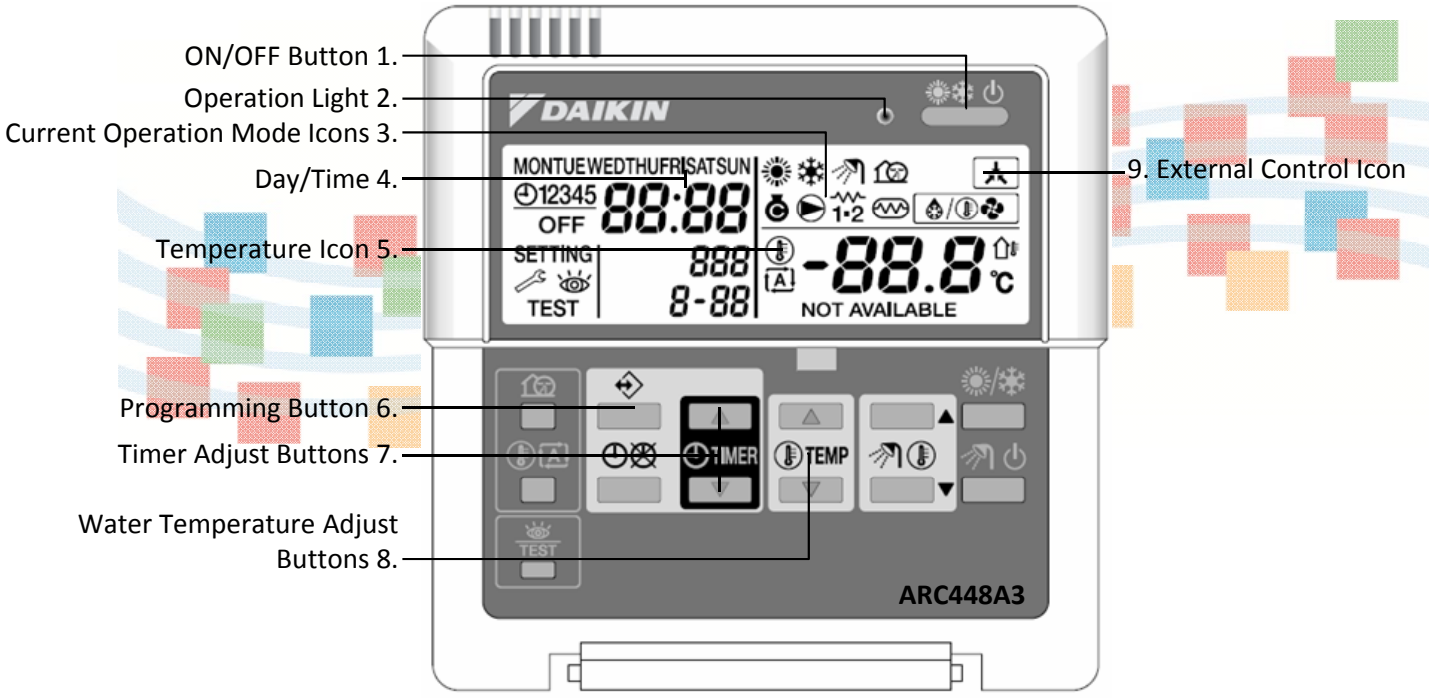
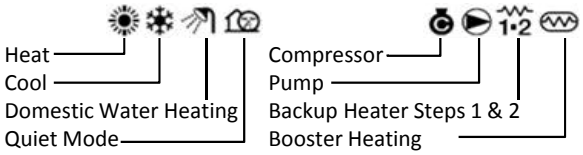
Quick User Guide
Altherma User Interface



1. **ON/OFF Button:** (not active when external control is used)
2. **Operation Light:** Lit when system is Heating or Cooling. Blinks in the event of system malfunction.
3. **Current Operation Mode:** These icons represent the current operation mode:



In some instances more than one mode icon can be displayed at the same time. If the solar option is installed and active the domestic water heater icon will be blinking.

4. **Day/Time:** The time display indicates the current time(or the action day time when reading or programming the schedule timer). The day of the week indicator shows the current weekday (or the set day when reading or programming the schedule timer). Clock is 24hr format.
5. **Temperature Icon:** This icon is displayed when the water outlet temperature of the indoor unit, the outdoor ambient and the domestic hot water tank temperature are shown. The icon is also displayed when the temperature set point is set in the schedule timer programming mode.
6. **Programming Button:** This multi-purpose button is used to program the controller. The function of the button depends on the actual status of the controller or on previous actions carried out by the operator.
7. **Timer Adjust Buttons:** These multi-purpose buttons are used to adjust the clock, to toggle between temperatures (water outlet temperature of hydro-box section, outdoor ambient temperature and domestic hot water temperature) and in schedule timer programming mode.
8. **Water Temperature Adjust Buttons:** These multi-purpose buttons are mainly used to control leaving water set point for Heating/Cooling Operation. They are also used for several programming actions; schedule timer, outdoor reset and setting day of the week.

