

Maintenance and logbook



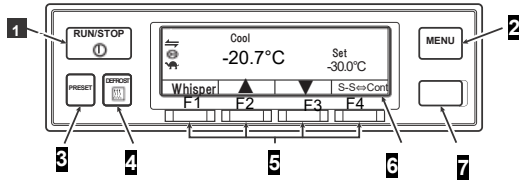
TU-Serie

MITSUBISHI 24h-Coolline
pan-European
00800 8083 8083

mitsubishi transport cooling system

Instructions for the remote control with full-dot LCD display [TU series]

This manual describes how to use the remote control with full-dot LCD display for the TU100 series. It explains the main points. If you need more detailed information, please contact your nearest dealer. This manual was created based on data available as of April 2020. Subject to change without notice.



<Standard display>

Whisper	Cool	Set
	-20.7°C	-30.0°C
Whisper	▲	▼ S-S⇔Cont

LCD display for single chamber

Whisper	A Cool	B Heating
	Set Ret -30.0°C	20.0°C
Whisper	-20.7°C	10.6°C
Whisper	Set Zone A	Set Zone B S-S⇔Cont

LCD display for dual chamber

Whisper	A Cool	B Heating	C
	Set Ret -30.0	20.0	-0
Whisper	-20.7°C	10.6	-18.5
Whisper	Set Zone A	Set Zone B	Set Zone C

LCD display for three chambers
S-S⇔Cont is not displayed.

<Function of individual elements>

- RUN/STOP button** Used to start and stop the refrigeration unit.
- MENU button** Used to select the standard display or the menu display. Used for display when the refrigeration unit is stopped.
- PRESET button** Used to select the standard display or the display of preset temperature values.
- DEFROST button** Used to start the manual defrosting process.
- Function buttons 1-4** The functions vary depending on the display.
- LCD display** Used to display the temperature inside the chamber, the setpoint temperature, the operating status, etc.
- USB port (Type B)** Used to read/write data.

<Symbols displayed on the LCD display>

- Display deviating from normal status. Lights up or flashes when an error occurs.
- Display for external communication. Lights up when communication with remote monitoring systems or similar is in progress.
- ON/OFF timer indicator. Lights up when the ON timer and OFF timer are set simultaneously.
- ON timer display. Lights up when the ON timer is set.
- OFF timer indicator. Lights up when the OFF timer is set.
- Display for active start/stop operation
- Indicator for mains power supply. Lights up when the system is connected to the mains power supply.
- Whisper mode indicator. Lights up when whisper mode (low motor speed) is selected.

1. Start and stop

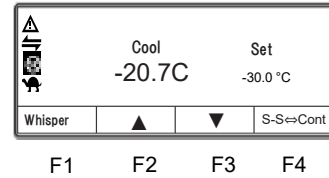
Press the RUN/STOP button "1" to start or stop.

2. Starting the manual defrosting process

Press the DEFROST button "4" once during cooling operation.

⇒3. Setting whisper mode and switching between automatic start/stop and continuous operation

- Press function key F1 (Whisper) to keep the motor running at low speed.
- Press function key F4 (S-S⇌Cont) to switch from automatic start/stop mode to continuous mode. [Single or dual chamber model]



- For a three-chamber model, the main menu must be used to switch from automatic start/stop operation to continuous operation.

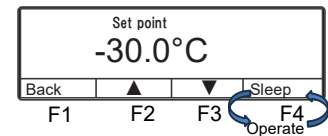
4. Setting the temperature

(1) Single-chamber model

To change the temperature, press the F2 (▲) or F3 (▼) function key, then press the F4 (Set) function key to apply the temperature setting to the standard display. (The temperature can be changed after operation has started.) Pressing the F2 (▲) function key increases the temperature in increments of 0.5°C. Pressing the F3 (▼) function key decreases the temperature in increments of 0.5°C. Pressing and holding the function keys changes the value continuously.

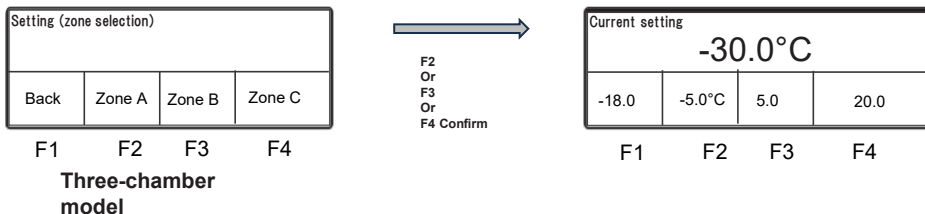
(2) Two-chamber or three-chamber model

Press F2 (Set Zone A) or F3 (Set Zone B) or F4 (Set Zone C) to select the respective chamber. After selecting the desired chamber for which the set temperature is to be changed, the procedure is the same as for the single-chamber model (see above). If operation of one of the two chambers is to be suspended, press function key F4 (Sleep). Pressing F4 (Operate) cancels the deactivation and resumes operation of the chamber.

