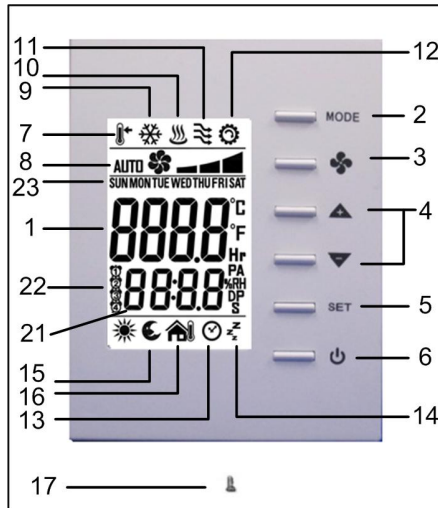


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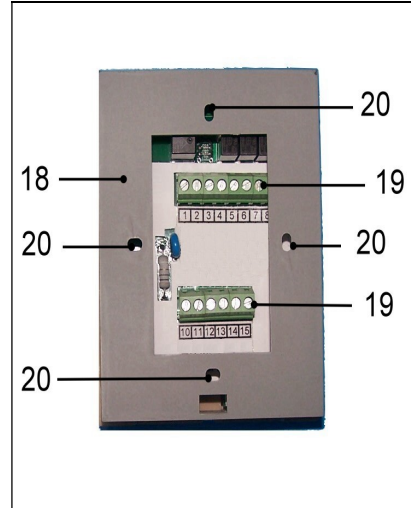
Programmable Digital 6-Port Valve and Modulating Fan Thermostats

CLIENT USER MANUAL

Front view



Back view




#	Item	Description
1	LCD	Display temperature and working status.
2	MODE button	Access to user and engineer menu and for setting confirmation or change °C/°F unit if press for over 3 sec.
3	FAN button	Toggle to change Fan mode: Auto or Continuous
4	UP & DOWN buttons	Increase & decrease setting or previous/next item
5	SET button	Setting for schedules and Timers
6	On/Off button	Turn on/ off Valve and Fan
7	Set-point icons	Displaying set-point temperature while it is flashing
8	Fan icons	Indicate Fan status
9	Flake icon	Indicate working on Cooling mode;
10	Hot spring icon	Indicate working on Heating mode
11	Flow icon	NA
12	Gear icon	Indicate cooler is ON
13	Clock	NA
14	Sleep	NA
15	Moon Sign	Indicating room is unoccupied via occupancy contact
16	Outdoor icon	NA
17	Cover screw	Screw to tighten back cover with front cover
18	Back plate	Plate for mounting on electric box
19	Wiring terminal blocks	Terminals for wiring
20	Mounting holes	Holes for mounting on electric box
21	Time	Display time
22	Schedule number	Current Schedule running or setting
23	Day	Current day of Sunday ~ Saturday or setting