Heating/Cooling Water Set Point Range	
Heating	Cooling
59 - 131°F (15 – 55°C)	41 - 71°F (5 - 22°C)

9. **External Control Icon:** This icon indicates that the room thermostat (optional) is controlling occupied space temperature. This external room thermostat can start and stop the space heating/cooling operation and change the operation mode (heating/cooling).

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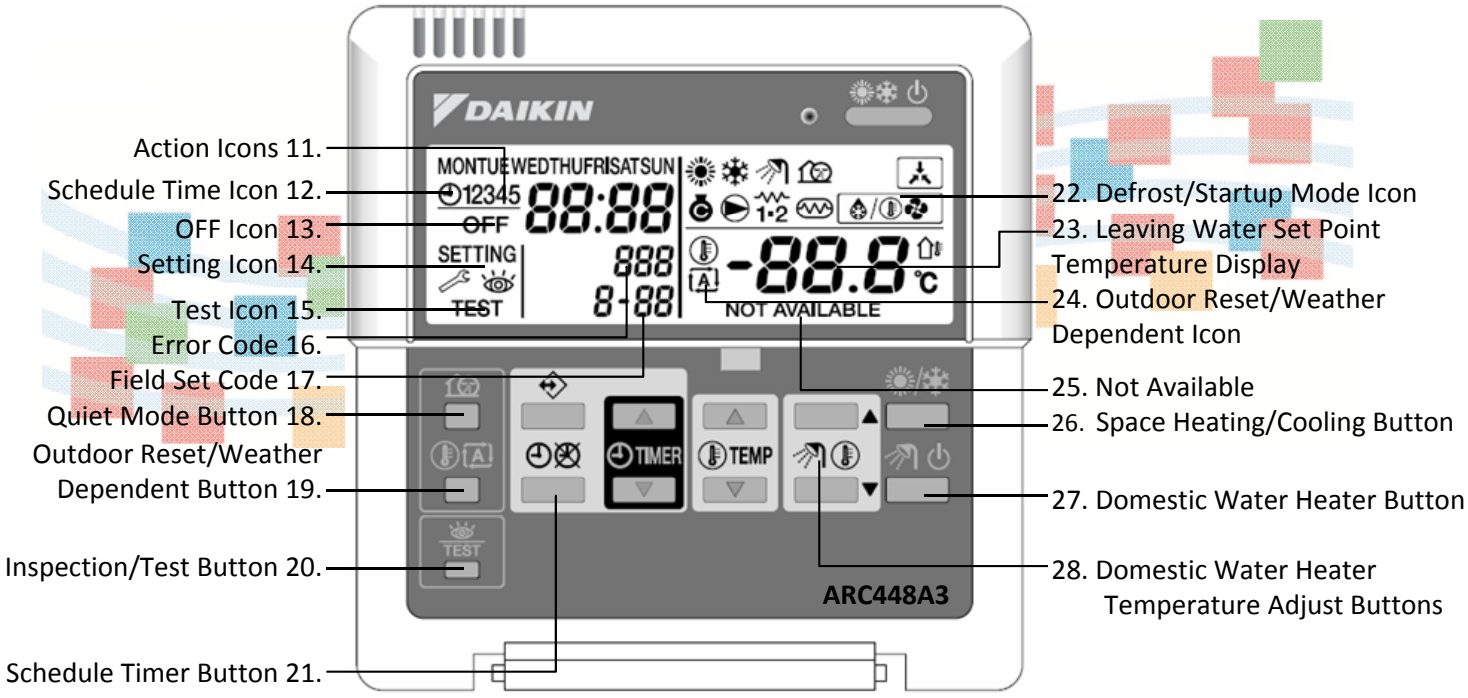

11. **Action Icons:** These icons indicate the programming actions for each day of the schedule timer.
12. **Schedule Timer Icon:** This icon indicates that the schedule timer is enabled.
13. **OFF Icon:** This icon indicates that the OFF action is selected when programming the schedule timer.
14. **Setting Icon:** Not used. For installation purposes only.
15. **Test Icon:** This icon indicates that the unit runs in test mode.
16. **Error Code:** This code refers to the error code list and is for service purposes only. Refer to the error code list in the installation manual.
17. **Field Set Code:** This code represents the code from the field set list. Refer to the "Field settings table" in Operation Manual.
18. **Quiet Mode Button:** This button enables or disables quiet mode.
19. **Outdoor Reset/Weather dependent Button:** This button enables or disables the outdoor reset set point function which is available in space heating operation only.
20. **Inspection/Test Button:** This button is used for installation purposes and changing field settings.
21. **Schedule Timer Button:** The main function of this multi-purpose button is to enable/disable the schedule timer.
22. **Defrost/Startup Mode Icon:** This icon indicates that the defrost/startup mode is active.
23. **Set Temperature Display:** The display shows the current space heating/cooling set temperature of the installation in °C or °F.
24. **Outdoor Reset/Weather Dependent Icon:** This icon indicates that the controller will adapt the temperature set point automatically, based on the outdoor ambient temperature.
25. **Not Available:** This icon is displayed whenever a non-installed option is addressed or a function is not available.
26. **Space Heating/Cooling Button:** This button allows manual switching between heating or cooling mode (provided the unit is not a heating only unit).When the unit is connected with an external room thermostat, this button is not operable and the icon External Control icon is shown.
27. **Domestic Water Heater Button:** This button enables or disables heating of the domestic water.
28. **Domestic Water Heater Temperature Adjust Buttons:** These buttons are used to adjust the current set point of the domestic hot water temperature.

