FläktWoods

AIR COMFORT

AIR TREATMENT

CONTROL EQUIPMENT

LCD CONTROL PANEL CURO® TOUCH FOR ECOSTAR

» TECHNICAL INSTRUCTION FOR VERSION 2.02

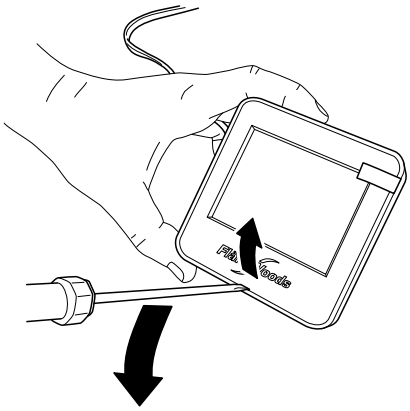
APRIL 2015

CONTENTS

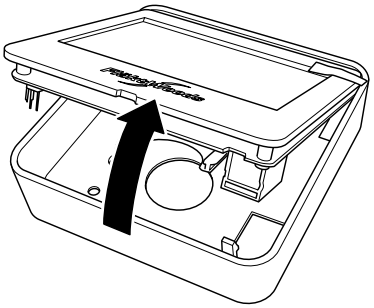
WARNING: This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

NOTE: THE INSTALLATION, ADJUSTMENT AND COMMISSIONING DESCRIBED WITHIN THIS MANUAL MUST BE CARRIED OUT BY THE INSTALLER, OR SERVICE PERSONNEL.

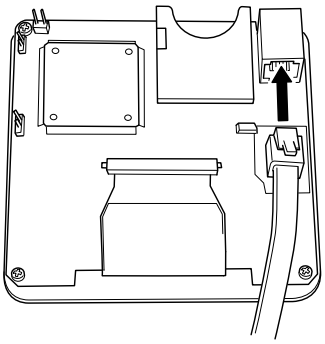
INSTALLATION & CONNECTION OF LCD CONTROL PANEL CURO® TOUCH



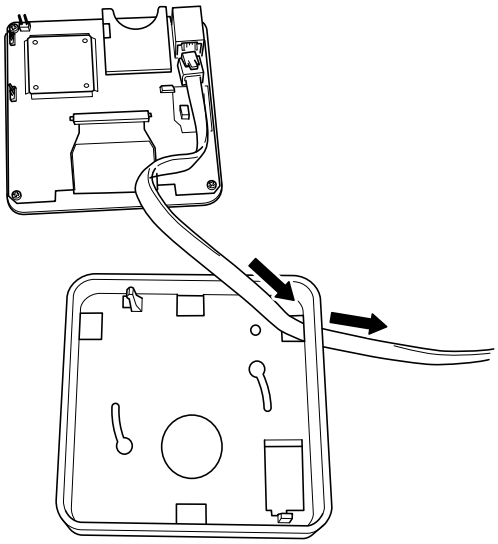
1. Open the control panel using a screwdriver



2. Lift the display out of the enclosure.



3. Connect the cable to the back of the display as shown above.
   Note. Please do not touch the electronics.



4. Push the connection cable through a suitable hole and if needed make an outlet for the cable on side of the cover. Mount the enclosure directly on the wall.
5. Push back the display in the enclosure.

INTRODUCTION, CONVENTIONS & USING THE UNIT

INTRODUCTION

HMI

This section provides an introduction to the touchscreen LCD control panel, also known as the 'Human Machine Interface', or simply, HMI.

The HMI serves two main purposes: To provide information about the current operational state of the unit. To allow the unit to be setup and configured.

TOUCH SCREEN TIPS

To select an item, touch the center of the icon or option. Do not press too hard, the touch screen is sensitive enough to pick up light, firm touches. Use the tip of your finger or the back of a pencil to touch the required option. Be careful not to touch any other options.

CLEANING THE SCREEN

Disconnect the power cord. Gently wipe the screen with a soft, dry non-abrasive cloth. If the marks remain, moisten the cloth slightly with a detergent that is designed for LCD or mobile screens and wipe the screen gently from top to bottom. Never use detergents, as these may contain ammonia or other additives.

IMPORTANT:

- Never spray, or pour liquids directly on to the screen.
- Do not clean the screen while the system is on.

CONVENTIONS USED WITHIN THIS MANUAL

The following buttons and symbols are universal and available on many menu pages.

Home key, to return to the Home Screen.