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Operation









User Mode Operation

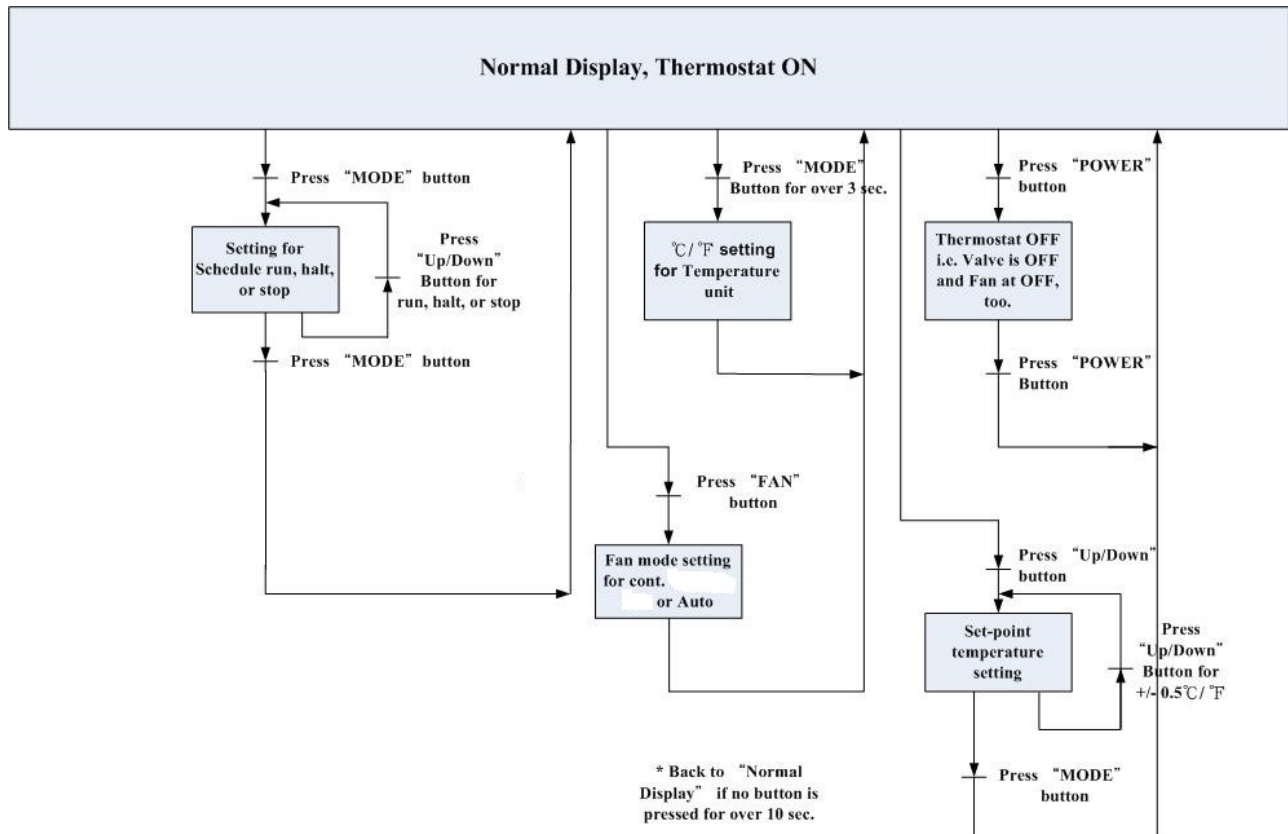
The first tier of operation includes the following settings as Figure 2. To operate:

1. Power switch  "ON" or "OFF" to start/ stop the System;
2. After switching "ON", press any button to start the User Mode operation.
 - i. Press "MODE" button to switch over different working modes. When MODE is pressed for more than 3 seconds, the unit of temperature will toggle to change to °F or °C.
 - ii. Press UP/ DOWN button to increase/ decrease or rotate the values of setting.
 - iii. Press "FAN" button to toggle over different fan modes.
 - iv. Press "SET" button to set current time-date and timer. When SET is pressed for more than 3 seconds, users can set the temperature schedules.
3. It will return to normal display with the latest setting if there's no button pressed for 10 seconds.

#	Item	Description	Remarks
1	Normal Display	Display Current Room or Set-Point Temperature and Current Time-Day.	Setting "-SP-" Parameter in Engineer Table to Choose Current Room or Set-Point Temperature.
2	Temperature Setting 	View Current Set Point or Set The Required Temperature	
3	Mode Select 	1. Select The Working Mode: (1) Run/ Halt/ Stop for Schedule 2. When MODE Is Pressed For More Than 3 Seconds, The Unit Of Temperature Will Toggle To Change To °F Or °C.	RUN: Run Schedules. HALT: Pause "Current" Schedule and Use Manual SP. STOP: Stop Using All Schedules and Use Manual SP.
4	Fan Auto/ Continuous 	1. Change Fan Mode for Auto or Continuous Mode. 2. Auto Mode Will Stop Fan Output During Dead Band 3. Continuous Mode Will Output Low Speed During Dead Band	Low Speed Can Be Set Via Engineer Table
5	Time/ Date/ Schedule Setting 	1. Set Current Time in 12- Or 24- Hour Format; 2. Set Calendar and Day of Week; 3. When SET Is Pressed for More Than 3 Seconds, Users Can Set Temperature Set Points Schedules	Press SET to Continue Settings. Press MODE, FAN, Or POWER Button to Escape Any Time During Setting.

Special:

1. Fan bar will be shown according to the fan output from low or minimum speed to 100% of max fan output.
2. The icon , , , or  will be shown on LCD while the Schedule 1,2,3, or 4 is running or being set.
3. If press "MODE" button, there are three schedule modes "RUN, HALT, and STOP" for selection.
 - a.) RUN mode means activating Schedules. And at the same time an icon ( ~ ) will be steadily shown on the LCD.
 - b.) HALT mode means temporarily pause current schedule and using manual S.P instead. And the icon ( ~ ) will be flashing on the LCD.

