SBS DELIVERY/ INSTALLATION *MANUAL*

SAMSUNG ELECTRONICS

RS261M**

- MONO COOLING SYSTEM
- MULTI FLOW SYSTEM
- NEW DESIGN DISPENSER
- LED LIGHTING

Contents

1. Product Information

1.1 Model Specification &Specification Chart

Item		Specification
Model		RS261M**
Net Capacity	Total	25.12 cu.ft
	Refrigerator	15.68 cu.ft
	Freezer	9.44 cu.ft
Net Dimension (W×D×H)		36inch x 36.2inch x 69.9inch
Rated Input voltage and Frequency		AC 115V/60Hz
Motor Rated Consumption Power		160 W
Electric Heater Rated Consumption Power		305 W
Type of Refrigerator		No Frost cooling Refrigerator
Refrigerant		R134a
Refrigerant Input Amount		7.41oz
Product Weight		277.8 lb

1. Product Information

1.1 Model Specification &Specification Chart

Items				Specification	
Models				RS261M**	
Components for Freezer	Compressor		Model	MK172D-R2U/SM1	
			Starting type	R.S.C.R	
			Oil Charge	FREOL α-10	
	Evaporator		Freezer	SPLIT FIN TYPE	
			Refrigerator	-	
	Condenser			Forced and natural convection type	
	Dryer			Molecular sieve XH-9	
	Capillary tube (Dia × Length)			0.033 "×130 "	
	Refrigerant			R134a	
Room Temperature Sensor Components	Freezer	Model	Temperature Selection	ON(°F)	OFF(°F)
		THERMISTOR (F-SENSOR) 502AT	bar 7 (-5.8 °F)	-5.8 °F	-13 °F
			bar 4 (-4 °F)	-0.4 °F	-7.6 °F
			bar 1 (5.0 °F)	8.6 °F	1.4 °F
	Refrigerator	Model	Temperature Selection	ON(°F)	OFF(°F)
		THERMISTOR (R-ENSOR) 502AT	bar 7 (32 °F)	33.8 °F	30.2 °F
			bar 4 (35.6 °F)	37.4 °F	33.8 °F
			bar 1 (44.6 °F)	46.4 °F	42.8 °F

1. Product Information

1.1 Model Specification &Specification Chart

Items				Specification
Models				RS261M**
Defrost Related Components	Defrost Cycle	First Defrost Cycle (Concurrent defrost of F and R)		4 hr ± 10 min
		Defrost Cycle (FRE)		16~40hr (vary according to the conditions used)
		Pause time		10 ± 2 min
	Defrost Sensor	F Defrost-Sensor	Model	THERMISTOR (502AT)
			SPEC	5kΩ@77 °F
	Bimetal	Rated		AC 125V / 6A
		Operating temperature		Off : 140± 9 °F, On : 104± 18 °F

1. Product Information

1.1 Model Specification &Specification Chart

Items			Specification
Models			RS261M**
Electric Components	Defrost Heater (FRE)	Conducting at F Defrosting	AC 120V,300W
	DISPENSER Heater	Interlock with F-FAN	AC 120V, 6W
	Damper Heater		DC12V, 1W
	Thermal Fuse for preventing Overheating of Refrigerator Defrost-Heater		AC 120V / 15A , 170.6±9 °F
	Condenser for COMP (Package type)	Running	12μF,250V
		Starting	-
	Starting-Relay	Model	PTHTM100MD3
		Operation	10Ω±20%
	Over load Relay	Model	4TM435RFBYY-53
		Temp. ON	266 ± 9 °F
		Temp. OFF	141.8 ± 16.2 °F

어떤 의미 인지요?
F-fan 과 F-DEF H/T
사이에는 Interlock 회로
없는데요..

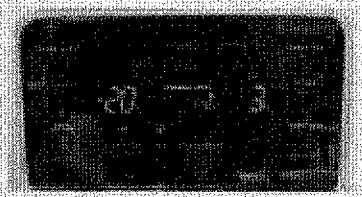
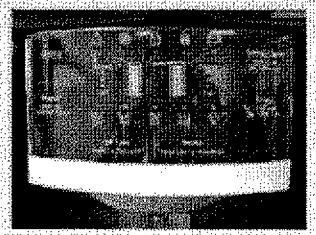
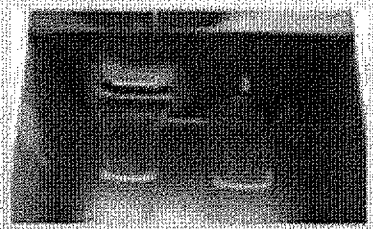
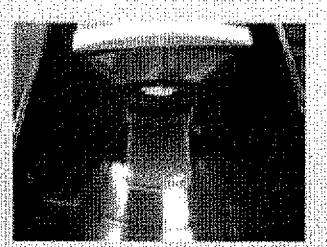
1. Product Information

1.1 Model Specification &Specification Chart

Items			Specification
Models			RS261M**
Electric Components	Rated Voltage		AC 115V/60Hz
	MOTOR-BLDC(FRE)		DC12V/DREP3030 LA
	MOTOR-BLDC (Circuit)		DC12V/DRCP3030 LA
	Lamp (FRE)		DC12V (6EA)
	Lamp (REF)	UPPER	DC12V (6EA)
		LOWER	DC12V (3EA)
	Door Switch (Reed Switch)		DC200V 0.5A
	Power cord		AC125V 15A
	Earth Screw		BSBN (BRASS SCREW)

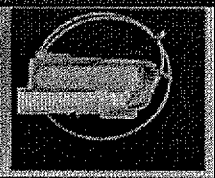
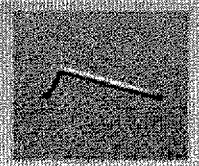
1. Product Information

1.2 New feature

NO	ITEM	Newly developed part & feature	RS277**	RS261M**
1	Display	New Design		
2	CASE LEVER	One Lever		