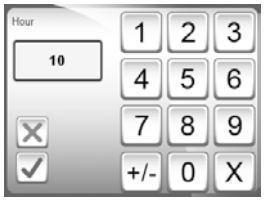
Back button, to cancel and return to the previous page.

Confirm button to confirm and proceed.

Changing a value:

Option 1: Press the arrow keys to increase or decrease the value.

Option 2: Press the displayed number to numerically adjust the value.



Use the number buttons to enter a value.

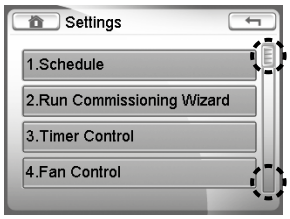
Confirm with ✓ or cancel with ✕.

850

Values that can only be read, but not written, are displayed without a surrounding window.

1000

Values that can be both read and written, are displayed with a surrounding window.



Some submenus has several pages. Touch the upper or the lower part of the scroll list to navigate between pages.

USING THE UNIT

POWERING ON

Each time power is applied, the unit will run through a series of internal system tests which take approximately 20 seconds to complete.

Once the internal system tests have been completed, the HMI will always display the Home screen. The unit will be in Manual Mode the first time that power is applied.

HOME SCREEN

The unit always powers up in the Home screen. From the Home screen it is possible to determine how the unit is operating as well as navigating to further screens to configure the unit to suit the demands of the end system.

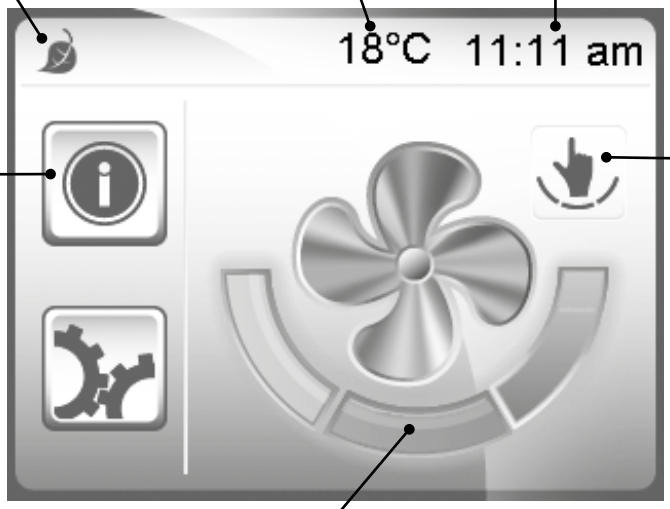
From the Home Screen, it is possible to:
Navigate to further configuration screens to setup system parameters.

- Manually adjust the fan speed.
- Determine the operating status of the product.
- Interrogate and acknowledge system alarms.

HOME SCREEN OVERVIEW

STATUS LINE

- Heat recovery active
- Post-heater active
- Pre-heater active
- Cooling active
- Defrosting in progress



CURRENT SET POINT TEMPERATURE

CLOCK

ALARM

- No alarm
- Alarm B
- Alarm A

OPERATING STATUS

- Manual mode
- CO_2 regulation
- Automatic mode
- COP Constant pressure
- T1 Timer 1
- T2 Timer 2
- T1/T2 Timer 1/Timer 2