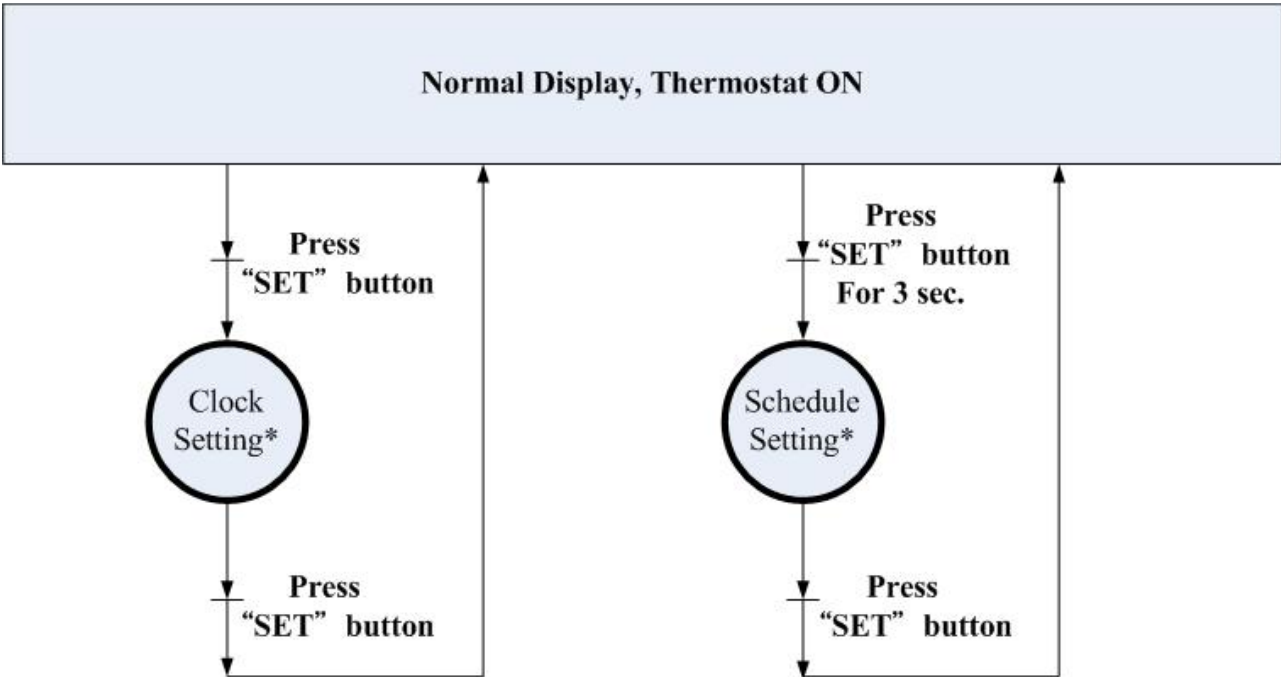


c.) STOP mode means stop to use manual S.P until manually activate schedule again. And the icon (🕒 ~ 🕒) will be NOT shown on the LCD.

