
HERCULES AIR CONDITIONING SYSTEM CONTROL INTERFACE

Operating Instructions

Model Number
CP10



Please Read This Manual

Congratulations on your purchase of an ActronAir air conditioning system. This unit has been designed and manufactured with the highest quality standard in mind.

Please read this manual thoroughly and keep it near the unit for future reference.

**APPLICABLE TO
HERCULES MODELS
(PKV1400 PKV1700 PKV2000)**

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GENERAL INFORMATION

CONGRATULATIONS! On your purchase of the latest ActronAir “Hercules” air conditioning system. With the application of an intelligent interactive software technology controller, this system has been designed to give you many years of reliable service and the convenience of menu-driven control. Your controller is manufactured from the highest quality materials and passed numerous “in house” and “external” inspection procedures to ensure years of satisfactory operation.

IN THIS MANUAL, You will find instructions on how to program and utilise the many advanced features this controller has to offer. Please take time to familiarise yourself with all these features, apply their functions to suit your optimum comfort requirement and achieve energy cost savings at the same time. Thoroughly read this manual in order to ensure correct installation and the safe utilisation of your ActronAir air conditioner.

IMPORTANT NOTICE, ActronAir base the development of its air conditioning products on more than 20 years of experience in HVAC, sound & continuous investments in technological innovations and product improvements, advancement in manufacturing processes and quality control through 100% functional product testing. However, ActronAir cannot guarantee that all the aspects of the product and the software included with the product respond to the requirements of final application, despite the product being developed according to state of the art technology. The customer, both end user/specifier and installer, assume all liability and risks relating to the configuration of the product in order to reach the expected results in relation to the specific design and system installation. ActronAir, based on specific agreements, may be consulted for the positive commissioning, installation and application of the unit, however in no case does ActronAir accept liability for the correct operation of the final equipment / system.

Your ActronAir air conditioning unit is one of the most advanced & innovative products in the market. Its operation is specified in the technical documentation supplied with the product or which can be downloaded from our website: www.actronair.com.au. Your air conditioner requires setup/configuration/programming in order to be able to operate in the best possible way to suit your requirement. Failure to complete such operations, may result in malfunction and/or damage to the unit, for which ActronAir accepts no liability.

Installation, commissioning and other technical services must only be carried out by a qualified technician. Ensure that the unit installation complies with all relevant council regulations and building code standards. All electrical wiring must be in accordance with current electrical authority regulations and all wiring connections to be as per electrical diagram provided. Always use appropriate PPE for your safety and protection. Make sure that any safety guards and covers are always firmly secured and not damaged. WH&S rules and regulations must be observed at all times and will take precedence during installation process and operation of the unit.

In addition, the following instructions must be observed:

- Prevent the electrical components and electronic circuits from getting wet.
- Do not install the controlling devices in a particularly hot environment as extreme temperatures may damage the electronic equipment.
- Do not attempt to open the controller and other electronic devices in any way other than described in this manual.
- Do not drop, shake or hit the devices, which can cause irreparable damage to its internal circuits and mechanisms.

- Do not use corrosive chemicals, solvents or other aggressive detergents to clean the unit and the control interface.
- Do not use the unit for applications other than those specified in the technical manual. Contact ActronAir for technical data.
- Do not install the unit in environment with highly flammable, combustible and/or explosive articles and materials.
- The product, particularly the controlling devices, must be stored and installed in a location that complies with the temperature and humidity limits specified in this manual.

ActronAir is constantly seeking ways to improve the design of its products, therefore specifications are subject to change without prior notice. Please check with your Customer Care Department on toll free number: **1800 119 229**.

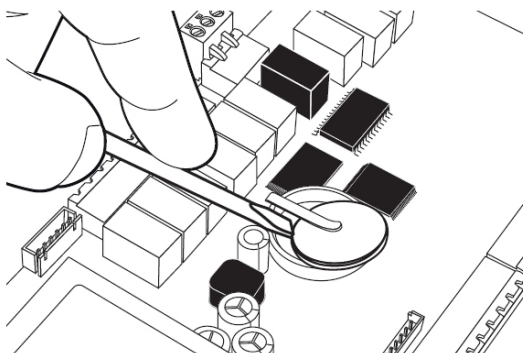
STORAGE & OPERATING CONDITIONS

- Storage conditions: -20 to 70°C, 90% RH non-condensing
- Operating conditions: -10 to 60°C, 90% RH non-condensing

WASTE ELECTRICAL & ELECTRONICS EQUIPMENT DISPOSAL GUIDELINES



1. Do not dispose of the waste electrical & electronic equipment with local council waste. These must be disposed of through the council designated hazardous waste collection centre.
2. The terminal contains a battery that must be removed and separated from the rest of the product before disposing of the terminal.
3. The equipment may contain hazardous substances, improper or incorrect disposal may have a negative effect on human health and on the environment.



SAFETY AND OPERATIONAL PRECAUTIONS



SAFETY PRECAUTIONS

1. Read all instructions in this manual before operating the air conditioning unit. Failure to do so may result in damage to the unit and void your warranty.
2. Turn-Off power from mains supply by removing fuse or switching the circuit breaker to the "Off" position before installation or servicing this control interface.
3. Follow sound Lock Out & Tag Out procedures to ensure that power supply is not re-energised accidentally.
4. This control interface has power supply from the control board via telephone connector, with voltage of 18/30VDC protected by 250mA external fuse & maximum power input of 0.8W. Ensure that this unit is not installed on voltages higher than 30V DC supply.
5. Installation and/or servicing must be carried out by a qualified installer or technician.
6. Ensure that the unit installation complies with relevant council regulations and building code standards. All electrical wiring must be in accordance with current electrical authority regulations and all wiring connections to be as per electrical diagram provided.
7. WH&S rules and regulations must be observed and will take precedence during installation process.
8. Only use this wall controller with an ActronAir air conditioner as described in this operating manual.



OPERATIONAL PRECAUTIONS

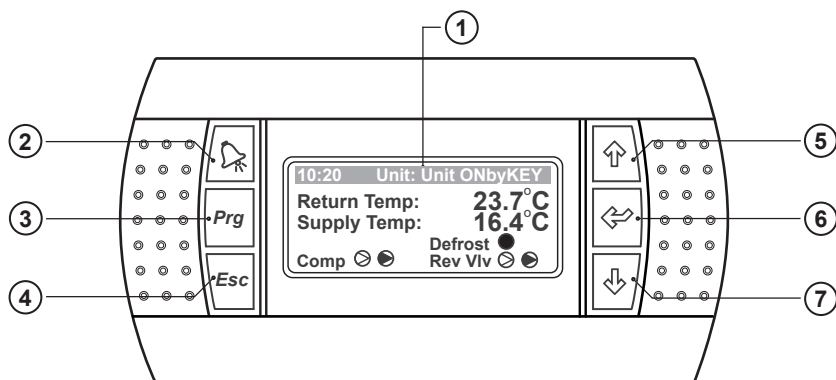
ACCESS PANELS AND GUARDS: NEVER remove any access panels or guards as this could cause injury from electric shock and burns from extremely hot components. Never allow any bodily parts such as fingers or objects to protrude through the fan guards or any other opening as they could cause personal injury and damage the air conditioner.

RETURN AIR FILTER: The air conditioner must never be operated without a return air filter as this will allow a build up of dust or dirt on the indoor coil. This is very difficult to clean and can cause the system to operate inefficiently or even fail.

CRANKCASE HEATER PRECAUTION: The main power (switch board) to the system must be kept ON at all times to prevent damage to the outdoor compressor. Should the main power be disconnected or interrupted for 6 hours or longer, then no attempt should be made to start the system for 2 hours after the power has been restored to outdoor unit. This allows the compressor to warm up, and remove any liquid refrigerant that may cause damage.

CONTROL INTERFACE FUNCTIONS

CONTROL INTERFACE FRONT VIEW



① LCD Display

Displays the setting and operation conditions (see menu page for details).

② Alarm / Reset Button

Alarm Indication and Reset Button.

③ Program Button

To bring-up programming Main Menu screen. (Display will revert back to default screen after 5 minutes idle time at any stage of programming).

④ ESC Button

To exit programming menu.

⑤ Scroll Up / Increment Button

To scroll up from existing menu or to increase setting parameter.

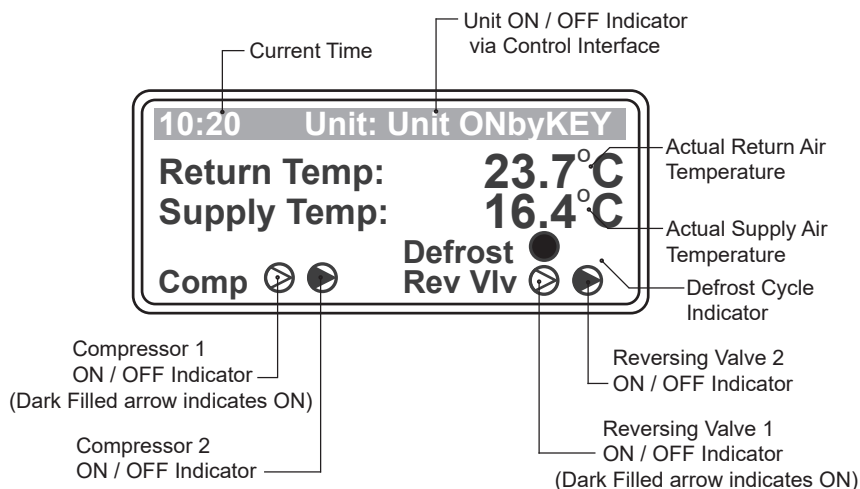
⑥ Enter Button

To lock the selected menu or to enter set parameters.

⑦ Scroll Down / Decrement Button

To scroll down from existing menu or to decrease setting parameter.