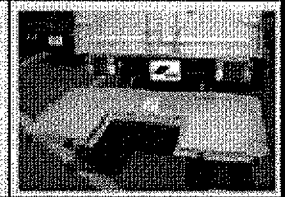
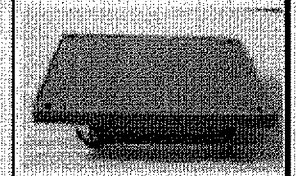
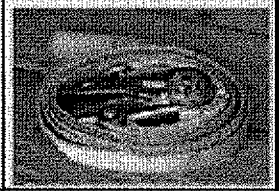
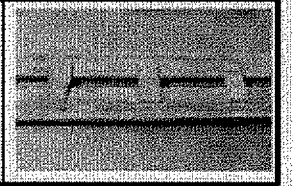
1. Product Information

1.3 ACCESORIES

ITEM	PART NAME	Purpose	Q'TY	REMARK
	WATER FILTER ASSY	Purify the water	1	RS26**D**
	HEXA LAUNCH	Leveling the doors	1	ALL Model
	ADAPTER	Adapter for connecting the water hose to the Water source.	1	ALL Model
	COUPLER	Check valve inside the cover leg	1	ALL Model

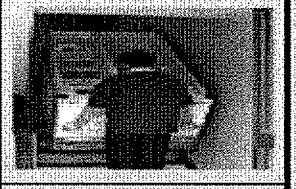
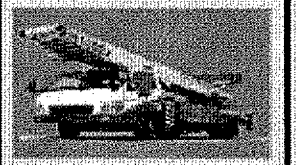
2. How to carry

2.1 Equipments

NO	ITEM	PURPOSE	SPEC	QNT'Y	CHECK	PICTURES
1	LIFT GATE	Loading/unloading Lift	Hydraulic Lifter	1	Everyday	
2	Dolly	After unloading the unit from the truck, move the unit on this dolly	460*750mm (18.2 * 29.6 inch)	1	Everyday	
3	Fixing rope	To fix the units while it's moving on the way to customers	25mm * 5 M (1 *196.9 inch)	1	Everyday	
4	Wooden protector	When unloading, protect the units from damages		2	Everyday	

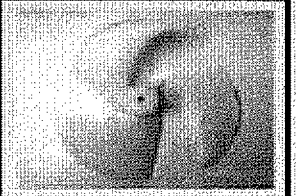
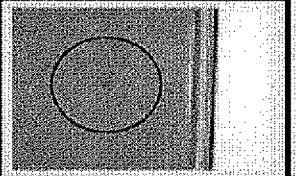
2. How to carry

2.2 How to access

NO	Surrounding	How to carry	PICTURES
1	Plan ground	- carrying the unite by two persons - using dolly, carry the unit in to the customer's house - be careful not to be damaged	
2	Ladder car cannot access	- check the path width - using a kind of protector, units should be moved by two people	
3	Ladder car can access	- check the path - apply a proctor to the ladder not to damage the unit	
4	Elevator	- check the path width - in case of narrow path, recommended to remove the both doors	

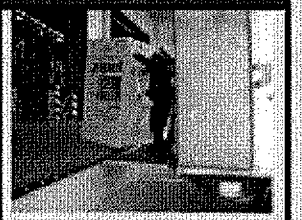
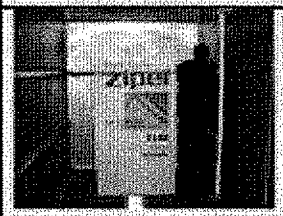
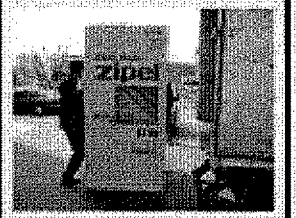
2. How to carry

2.3 Possible damages

NO	CAUSE	DAMAGE	PICTURES
1	Dropping damage	- dropping shock owing to careless unloading the delivery man didn't use the lift gate	
2	Dropping damage	- dropping shock owing to careless unloading the delivery man didn't use the lift gate	
3	Dents, Scratches	- scratched by narrow path or projecting stuff	

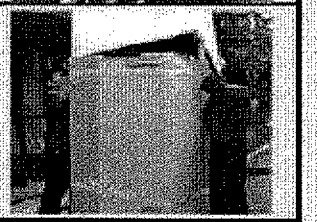
2. How to carry

2.4 Precautions

NO	PRECEDURES	PRECAUTIONS	PICTURES
1	Loading	- Recommend to use lift car - carrying the units by two persons - be careful not to drop and got dents from the cargo	
2	On the way to customer	- tighten the unit by bend - be careful not the band to damage the units	
3	Unloading	- Recommend to use lift car - carrying the units by two persons - be careful not to drop and got dents from the cargo	

2. How to carry

2.5 Remove the packs

Surroundings	How to open	PICTURES
Open place : no obstacles Easy to lift up the carton box	- lift up the carton box - fully recommended performed by two persons	
	- step removing the box can cause some scratches on the edge of the refrigerator top	

3. How to install

3.1 Installation process

SALE

DELIVERY DATE

HOUSE STRUCTURE CHECK

DELIVERY

INSTALLATION

OPERATION CHECK

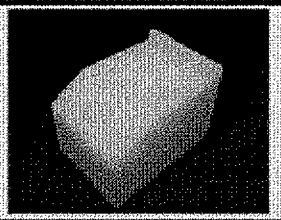
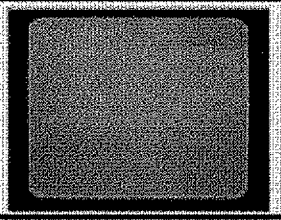
INFORMATION OF FUNCTION/USE

COLLECTION OF OLD PRODUCT

COMPLETION

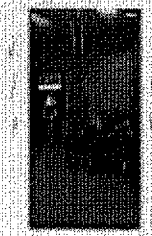
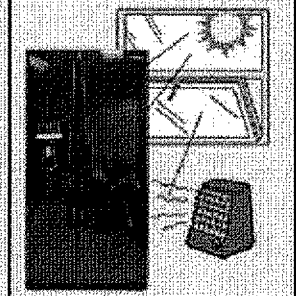
3. How to install