Fig. 2 User Mode operation sequence

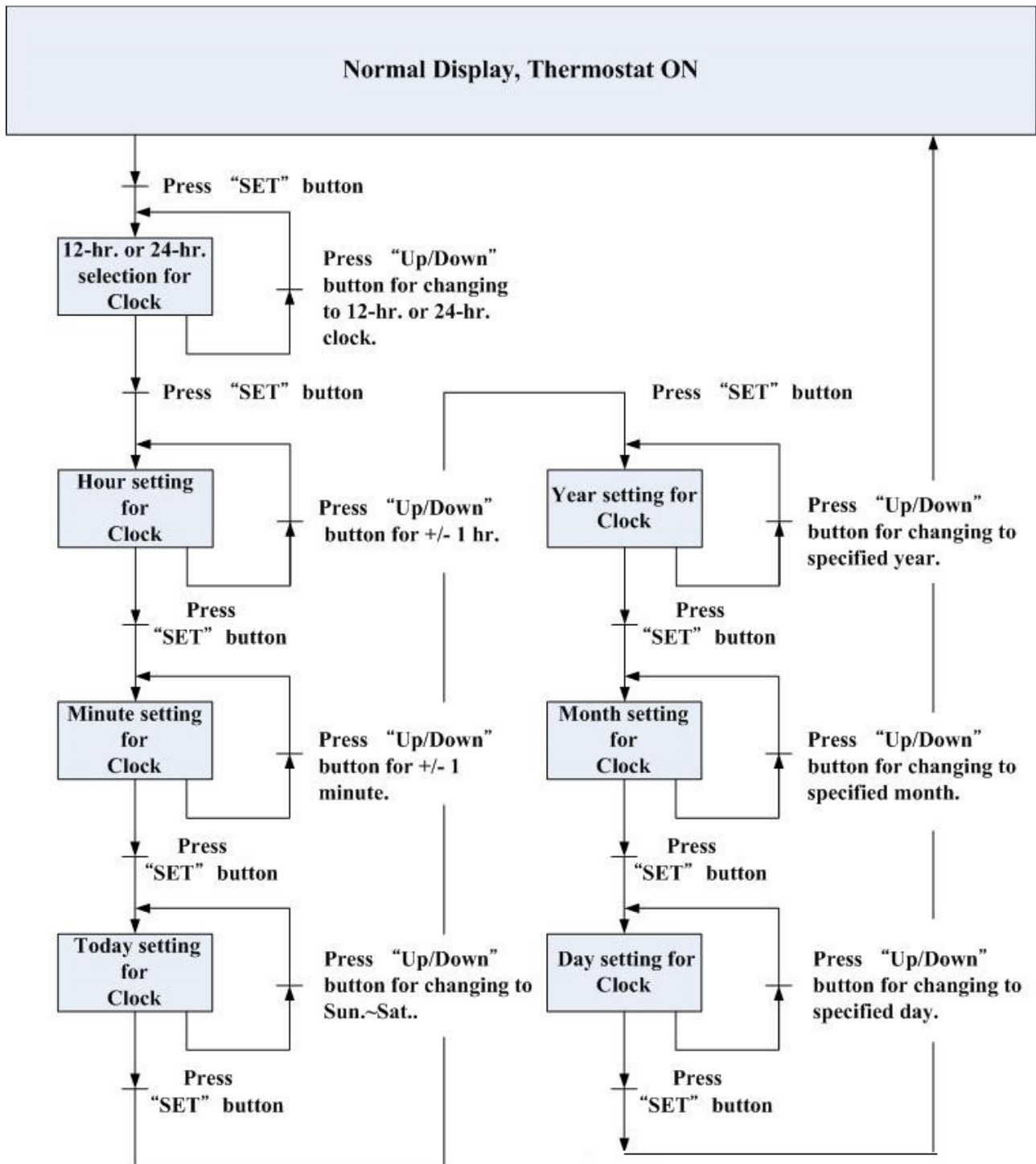
Overview for the settings of Clock and Schedules

📖 Press MODE, FAN, or POWER button to escape any time during setting.