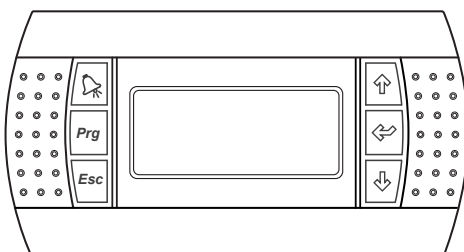
SYSTEM DEFAULT SCREEN



INITIALISATION DISPLAYS - STATUS INDICATIONS

POWER-UP (INITIALIZATION DISPLAYS

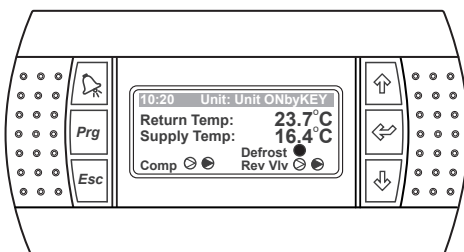
Display Progression



When the control interface is powered "ON" for the first time, The display will be blank for 5 - 10 seconds



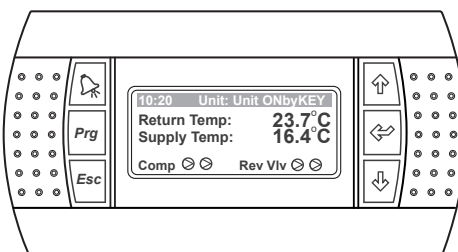
ActronAir logo will then be displayed for the next 5 - 10 seconds



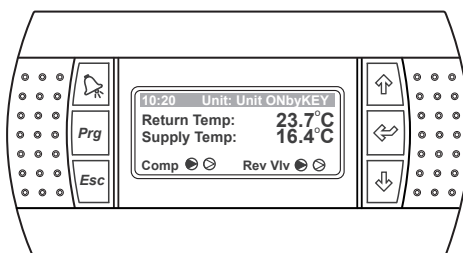
System Screen (default) provides an overview of system status, showing the Return Temperature, Supply Temperature, Compressors, Reversing Valves ON/OFF status and System Defrost indicator.

COMPRESSORS & REVERSING VALVES STATUS INDICATIONS

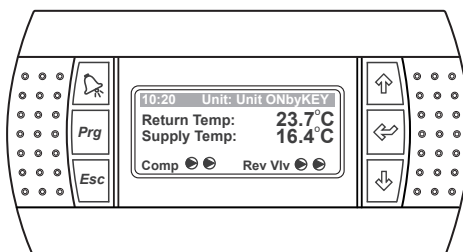
Display Progression



Both Compressors & Reversing Valves are Off, as indicated by clear triangles



Compressor 1 & Reversing Valve 1 are On. (System in Heat Mode), first triangles are darkened



Compressors 1 & 2 and Reversing Valves 1 & 2 are On. (Systems are in Heat Mode), all triangles are darkened

DEFROST OPERATION INDICATIONS

Compressor 1 Defrost Operation

1.

10:20 Unit: Unit ONbyKEY
 Return Temp: 23.7°C
 Supply Temp: 16.4°C
 Comp ●● Rev Vlv ●●

 Normal Heating Operation
2.

10:21 Unit: Unit ONbyKEY
 Return Temp: 23.7°C
 Supply Temp: 16.4°C
 Comp ●● Defrost ●●
 Rev Vlv ●●

 Call for Defrost System 1
3.

10:22 Unit: Unit ONbyKEY
 Return Temp: 23.7°C
 Supply Temp: 16.4°C
 Comp ●● Defrost ●●
 Rev Vlv ●●

 Comp. 1 Off System 1 on Defrost
4.

10:22 Unit: Unit ONbyKEY
 Return Temp: 23.7°C
 Supply Temp: 16.4°C
 Comp ●● Defrost ●●
 Rev Vlv ●●

 Comp. 1 and Rev. Valve 1 Off
5.

10:22 Unit: Unit ONbyKEY
 Return Temp: 23.7°C
 Supply Temp: 16.4°C
 Comp ●● Defrost ●●
 Rev Vlv ●●

 Comp. 1 On Rev. Valve 1 Off
6.

10:23 Unit: Unit ONbyKEY
 Return Temp: 23.7°C
 Supply Temp: 16.4°C
 Comp ●● Rev Vlv ●●

 System 1 Defrost Complete
7.

10:23 Unit: Unit ONbyKEY
 Return Temp: 23.7°C
 Supply Temp: 16.4°C
 Comp ●● Rev Vlv ●●

 Comp. 1 Off Rev. Valve 1 Off
8.

10:23 Unit: Unit ONbyKEY
 Return Temp: 23.7°C
 Supply Temp: 16.4°C
 Comp ●● Rev Vlv ●●

 Comp. 1 Off Rev. Valve 1 On
9.

10:26 Unit: Unit ONbyKEY
 Return Temp: 23.7°C
 Supply Temp: 16.4°C
 Comp ●● Rev Vlv ●●

 Normal Heating Operation

Compressor 2 Defrost Operation

1.

10:26 Unit: Unit ONbyKEY
 Return Temp: 23.7°C
 Supply Temp: 16.4°C
 Comp ●● Rev Vlv ●●

 Normal Heating Operation
2.

10:27 Unit: Unit ONbyKEY
 Return Temp: 23.7°C
 Supply Temp: 16.4°C
 Comp ●● Defrost ●●
 Rev Vlv ●●

 Call for Defrost System 2
3.

10:27 Unit: Unit ONbyKEY
 Return Temp: 23.7°C
 Supply Temp: 16.4°C
 Comp ●● Defrost ●●
 Rev Vlv ●●

 Comp. 2 Off System 2 on Defrost
4.

10:27 Unit: Unit ONbyKEY
 Return Temp: 23.7°C
 Supply Temp: 16.4°C
 Comp ●● Defrost ●●
 Rev Vlv ●●

 Comp. 2 and Rev. Valve 2 Off
5.

10:28 Unit: Unit ONbyKEY
 Return Temp: 23.7°C
 Supply Temp: 16.4°C
 Comp ●● Defrost ●●
 Rev Vlv ●●

 Comp. 2 On Rev. Valve 2 Off
6.

10:28 Unit: Unit ONbyKEY
 Return Temp: 23.7°C
 Supply Temp: 16.4°C
 Comp ●● Rev Vlv ●●

 System 2 Defrost Complete
7.

10:29 Unit: Unit ONbyKEY
 Return Temp: 23.7°C
 Supply Temp: 16.4°C
 Comp ●● Rev Vlv ●●

 Comp. 2 Off Rev. Valve 2 Off
8.

10:29 Unit: Unit ONbyKEY
 Return Temp: 23.7°C
 Supply Temp: 16.4°C
 Comp ●● Rev Vlv ●●

 Comp. 2 Off Rev. Valve 2 On
9.

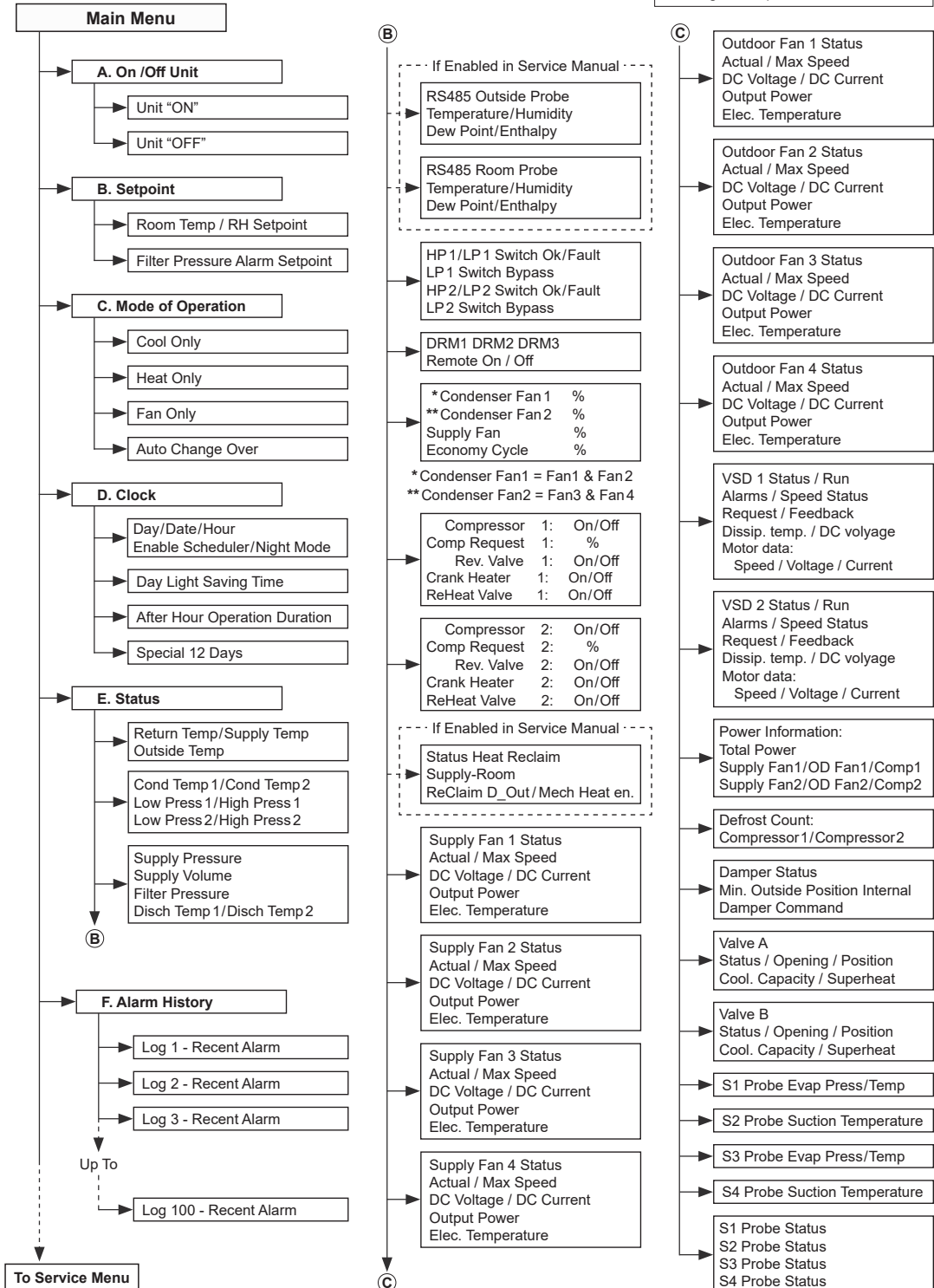
10:32 Unit: Unit ONbyKEY
 Return Temp: 23.7°C
 Supply Temp: 16.4°C
 Comp ●● Rev Vlv ●●

 Normal Heating Operation

MENU TREE DIAGRAM

CONSUMER / END USER MENU

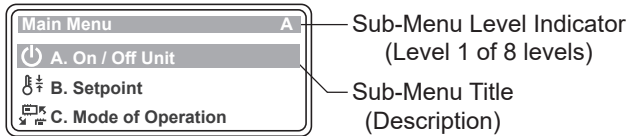
NOTE:
To toggle (scroll) "Up" or "Down" from existing menu, press "↓" or "↑" Button.



SUB-MENU LEVEL DESCRIPTIONS

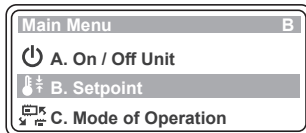
A. On/Off Unit Sub-Menu Level 1

Menu screen to Turn ON / OFF the unit.



