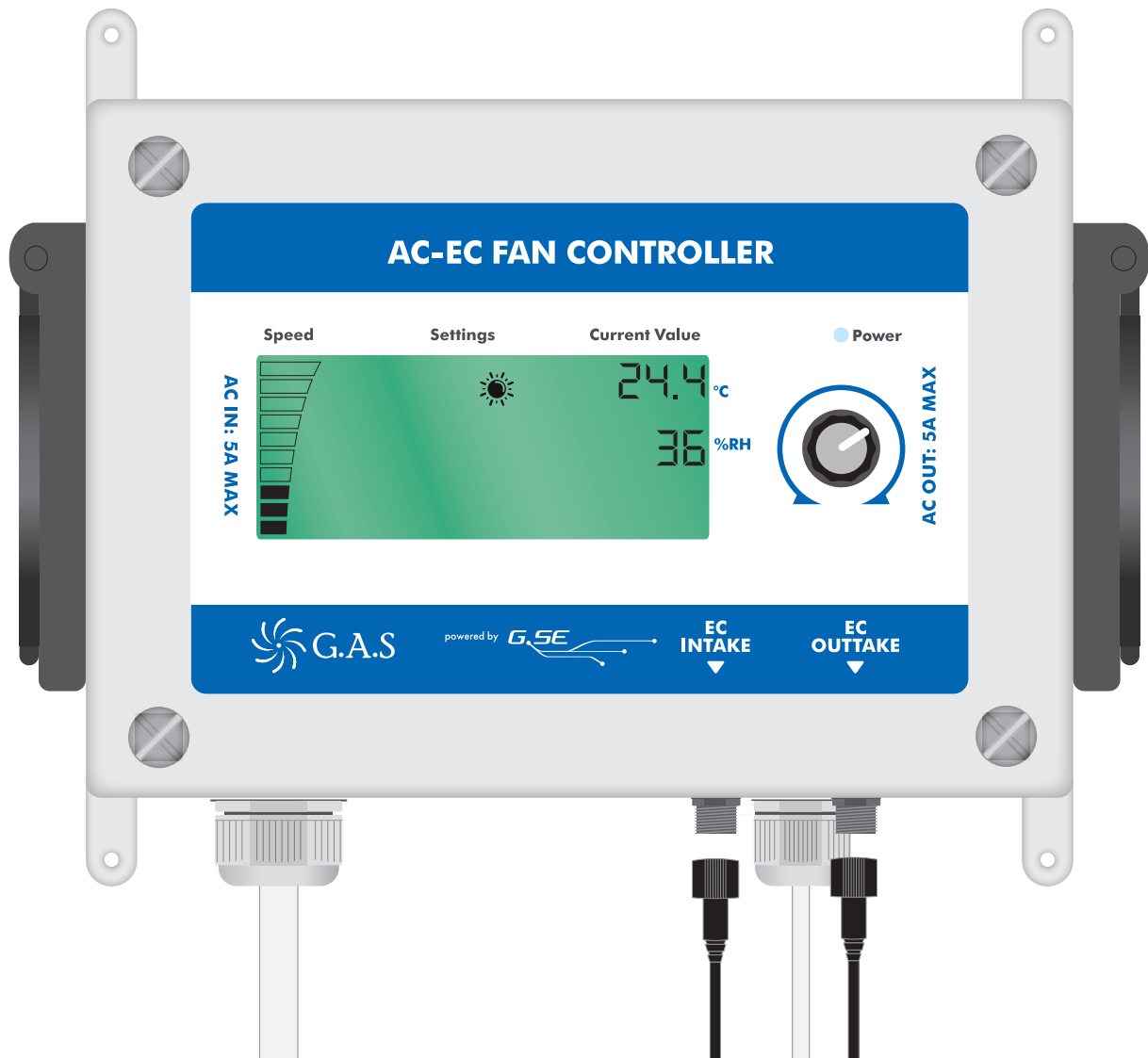
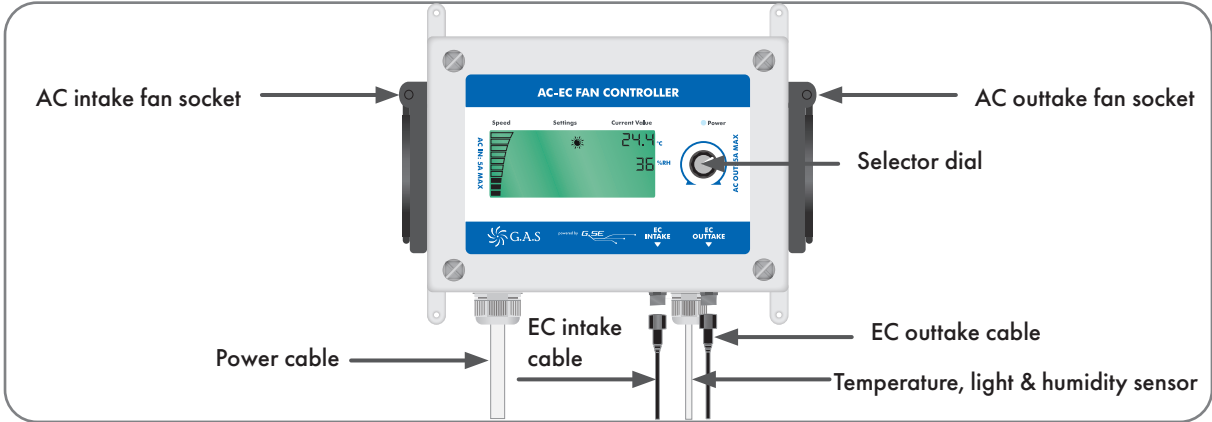