3.2 Installation parts

ITEM	PURPOSE	HOW TO USE	CAUTIONS	PICTURES
Level Jig	To stabilize the unit While leveling it	After putting into its own location, just lift up the unit a little and insert the JIG	Before remove the JIG the front legs should settle on the floor entirely	
Level support	To prevent sink of the units after installation.	The floor is not even more then 4.5mm (0.18 inch)	certainly check whether the units are shaken	

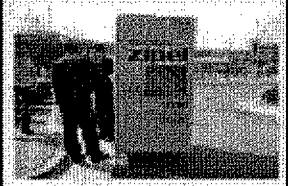
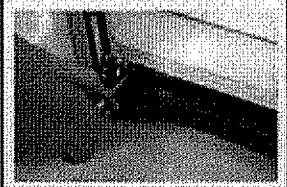
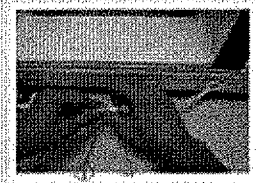
3. How to install

3.3 Selecting a good place

NO	PRECEDURES	HOW TO DO	PICTURES
1	Checking the surroundings	- Check if the floor is leveled. If the floor is not leveled, it causes vibration and noise, and when opening/closing the doors, the refrigerator could be tipped over resulting in personal injuries.	
2	Selecting the place	- give enough gaps between the unit and the walls - For dispenser models, select a place easy to access the water supply with little humidity. - Keep it away from places with direct sun light, much heat or too low temp. A place with a surrounding temp ranging from 5℃ to 43℃ is recommended. A place with too high/low temps causes problem and affects cooling power.	

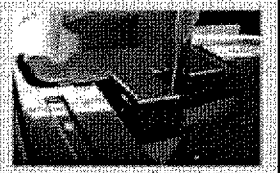
3. How to install

3.4 How to dismantle the doors

NO	PRECEDURES	HOW TO DO	PICTURES
1	Space Procurement	Secure enough space to remove the packaging box.	
2	Removing packing box	Be careful not to scratch the product with EPS or Angle and make sure to check the outer appearance after removing all packaging materials.	
3	Disassembling Front Cover	Open the F/R-Doors, remove the Front Cover screws (3ea) by turning them counter-clockwise.	
4	Disassembling Water supply line	Removing the Water supply line. 1.Separate the Water Supply Line From the Refrigerator by pressing the coupler(2) 2.Pulling the water tube(1) away	

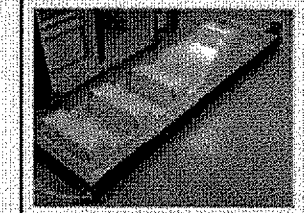
3. How to install

3.4 How to dismantle the doors

NO	PRECEDURES	HOW TO DO	PICTURES
5	Disassembling Cover Hinge	Remove the hinge cover screw with a Phillips screwdriver and disassemble the cover	
6	Disassembling Connector	Disassemble connectors (2ea)	
7	Disassembling Hinge Up	Disassemble the hinge. Make sure not to damage the wires ※ Be careful not to drop the door falling forward.	
8	Disassembling Door	Disassemble by lifting up the Door more than 20cm so as not to damage the hose.	

3. How to install

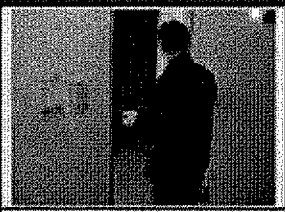
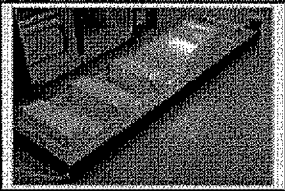
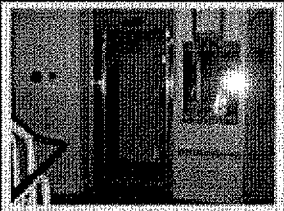
3.4 How to dismantle the doors

NO	PRECEDURES	HOW TO DO	PICTURES
9	Storing Door	Lay down the separated door not to bend the water supply hose.	

The way to dismantle the ref doors is same to FRE door's

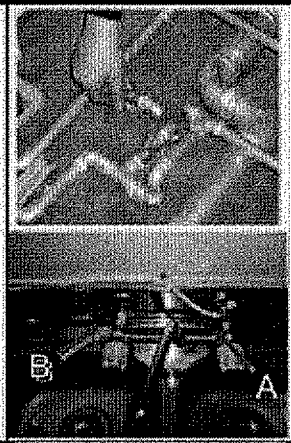
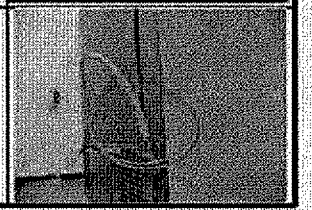
3. How to install

3.5 Transporting to the installation place

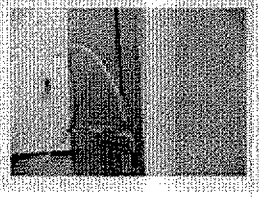
NO	PRECEDURES	HOW TO DO	PICTURES
1	Check the size of the entrance	Before moving in the ref, check the size of the elevator and the main entrance.	
2	Delivering Doors	Deliver the F/R-Doors first. Make sure not to scratch surfaces and bend the water supply hose.	
3	Delivering Body	To prevent side walls from scratches, reuse the packing materials during delivery. Upon delivery, make sure to work by 2 personal as a team.	