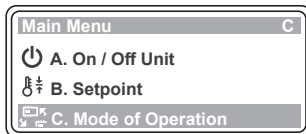
B. Setpoint Sub-Menu Level 2

Menu screen to set the room temperature.



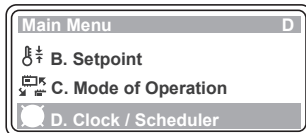
C. Mode of Operation Sub-Menu Level 3

Menu screen for selection of COOL, HEAT, FAN or AUTO CHANGEOVER operation.



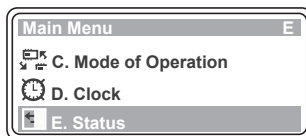
D. Clock Sub-Menu Level 4

Menu screen to set the date & time.



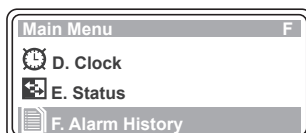
E. Status Sub-Menu Level 5

Read only Menu screen to view the unit running conditions, such as Supply/Return Air temperature, Airflow, Outside temperature, Condensing temperatures, LP/HP, Supply Air pressure, Discharge Temperatures, Fans Speed, Variable Speed Drive operating conditions, etc..



F. Alarm History Sub-Menu Level

Read only Menu screen that indicates the alarm history



Note: Only up to level 6 covered by this manual are accessible by the end user.

OPERATION MODE

1. Press “**Prg**” Button to get into the Main Menu. Display will show Main Menu and highlighted Sub-Menu
A. On/Off Unit.

2. Press “**↓**” Button to scroll down into
C. Mode of Operation sub-menu.

3. Press “**↵**” Button to lock-in **C. Mode of Operation** sub-menu. Display will change into **Heat / Cool** mode selection menu showing **COOL**

ONLY mode, **HEAT ONLY** mode, **FAN ONLY** mode or **AUTO CHANGE OVER** mode, depending on the previous mode selected.

4. Press “**↵**” Button to change the mode and the cursor “**■**” will be blinking at the first letter of the current mode.

TO SELECT COOL ONLY MODE (from HEAT ONLY mode)

5. Press “**↓**” or “**↑**” Button to scroll into COOL ONLY mode. Display will show COOL ONLY mode with the cursor “**■**” still blinking.

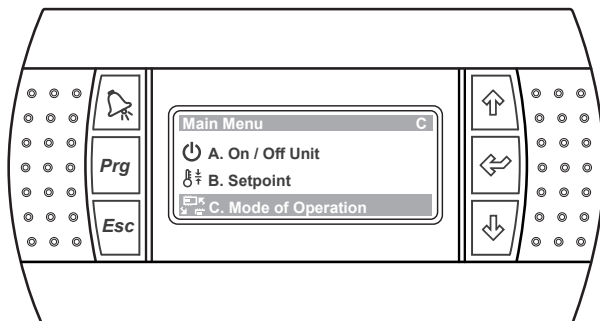
6. Press “**↵**” Button to lock-in COOL ONLY mode, the cursor “**■**” will disappear indicating that the operation is now in COOL ONLY mode.

Note:

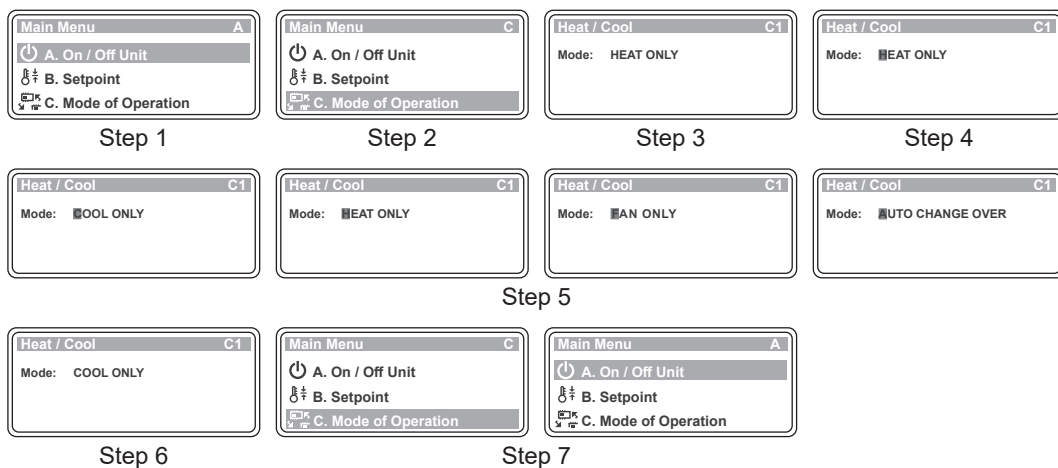
To Select **HEAT ONLY**, **FAN ONLY** or **AUTO CHANGE OVER** Mode, follow steps 4 to 6 above.

TO RETURN TO THE MAIN MENU

7. Keep pressing “**Esc**” (Escape/Return) Button until you get to the Main Menu screen

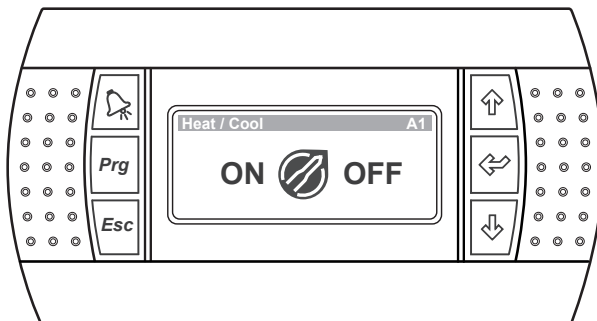


Display Progression



TURN ON/OFF

1. Press "**Prg**" Button to get into the Main Menu. Display will show Main Menu and highlighted Sub-Menu **A. On/Off Unit**.
2. Press "↩" Button to lock-in Sub-Menu **A. On/Off Unit**. Display will show the **ON/OFF** page with switch symbol pointing towards "OFF" position, indicating the unit is Turned-Off. (Symbol will be pointing towards "ON" position when unit is ON).



TO TURN-ON THE UNIT

3. Press "↩" Button, the cursor "■" will appear and blinking near "ON".
4. Press "↶" or "↷" Button to select switch "ON" position. Display will show the **ON/OFF** page with switch symbol pointing towards "ON" and the cursor "■" still blinking.
5. Press "↩" (Enter) Button to Turn-On the unit. The cursor "■" will disappear and the unit will Turn-On.

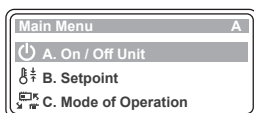
TO TURN-OFF THE UNIT

6. Repeat Steps 1 & 2, then press "↩" Button, cursor "■" will appear and blinking near "ON".
7. Press "↶" or "↷" Button to select switch "OFF" position. Display will show the **ON/OFF** page with switch symbol pointing towards "OFF" and the cursor "■" still blinking.
8. Press "↩" Button to Turn-Off the unit. The cursor "■" will disappear and the unit will Turn-Off.

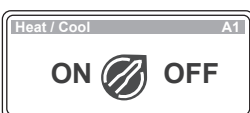
TO RETURN TO THE MAIN MENU

9. Press "**Esc**" (Escape/Return) Button twice to return to the Main Menu. Otherwise press "**Prg**" Button.

Display Progression



Step 1



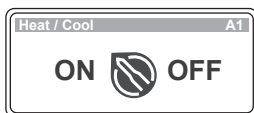
Step 2



Step 3



Step 4



Step 5



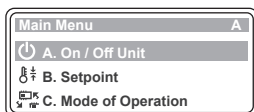
Step 6



Step 7



Step 8



Step 9

SETTING ROOM TEMPERATURE SETPOINT

1. Press "**Prg**" Button to get into the Main Menu. Display will show Main Menu and highlighted Sub-Menu **A. On/Off Unit**.

2. Press "↓" Button to scroll down into **B. Setpoint** sub-menu.

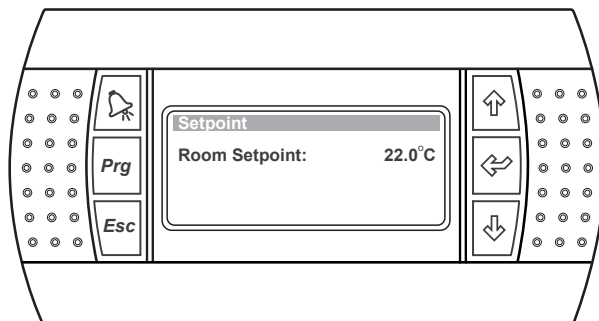
3. Press "↵" Button to lock-in **B. Setpoint** sub-menu. "**Room setpoint**" (room set point temperature) screen will appear.

4. Press "↵" Button cursor "■" will appear and blink next to the setpoint temperature.

5. Press "↓" or "↑" Button to change room temperature setting.

Note: Temperature can be changed with an incremental/decremental value of 0.1°C.

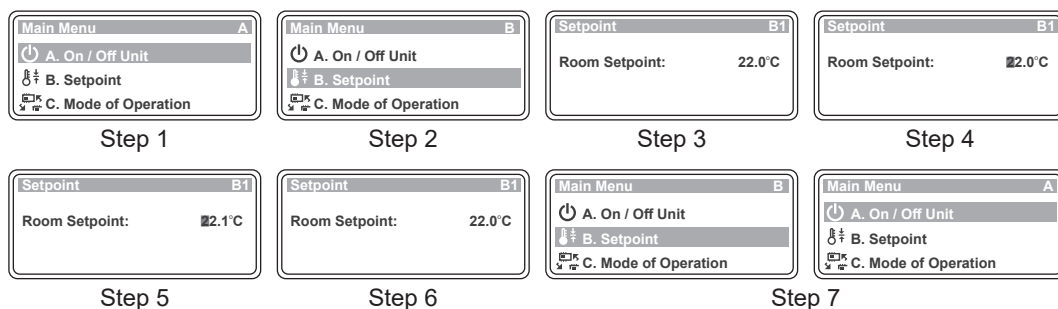
6. Press "↵" Button to lock-in your desired room set point temperature. The cursor "■" will disappear and the new room setpoint temperature will be displayed.



TO RETURN TO THE MAIN MENU

7. Keep pressing "**Esc**" (Escape/Return) Button until you get to the Main Menu screen. Otherwise press "**Prg**" Button.

Display Progression



SETTING SUPPLY AIR VOLUME SETPOINT

1. Press "**Prg**" Button to get into the Main Menu. Display will show Main Menu and highlighted Sub-Menu **A. On/Off Unit**.

2. Press "↓" Button to scroll down into **G. Service** sub-menu.

3. Press "↵" Button to lock-in **G. Service** sub-menu. "**Service menu Ga**" (a. Change Language) screen will appear.

4. Press "↓" or "↑" Button to get into "**Service menu Gf**" (f. Service settings sub-menu).

5. Press "↵" Button to lock-in "**Service menu Gf**".

Note: Service menu is password protected, enter "7378" for access.