GLOBAL AIR SUPPLIES UK  
**AC-EC DIGITAL  
FAN CONTROLLER**

**INSTRUCTIONS**



# AC EC FAN CONTROLLER



## UNDERSTANDING THE ROTARY SELECTOR DIAL SETTINGS

The AC-EC controller has 15 settings.

You can select the settings by turning the dial and pressing once, when the desired setting screen is reached.

All settings can be changed by turning the dial and when you have finished press the dial again to store the value.

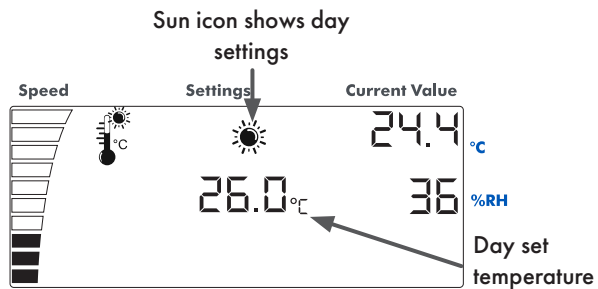
### STEP 1 SET DAY TEMPERATURE

To change press the dial once.

The day temperature icon will appear: ☀️

To change press the dial once, turn the dial until the desired temperature is displayed.

Press the dial again to save.



### STEP 2 SET DAY TEMPERATURE BANDWIDTH

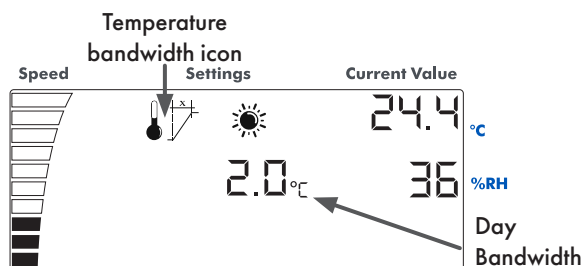
From the day temperature screen turn the dial clockwise once.

The temperature bandwidth icon will appear: 🌡️

This value sets the number of °C from minimum to maximum fan speed. If the temperature is set to 26°C and the bandwidth is set at 2°C, then the fans will increase their speed from minimum speed at 26°C to maximum speed at 28°C.

To change press the dial once, turn the dial until the desired bandwidth is displayed.

Press the dial again to save.



### STEP 3

#### SET DAY MAXIMUM HUMIDITY

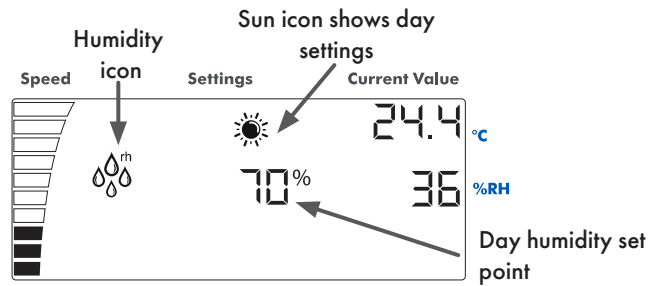
From the day temperature bandwidth screen turn the dial clockwise once.

