CONFIGURATION

As THERMA V™ is designed to satisfy various installation environment, it is important to set up system correctly. If not configured correctly, improper operation or degrade of performance can be expected.

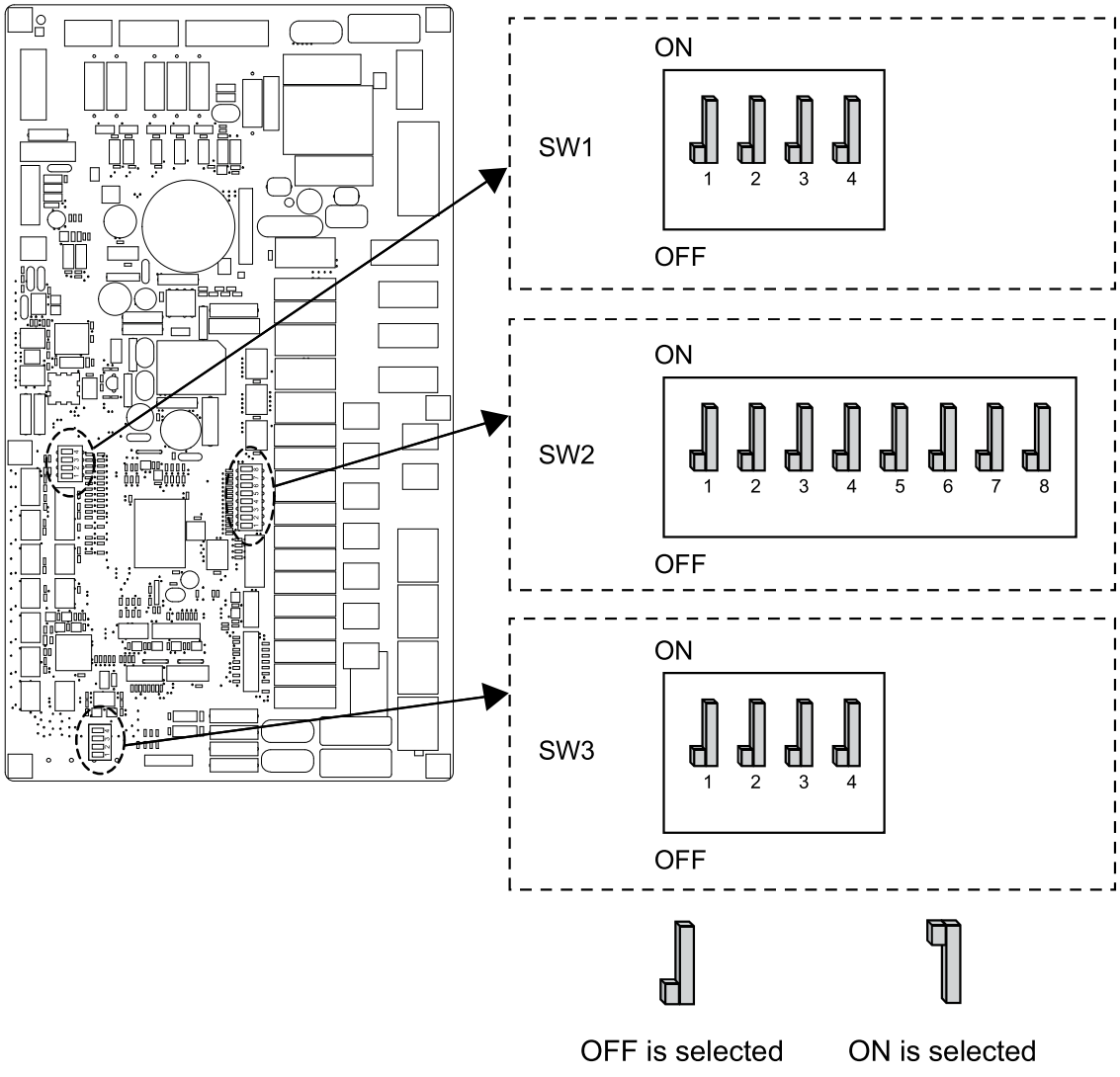
DIP Switch Setting

⚠ CAUTION

Turn off electric power supply before setting DIP switch
• Whenever adjusting DIP switch, turn off electric power supply to avoid electric shock.

General Information

Indoor PCB



DIP Switch Information

Option Switch 2

Description	Setting		Default
Role when central controller is equipped	 1	As Master	 1
	 1	As Slave	
Accessory installation information	 2 3	Unit + Outdoor unit is installed	 2  3
	 2 3	Unit + Outdoor unit + DHW tank is installed	
	 2 3	Unit + Outdoor unit + DHW tank + Solar thermal system is installed	
	 2 3	Reserved	
Cycle	 4	Heating Only	 4
	 4	Heating & Cooling	
Flow Switch Detection	 5	Always	 5
	 5	While water pump is on	
Selecting electric heater capacity	 6 7	Electric heater is not used	 6  7
	 6 7	1Ø model : Half capacity is used 3Ø model : 1/3 capacity is used	
	 6 7	Unused	
	 6 7	Full capacity is used	
Thermostat installation information	 8	Thermostat is NOT installed	 8
	 8	Thermostat is installed	