3. How to install

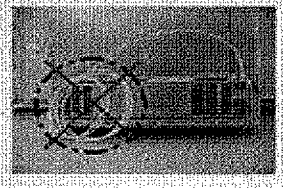
3.6 How to connect the water

NO	PRECEDURES	HOW TO DO	PICTURES
1	Connect connectors and valves to the water supply line.	- Close the water tube main valve. - Connect the connector "A" & "B" to the water supply line. - Connect the water valve to the connector "A" - Wind sealing tapes on all the connection areas. - If there is one water supply line, connect the connector "A" only.	
2	Fix Water Pipe Tube	- With a C/F clip, fix the water pipe hose to the ref wall. Make sure that the water pipe hose is not bent or stepped on when making the water pipe neat.	

Example of Good Installation
(No coiled hose, Backup tube added, Water hose does not touch on the floor.)

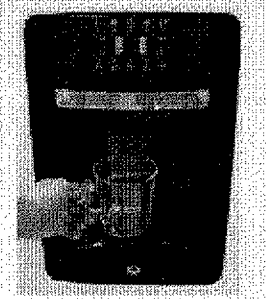


Example of Bad Installation
(Coiled hose, No backup tube, Water hose touched on the floor)



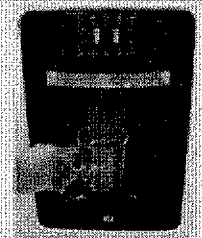
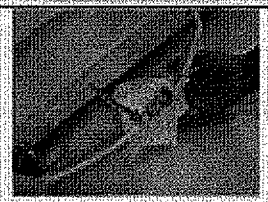
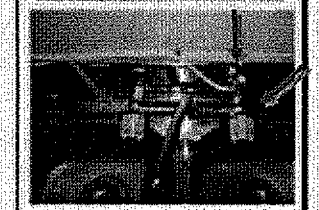
3. How to install

3.6 How to connect the water

NO	PRECEDURES	HOW TO DO	PICTURES
3	Remove remaining water in the water filter	- Check if water comes out from the water dispenser by opening the water tube main valve. (First, Press water button and Push the lever) - If water does not come out with the main valve opened, check if the water tube main valve is open. - Let water pass for 3 gallons (Flush approximately 6minutes) until clean water comes out. - The water inside remained during the filter manufacturing process. It's not a problem.	

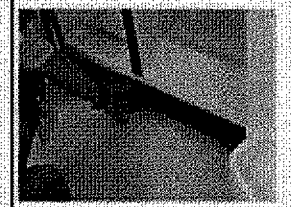
4. Check the installation status

4.1 water leak check

NO	PRECEDURES	HOW TO DO	PICTURES
1	Check if water is supplied well.	- After turning on the ref, press the Water button and press the Lever until water comes out (for 3~4 min) Press continuously until air does not come out of the hose.	
2	Check water leakage at the connections.	-Check water line is inserted to the marked line.  - Check each connection area for water leakage with cloth or cleaning tissue.	 

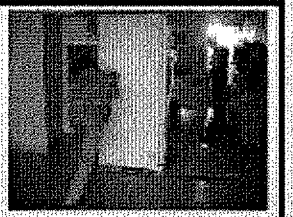
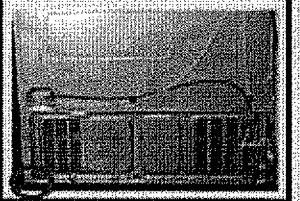
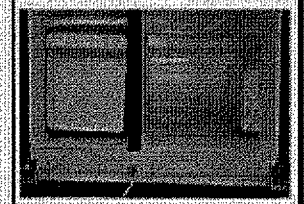
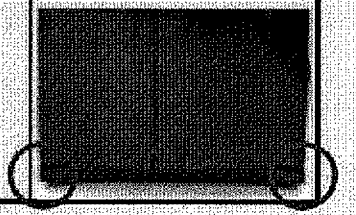
4. Check the installation status

4.1 water leak check

NO	PRECEDURES	HOW TO DO	PICTURES
3	Front Cover Assembly	- Assemble the Front cover to complete the job.	

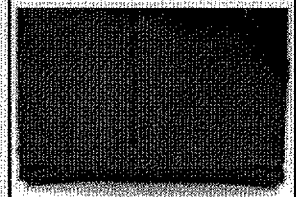
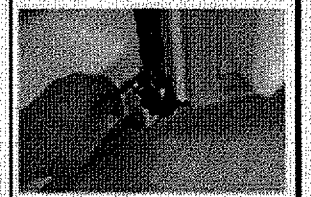
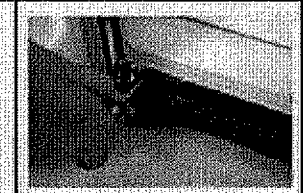
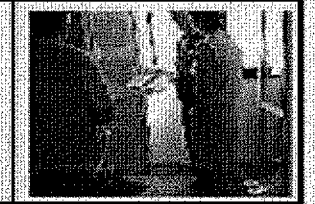
4. Check the installation status

4.2 Check the door level and adjust

NO	PRECEDURES	HOW TO DO	PICTURES
1	Put the unit on its installation place	- under the roof, they should use rug or mat to prevent the floor damage. ※ the installer should select a proper location.	
2	Check the floor even	- If the back of the ref is not leveled, there will be diagonal defect. So, make sure to put a hard insertion (ex: wooden block, plastic bar) on the lower floor, fix it with sticky tapes and level it.	
3	Insert leveling JIG	- to let the both rear caster touch the floor, lift up a little the unit and insert the JIG	
4	Adjust the front legs	- using a flat driver, let the legs touch the floor	

4. Check the installation status

4.2 Check the door level and adjust

NO	PRECEDURES	HOW TO DO	PICTURES
5	Remove the leveling JIG	- settle the unit entirely, pull out the JIG	
6	Level the doors	- turn the adjusting screws clockwise or count clockwise, make the door level even ※ make sure that the lock nut on adjusting screw entirely fixed.	
7	Assemble the leg cover	- screw the cover leg	
8	Explain to customer how to use properly.	- explain how to use temp controller, dispenser, no defect cases, how to purchase the accessories.	