6. "**Service menu Gfa**" (a. Working hour set) screen will appear. Press "↓" Button to scroll down into **c. Thermoregulation**.

7. Press "↵" Button to lock-in **c. Thermoregulation** sub-menu.

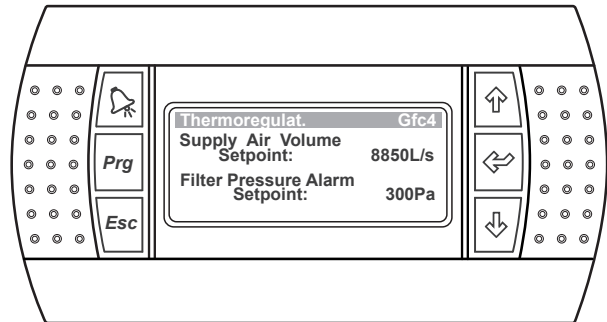
Note: "**Thermoregulat. Gfc1**" screen will appear.

8. Press "↓" Button to get into "**Thermoregulat. Gfc4**" screen .

9. Press "↵" Button to lock-in "**Thermoregulat. Gfc4**" sub-menu and the "█" cursor will appear next to Supply Air Volume Setpoint.

10. Press "↓" or "↑" Button to change Supply Air Volume Setpoint and then press "↵" Button to lock-in the setting.

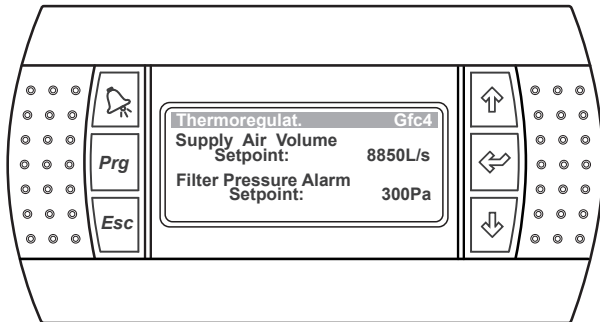
Note: The Supply Air Volume Setpoint can be changed with an incremental/decremental value of 1L/s.



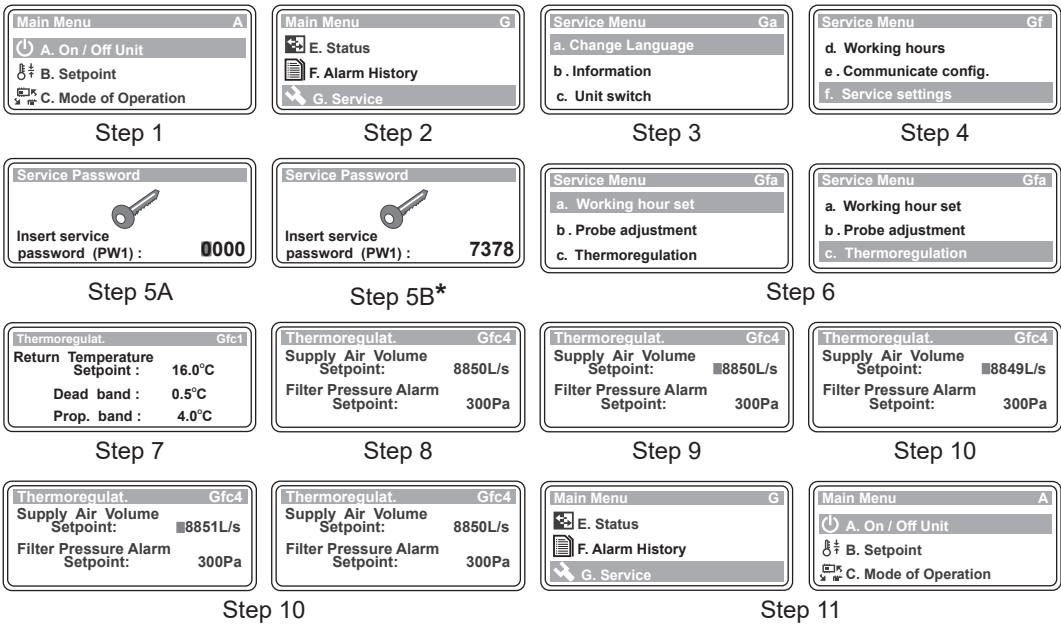
TO RETURN TO THE MAIN MENU

11. Keep pressing "**Esc**" (Escape/Return) Button until you get to the Main Menu screen. Otherwise press "**Prg**" Button.

SETTING SUPPLY AIR VOLUME SETPOINT



Display Progression



* Service Password is shown.

SETTING FILTER PRESSURE ALARM SETPOINT

1. Follow procedures 1-3 for Setting Pressure Setpoint on previous page to scroll down and lock into Supply Pressure Setpoint & Filter Alarm Setpoint screen (**Setpoint 02**). The cursor "■" will appear next to the Supply Pressure Setpoint.

2. Press "↩" Button to move the cursor "■" down into Filter Pressure Alarm Setpoint.

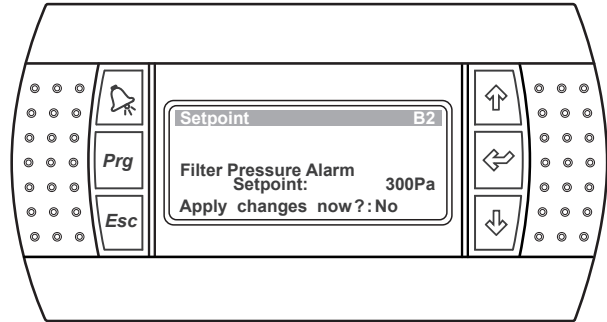
3. Press "↓" or "↑" Button to change the Filter Pressure Alarm Setpoint.

Note: Filter Pressure Alarm Setpoint can be changed with an incremental/decremental value of 1Pa.

4. Press "↩" Button to lock-in your desired Filter Pressure Alarm Setpoint and the menu will prompt you to apply changes. The cursor "■" will move to Apply changes now prompt, next to "No" answer.

5. Press "↓" or "↑" Button to change prompt to "Yes".

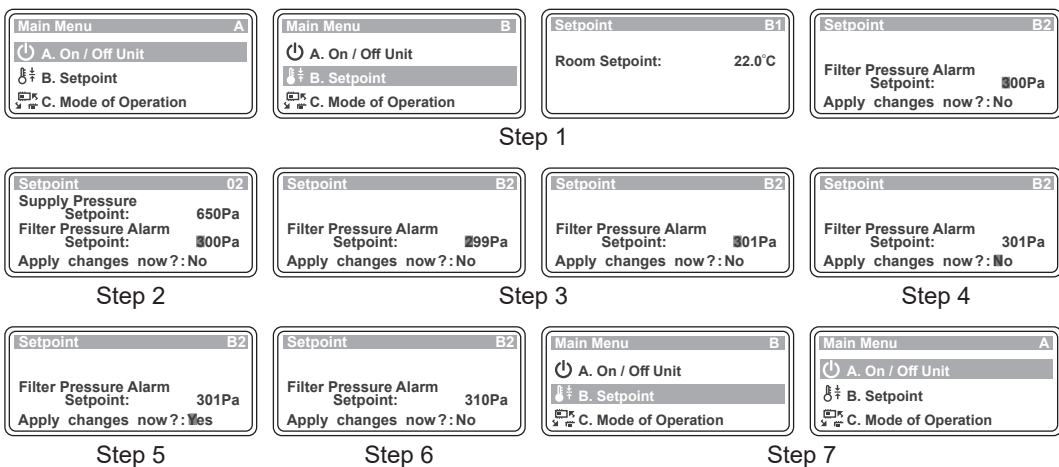
6. Press "↩" Button to lock-in the new Filter Pressure Alarm Setpoint.



TO RETURN TO THE MAIN MENU

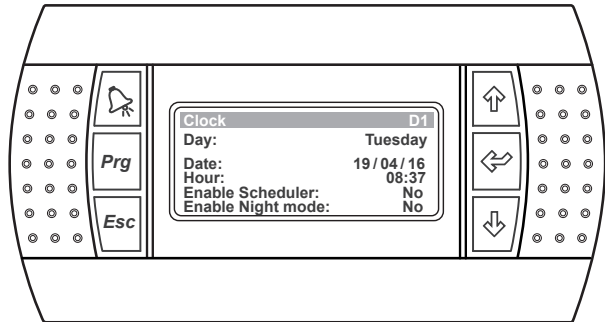
7. Keep pressing "Esc" (Escape/Return) Button until you get to the Main Menu screen. Otherwise press "Prg" Button.

Display Progression



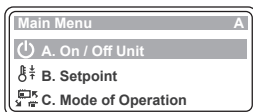
SETTING THE CLOCK

1. Press "**Prg**" Button to get into the Main Menu. Display will show Main Menu and highlighted Sub-Menu **A. On/Off Unit**.
2. Press "**↓**" Button to scroll down into **D. Clock/Scheduler** sub-menu.
3. Press "**↵**" Button to lock-in **D. Clock / Scheduler** sub-menu. "**Clock D1**" screen will appear.

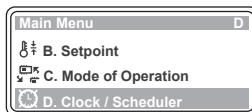


4. Press "**↵**" Button and the cursor "■" will appear next to the date indicator and the corresponding day will be shown, i.e. Monday, 18/04/16 (18th April 2016).
5. Press "**↓**" or "**↑**" Button to change the date.
Note: Date changes, as follows:
17/04/16 (17th April 2016),
19/04/16 (19th April 2016), Day indicator will not change not until step 8 is done.
6. Press "**↵**" Button to lock-in the Date and the cursor "■" will move next to the month indicator.
7. Press "**↓**" or "**↑**" Button to change the month.
Note: Date changes, as follows:
19/03/16 (19th March 2016),
19/05/16 (19th May 2016), Day indicator will not change not until step 8 is done.
8. Press "**↵**" Button to lock-in the Month, the cursor "■" will move next to the year date and Day will change corresponding to the date, i.e. Tuesday 19/04/2016 (19th April 2016).
9. Press "**↓**" or "**↑**" Button to change the year.
Note: Date changes, as follows:
Tuesday, 19/04/16 (19th March 2015),
Tuesday, 19/04/16 (19th May 2017).