OPERATING MODES

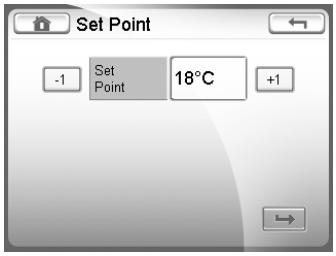
Trickle or low speed

Normal or medium speed

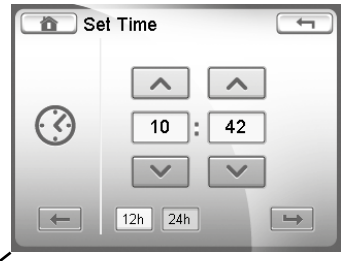
Boost or high speed

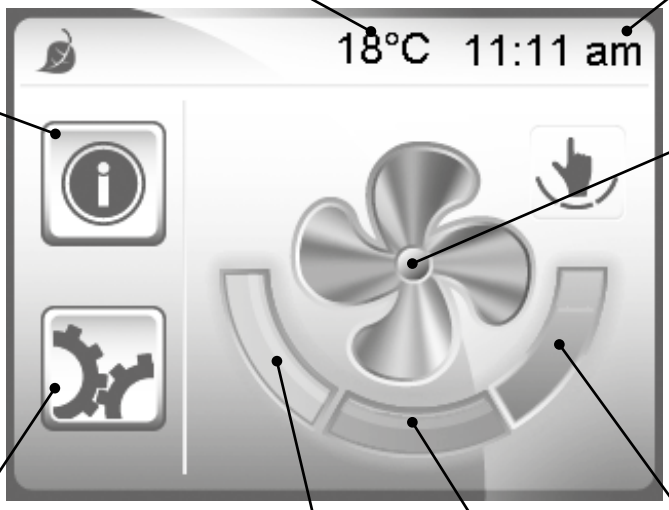
BASIC OPERATION OVERVIEW

SHORTCUT TO SET THE TEMPERATURE SET POINT



SHORTCUT TO SET THE TIME AND DATE





ALARM

See page 8.

SELECT OPERATING MODE

See page 8.

USER SETTINGS

See page 8.

TRICKLE OR LOW SPEED

NORMAL OR MEDIUM SPEED

BOOST OR HIGH SPEED

Press each field to select the operating mode.
Only active in Manual Mode.

OPERATING MODES, ALARMS & USER SETTINGS

OPERATING MODES

The operating status icon present on the Home Screen displays the current operating mode. To change the operating mode, press the large fan icon located on the Home Screen.

The unit has three operating modes selectable through the Operating Modes screen:

Stop Mode: In this mode, the unit will stop both the supply and the extract fans.

Manual Mode: In this mode, the unit can be manually adjusted on the Home Screen to run at three different speeds.

Automatic Mode: In this mode, the unit will be automatically controlled using internal schedules and timers, CO_2 demand control, PIR sensors, etc.

ALARM SCREEN

The alarm icon on the Home Screen indicates the status of any system alarms:

No alarm	
Alarm B	Alarm type B are deemed non-critical and do not stop the unit ventilation.
Alarm A	Alarm type A are deemed critical and will cause the unit to stop ventilating.

Press the icon to enter the Alarm Screen.

Example 1: No alarm

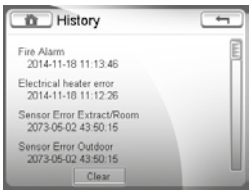
Example 2: Active alarms

CLEARING ALARMS

To clear an individual alarm, press the Ack button. To clear all the Alarms press the Ack All button on top of the screen.

It may not always be possible to clear the status of an alarm as the source of the alarm may immediately trigger the status to return. For example, it will not be possible to clear a faulty temperature sensor alarm until the sensor itself has been repaired or replaced.

ALARM HISTORY



USER SETTINGS

TEMPERATURE STATUS

The temperature set point is used to determine when the post-heater (if fitted) starts to warm the supply air entering the property. The temperature set point can be adjusted to any temperature between 15° C and 35° C, factory setting is 18° C.

Temperatures and output signals are read only values.

FAN STATUS

From the Fan Control Status screen it will be possible to view parameters such as supply and extract fan speeds, %, off and pressures.

AIR QUALITY

CO_2 value and CO_2 set point (if activated).

SYSTEM OVERVIEW

Version Control Panel	IP Octet 1
Bootloader Control Panel	IP Octet 2
Version Control Card	IP Octet 3
Bootloader Control Card	IP Octet 4
Unit type	

SCHEDULES

Read only. For more information see section "Schedules" on page 21.

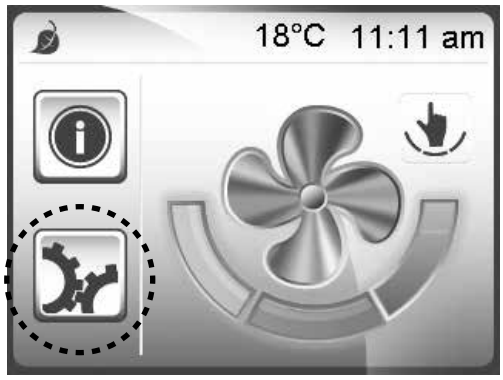
ADVANCED SETTINGS

See section "Advanced settings" on page 10.