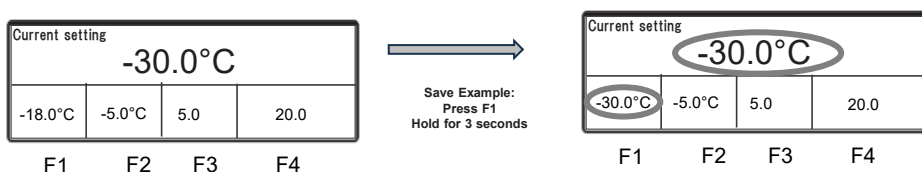


Press F2 (Set Zone A) or F3 (Set Zone B) or F4 (Set Zone C) to select the respective chamber. After selecting the desired chamber for which the setpoint temperature is to be changed, the procedure is the same as for the single-chamber model (see above). If operation of one of the two chambers is to be suspended, press the F4 (Sleep) function key. Pressing F4 (Operate) cancels the deactivation and resumes operation of the chamber. After selecting the desired chamber for which the setpoint temperature is to be changed, the procedure is the same as for the single-chamber model (see above). If operation of one of the two chambers is to be suspended, press the F4 (Sleep) function key. Pressing F4 (Operate) cancels the deactivation and resumes operation of the chamber.

(3) Selecting a preset temperature: Press the PRESET "3" key. Press function key F2 (Zone A), F3 (Zone B), or F4 (Zone C) to select the desired chamber in the case of a two-chamber or three-chamber model. Press function key F1, F2, F3, or F4 to select the desired preset temperature stored in the system.

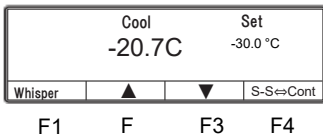


* The preset temperature stored in the system can be changed by pressing and holding the F1, F2, F3, or F4 function key for 3 seconds. (The current setting can be saved as a temperature preset.)

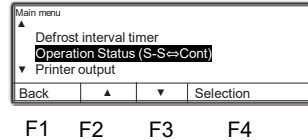
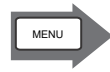


5. Using the main menu

Press the MENU button to display the main menu (see illustration on the right). In the main menu display, press the F2 (▲) or F3 (▼) function button to select the desired item, then press F4 (Select) to confirm your selection.



Standard display



Main menu display

<Selecting the operating mode>

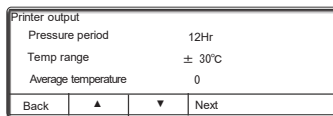
To select start/stop operation or continuous operation, press F2 (Start/Stop) or F3 (Continuous). Then press F4 (Set).



F2▲ [Main] ▼ F3

<Printer output>

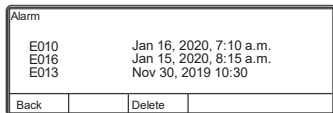
When an optional printer is connected, the temperature curve is printed out.



F2▲ [Main] ▼ F3

<Alarm list>

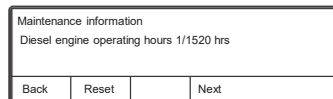
Up to 3 alarm codes are displayed together with the date on which they occurred. Alarm lists can be deleted using the F3 (Delete) function key.



F2▲ [Main] ▼ F3

<Maintenance information>

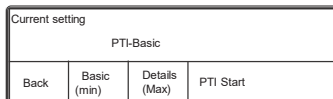
The number of operating hours and the number of uses for each device are displayed.



F2▲ [Main] ▼ F3

<Automatic self-diagnosis (PTI)>

Self-diagnosis can be performed using F2 (Basic) or F4 (Detail) and then pressing F4 (PTI Start). * Basic: duration approx. 5 minutes; Detail: duration approx. 2 hours



F2▲ [Main] ▼ F3

<Language selection>

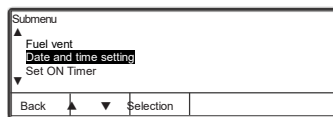
You can choose between English, French, Italian, Swedish, and German as the display language. Press the F2 (▲) or F3 (▼) function key to select the desired language. Then confirm your selection with the F4 (Set) function key.



