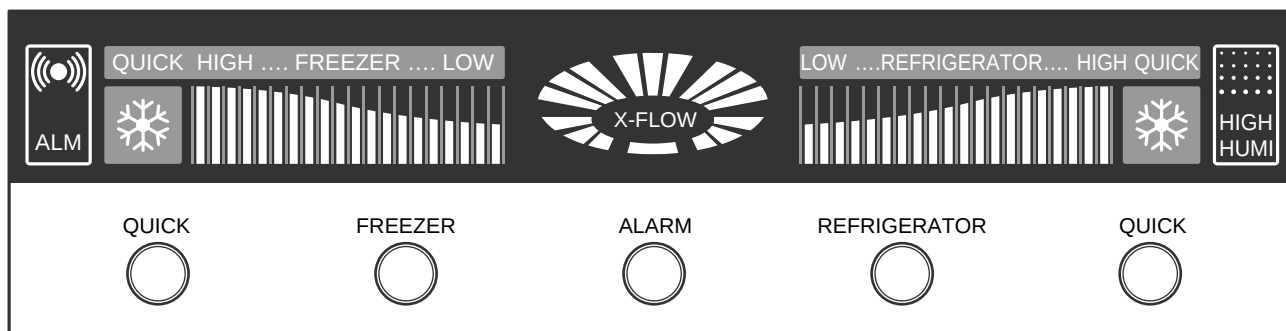
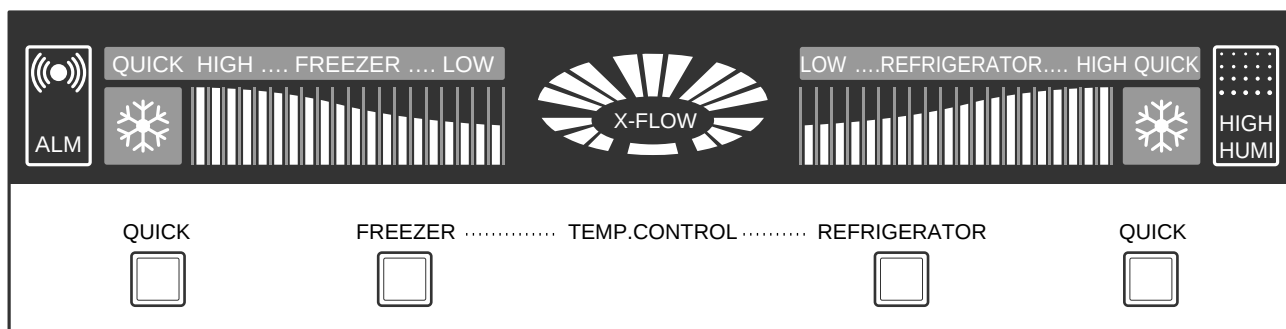




SR-L628/678EV



SR-L626/676EV

1. Temperature Control Functions

A. Temperature control in the freezing compartment

- 1) Select the 5 STEPS of 'MED'-'MED · HIGH'-' HIGH'-'LOW'-'LOW · MED' with one button.
- 2) When-ever the temperature control button of freezer is pressed, it continues to light from "MED" to "LOW · MED".
- 3) When power turns on "MED" is automatically selected.

Category	Initial power on	Pressed once	Pressed twice	Pressed 3 times	Pressed 4 times	Remark
Indicator Lamp	▶ MED	▶ MED·HIGH	▶ HIGH	▶ LOW	▶ LOW·MED	
Reference Temp.	-17.5°C	-19.5°C	-21°C	-15°C	-16.5°C	

B. Temperature control in the refrigeration compartment

- 1) Select the 5 stages of 'MED'-'MED · HIGH'-'HIGH'-'LOW'-'LOW · MED' with a button.
- 2) Whenever the temperature control button of refrigerator is pressed, it continues of light from 'MED' to 'LOW · MED'.
- 3) When power turns on "MED" is automatically selected.

Category	Initial power on	Pressed once	Pressed twice	Pressed 3 times	Pressed 4 times	Remark
Indicator Lamp	▶ MED	▶ MED·HIGH	▶ HIGH	▶ LOW	▶ LOW·MED	
Reference Temp.	3°C	1°C	-1°C	6°C	4.5°C	

C. Power freezing and power refrigeration function

- It is selected by the special power freezing · refrigeration button.
- Whenever the power freezing · refrigeration button is pressed, it repeats turning on and off.
- When power turns on at first, it is selected to off automatically.
- When the power freezing · refrigeration button is selected, the temperatures of freezer and refrigerator do not change. But, the temperatures can be set again after it is selected.

1) Power Freezing Function

- ① If power freezing is selected, COMP and F-FAN operate for 2 and 30 hours.(In 1 minute after selection)
- ② If power freezing function finishes, power freezing lamp turns off.
- ③ If power freezing function is selected, refrigerator is controlled by the fixed notch.

