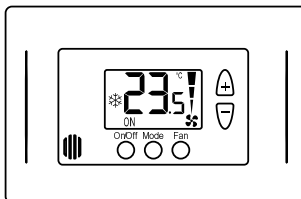# TAT-FC-SUPER3

Operating instructions and Technician settings

1. Operating instructions

1.1 Turning the unit On or Off

- Press the [On/Off] button to turn the unit On.
  The word "ON" will appear on display.
- Press the [On/Off] button to turn the unit Off.
  The word "OFF" will appear on display.

1.2 Adjusting the set-point temperature

- Press the [+] or [-] buttons – the set-point temperature will flash.
- Press the [+] or [-] again to adjust the set-point temperature.

1.3 Selecting system mode

- Press the [Mode] button to switch between system modes:

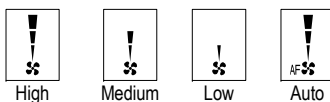| ❄	≋	❄ + ≋	🌀
Cool	Heat	Auto mode	Fan only

Notes:

- The ❄ or ≋ icons will flash with demand for cooling or heating.
- The selection of Auto mode can be disabled by technician, please refer to DIP switch configuration.
- In 2-Pipe system, with T2 change over sensor connected to the unit, the system mode selection is disabled. "bO" will appear on display when attempting to change the mode.

1.4 Selecting fan speed

- Press the [Fan] button to switch between fan speeds:

High	Medium	Low	Auto

Note: in "Auto speed" the letters "AF" and the active speed will appear on display.

1.5 Enabling or disabling "fan on demand" option

- Press and hold the [Fan] button to enable or disable fan on demand.
- When enabled, the fan will run only with demand for cooling or heating.
- The fan icon on the bottom left side if the display will flash.

  Notes:
  - Fan on demand cannot be enabled when the system mode is set to fan only.
  - Fan on demand selection can be disabled by technician, please refer to DIP switch configuration.
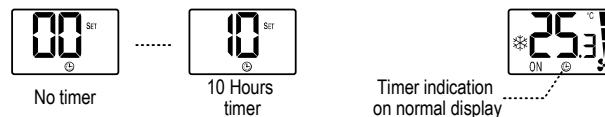
1.6 Timer

The timer will switch the thermostat ON or OFF according to the current status.

If the thermostat is ON, the timer will switch it OFF.

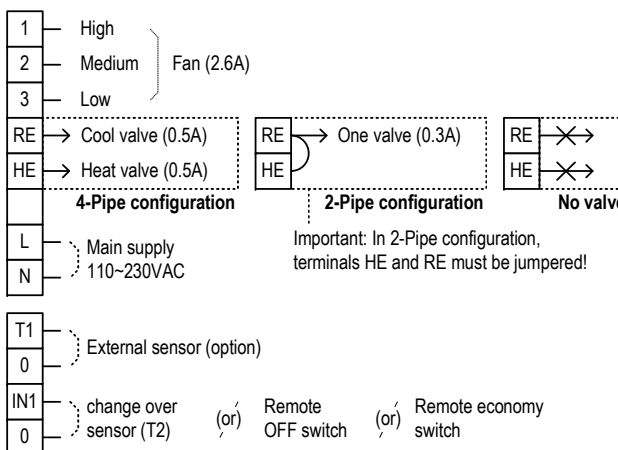If the thermostat is OFF, the timer will switch it ON.

- Press and hold the [On/Off] button for 5 seconds – the hours will appear on display.
- Use the [+] and [-] buttons to adjust the timer (range: 0-10 hours).
- Press the [Mode] button or wait 30 seconds to return to normal mode.

No timer	10 Hours timer	Timer indication on normal display

Notes:

- When active, the clock icon will appear on display.
- In order to cancel the timer, follow the steps above and set the hours to "00".
- After an electrical blackout, the timer will not function as the hours will reset to "00". The clock symbol will flash until the thermostat is turned OFF and ON.

2. Wiring connections

1	— High
2	— Medium	Fan (2.6A)
3	— Low
RE	→ Cool valve (0.5A)
HE	→ Heat valve (0.5A)

4-Pipe configuration

| RE | → One valve (0.3A) |
| HE | |

2-Pipe configuration

| RE | →✕→ |
| HE | →✕→ |

No valve

Important: In 2-Pipe configuration, terminals HE and RE must be jumpered!

| L | ⌐ Main supply |
| N | ⌐ 110~230VAC |

| T1 | ⌐ External sensor (option) |
| 0 | |

| IN1 | ⌐ change over | (or) | Remote | (or) | Remote economy |
| 0 | sensor (T2) | | OFF switch | | switch |

*For IN1,0 configuration please refer to the technician settings parameters 4.9-4.11.

3. DIP switch configuration

Before making any changes in the DIP switch disconnect power from the unit.

	ON	OFF	Default
S1	Enable Auto mode	Disable Auto mode	OFF
S2	Display set-point only	Normal temperature display	OFF
S3	Always run fan on demand*	Fan on demand - selectable	OFF

*The option to always run fan on demand must be used in no valve system.

4. Technician settings

4.1 Enter technician settings

- Adjust the set point to 10°C/50°F and wait until display stops flashing.
- Press and hold the [Mode] button (7 sec.) to enter technician settings.
- Press the [Mode] button to proceed to the next parameter.
- Press the [Fan] button to return to the previous parameter.
- Use the [+] and [-] buttons to select/adjust parameter values.
- Press the [On/Off] button or wait 30 seconds to exit technician settings and return to normal display.

4.2 Set point temperature limit for heat

- Range: 10...30°C/50...86°F, default 30°C/86°F.

4.3 Set point temperature limit for cool

- Range: 10...30°C/50...86°F, default 10°C/50°F.

4.4 Lock buttons

- "OP" - Open (enable all buttons), "LO" - Lock all buttons except [+] and [-].

4.5 Offset for calibration of temperature reading

Range: (-6)…(+6)°C/(-9.8)…(+9.8)°F, default 0°C/0°F.

4.6 Enable or disable the LCD backlight

- bL + On – The backlight is enabled, bL + Off – The backlight is disabled.

4.7 Temperature scale

- "F" blinking - °F, "C" blinking - °C.

4.8 Enable or disable Auto speed selection

- AF + On – Enable the selection of auto speed, AF + Off – Disable auto speed.

4.9 Enable or disable input IN,0

- "bF" - (IN1,0) input is disabled, "bO" - (IN1,0) input is enabled.

4.10 Input IN1,0 configuration

- "EF" - T2 change over sensor, "E1" - Remote off switch, "E2" - Remote economy

4.11 Input IN1,0 polarity (for remote off switch or remote economy switch)

- "PC" – Normally close, "PO" – Normally open.

4.12 Internal or External sensor

- "I" – Internal sensor, "E" – External sensor connected to T,0 terminals.

4.13 Economy set point for cooling

- Range: 10...30°C/50...86°F, default 30°C/86°F.

4.14 Economy set point for heating

- Range: 10...30°C/50..86°F, default 10°C/50°F.

4.15 Restore defaults

- In order to restore default values, change from "OFF" to "ON" .
- **Press the [Mode] button again or wait 30 seconds to exit technician settings and return to normal display.**