm
- Navigation buttons: Up, Ok, Dn
- Bottom buttons: Save, Discard

Service



Main Screen



Note: The screen will lockout in about 15 seconds of non-use. The password to unlock the screen is "0000"

Emergency ON/OFF

This will toggle between ON-OFF. In OFF position, the air curtain will always be OFF. In ON position, the air curtain will operate in the selected preset mode.

Manual/Automatic

Similar to our current unheated panel, in Manual or Hands mode, the fan will be always ON. In Auto Mode, the air curtain will be ON only when the doors are open.

Fan Speed

For the QP unit, there will be 9 speed increments since this drives the VFD. For all other units, this will be 3 speed increments since it directly drives the 3-speed motor.

Status

For unheated units, the blue Fan icon will come ON when the fan turns ON and the icon will disappear when the fan is turned OFF. Similarly, for heated units, the blue fan and heat status icons will come ON depending on the fan and heat status.

Reset icon

The red reset icon reminds the user for periodic air curtain service such as cleaning or changing filters or to clean any dust build up in side the air curtain housing using a damp cloth.

The red reset icon will come ON during startup which should be reset.

The red reset icon will also come ON after 6 months of operation (or) 840 hours of cumulative operation, whichever comes first.

To reset or remove the red reset icon –

4. Go to program menu
5. Go to service button
6. Click clean button