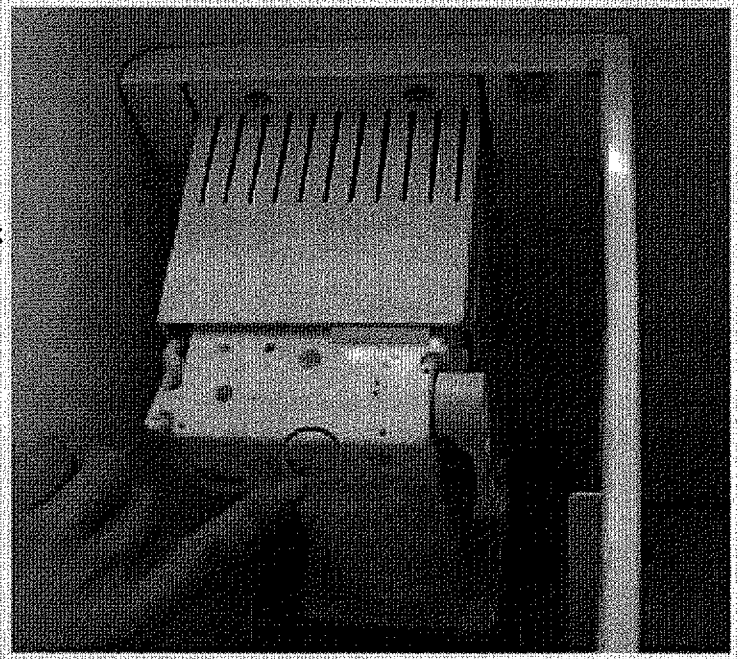
4. Check the installation status

4.3 Functions check

1) Check the quantity of water supplied to the Ice Maker

- As shown in the picture, when the test button is pressed for 3 seconds, the container of the ice maker makes a rotation and water comes out of the water supply hose. Check the quantity of water.

- If the quantity of water is large, ice cubes will be ejected with 2~4 cubes stuck together or as one block and if it is small, small ice cubes will be ejected.



4. Check the installation status

4.3 Functions check

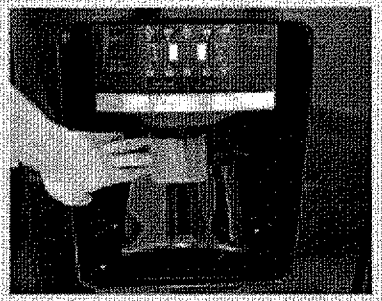
2) Operation of Ice Grinder
- At the cubed ice position, press the "ice type" button and press the lever and check if the grinder motor and the solenoid valve operate.

Note) When the motor sends out "Weeeing" sounds and the valve sends out "Tarc" sounds, they are normal.

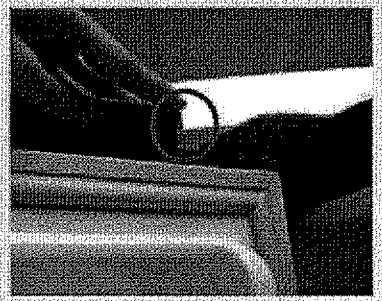
3) Check if the Fan operates
- Check if the F/R-Fans operate with the cold air duct in 10 sec ~ 1min after attaching the magnet.

Note) When it is warm, it's normal.

Grinder Operation



Fan Operation

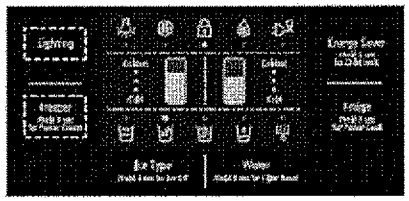


Cancelling cooling off mode (Freezer/Fridge Temperature Indicator moving)

This function is for store display. It is not for customer use.

CAUTION

In case of Cooling off Mode, refrigerator may seem like working but it does not make cool air. To cancel this mode, press the **Lighting** button and the **Freezer** button at the same time for 3 seconds until "Ding-dong" sounds.

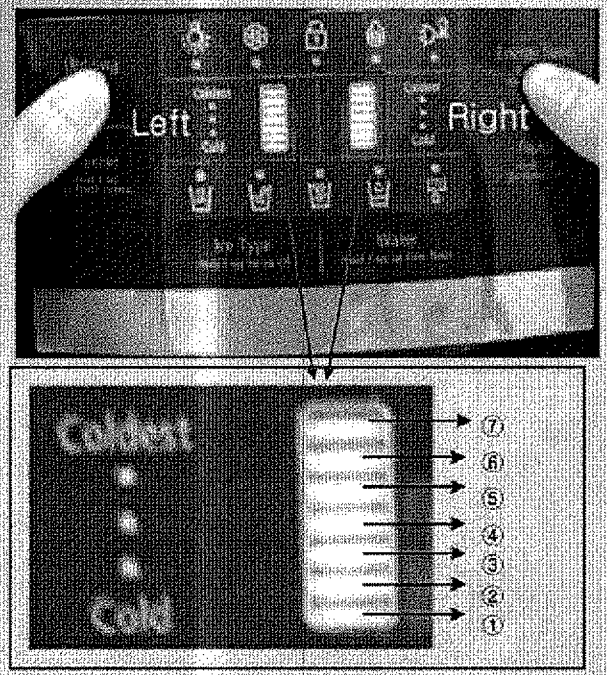


4. Check the installation status

4.4 Self-diagnostics mode

1) Self Diagnostics Mode

- When the Light and the Energy Saver buttons are pressed for 8 seconds at the same time, the display will light off and it will go into the Self Diagnosis.
- When the Self Diagnosis detects an error, the relevant segment will blink with beeping sounds.
- The Self Diagnosis Mode will be cancelled in 30 sec.