Domestic Water Heater Set Point Range
77 - 176 °F (25 – 80°C)

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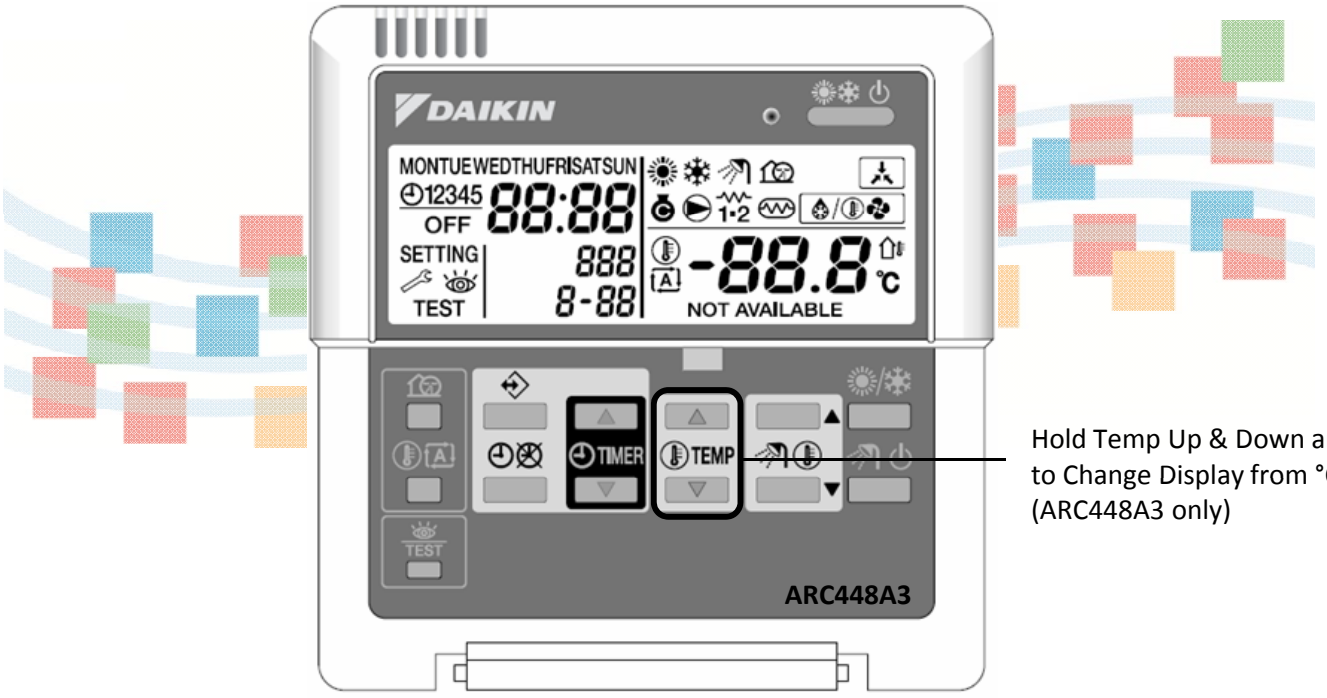

Additional Information and Settings

- Fahrenheit or Celsius can be selected on model ARC448A3 (ARC448A2 can only display Celsius)
  - To change from °C to °F press and hold the Temp Up & Down buttons for 5 seconds
  - To change back °F to °C press and hold the Temp Up & Down buttons for 5 seconds
- On board battery will maintain all settings for 2 hours, after 2 hours clock and day of week may need to be reset. All other programming will not be lost.

Temperature Conversion Chart

°C	°F	°C	°F	°C	°F	°C	°F
-20	**-4**	15	**59**	32	**90**	47	**117**
-15	**5**	16	**61**	33	**91**	48	**118**
-10	**14**	17	**63**	34	**93**	49	**120**
-5	**23**	18	**64**	35	**95**	50	**122**
0	**32**	19	**66**	36	**97**	51	**124**
5	**41**	20	**68**	37	**99**	52	**126**
6	**43**	21	**70**	38	**100**	53	**127**
7	**45**	22	**72**	39	**102**	54	**129**
8	**46**	25	**77**	40	**104**	55	**131**
9	**48**	26	**79**	41	**106**	60	**140**
10	**50**	27	**81**	42	**108**	65	**149**
11	**52**	28	**82**	43	**109**	70	**158**
12	**54**	29	**84**	44	**111**	75	**167**
13	**55**	30	**86**	45	**113**	80	**176**
14	**57**	31	**88**	46	**115**		