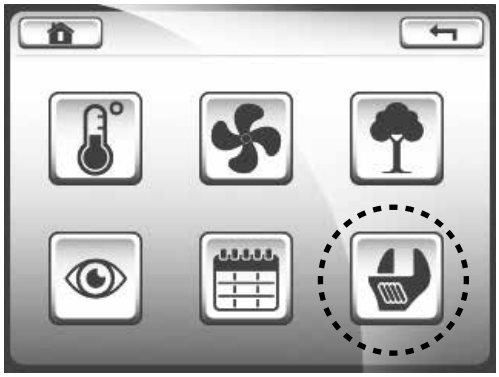
CONFIGURING LANGUAGE, DATE & TIME

SETTINGS

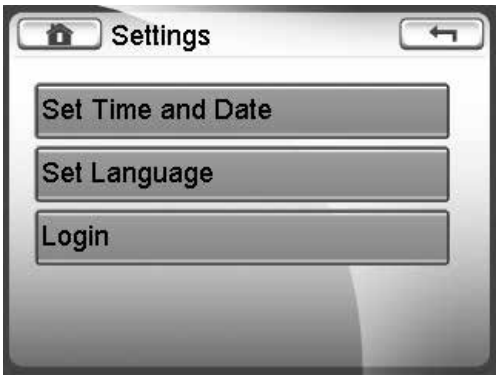
To enter the settings menu:



1. Push on the gear cog button.

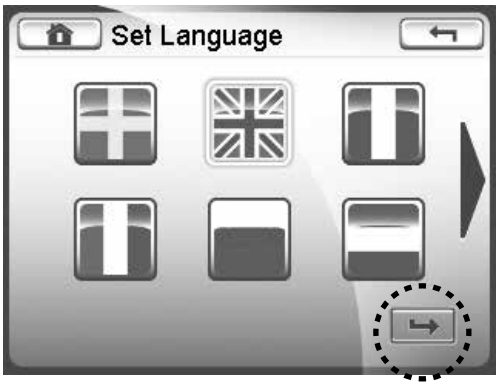


2. Push the spanner button.



3. In this menu you set the date, time and language. It is also possible for installers and service personnel to log in and access additional parameters.

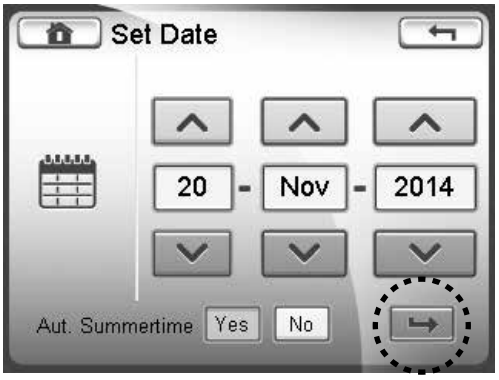
CHOOSE LANGUAGE



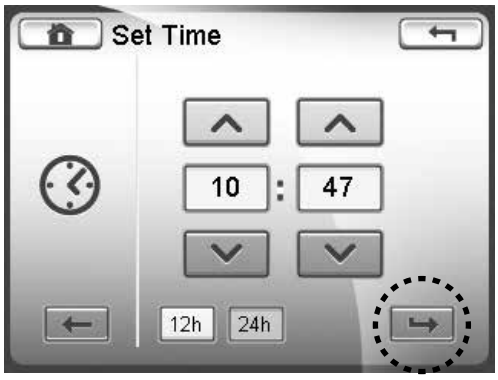
1. Choose the appropriate language flag and press the Confirm button.

Note, further language flags are available after pressing the right arrow icon.

DATE/TIME



1. Set the date and press the Confirm button.



2 Set the time and press the Confirm button

ADVANCED SETTINGS

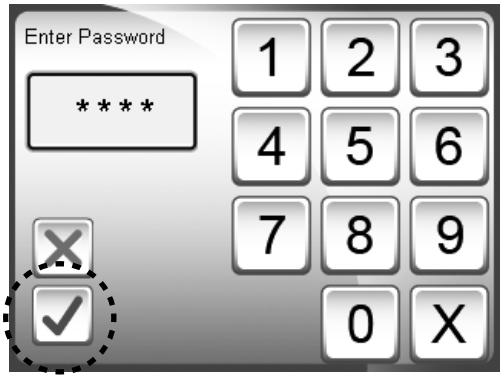
This section provides an overview to the more advanced operations that are available from the Home Screen via the passcode protected Advanced Settings option.

Numerous system parameters can be adjusted through the Settings Screen; however, only those that are relevant and appropriate to the scope of the HMI User Manual will be described. It is strongly recommended to avoid the adjustment of any system parameters not outline within this section.

Access to the Settings Screen is passcode protected to prevent system critical parameters from being accidentally adjusted to values that could compromise the correct operation of the unit. Therefore, extreme caution should be observed when adjusting Advanced Settings parameters.