The humidity icon will appear: 

This value sets the maximum humidity you want to reach in your grow room before the fan speed increases to remove humidity past this set point.

To change press the dial once, turn the dial until the desired maximum humidity is displayed.

Press the dial again to save.



### STEP 4

#### SET DAY HUMIDITY BANDWIDTH

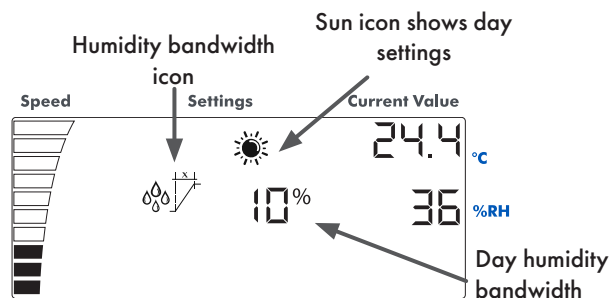
From the day maximum humidity screen turn the dial clockwise once.

The humidity bandwidth icon will appear: 

This value sets the % humidity from minimum to maximum fan speed. If the maximum humidity is set at 60% and the bandwidth is set to 10%. Then the fans will increase from minimum speed at 60%, to maximum speed at 70%

To change press the dial once, turn the dial until the desired maximum humidity bandwidth is displayed.


Press the dial again to save.



### STEP 5

#### SET DAY MINIMUM FAN SPEED

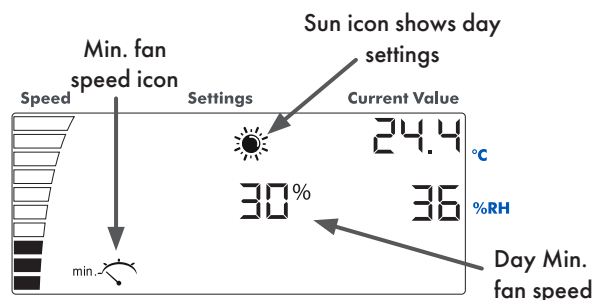
From the day humidity bandwidth screen turn the dial clockwise once.

The minimum fan speed icon will appear. 

You can select the minimum day speed you want your exhaust fan to run at. Once set, the fans will not operate below this set point.

To change press the dial once, turn the dial until the desired minimum fan speed is displayed.

Press the dial again to save.



### STEP 6

#### SET DAY MAXIMUM FAN SPEED

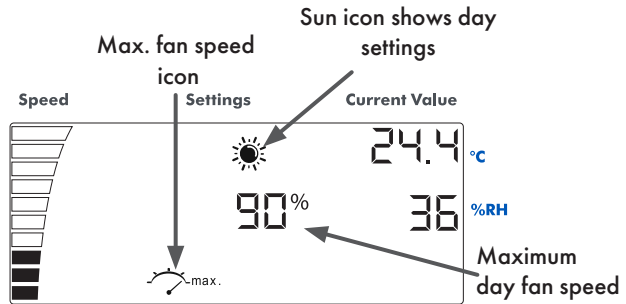
From the day minimum fan speed screen turn the dial clockwise once.

The maximum fan speed icon will appear. 

You can select the maximum speed you want your exhaust fan to run at. Once set, the fans will not operate above this set point.

To change press the dial once, turn the dial until the desired maximum fan speed is displayed.

Press the dial again to save.



### STEP 7

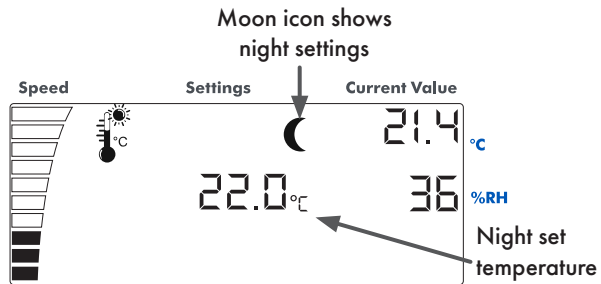
#### SET NIGHT TEMPERATURE

From the day maximum fan speed screen turn the dial clockwise once.

The night temperature can be changed when the moon icon appears. 

To change press the dial once, turn the dial until the desired night temperature is displayed.

Press the dial again to save.