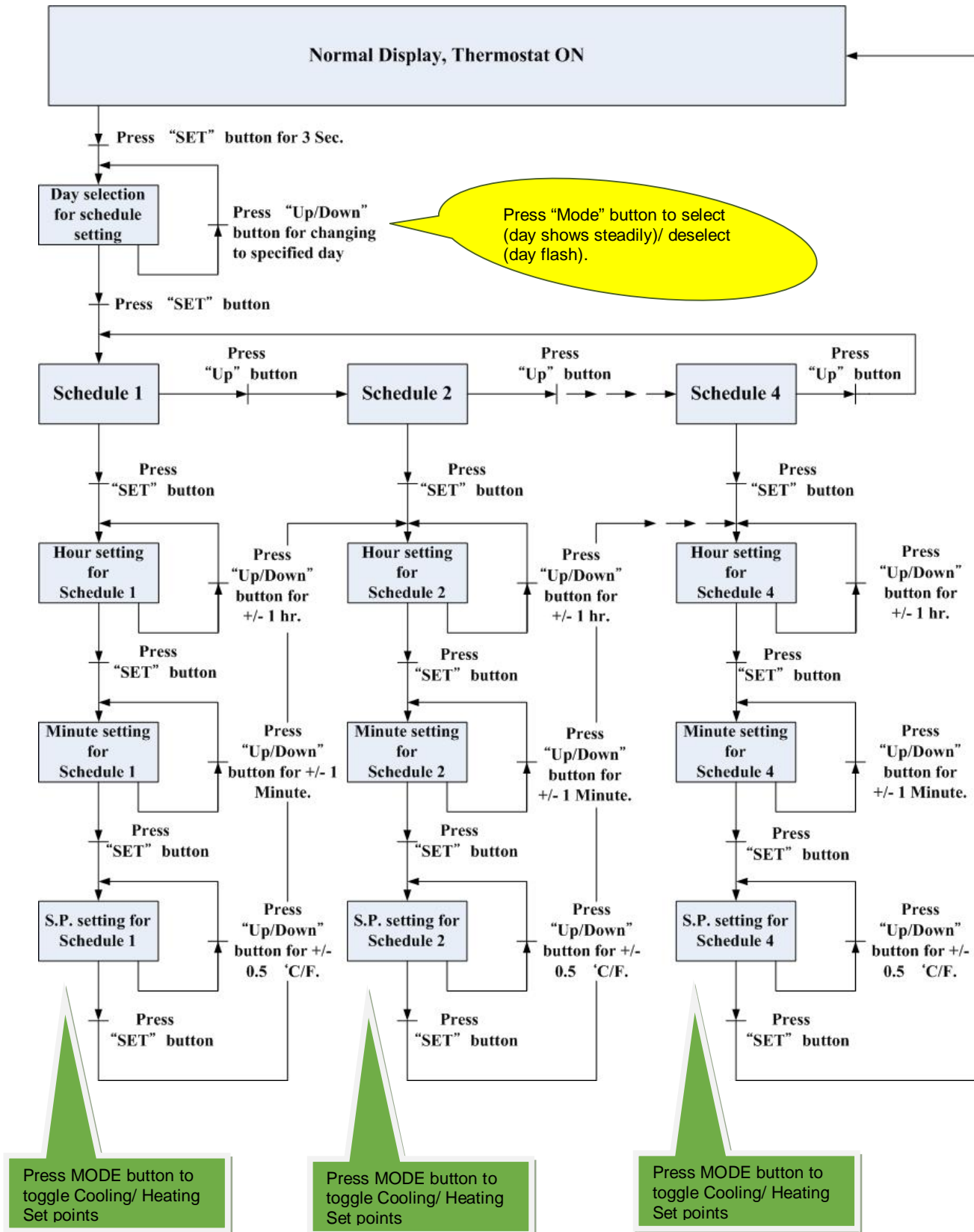


* Please refer to its related detailed state diagram respectively for details.

1. Detailed State Diagram for Clock Setting



2. Detailed State Diagram for Schedule Setting



Default Set Point Schedules

COOL	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Sch. 1 ①	6:00 26.0°C	6:00 26.0°C	6:00 26.0°C	6:00 26.0°C	6:00 26.0°C	6:00 26.0°C	6:00 26.0°C
Sch. 2 ②	8:00 29.5°C	8:00 29.5°C	8:00 29.5°C	8:00 29.5°C	8:00 29.5°C	8:00 29.5°C	8:00 29.5°C
Sch. 3 ③	18:00 26.0°C	18:00 26.0°C	18:00 26.0°C	18:00 26.0°C	18:00 26.0°C	18:00 26.0°C	18:00 26.0°C
Sch. 4 ④	22:00 26.0°C	22:00 26.0°C	22:00 26.0°C	22:00 26.0°C	22:00 26.0°C	22:00 26.0°C	22:00 26.0°C

HEAT	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Sch. 1 ①	6:00 21.0°C	6:00 21.0°C	6:00 21.0°C	6:00 21.0°C	6:00 21.0°C	6:00 21.0°C	6:00 21.0°C
Sch. 2 ②	8:00 16.0°C	8:00 16.0°C	8:00 16.0°C	8:00 16.0°C	8:00 16.0°C	8:00 16.0°C	8:00 16.0°C
Sch. 3 ③	18:00 21.0°C	18:00 21.0°C	18:00 21.0°C	18:00 21.0°C	18:00 21.0°C	18:00 21.0°C	18:00 21.0°C
Sch. 4 ④	22:00 16.0°C	22:00 16.0°C	22:00 16.0°C	22:00 16.0°C	22:00 16.0°C	22:00 16.0°C	22:00 16.0°C

- **Unoccupied Set Points:** activated by occupancy contact; Cooling: 28.0°C/ Heating: 15.0°C
- When **schedules are activated**, refer to cooling/ heating set points according to current schedule.
- When **pause or stop schedules**, refer to manual set point or latest set point as Cooling Set Point and dead band for Heating Set Point deviation.
- Scheduled Cooling Set Point range: 10.0°C ~ 37.0°C; Heating Set Point range: 4.5°C ~ 32.0°C; make sure to set heating lower than cooling set point to have proper controls.