NO	Error	LED Display
1	ICE MAKER SENSOR	Right-① LED ON
2	REFRIGERATOR SENSOR	Right-④ LED ON
3	DAMPER HEATER ERROR	Right-⑤ LED ON
4	ICE MAKER FUNCTION ERROR	Right-⑦ LED ON
5	EXIT-SENSOR	Left- ① LED ON
6	FREEZER SENSOR	Left- ② LED ON
7	FREEZER DEFROST SENSOR	Left- ③ LED ON
8	FREEZER FAN ERROR	Left-④ LED ON
9	CONDENSER FAN ERROR	Left-⑤ LED ON
10	FREEZER DEFROST ERROR	Left-⑦ LED ON

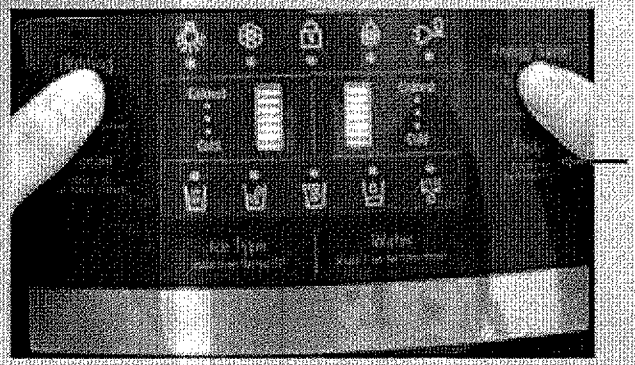
If any LEDs blink, the corresponding sensors and components must be checked for an error.

4. Check the installation status

4.5 LOAD Operation Check Function

1) Load Operation Check Function

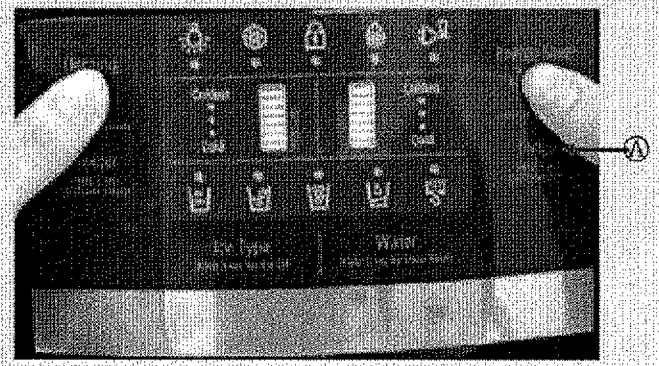
- Displays the status of a component operating at present
- When the Light and the Energy Saver buttons are pressed for 6 sec at the same time, the display will blink for 2 seconds.
- At this time, when the Fridge button is pressed, it goes into "Load Status Displaying Mode" and displays components operating at present.



Press both buttons simultaneously for 6 seconds, all LED lights will be turned off. At this time press button

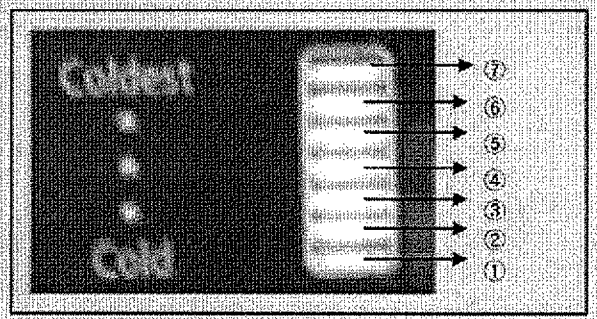
TABLE OF LOAD MODE CHECK LIST

NO	Contents	Display LED
1	Damper	Right-① LED ON
2	Overload mode	Right-⑤ LED ON
3	Low-temperature mode	Right-⑥ LED ON
4	Exhibition mode	Right-⑦ LED ON
5	COMPRESSOR	Left- ① LED ON
6	FREEZER FAN High	Left- ② LED ON
7	FREEZER FAN Low	Left- ③ LED ON
8	FREEZER FAN DEFROST Heater	Left-④ LED ON
9	CONDENSER FAN High	Left-⑤ LED ON
10	CONDENSER FAN Low	Left-⑥ LED ON
11	Dispenser-Heater	Left-⑦ LED ON
	Normal condition	Right-⑤,⑥ LED ON LED All Off



※ The FREEZER FAN and CONDENSER FAN are operated to High/Low rpm automatically according to the operational condition.

※ (2) and (3) only explain the system operation state according to the ambient condition



4. Check the installation status

4.6 Table of Set Point Shift Function

<Reference Bar Display Binary Table>

CODE / STEP	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
STEP7	X	X																	
STEP6	X	X																	
STEP5	X	X															O	O	O
STEP4	X	X							O	O	O	O	O	O	O	O			
STEP3	X	X			O	O	O	O					O	O	O	O			
STEP2	X	X	O	O			O	O			O	O			O	O			O
STEP1	X	O		O		O		O		O		O		O		O		O	

CODE / STEP	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
STEP7																			
STEP6														O	O	O	O	O	
STEP5	O	O	O	O	O	O	O	O	O	O	O	O	O						
STEP4						O	O	O	O	O	O	O	O						
STEP3		O	O	O	O					O	O	O	O					O	
STEP2	O			O	O			O	O			O	O			O	O		
STEP1	O		O		O		O		O		O		O		O		O		