2) Power Refrigeration Function

- ① If it is selected, it continues until COMP and R-FAN reaches to -4°C.
- ② The power refrigeration finishes if COMP and R-FAN does not reach -4°C even though 2 and 30 hour operation.
- ③ If it is selected, refrigerator is controlled by the fixed notch.

3) When the power freezing · refrigeration are selected simultaneously

- ① Each function is carried out at the same time.

2. Alarm function

A. Button touch(Ding-Dong Sound)

- 1) When each button on the control panel is pressed, the beep sounds to confirm the key input.
- 2) The beep does not sound if wrong-touch.

B. Door open(Ding-Dong Sound)

- 1) When the door of either freezer or refrigerator is open for more than 2 minutes, the alarm rings.
- 2) The alarm rings for 10 seconds every one minute. When the door closes, the alarm goes off immediately.
- 3) Door open alarm rings when the display button is selected. But door open alarm stops immediately if the button is released.
- 4) If the alarm is selected by the button, the alarm rings regularly.
- 5) Alarm by the alarm button includes only door open.
- 6) Model SR-L676EV, SR-L626EV follows the above alarm procedure without alarm select button.

C. Forced starting · Forced defrosting (beep sound)

- 1) If the forced starting · forced defrosting are selected the beep tone sounds.
- 2) When forced starting, the beep sounds until being completed(24 hours) or released.
- 3) When forced defrosting, the beep sounds until being completed(including pause) or released.

3. Defrosting function

A. Quick defrosting function

- 1) When power turns on at first, the first defrosting is carried out after compressor operates for 4 hours.

B. Standard defrosting function

- 1) Defrosting is divided into freezer defrosting, refrigerator defrosting and natural defrosting. The defrosting of freezer and refrigerator is determined by the operation time of compressor.
- 2) Defrosting interval can vary from 6~32 hours.

C. Natural defrosting of Refrigerator

- 1) Natural defrosting is carried out if the compressor turns off and fan keeps on for some period.

4. Test function

A. Forced starting function

- 1) The test functions are designed for PCB, product test, process inspection and service activities.
- 2) The test switch is on the main PCB and when pressed once, it immediately works cooling without comp delay.
- 3) If the forced starting is selected, freezer and refrigerator notches are selected to “HIGH” and “HIGH”· MED”. Comp and F-Fan are controlled by pull-down and R-Fan is controlled by “HIGH · MED” notch.
- 4) The pull-down function of forced starting maintains for 24 hours and it returns to normal operation after defrosting(F, R) is automatically carried out.
- 5) During forced starting, all button inputs are available. Forced starting can be released when power turns on after off or by the test release mode.
- 6) During forced starting, the beep continues to sound (0.25 sec. ON / 0.75 sec OFF) until defrosting is completed.

B. Forced defrosting function

- 1) If the test button is pressed once during the forced starting, refrigerator is defrosted forcedly.
- 2) If it is pressed twice, freezer and refrigerator carry out defrosting at the same time.
- 3) When the forced defrosting is carried out, the forced starting is released and returns to normal operation.
- 4) When the forced defrosting is carried out, the notches of freezer and refrigerator maintains the notch fixed prior to forced starting.

C. Test mode release

- 1) If the test button is pressed twice during forced defrosting, the forced defrosting is canceled and returns to normal operation.
- 2) If the test release mode is selected, the buzzer will stop.

5. Self-diagnosis function

A. Self-diagnosis function with initial power on

- 1) If the power is supplied to refrigerator at first, all displays are on and self-diagnosis function is carried out.
- 2) If there is no defect on MICOM, display returns to the initial normal mode(“Med”–“HIGH humidity”–“Alarm”).
- 3) If there is defect, the relevant display lights off with the sound of the beep.
- 4) Self-diagnosis error indicator might disappear when defect is repaired or self-diagnosis function is released.
- 5) If defect is repaired, display returns to normal mode.
- 6) Self-diagnosis function is canceled when “power freezing” button and “power refrigeration” button are pressed for 5 seconds at the same time. Display returns to normal mode.

B. Self-diagnosis function during normal operation

- 1) Press “power freezing” button and “power refrigeration” button for 5 seconds at the same time during normal operation.
- 2) The temperature LEDs of freezer and refrigerator repeats 1 second on / off 3 times.
- 3) If any button is not pressed until the temperature LED repeats on / off 3 times, self-diagnosis function is carried out. If there is no defect, it returns to normal mode.
- 4) If there is defect, the corresponding display will light up and buzzer will beep.
- 5) Self-diagnosis error indicator works for 30 seconds and returns to normal mode regardless of defect correction.
- 6) Key input is not available during self-diagnosis function.
- 7) When there is defect, the corresponding display is shown as initial power on.