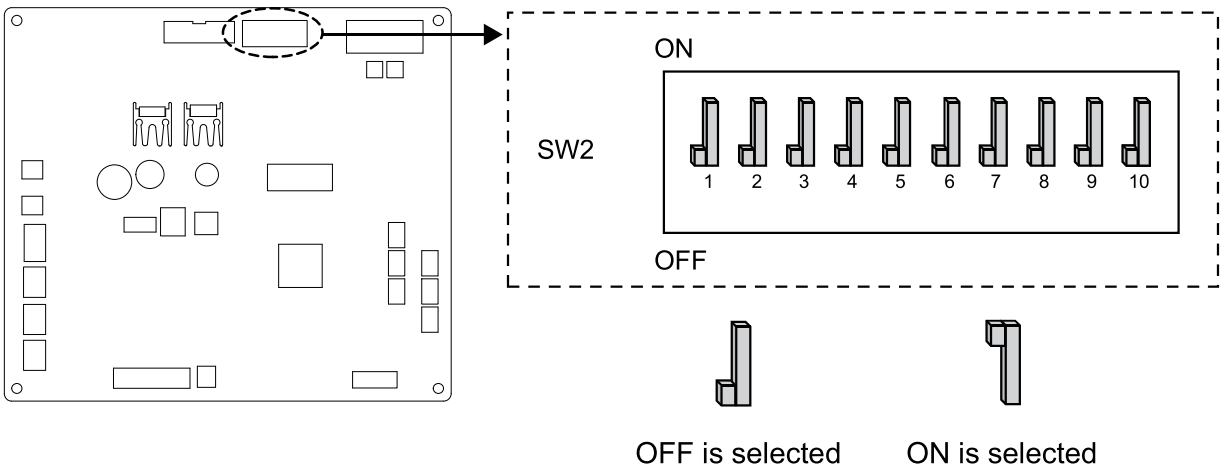
Option Switch 1

Description	Setting		Default
MODBUS	1	As Master	1
	1	As Slave	
MODBUS Function	2	Common 3rd party	2
	2	SIEMENS	
Reserved	3 3	Reserved	3
Reserved	4 4	Reserved	4

Option Switch 3

Description	Setting		Default
Remote Air Sensor	1	Remote sensor is not installed	1
	1	Remote sensor is installed	
ANTIFREEZE	2	Antifreeze mode not use	2
	2	Antifreeze mode	
Reserved	3 3	Reserved	3
Reserved	4 4	Not Use	4

Outdoor PCB General Information



DIP Switch Information

Description	Setting		Default
Low Noise Mode	2	Normal Low Noise Mode	2
	2	Limited Low Noise Mode	
Peak Control	3	Max Mode	3
	3	Peak Control : To limit maximum current (Power saving)	

❊ Only DIP-switch no. 2 and no.3 has a function. Others have no function.

❊ When setting the limited low noise mode, Mode can be exited to secure capacity after operating for a certain time.

NOTE

* Input current value can be limited by DIP Switch operation.

Capacity	Mode	Max Mode Running Current(A)	Peak Control Mode Running Current(A)
1Ø 5,7,9 kW	Cooling	23	17
	Heating	23	17
1Ø 12,14,16 kW	Cooling	35	25
	Heating	35	27
3Ø 12,14,16 kW	Cooling	15	10
	Heating	15	12

NOTE

Emergency Operation

• Definition of terms

- Trouble : a problem which can stop system operation, and can be resumed temporally under limited operation without certificated professional's assist.
- Error : problem which can stop system operation, and can be resumed ONLY after certificated professional's check.
- Emergency mode : temporary heating operation while system met Trouble.

• Objective of introducing 'Trouble'

- Not like airconditioning product, Air-to-Water heat pump is generally operation in whole winter season without any system stopping.
- If system found some problem, which is not critical to system operating for yielding heating energy, the system can temporarily continue in emergency mode operation with end user's decision.

• Classified Trouble

- Trouble is classified two levels according to the seriousness of the problem : Slight Trouble and Heavy trouble
- Slight Trouble : a problem is found inside the unit. In most case, this trouble is concerned with sensor problems. The outdoor unit is operating under emergency mode operation condition which is configured by DIP switch No. 4 of the unit PCB.
- Heavy trouble : a problem is found inside the outdoor unit. As the outdoor unit has problem, the emergency mode operation is performed by electric heater located in the unit.
- Option Trouble : a problem is found for option operation such as water tank heating. In this trouble, the troubled option is assumed as if it is not installed at the system.

• When the AWHP has any trouble,

(1) If there is not a function to judge possibility of operation :

Once an error occurs mainly in indoor unit, AWHP stops. On the other hand, Remocon allows the product to activate On/ Off operation.(On : emergency operation)

- Slight / Heavy trouble : Heating Operable only
- Critical trouble : Full stop
- Treatment priority : Critical>Heavy>Slight

(2) If there is a function to judge possibility of operation :

Depending on the status of slight / heavy / critical trouble, pop-up phrase is guided separately on display.

- Slight trouble : Heating/Cooling Operable
- Heavy trouble : Heating Operable only
- Critical trouble : Service center request

AWHP operates when user pressed OK button on pop-up window.

NOTE

- Duplicated trouble : Option trouble with slight or heavy trouble
  - If option trouble is occurred with slight (or heavy) trouble at the same time, the system puts higher priority to slight (or heavy) trouble and operates as if slight (or heavy) trouble is occurred.
  - Therefore, sometimes DHW heating can be impossible in emergency operation mode. When DHW is not warming up while emergency operation, please check if DHW sensor and related wiring are all Ok.

- Emergency operation is not automatically restarted after main electricity power is reset.
  - In normal condition, the product operating information is restored and automatically restarted after main electricity power is reset.
  - But in emergency operation, automatic re-start is prohibited to protect the product.
  - Therefore, user must restart the product after power reset when emergency operation has been running.