4. Check the installation status

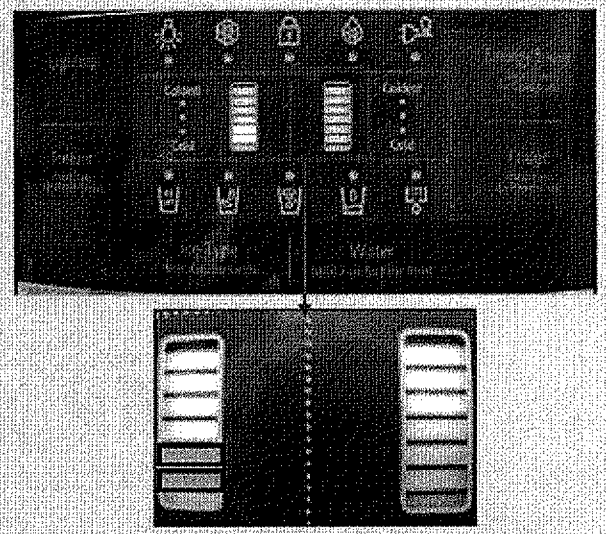
4.6 Table of Set Point Shift Function

❖ Shift the freezer temperature sensor

Reference Value	0

Code	Temp. shift	Code	Temp. shift
0	0	8	32.9°F(+0.5℃)
1	31.1°F(-0.5℃)	9	33.8°F(+1.0℃)
2	30.2°F(-1.0℃)	10	34.7°F(+1.5℃)
3	29.3°F(-1.5℃)	11	35.6°F(+2.0℃)
4	28.4°F(-2.0℃)	12	36.5°F(+2.5℃)
5	27.5°F(-2.5℃)	13	37.4°F(+3.0℃)
6	26.6°F(-3.0℃)	14	38.3°F(+3.5℃)
7	25.7°F(-3.5℃)	15	39.2°F(+4.0℃)

Example 1)
If you are lowering the current temperature of the freezer by -3℃.



4. Check the installation status

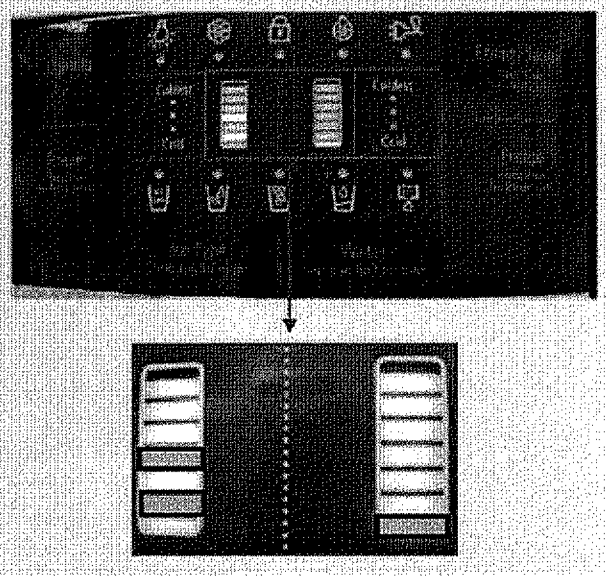
4.6 Table of Set Point Shift Function

❖ Shift the refrigerator temperature sensor

Reference Value	1

Code	Temp. shift	Code	Temp. shift
0	0	8	32.9°F(+0.5℃)
1	31.1°F(-0.5℃)	9	33.8°F(+1.0℃)
2	30.2°F(-1.0℃)	10	34.7°F(+1.5℃)
3	29.3°F(-1.5℃)	11	35.6°F(+2.0℃)
4	28.4°F(-2.0℃)	12	36.5°F(+2.5℃)
5	27.5°F(-2.5℃)	13	37.4°F(+3.0℃)
6	26.6°F(-3.0℃)	14	38.3°F(+3.5℃)
7	25.7°F(-3.5℃)	15	39.2°F(+4.0℃)

Example 1)
If you are raising the current temperature of the refrigerator by +1.5°C.



4. Check the installation status

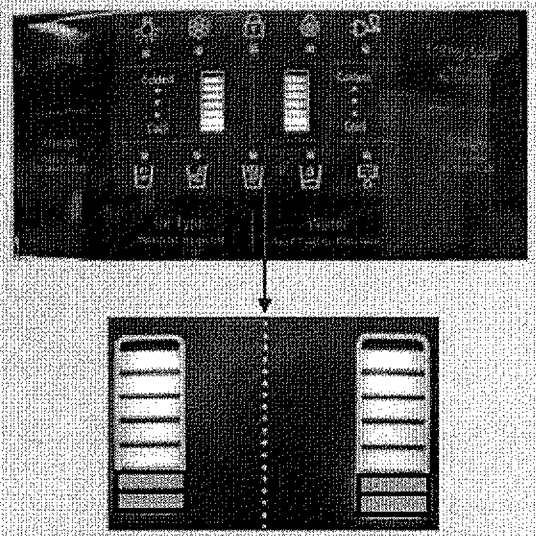
4.6 Table of Set Point Shift Function

■The following options are limited to a model with the Ice Maker.

❖ ICE MAKER DROPPING ICE STANDBY TIME

설정 ITEM	ICE MAKER DROPPING ICE STANBY TIME
DISPLAY	DISPLAY(RIGHT)
	3

Code (LEFT)	Time Set (Minutes)	Code (LEFT)	Time Set (Minutes)
0	58	8	50
1	57	9	49
2	56	10	48
3	55	11	47
4	54	12	46
5	53	13	45
6	52	14	59
7	51	15	60



4. Check the installation status

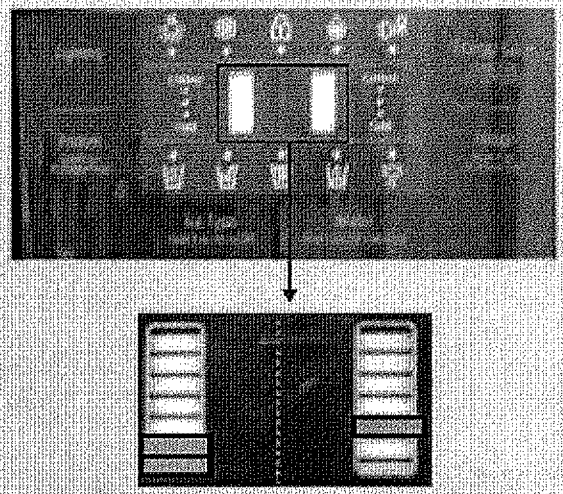
4.6 Table of Set Point Shift Function

■The following options are limited to a model with the Ice Maker.