### STEP 8

#### SET NIGHT TEMPERATURE BANDWIDTH

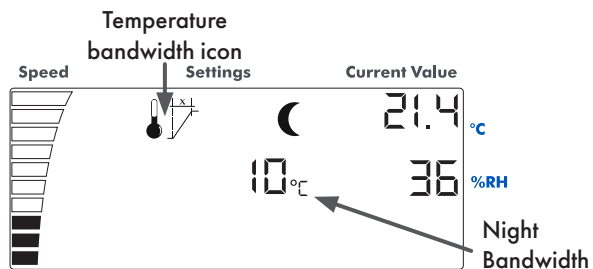
From the night temperature screen, turn the dial clockwise once.

The temperature bandwidth icon will appear: 

This value sets the number of °C from minimum to maximum fan speed. If the temperature is set to 22 °C and the bandwidth is set at 2 °C, then the fans will increase their speed from minimum speed at 22 °C to maximum speed at 24 °C.

To change press the dial once, turn the dial until the desired bandwidth is displayed.


Press the dial again to save.



### STEP 9

#### SET NIGHT MAXIMUM HUMIDITY

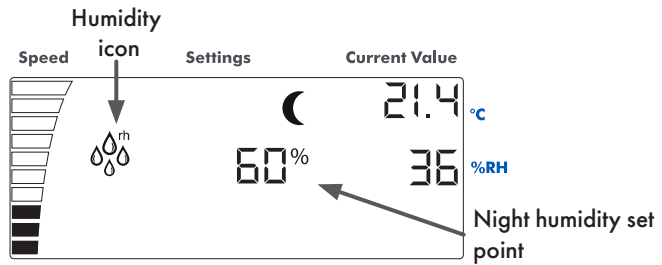
From the night temperature bandwidth screen turn the dial clockwise once.

The humidity icon will appear: 

This value sets the maximum humidity you want to reach in your grow room before the fan speed increases to remove humidity past this set point.

To change press the dial once, turn the dial until the desired maximum humidity is displayed.

Press the dial again to save.



### STEP 10

#### SET NIGHT HUMIDITY BANDWIDTH

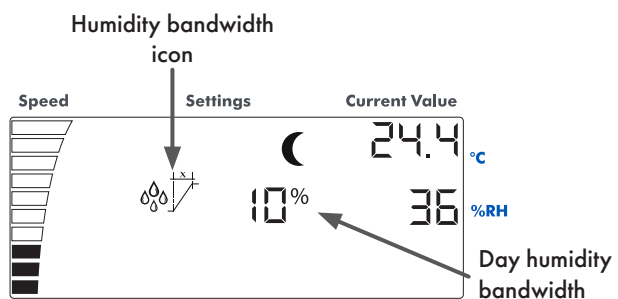
From the night maximum humidity screen turn the dial clockwise once.

The humidity bandwidth icon will appear: 

This value sets the % humidity from minimum to maximum fan speed. If the maximum humidity is set at 60% and the bandwidth is set to 10% then the fans will increase from minimum speed at 60%, to maximum speed at 70%.

To change press the dial once, turn the dial until the desired minimum fan speed is displayed.

Press the dial again to save.



### STEP 11

#### SET NIGHT MINIMUM FAN SPEED

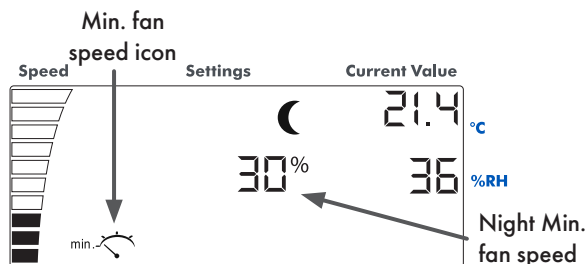
From the night humidity bandwidth screen turn the dial clockwise once.

The minimum fan speed icon will appear: 

You can select the minimum speed you want your exhaust fan to run at. Once set, the fans will not operate below this set point.

To change press the dial once, turn the dial until the desired minimum fan speed is displayed.

Press the dial again to save.