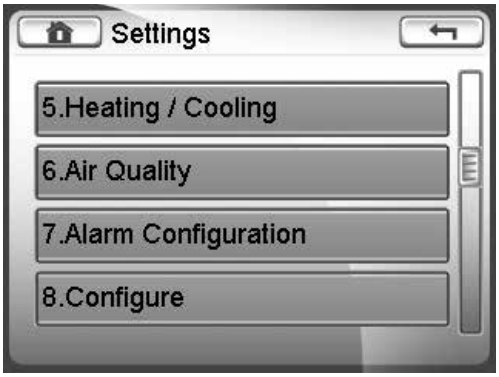
LOGIN

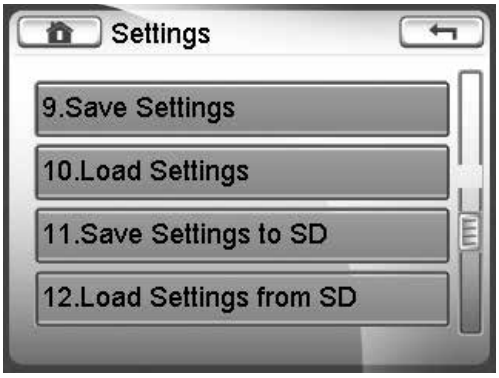
Advanced settings requires the Login passcode, **0000**, to be entered.

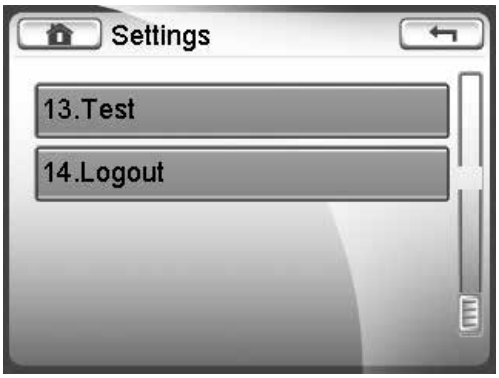


1. Enter the correct passcode and press the Confirm button.

SETTINGS FOR INSTALLER AND SERVICE PERSONNEL



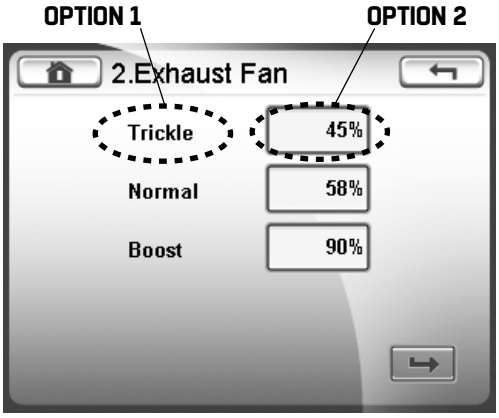




COMMISSIONING WIZARD

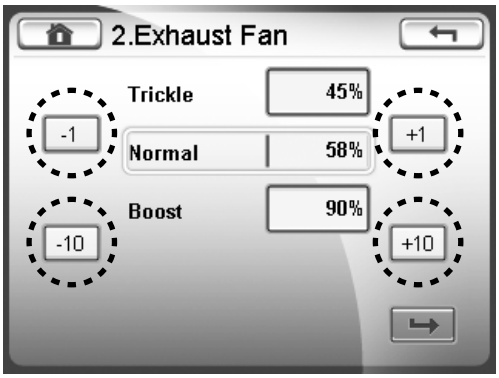
The Commissioning Wizard allows the basic unit settings to be configured in a simple and intuitive manner.

The Commissioning Wizard is accessed by selection the "Run Commissioning Wizard" option from the advanced settings screen. The speeds for each operation mode can be changed in two ways:

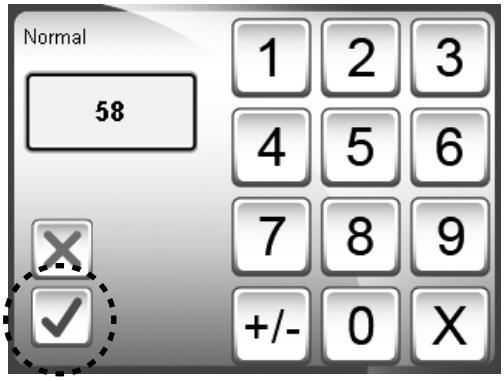


OPTION 1 - Press Trickle, Normal, Boost, then use the ±1 or ±10 buttons.