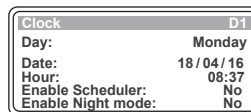
Display Progression



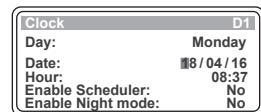
Step 1



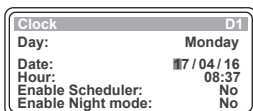
Step 2



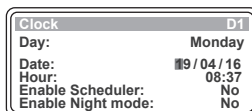
Step 3



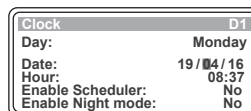
Step 4



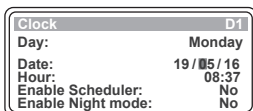
Step 5



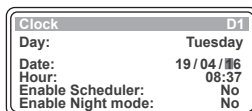
Step 6



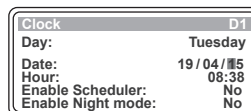
Step 7



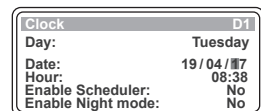
Step 8



Step 9

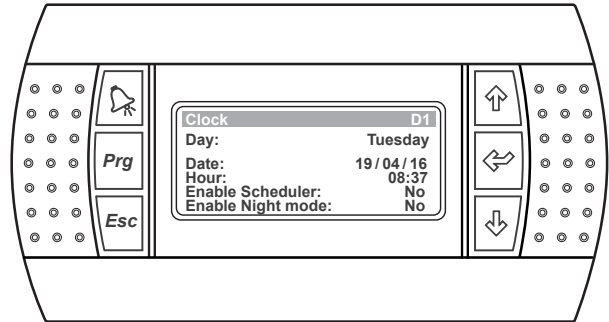


Step 10



... SETTING THE CLOCK

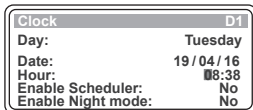
10. Press “↵” Button to lock-in the Year & Date and the cursor “■” will move next to the hour indicator.
11. Press “↓” or “↑” Button to change the hour.
Note: Hour can be changed with an incremental value of 1 hour.
12. Press “↵” Button to lock-in the hour and the cursor “■” will move next to the minute indicator.
13. Press “↓” or “↑” Button to change the minute.
Note: Minute can be changed with an incremental value of 1 minute.
14. Press “↵” Button to lock-in the minute and the cursor “■” will disappear. Set date & time are now locked-in.



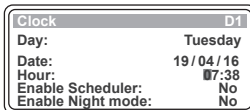
TO RETURN TO THE MAIN MENU

15. Keep pressing “Esc” (Escape/Return) Button until you get to the Main Menu screen. Otherwise press “Prg” Button.

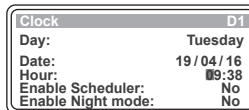
Display Progression



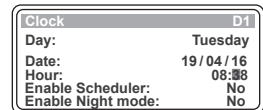
Step 10



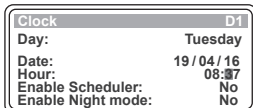
Step 11 (07:38)



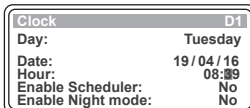
Step 11 (09:38)



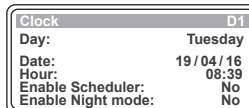
Step 12



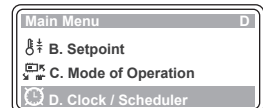
Step 13 (08:37)



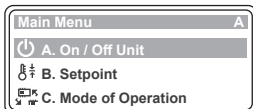
Step 13 (08:39)



Step 14



Step 15

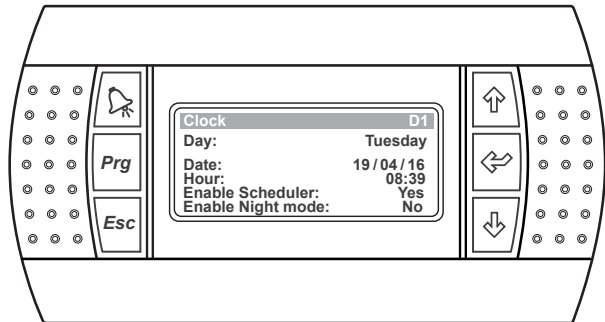


Step 15

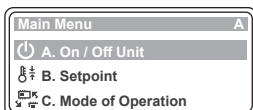
Note: Use the “↓” or “↑” Button to toggle on all of the **D. Clock** sub-menu functions.

7-DAY PROGRAMMING

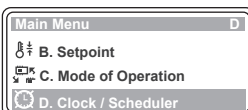
1. From the main menu, scroll down into **D. Clock/Scheduler** sub-menu following the procedures from Setting the Clock.
2. Press " Button repeatedly until the cursor " get down into "**Enable Scheduler**" prompt.
3. Press " or " Button to prompt Enable Scheduler, "Yes" will replace "No" in this sub-menu with the cursor " flashing.
4. Press " Button twice, to enable the scheduler. The cursor " will move next to "Clock D1".
5. Press " Button twice, to scroll down into "**Clock Schedule D3**" sub-menu.
6. Press " Button to lock-in the "**Clock Schedule D3**" sub-menu and the cursor " will appear on Monday Event 1 start time.
7. Press " or " Button to change the hour.
Note: The time clock is in 24:00 format, i.e. 5:00 AM will be 05:00 and 5:00 PM will be 17:00.
8. Press " Button to lock-in the time and the cursor " will move next to the minute indicator.
9. Press " or " Button to change the minute.



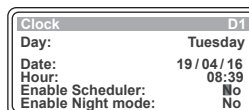
Display Progression



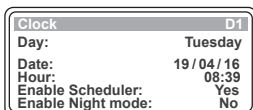
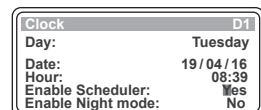
Step 1



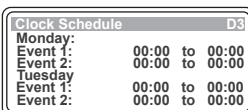
Step 2



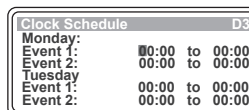
Step 3



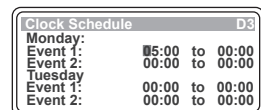
Step 4



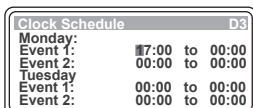
Step 5



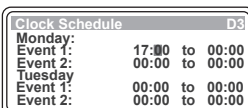
Step 6



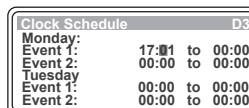
Step 7



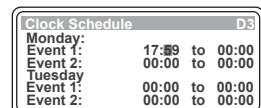
Step 7



Step 8



Step 9 (17:01)



Step 9 (17:59)

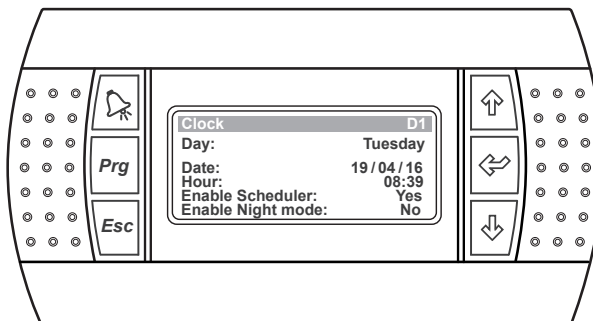
7-DAY PROGRAMMING

10. Press to lock-in Monday Event 1 start time, the cursor will now move to Monday Event 1 end time.

Example: Monday Event 1 starting time is set at 5:00 PM, i.e. 17:00.

11. Repeat steps 7- 10 to set up Monday Event 1 end time and the cursor will next move to Monday Event 2 start time indicator.

Example: Monday Event 1 ending time is set at 10:30 PM, i.e. 22:30.



12. Repeat steps 7- 11 to program Monday Event 2 and the succeeding day's events.

Notes: The scheduled program for each nominated day will be in operation every time each nominated day occurs during the year, i.e. the program for Monday will be repeated on every Monday, until the program is revised.

The scheduled time may need to be synchronized with the daylight saving time. See daylight saving time set-up procedures.

TO RETURN TO THE MAIN MENU

13. Keep pressing "**Esc**" (Escape/Return) Button until you get to the Main Menu screen. Otherwise press "**Prg**" Button.

Display Progression

Clock Schedule		D3
Monday:		
Event 1:	17:00 to	00:00
Event 2:	00:00 to	00:00
Tuesday		
Event 1:	00:00 to	00:00
Event 2:	00:00 to	00:00

Step 10

Clock Schedule		D3
Monday:		
Event 1:	17:00 to	22:30
Event 2:	00:00 to	00:00
Tuesday		
Event 1:	00:00 to	00:00
Event 2:	00:00 to	00:00

Step 11

Clock Schedule		D3
Monday:		
Event 1:	17:00 to	22:30
Event 2:	05:30 to	09:00
Tuesday		
Event 1:	18:00 to	21:00
Event 2:	06:00 to	10:00

Step 12

Clock Schedule		D3
Wednesday:		
Event 1:	17:30 to	22:00
Event 2:	06:30 to	09:00
Thursday		
Event 1:	21:00 to	23:30
Event 2:	05:00 to	9:30

Clock Schedule		D3
Friday:		
Event 1:	22:00 to	23:30
Event 2:	05:30 to	10:00
Saturday		
Event 1:	19:30 to	23:00
Event 2:	08:00 to	16:00

Step 12

Clock Schedule		D3
Sunday:		
Event 1:	17:00 to	22:00
Event 2:	05:30 to	09:00

Main Menu		D
⏻ B. Setpoint		
⏻ C. Mode of Operation		
⏻ D. Clock / Scheduler		

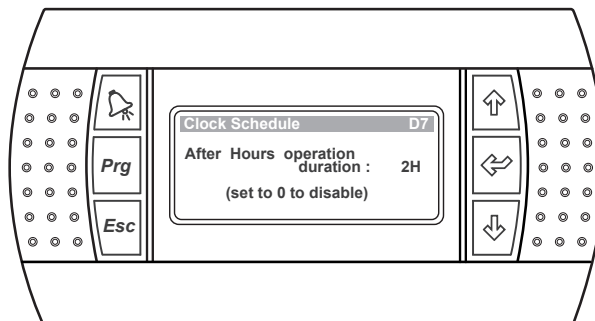
Step 13

Main Menu		A
⏻ A. On / Off Unit		
⏻ B. Setpoint		
⏻ C. Mode of Operation		

Note: Use the "↵" or "⬆" Button to toggle on all of the **D. Clock** sub-menu functions.

AFTER HOUR TIMER

1. Press "**Prg**" Button to get into the Main Menu. Display will show Main Menu and highlighted Sub-Menu **A. On/Off Unit**.
2. Press "↓" Button to scroll down into **D. Clock/Scheduler** sub-menu.
3. Press "↩" Button to lock-in **D. Clock / Scheduler** sub-menu. "**Clock D1**" screen will appear.