F2▲ [Main] ▼ F3

<Submenu>

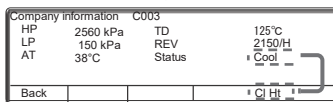
See "6. Using the submenu".



F2▲ [Main] ▼ F3

<Operating information>

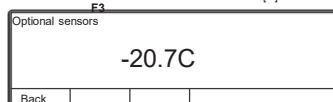
The operating status is displayed here. In the case of a two-chamber model [three-chamber model], two letters are displayed as the status, starting with chamber A and then continuing with chamber B [to C], such as Cl (cooling), Ht (heating), Df (defrosting), Sl (sleep), St (stop), Fl (failure), or Fn (fan).



F2▲ [Main] ▼ F3

<Optional Sensors>

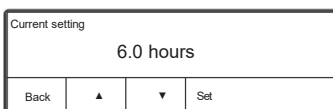
If available, the temperature measurement value of an optional sensor is displayed.



F2▲ [Main] ▼ F3

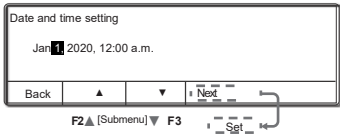
<Defrost interval setting>

The defrost interval is displayed here. Press function key F2 (▲) or F3 (▼) to select the time interval between two defrosts. Then confirm your selection with function key F4 (Set). Any value between 1 and 12 hours can be set, in increments of 1 hour.



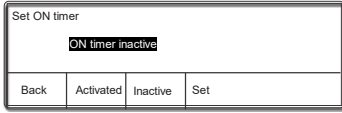
6. Using the submenu

In the submenu display, press the F2 (▲) or F3 (▼) function key to select the desired item, then press F4 (Set) to confirm your selection. (Exception: Fuel venting)



<Date and Time Setting>

This section is used to set the date (day, month, year) and the current time. Press function key F2 (▲) or F3 (▼) to confirm and set the desired day. Then press function key F4 (Next). Set the month, year, and current time in the same way and then press function key F4 (Set).

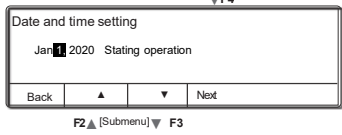


<Set ON Timer>

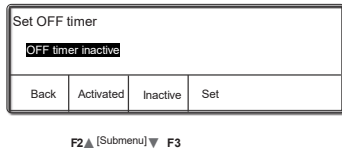
This section is used to set the date and time for the automatic start of the refrigeration unit. 1) Press function key F2 (Enable) to activate the ON timer.



2) Press function key F4 (Set) to set the start of operation.

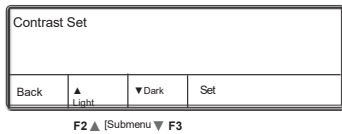


3) The calendar for the ON timer is set in the same way as the general date and time settings.



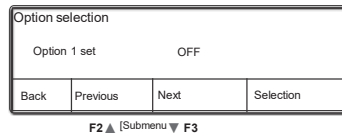
<Set OFF Timer>

This section is used to set the date and time for the automatic shutdown of the refrigeration unit. The procedure is the same as for the ON timer.



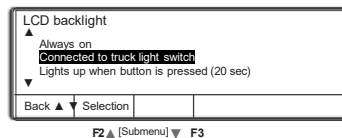
<Contrast Set>

This section is used to set the contrast of the display. The contrast can be increased with function key F2 (▲) or decreased with function key F3 (▼).



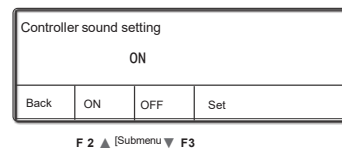
<Option Selection>

This display is for future options.



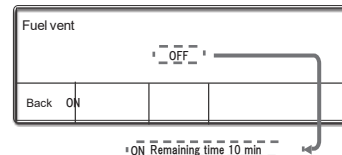
<LCD Backlight>

This section is used to adjust the backlight of the LCD display. [Connected to truck light switch], [Lights up when button is pressed (20 sec)], [Always off], [Always on]



<Controller sound setting>

In this section, the sound can be turned on or off. To select ON or OFF, press the F2 (ON) or F3 (OFF) function key. Then confirm your selection with the F4 (Set) function key.



<Fuel venting>

The remaining time for fuel venting is displayed. Pressing the F2 (ON) button activates the engine's fuel pump. This allows the fuel system to be vented.



**24-h-
SERVICE**

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