OPTION 2 - Press the values within the boxes adjacent to Trickle, Normal, or Boost, then use the numerical keypad.

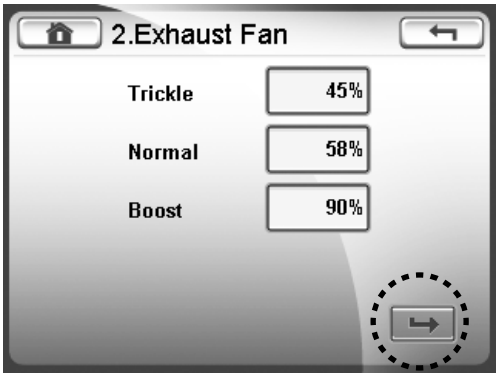


OPTION 1

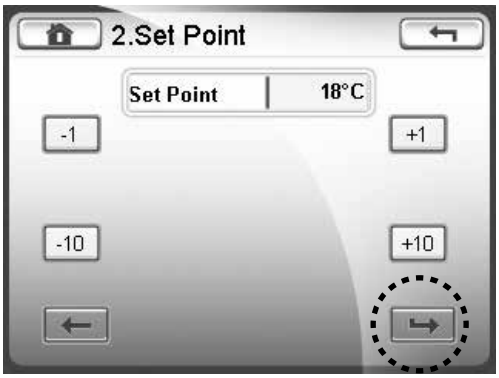


OPTION 2

When completed, press the Confirm button to proceed to the supply fan.



Make the appropriate settings for the supply fan and press the Confirm button.



Adjust the supply air temperature set point in ° C and press the Confirm button to complete the Commissioning Wizard.

Note, whilst in the Commissiong Wizard, the Back button can be pressed at any time to access the previous page of settings.

SCHEDULES

SCHEDULES

Using schedules, it is possible to fully automate the unit to provide specific levels of ventilation at specific times of the day, week or year and to activate the post-heater at a given temperature set point.

To activate schedules, the unit has to be in Automatic mode. Each schedule also needs to be activated by pressing the grey tick button.

WEEKLY (1-8)

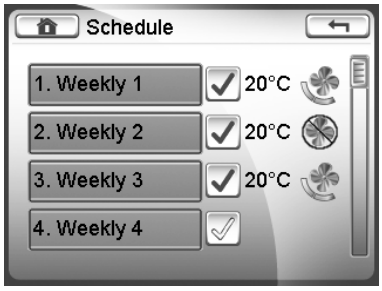
Pressing this option selects the Weekly Schedule adjustment screen to create a timed schedule to run daily in a week.

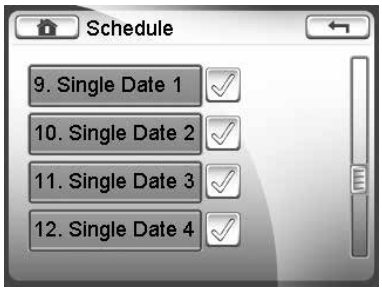
SINGLE DATE (1-4)

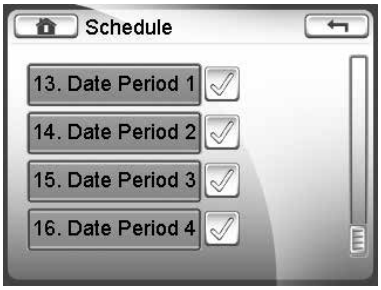
Pressing this option selects the Single Date Schedule adjustment screen to create a timed schedule to run for 24 hours on any single date.

DATE PERIOD (1-4)

Pressing this option selects the Date Period Schedule adjustment screen to create a timed schedule to run from any date to any other date.







WEEKLY SCHEDULE

A weekly schedule is defined as a schedule that automatically runs from a given time to a given time on specified days.

During a weekly schedule, the fans can be set to run at any of the available speeds: Stop, trickle, normal or Boost.

The eight individual weekly schedules are prioritized to remove the potential for time periods to clash with each other. Weekly 8 Schedule has the highest priority and Weekly 1 Schedule the lowest priority. If two or more weekly schedules have start and end times that clash with each other, only the schedule with the highest priority will be used, the other(s) will be ignored.

The supply and extract fans will run at the same speed when set-up through a weekly schedule.