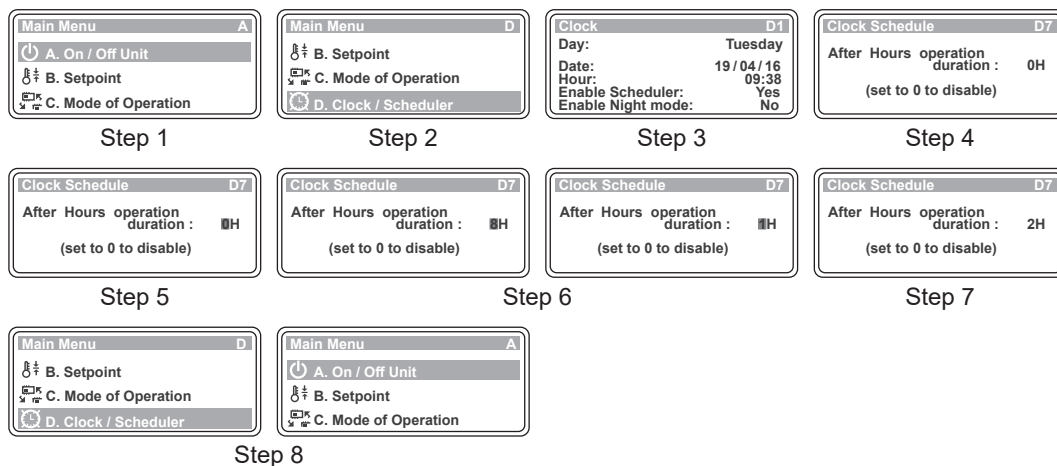


4. Press "↓" or "↑" Button to get into "**Clock Schedule D7**" sub-menu.
5. Press "↩" Button to lock-in "**Clock Schedule D7**", the cursor "■" will appear next to "**After Hours operation duration**" setting.
6. Press "↓" or "↑" Button to select the desired duration of the After Hours operation.
Note: The duration of the After Hours operation can be set with an incremental/decremental value of 0.5hr.
7. Press "↩" Button to lock-in the desired duration of the After Hours operation.

TO RETURN TO THE MAIN MENU

8. Keep pressing "**Esc**" (Escape/Return) Button until you get to the Main Menu screen. Otherwise press "**Prg**" Button.

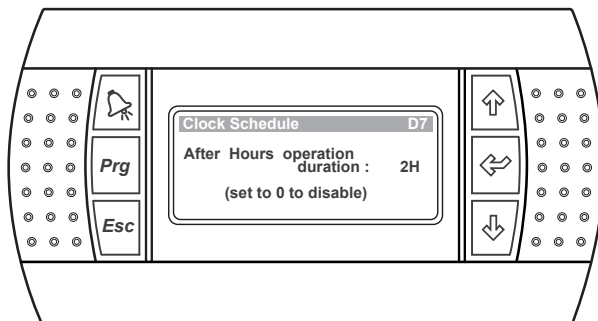
Display Progression



Note: Use the "↓" or "↑" Button to toggle on all of the **D. Clock / Scheduler** sub-menu functions.

SPECIAL DAYS

1. Press "**Prg**" Button to get into the Main Menu. Display will show Main Menu and highlighted Sub-Menu **A. On/Off Unit**.
2. Press "↓" Button to scroll down into **D. Clock/Scheduler** sub-menu.
3. Press "↵" Button to lock-in **D. Clock / Scheduler** sub-menu. "**Clock D1**" screen will appear.



4. Press "↓" or "↑" Button to get into "**Clock Schedule D8**" sub-menu.
5. Press "↵" Button to lock-in "**Clock Schedule D8**", "Special Day 1" screen will appear with the cursor "█" blinking next to "Day" of the month for Special Day 1.
6. Press "↓" or "↑" Button to select the desired "Day" for "Special Day 1".
Note: The desired "Special Day 1" can be programmed from Day 1 to 31 of the month.
7. Press "↵" Button to lock-in the desired "Day". The cursor move next to the "Month" prompt.
8. Press "↓" or "↑" Button to select the desired "Month" for "Special Day 1".
9. Press "↵" Button to lock-in the desired "Month". The cursor move next to the "Event 1" prompt.
10. Follow steps 7- 12 of the 7-Day Programming procedure to program Event 1 and Event 2.
Notes: The scheduled program for each "Special Day" will be in operation only once.

The "Special Day" may need to be synchronized with the daylight saving time.
See daylight saving time set-up procedures.

11. Follow steps 1- 10 to program the succeeding "Special Days".

TO RETURN TO THE MAIN MENU

12. Keep pressing "**Esc**" (Escape/Return) Button until you get to the Main Menu screen. Otherwise press "**Prg**" Button.

SPECIAL DAYS

Display Progression

Main Menu A	
	A. On / Off Unit
	B. Setpoint
	C. Mode of Operation

Step 1

Main Menu D	
	B. Setpoint
	C. Mode of Operation
	D. Clock / Scheduler

Step 2

Clock D1	
Day:	Tuesday
Date:	19/04/16
Hour:	09:38
Enable Scheduler:	Yes
Enable Night mode:	No

Step 3

Clock Schedule D8	
Special Day 1	
Day:	0
Month:	
Event 1:	00:00 to 00:00
Event 2:	00:00 to 00:00

Step 4

Clock Schedule D8	
Special Day 1	
Day:	0
Month:	
Event 1:	00:00 to 00:00
Event 2:	00:00 to 00:00

Step 5

Clock Schedule D8	
Special Day 1	
Day:	31
Month:	
Event 1:	00:00 to 00:00
Event 2:	00:00 to 00:00

Step 6

Clock Schedule D8	
Special Day 1	
Day:	1
Month:	
Event 1:	00:00 to 00:00
Event 2:	00:00 to 00:00

Clock Schedule D8	
Special Day 1	
Day:	3
Month:	
Event 1:	00:00 to 00:00
Event 2:	00:00 to 00:00

Step 7

Clock Schedule D8	
Special Day 1	
Day:	3
Month:	Dec
Event 1:	00:00 to 00:00
Event 2:	00:00 to 00:00

Step 8

Clock Schedule D8	
Special Day 1	
Day:	3
Month:	Jan
Event 1:	00:00 to 00:00
Event 2:	00:00 to 00:00

Clock Schedule D8	
Special Day 1	
Day:	3
Month:	Feb
Event 1:	00:00 to 00:00
Event 2:	00:00 to 00:00

Step 9

Clock Schedule D8	
Special Day 1	
Day:	3
Month:	Feb
Event 1:	06:30 to 10:30
Event 2:	18:00 to 22:00

Step 10

Clock Schedule D8	
Special Day 2	
Day:	8
Month:	March
Event 1:	08:30 to 12:30
Event 2:	18:00 to 22:00

Step 11

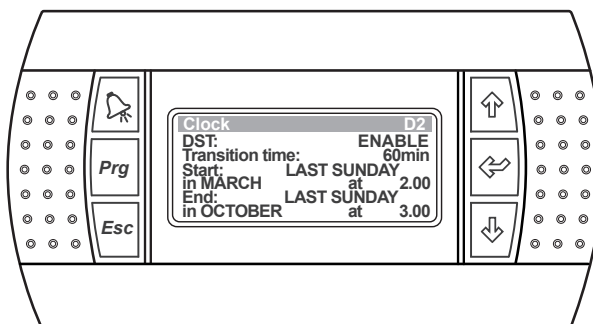
Main Menu D	
	B. Setpoint
	C. Mode of Operation
	D. Clock / Scheduler

Step 12

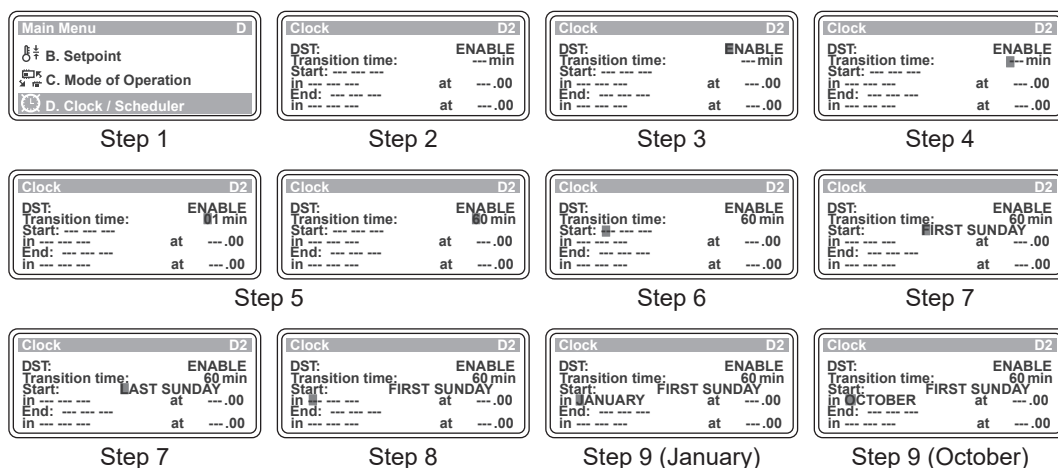
Main Menu A	
	A. On / Off Unit
	B. Setpoint
	C. Mode of Operation

DAYLIGHT SAVING TIME ENABLE

1. From the main menu, go to **D. Clock /Scheduler** sub-menu following the procedures from Setting the Clock section.
2. Press the "↓" Button to get into "**Clock D2**" (Daylight Saving Time) sub-menu.
3. Press "↵" Button to lock-in **Daylight Saving Time** sub-menu and the cursor "█" will appear on "ENABLE" indicator.
4. Press "↵" Button again to enable **Daylight Saving Time** mode and the cursor "█" will move to the "Transition time" segment.
5. Press "↓" or "↑" Button to select the number of minutes for transition into daylight saving time..
Note: The transition time can be set in 1 minute increment up to 60 minutes maximum.
6. Press "↵" Button to lock-in the selected length of transition time, i.e. 60min. The cursor "█" will next move into the Sunday for the start of the transition to occur.
7. Press "↓" or "↑" Button to select the "Sunday" for the transition into daylight saving time.
Note: The "Sunday" transition can be set as First Sunday, Second... Fourth or Last Sunday.
8. Press "↵" Button to lock-in the Sunday for the transition to occur, i.e. FIRST SUNDAY. The cursor "█" will next move into the starting month selection segment.
9. Press "↓" or "↑" Button to select the "Month" for the transition into daylight saving time.
10. Press "↵" Button to lock-in the Month for the transition to occur, i.e. October. The cursor "█" will next move into the starting time selection segment.