### STEP 12

#### SET NIGHT MAXIMUM FAN SPEED

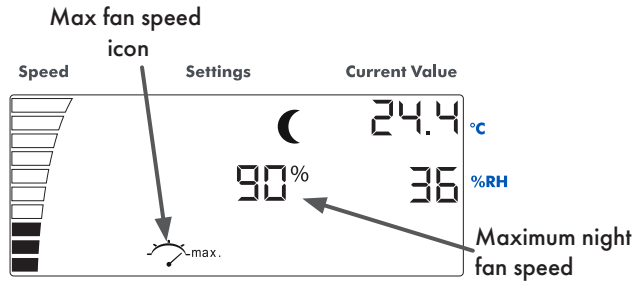
From the night minimum fan speed screen turn the dial clockwise once.

The maximum fan speed icon will appear: .

You can select the maximum speed you want your exhaust fan to run at. Once set, the fans will not operate above this set point.

To change press the dial once, turn the dial until the desired maximum fan speed is displayed.

Press the dial again to save.



### STEP 13

#### SET NEGATIVE PRESSURE

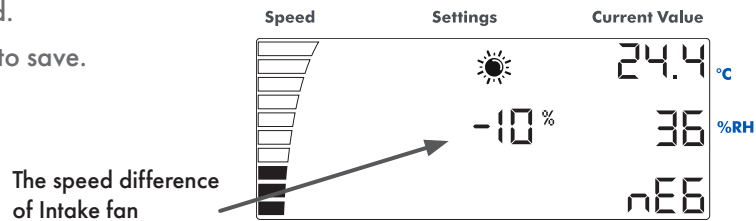
From the night maximum fan speed screen turn the dial clockwise once.

The negative pressure icon will appear: .

Once day and night settings have been set, you can set the negative pressure, this is the % speed the intake fan runs below the outtake fan.

To change press the dial once, turn the dial until the desired negative pressure is displayed.

Press the dial again to save.



### STEP 14

#### SET LIGHT SENSOR

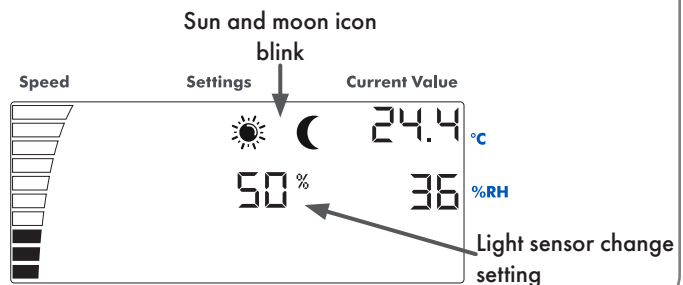
From the negative pressure screen turn the dial clockwise once.

The sun and moon icon will blink.  

You can change the sensitivity of the light sensor. This may be required if you have a sunrise/sunset feature on your lights. The lower the set value the less light is required to switch between day and night settings.

To change press the dial once, turn the dial until the desired light sensitivity is displayed.

Press the dial again to save.



## STEP 15

### SET SWITCH OVER TIME

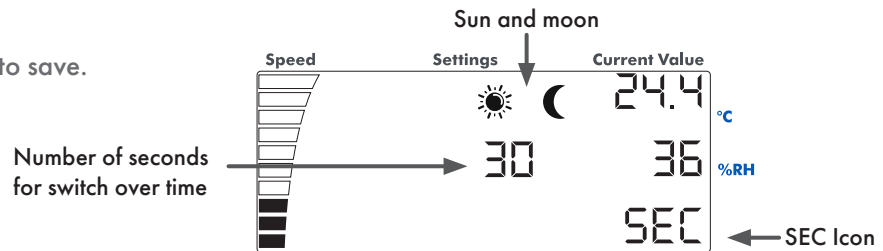
From the light sensor screen turn the dial clockwise once.

The SEC icon will appear. SEC

You can change the amount of time in seconds it takes to switch from day to night settings.













To change press the dial once, turn the dial until the desired switch over time is displayed.

Press the dial again to save.



## SCREEN ICONS

This is intended to be a quick overview of the icons on the screen and what they mean.

- |                          |   |   |  |
|--------------------------|---|---|--|
| 1. Day                   |  | 7. Max fan speed                        |   |
| 2. Temperature           |  | 8. Night                                |   |
| 3. Temperature bandwidth |  | 9. Negative pressure                    |   |
| 4. Relative humidity     |  | 10. Light sensor sensitivity (blinking) |   |
| 5. Humidity bandwidth    |  | 11. Switch over time                    |   |
| 6. Min fan speed         |  | 12. Fan speed indicator                 |  |