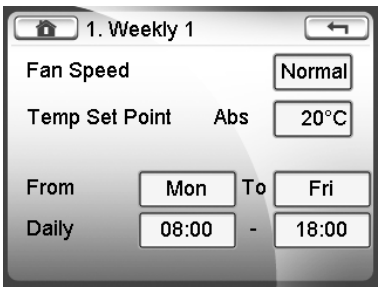
Remember to activate the desired schedules by pressing

EXAMPLE 1 - WEEKLY SCHEDULE

Below is an example of a weekly schedule configured to run the fans at normal speed from 08:00 to 18:00 Monday to Friday. At all other times, the fans are turned off.

If a post heater has been fitted, this will maintain the supply air temperature at 20°C.

Day	Time	Fan Speed	Temp Setpoint
Monday	8-18	Normal	20 °C
Tuesday	8-18	Normal	20 °C
Wednesday	8-18	Normal	20 °C
Thursday	8-18	Normal	20 °C
Friday	8-18	Normal	20 °C
Other time		Stop	



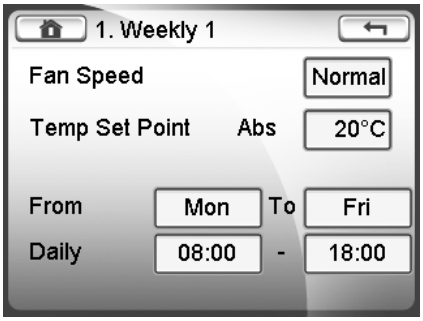
SCHEDULES (CONT)

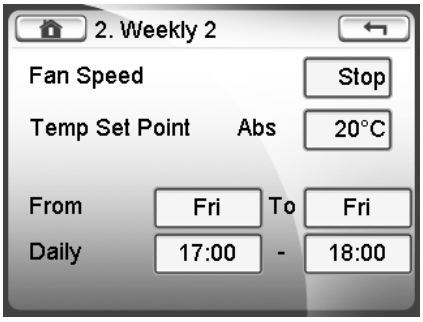
EXAMPLE 2 - WEEKLY SCHEDULE

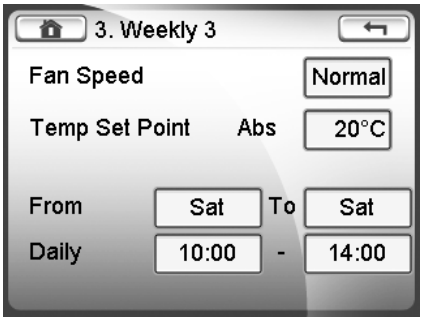
Below is an example of a weekly schedule configured to run the fans at normal speed from 08:00 to 18:00 Monday to Thursday, from 08:00 to 17:00 on Friday and 10:00 to 14:00 on Saturday. At all other times, the fans are turned off.

If a post heater has been fitted, this will maintain the supply air temperature at 20°C.

Day	Time	Fan Speed	Temp Setpoint
Monday	8-18	Normal	20 °C
Tuesday	8-18	Normal	20 °C
Wednesday	8-18	Normal	20 °C
Thursday	8-18	Normal	20 °C
Friday	8-17	Normal	20 °C
Saturday	10-14	Normal	20 °C
Other time		Stop	





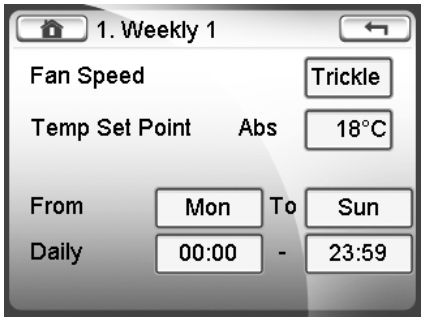


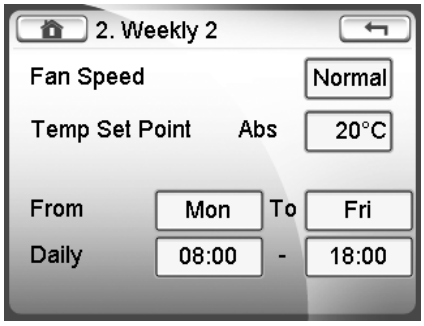
EXAMPLE 3 - WEEKLY SCHEDULE

Below is an example of a weekly schedule configured to run the fans at normal speed from 08:00 to 18:00 Monday to Friday. At all other times, the fans are configured to run at trickle speed. Note, this schedule uses the higher priority of Weekly 2 schedule to over-ride Weekly 1 schedule during the Monday to Friday normal speed periods.