Display Progression

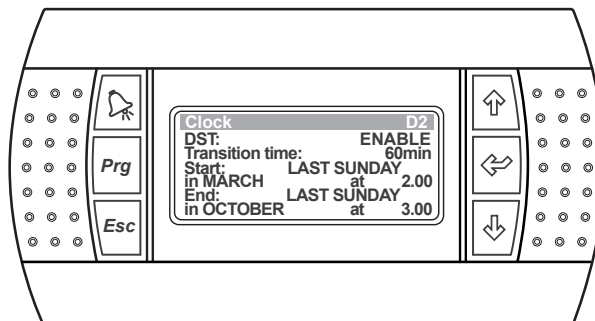


... DAYLIGHT SAVING TIME ENABLE

11. Press “↓” or “↑” Button to select the "hour" on the Sunday for the transition into daylight saving time.

Note: The time clock is in 24:00 format, i.e. 2:00 AM will be 2.00 and 8:00 PM will be 20.00.

12. Press “↶” Button to lock-in the time on the Sunday for the transition to occur, i.e. 2.00. The cursor “█” will next move into the Sunday for the transition to end.



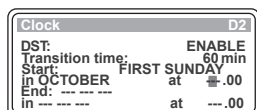
13. Repeat steps 7- 11 to set up the end of Daylight Saving Time parameters.

14. Press “↶” Button to enable the Daylight Saving Time and lock-in the parameters.

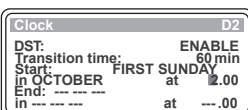
TO RETURN TO THE MAIN MENU

15. Keep pressing “**Esc**” (Escape/Return) Button until you get to the Main Menu screen. Otherwise press “**Prg**” Button.

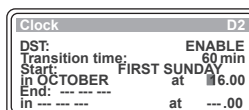
Display Progression



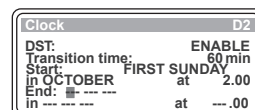
Step 10



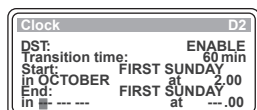
Step 11 (2.00)



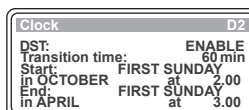
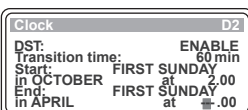
Step 11 (16.00)



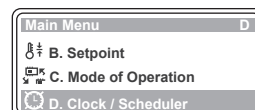
Step 12



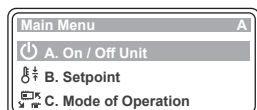
Step 13



Step 14



Step 15

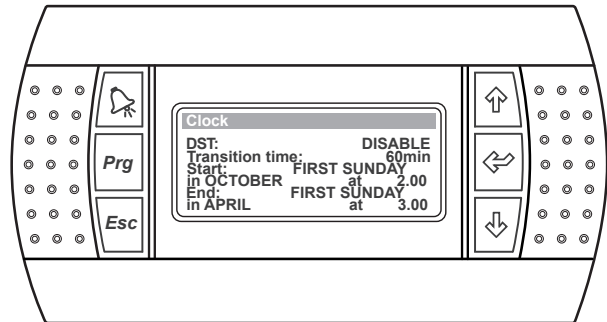


Step 15

Note: Use the “↓” or “↑” Button to toggle on all of the **D. Clock** sub-menu functions.

DAYLIGHT SAVING TIME DISABLE

1. From the main menu, scroll down into **D. Clock / Scheduler** sub-menu following the procedures from Setting the Clock section.
2. Press “↓” Button to scroll down into **Daylight Saving Time** sub-menu.
3. Press “↵” Button to lock-in **Daylight Saving Time** sub-menu and the cursor “■” will appear on "ENABLE" indicator.

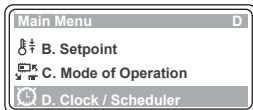


4. Press “↓” or “↵” Button to select the "**DISABLE**" Daylight Saving Time function.
Note: The segment will change from "**ENABLE**" to "**DISABLE**".
5. Press “↵” Button to disable the **Daylight Saving Time** function. The cursor will disappear and the "DISABLE" sub-menu screen will be displayed.

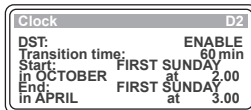
TO RETURN TO THE MAIN MENU

6. Keep pressing “**Esc**” (Escape/Return) Button until you get to the Main Menu screen. Otherwise press “**Prg**” Button.

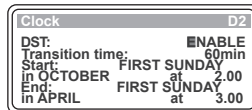
Display Progression



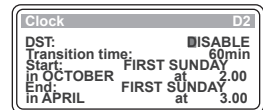
Step 1



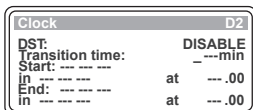
Step 2



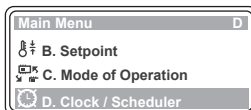
Step 3



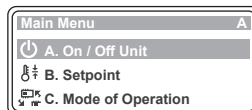
Step 4 (DISABLE)



Step 5



Step 6



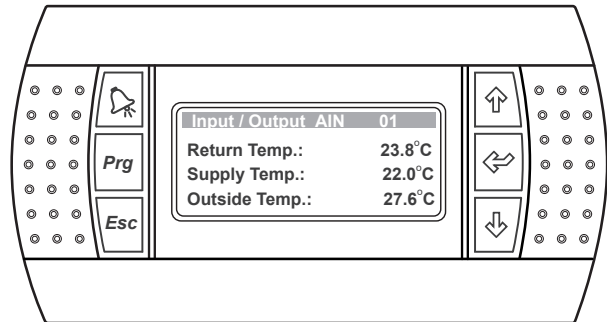
- Notes:**
1. Use the “↓” or “↵” Button to toggle on all of the **D. Clock** sub-menu functions.
 2. The programmed Day Light Saving Time parameters will be retained for next time Day Light Saving Time is enabled.

STATUS (Read Only Menu)

1. Press "**Prg**" Button to get into the Main Menu. Display will show Main Menu and highlighted Sub-Menu **A. On/Off Unit**.

2. Press "↓" Button to scroll down into **E. Status** sub-menu.

3. Press "↵" Button to lock-in **E. Status** sub-menu. Display will show the first screen under this sub-menu.



4. Press "↓" Button to scroll down into the second screen and view the operating parameters.

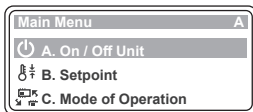
5. Press "↓" Button repeatedly to scroll down into the next succeeding operating parameter screens.

6. Press "↑" Button to scroll up and to view the previews screens.

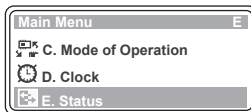
TO RETURN TO THE MAIN MENU

7. Keep pressing "**Esc**" (Escape/Return) Button until you get to the Main Menu screen. Otherwise press "**Prg**" Button.

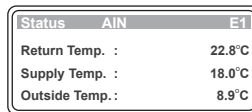
Display Progression



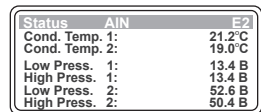
Step 1



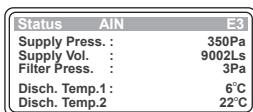
Step 2



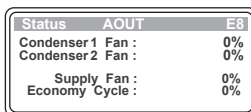
Step 3



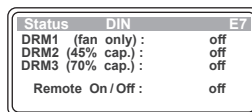
Step 4



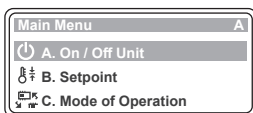
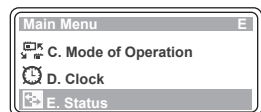
Step 5



Step 6



Step 7



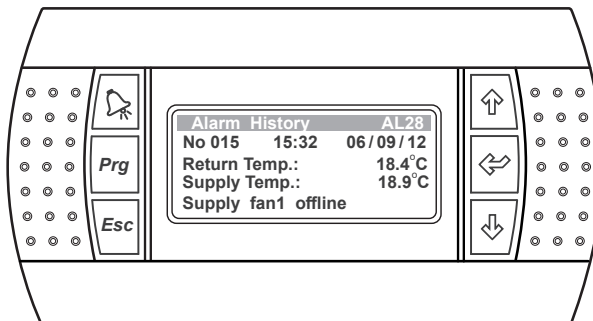
Step 7

ALARM HISTORY (Read Only Menu)

1. Press "**Prg**" Button to get into the Main Menu. Display will show Main Menu and highlighted Sub-Menu **A. On/Off Unit**.

2. Press "↓" Button to scroll down into **F. Alarm History** sub-menu.

3. Press "↵" Button to lock-in **F. Alarm History** sub-menu. Display will show the first screen under this sub-menu.
Note: Alarm History is time & date stamped.



4. Press "↓" Button to scroll down into the second screen and view the alarm history.

5. Press "↓" Button repeatedly to scroll down into the next succeeding screens and view the other alarm log.

6. Press "↑" Button to scroll up and to view the previews alarm history screens.

TO RETURN TO THE MAIN MENU

7. Keep pressing "**Esc**" (Escape/Return) Button until you get to the Main Menu screen. Otherwise press "**Prg**" Button.

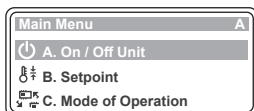
TO RESET THE ALARM

8. Press the "↵" Button twice to reset or clear the alarm.

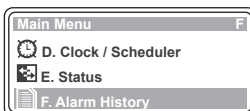
Important Note:

All alarm fault conditions must be investigated and rectified before proceeding to reset or clear the alarm. If the cause of the fault condition has not been eliminated, the alarm fault conditions will be reported and logged in again on next data cycle. **Repeated resetting and restarting can cause damage to the unit and may render your warranty null & void.**

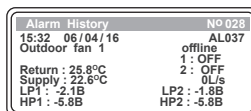
Display Progression



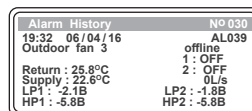
Step 1



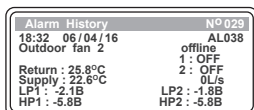
Step 2



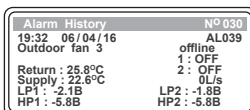
Step 3



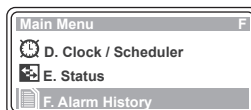
Step 4



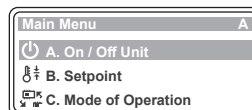
Step 5



Step 6

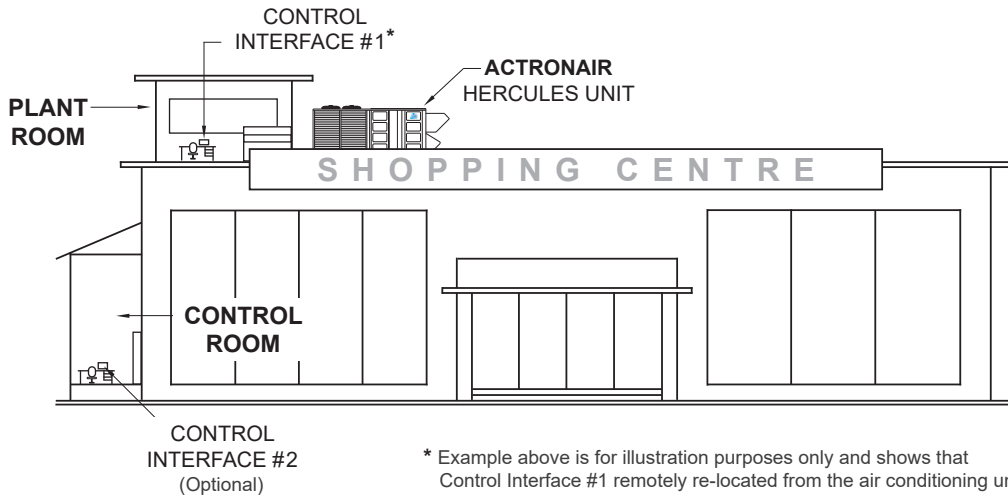


Step 7



DUAL CONTROL OPERATION

MIMIC CONTROL



MIMIC CONTROL OPERATION

- The air conditioning system can be operated from either of the two control interfaces.
- Information displayed on the control interfaces are identical.
- Last control interface used has the priority.