No	Item	Display LED	Symptom	Remark
1	R1-Sensor	Refrigerator "LOW"	• R-room left sensor housing disconnection. • Faulty connection. • Wire open or short. • Faulty sensor.	R1-Sensor temperature is over +50°C or below –50°C.
2	R2-Sensor	Refrigerator "LOW · Med"	• R-room left right sensor housing disconnection. • Faulty connection. • Wire open or short. • Faulty sensor.	R2-Sensor temperature is over +50°C or below –50°C.
3	RD-Sensor	Refrigerator "Med"	• R-room defrost sensor housing disconnection. • Faulty connection. • Wire open or short. • Faulty sensor.	RD-Sensor temperature is over +50°C or below –50°C.
4	Air-Sensor	Freezer "LOW"	• Outer sensor housing disconnection. • Faulty connection. • Wire open or short. • Faulty sensor.	Outer-Sensor temperature is over +50°C or below –50°C.
5	F-Sensor	Freezer "LOW" · Med"	• F-room sensor housing disconnection. • Faulty connection • Wire open or short. • Faulty sensor.	F-Sensor temperature is over +50°C or below –50°C.
6	FD-Sensor	Freezer "Med"	• R-room defrost sensor housing disconnection. • Faulty connection. • Wire open or short. • Faulty sensor.	F-Sensor temperature is over +50°C or below –50°C.
7	Geared-Motor	Refrigerator "HIGH"	• Faulty geared-motor • Faulty reed-switch housing disconnection. • Faulty connection.	Square wave not detected by reed-S / W.

(Self-diagnosis Display Table)

C. Load status display

- 1) When “power freezing” button and “power refrigeration” button are pressed for 5 seconds during normal operation, it is activated by the refrigeration button while temperature setting display repeats on / off 3 times.
- 2) Load which output of micom is displayed on LED.
- 3) Load status display maintains for 60 seconds and returns to normal operation.

No	Item	Display LED	Display
Freezer Subordinate			
1	COMP	Freezer “LOW”	Relevant LED ON during comp operation
2	F-FAN	Freezer “LOW · Med”	Relevant LED ON during F-FAN operation
3	Freezer defrost Heater	Freezer “Med”	Relevant LED ON during freezer defrost heater on
4	Freezer bulb	Freezer “Med · HIGH”	Relevant LED ON during freezer bulb ON
Refrigerator Subordinate			
5	R-FAN	Refrigerator “LOW · Med”	Relevant LED ON during F-FAN operation
6	Refrigerator defrost Heater	Refrigerator “Med”	Relevant LED ON during refrigerator defrost
7	Refrigerator bulb	Refrigerator “Med · HIGH”	Relevant LED ON during refrigerator bulb ON
8	GEARED-Motor	Refrigerator “HIGH”	Relevant LED ON during refrigerator brade rotation
Mode Display			
9	Initial Mode	Quick Freezing	Relevant LED ON with initial power input
10	Overload	Quick Refrigeration	Relevant LED ON when ambient temperature is over 35°C
11	Low temp.	High humidity refrigeration	Relevant LED On when ambient temperature is below 20°C

(Load Status Display Table)

6. Option function

1) Freezer Temperature Shift (Unit °C)

SHIFT	14	13	12	11	SHIFT	14	13	12	11
Reference	0	0	0	0	+0.5	1	0	0	0
-0.5	0	0	0	1	+1.0	1	0	0	1
-1.0	0	0	1	0	+1.5	1	0	1	0
-1.5	0	0	1	1	+2.0	1	0	1	1
-2.0	0	1	0	0	+2.5	1	1	0	0
-2.5	0	1	0	1	+3.0	1	1	0	1
-3.0	0	1	1	0	+3.5	1	1	1	0
-3.5	0	1	1	1	+4.0	1	1	1	1

2) Refrigerator Temperature Shift (Unit °C)

SHIFT	18	17	16	15	SHIFT	18	17	16	15
Reference	0	0	0	0	+0.5	1	0	0	0
-0.5	0	0	0	1	+1.0	1	0	0	1
-1.0	0	0	1	0	+1.5	1	0	1	0
-1.5	0	0	1	1	+2.0	1	0	1	1
-2.0	0	1	0	0	+2.5	1	1	0	0
-2.5	0	1	0	1	+3.0	1	1	0	1
-3.0	0	1	1	0	+3.5	1	1	1	0
-3.5	0	1	1	1	+4.0	1	1	1	1

- 1) Method :
- The temperature of the freezer and refrigerator can be compensated from +4.0 to –3.5°C.
 - Reference : Freezer (–17.5°C)
Refrigerator(+3.0°C)

- As above table
- Shift No 1, 2, 3, 4 are designed to compensate freezer temperature (PCB D601, D602, D603, D604)
 - Shift No 5, 6, 7, 8 are designed to compensate refrigerator temperature (PCB D605, D606, d607, D608)
 - “0” means non-diode (IN4148)
“1” means diode

* Temperature is compensated with power input after diode connects to the option table.