If a post heater has been fitted, this will maintain the supply air temperature at 20°C from 08:00 to 18:00 Monday to Friday and at 18°C at all other times.

Day	Time	Fan Speed	Temp Setpoint
Monday	8-18	Normal	20 °C
Tuesday	8-18	Normal	20 °C
Wednesday	8-18	Normal	20 °C
Thursday	8-18	Normal	20 °C
Friday	8-18	Normal	20 °C
Other time		Trickle (Low)	18 °C





SCHEDULES (CONT) & TIMER FUNCTION

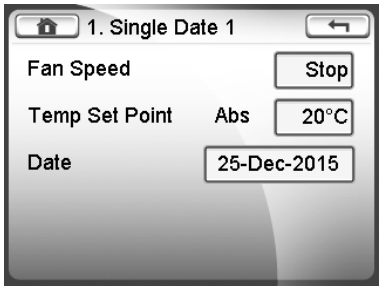
SINGLE DATE SCHEDULE

A single date schedule is defined as a one-off schedule that automatically starts and finishes on the same date and runs for the whole day, i e, from 00:00:00 to 23:59:59.

During a single date schedule, the fans can be set to run at any of the available speeds: Stop, trickle, normal or Boost.

The four individual single date schedules are prioritized to remove the potential for time periods to clash with each other. Single Date 4 Schedule has the highest priority and Single Date 1 Schedule the lowest priority. If two or more single date schedules have start and end times that clash with each other, only the schedule with the highest priority will be used, the other(s) will be ignored.

The supply and extract fans will run at the same speed when set-up through a single date schedule.



A single date schedule can be cancelled by setting the schedule date to any date earlier than the current date.

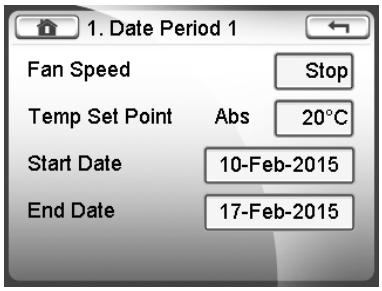
DATE PERIOD SCHEDULE

A date period schedule is defined as a one-off schedule that is configured to run between any to dates, staring at 00:00:00 on the first date and finishing at 23:59:59 on a second date.

During a weekly schedule, the fans can be set to run at any of the available speeds: Stop, trickle, normal or Boost.

The four individual date period schedules are prioritized to remove the potential for time periods to clash with each other. Date Period 4 Schedule has the highest priority and Date Period 1 Schedule the lowest priority. If two or more date period schedules have start and end times that clash with each other, only the schedule with the highest priority will be used, the other(s) will be ignored.

The supply and extract fans will run at the same speed when setup through a date period schedule.

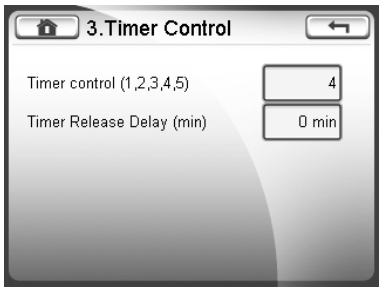


A single date period schedule can be cancelled by setting both the From and To schedule dates to any date earlier than the current date.

TIMER CONTROL

The Timer Control setting determines what speed the fans will run at when up to two external, volt-free switches are applied to the TM1 and PIR terminals - refer to page 12 for customer wiring options.

A '0' in the tables below indicates a volt-free open-circuit input and '1' indicates a volt-free short-circuit input.



TIMER FUNCTION 1

	Timer 1	Timer 2
Manual/Automatic Mode	0	0
Trickle	1	0
Normal	0	1
Boost	1	1

TIMER FUNCTION 2

	Timer 1	Timer 2
Manual/Automatic Mode	0	0
Trickle	1	0
Boost	0	1
Stop	1	1

TIMER FUNCTION 3

	Timer 1	Timer 2
Manual/Automatic Mode	0	0
Normal	1	0
Boost	0	1
Stop	1	1

TIMER FUNCTION 4 (DEFAULT)

	Timer 1	Timer 2
Stop	0	0
Manual/Automatic Mode	1	0
Stop	0	1
Boost	1	1

TIMER FUNCTION 5

	Timer 1	Timer 2
Stop	0	0
Manual/Automatic Mode	1	0
Stop	0	1
Normal	1	1

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