Example 1:

Using Control Interface #1, the cooling operation is started, both control interfaces will now show the system is in cooling mode. If another person uses Control Interface #2 to select heating mode, the system will now change to heating operation and both controls will display that the system is in heating mode.

Example 2:

Using Control Interface #2, the Room Setpoint temperature is set at 16.0°C, both control interfaces will now show that the room setpoint temperature is at 16.0°C. If another person uses Control Interface #1 to change the setpoint temperature to 18.0°C, the system will now be operating at the new Room Setpoint Temperature and both controls will display the same setpoint temperature.

Controllers Compatibility Matrix for Dual Control

Combination Options	Controller	Controller
Option 1	ActronAir Control Interface	ActronAir Control Interface
Option 2	ActronAir Control Interface	BMS Controller

ALARM MATRIX

Serial Number	Description	Type	Start Condition	Stop Condition
1	Compressor 1 HP fault	Alarm	Pd > 4216kPa	Pd < 2647kPa
2	Compressor 2 HP fault	Alarm	Pd > 4216kPa	Pd < 2647kPa
3	Compressor 1 LP fault	Alarm	Ps < 401kPa	Ps > 686kPa
4	Compressor 2 LP fault	Alarm	Ps < 401kPa	Ps > 686kPa
5	Compressor 1 overload	Alarm	Drive alarm high current	Current less than 90% of maximum
6	Compressor 2 overload	Alarm	Drive alarm high current	Current less than 90% of maximum
7	Compressor 1 offline	Alarm	Communication loss	Communication OK
8	Compressor 2 offline	Alarm	Communication loss	Communication OK
9	Evaporator Fan 1 offline	Alarm	Communication loss	Communication OK
10	Evaporator Fan 2 offline	Alarm	Communication loss	Communication OK
11	Evaporator Fan 3 offline	Alarm	Communication loss	Communication OK
12	Evaporator Fan 4 offline	Alarm	Communication loss	Communication OK
13	Condenser Fan 1 offline	Alarm	Communication loss	Communication OK
14	Condenser Fan 2 offline	Alarm	Communication loss	Communication OK
15	Condenser Fan 3 offline	Alarm	Communication loss	Communication OK
16	Condenser Fan 4 offline	Alarm	Communication loss	Communication OK
17	Probe 1 Faulty / Wiring open or short circuit	Warning	Return Air temperature sensor fault	Sensor OK
18	Probe 2 Faulty / Wiring open or short circuit	Warning	Supply Air temperature sensor fault	Sensor OK
19	Probe 3 Faulty / Wiring open or short circuit	Alarm	Suction Comp 1 temperature sensor fault	Sensor OK
20	Probe 4 Faulty / Wiring open or short circuit	Alarm	Suction Comp 2 temperature sensor fault	Sensor OK
21	Probe 6 Faulty / Wiring open or short circuit	Alarm	Low pressure Comp 1 temperature sensor fault	Feedback signal OK
22	Probe 7 Faulty / Wiring open or short circuit	Alarm	Low pressure Comp 2 temperature sensor fault	Feed back signal OK
23	Probe 8 Faulty / Wiring open or short circuit	Warning	Outdoor coil Comp 1 temperature sensor fault	Sensor OK
24	Probe 9 Faulty / Wiring open or short circuit	Warning	Outdoor coil Comp 2 temperature sensor fault	Sensor OK
25	Probe 10 Faulty / Wiring open or short circuit	Warning	Outside air temperature sensor fault	Sensor OK
26	Probe 11 Faulty / Wiring open or short circuit	Alarm	High Pressure Comp 1 pressure sensor fault	Feed back signal OK
27	Probe 12 Faulty / Wiring open or short circuit	Alarm	High Pressure Comp 2 pressure sensor fault	Feed back signal OK
28	Filter Differential Pressure alarm	Warning	Filter Dirty	Filter Clean
29	Filter Differential Pressure sensor fault	Warning	Air pressure < 15 Pa and fan speed > 250rpm	Air pressure > 15 Pa and fan speed > 250rpm
30	Supply Air pressure sensor fault	Warning	Air pressure < 15 Pa and fan speed > 250rpm	Air pressure > 15 Pa and fan speed > 250rpm

TROUBLE SHOOTING GUIDE

CONDITION	PROBABLE CAUSE	RECOMMENDED ACTIONS / CHECKPOINTS
Unit will not operate	No Power to the unit No power to the variable speed drive Unit under fault condition	Check whether the mains power switch is ON. Check whether the Drive Circuit breakers are switched ON. Check the Fault details.
Unit will not Cool or Heat, only Fan operates	The mode of operation is "Fan only". Indoor condition is equal to the set point	Set the correct mode of operation. Try setting the min setpoint for Cooling 16°C (If cooling required). Try setting the max setpoint for Heating 28°C (If heating required)
Unit Cools or Heats, but will not control to setpoint	Return air sensor is defective. Return air sensor wrongly calibrated.	Check the Alarm on the Control Interface. Need to correct the calibration through service
Compressor 1 or 2 will not operate, outdoor fan will operate	Head pressure high Discharge pressure sensor faulty.	Check the Alarm on the Control Interface.
Compressor 1 or 2 will not operate, outdoor fan will also not operate	The mode of operation is "Fan Only".	Set the correct mode of operation
Outdoor Motor will not operate	Motor in fault. Head pressure not above the set limit for the fan to start.	Check the Alarm on the Control Interface. Need to correct the setpoint through service.
Indoor Motor will not operate	Motor in fault. Supply air pressure sensor faulty.	Check the Alarm on the Control Interface.
Crankcase Heater will not operate	Heater contactor has failed. Heater element has failed. Wiring or terminal failure	Check the Crankcase heater switching setting through service. Replace heater element through service. Check wiring or terminal and replace as required through service.

TROUBLE SHOOTING GUIDE

CONDITION	PROBABLE CAUSE	RECOMMENDED ACTIONS / CHECKPOINTS
Evaporator coil freezes up during low ambient operation	System low on refrigerant. System low on airflow. Outdoor air sensor failure.	Check the pressures and the temps for suction and discharge. Check the ID fan airflow through the Control Interface. Check the Alarm on the Control Interface.
Economiser, outside air and/or spill air will not operate	Economiser connector not plugged into unit wiring harness Economiser, outside air, and/or spill air motor has failed. Wiring or terminal failure	Check the connection. Motor wiring to be checked and replaced as required. Wiring or terminal to be checked and replaced as required.
Control Interface keys not operating	Control Interface hanged. RJ12 cable failure.	Reset the power to the Control Interface by turning it OFF/ON. Replace RJ12 cable through service.
Control Interface does not power up	Wiring fault. RJ12 cable fault.	Wiring to be checked as per the wiring diagram. Replace RJ12 cable through service.

MAINTENANCE

Maintenance Procedures

This section describes the specific maintenance procedures that must be performed as a part of normal maintenance program. Always disconnect electrical power to the unit before performing these procedures. It is always a safe practice to observe all safety warnings and cautions when conducting maintenance tasks.



DANGER

Live Electrical Connections !

It may be necessary to work near live electrical components on certain maintenance tasks. Only licensed electricians and/or qualified technicians who are competently trained are allowed to perform service tasks.



WARNING

Hazardous Voltage !

Always make sure that all power supplies, including remote controls, are isolated before performing maintenance. Observe proper Lock-Out / Tag-Out procedures to ensure that power cannot be inadvertently energised. Failure to isolate power before maintenance procedures can result in serious injury or death.

Periodic Maintenance Checkpoint

- Perform all monthly maintenance inspections
- Inspect coil surfaces for cleanliness. Clean as required, apply cleaning procedures based on prevailing industry standard.
- Inspect unit air filters, clean or replace as required.

Annual Maintenance Checklists

- Perform general maintenance inspections.
- Perform scheduled start-up checks.
- Leak test refrigerant circuits.
- Inspect contacts of all contactors and relays. Replace all worn contacts as required.
- Inspect, clean and tighten all electrical connections.
- Check fans for balanced operation. Make sure that there are no loose screws/bolts, no fan blades interference and no damage to the fans and guards.
- Inspect unit air filters, clean or replace as required.
- Clean and repaint any corroded panel surface.

Cleaning the Control Interface

Wipe the control interface with dry cloth. Do not use water or any other solvent base solutions as it can cause damage to the outer case and electronic components of the controller.

Air Filter Maintenance.

Regularly check the air filters for cleanliness or when a filter alarm is indicated on the control interface.

Cleaning the Condenser Coils

Clean the coils at least once a year or more frequently if unit is located in a dusty and/or dirty environment, in order to maintain your system's proper operating performance. High discharge pressures are a good indication that the coils need cleaning. When using detergent or solvents to clean the coils, follow the manufacturer's instructions to avoid potential damage to the coils and to the unit.

To clean the refrigerant coils, use a soft brush and water spray, such as garden hose or pressure washer with low pressure nozzle.

Outdoor Maintenance

Do not obstruct airflow to the outdoor coil to ensure your air conditioner operates efficiently. Use light detergent solutions to clean the surface of the panels. Repaint corroded panel surface, as required.

SYSTEM INFORMATION

CUSTOMER INFORMATION

Name:

Tel. Number:

Address:

INSTALLER INFORMATION

Company Name:

Address:

Tel. Number:

Fax. Number:

Technician - Name:

Tel. Number:

Fax. Number:

UNIT INFORMATION

Model Number:

Serial Number:

The air conditioner model and serial number is situated on the side panel of the unit's bottom left corner, near the compressor compartment.

Date Installed:

NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



That's better. That's Actron.

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ABN 34 002 767 240

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