❖ Shift the Ice maker temperature sensor

Reference Value	4

Code	Temp. shift
0	1.4°F (-17℃)
1	3.2°F (-16℃)
2	5°F (-15℃)
3	6.8°F (-14℃)
4	8.6°F (-13℃)
5	10.4°F (-12℃)
6	-0.4°F (-18℃)
7	-2.2°F (-19℃)



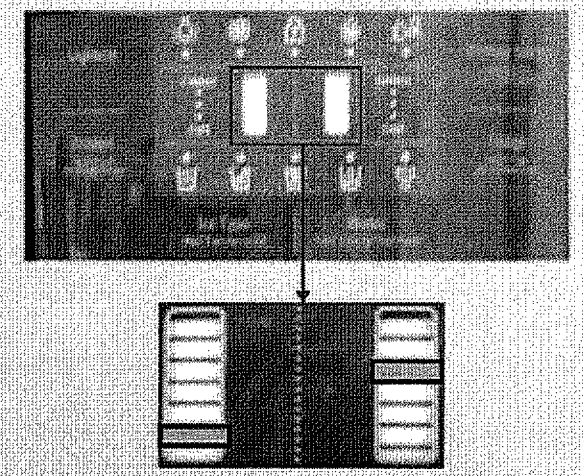
4. Check the installation status

4.6 Table of Set Point Shift Function

❖ Display Setting Change (Temperature Display, Function setting)

Reference Value	16

Code	Display Setting Change
0	Control Specifications operation (After this mode operating 10 sec, temperature display and filter display off)
1	Always Display On
2	Always Display On
3	
4	
5	
6	
7	



4. Check the installation status

4.7 Trouble shooting

Problem	What To Do
The refrigerator does not work at all or it does not chill sufficiently	• Check that the power plug is properly connected.
	• Is the temperature control on the display panel set to the correct temperature? Try setting it to a lower temperature.
	• Is the refrigerator in direct sunlight or located near a heat source?
	• Is the back of the refrigerator too close to the wall?
The food in the refrigerator is frozen	• Is the temperature control on the display panel set to the correct temperature? Try setting it to a warmer temperature.
	• Is the temperature in the room too low?
	• Did you store the food with a high water content in the coldest part of the refrigerator.
You can hear unusual noise or sounds	• Check that the floor is leveled and stable.
	• Is the back of the refrigerator too near to the wall?
	• Was anything dropped behind or under the refrigerator?
	• A "ticking" sound may be heard from inside the refrigerator, but this is normal. This occurs because various accessories are contracted or expanded.

4. Check the installation status

4.7 Trouble shooting

Problem	What To Do
The front corners and sides of the cabinet are hot; condensation occurs.	• Anti-condensations are installed in the front corners of the refrigerator to prevent condensation.
	• Condensation can occur when you leave the door open for a long time.
Ice is not dispensed	• Did you stop the ice making function?
	• Is there any ice in the ice storage unit?
	• Is the water line connected and the shut-off valve open?
	• Is the freezer temperature too warm? (Set the temperature lower)
	• Did you wait for 12 hours after installation of the water supply line before making ice?
You can hear water bubbling in the refrigerator	• The bubbling comes from the refrigerant circulating in the refrigerator and is normal.
There is a bad smell in the refrigerator	• Wrap food with a strong smell so that it is airtight. Throw away any rotten food.

4. Check the installation status

4.7 Trouble shooting

Problem	What To Do
Frost forms on the wall of the freezer	• Is the air vent blocked?
	• Allow sufficient space between the foods stored for efficient air circulation.
	• Is the door closed properly?
No water is supplied	• Is the water line connected and the shut-off valve open?
	• Is the water supply line crushed?
	• Is the water tank frozen because the refrigerator temperature is too low? Select a warmer setting on the display panel.

4. Check the installation status

4.8 Q & A

Descriptions of symptoms	Check Points	Corrective Measures
▶ What causes the "knocking" noises? How to solve it?	It makes "knocking" or "branch breaking" noises when the liner and the shelves hit each other due to the fluctuation of the inside air pressure upon door open/close. Also, these noises occur when the liners and the shelves hit each other as the liners expand and contract due to the temperature change in both of the compartments.	Check the clearance between the selves and the liners. Check if the selves wobble. If they do, have shelves sit firmly on their places.

4. Check the installation status

4.8 Q & A

Descriptions of symptoms	Check Points	Corrective Measures
▶What causes the liquid passing noises from the back of the refrigerator?	Refrigerant goes into the evaporator via the capillary tube in which the refrigerant expands as it circulates the cooling cycle. At this time, the refrigerant is in its liquid state and it starts evaporating as it reaches at the inlet of the evaporator with a bigger diameter, which causes the refrigerant noises. And, it gets worse when the refrigerant does not flow freely.	
▶What is the solution for the compressor noises?	**For new refrigerators**	
	Check if the refrigerator is leveled.	Check if the refrigerator wobbles by shaking with hands.
	Check if there is enough clearance at the back of the refrigerator for the ventilation of the machine compartment.	If there is not enough clearance or it is blocked by things such as newspaper, there could be resonance noises.
	Required clearance around the product.	More than 5cm from the back, 30cm from the top and 10cm from its sides.

4. Check the installation status

4.8 Q & A

Descriptions of symptoms	Check Points	Corrective Measures
▶ What is the solution for the compressor noises?	For old refrigerators	
	Dust could get built-up in the machine compartment. Then, its ventilation would get restricted which makes the refrigerator overheated resulting in the increase of the noise level.	Explain it to customers and let them clean dust or any other foreign substances in the machine compartment.
	As the vibration proof rubbers get hardened, noises generate during the comp operation. (The noise level is quite high.) → Replace the vibration proof rubbers.	The compressor is dislocated due to impact during its transportation such as moving-in. → Check if it's dislocated when it is more noisy after moving-in.
▶ During the comp start-up, iron friction noises occur. What causes them?	The reciprocation piston could get worn out or inner components could get dislocated.	
▶ What can be checked when the unit sends out noises?	1. Check its symptoms and patterns. 2. Check if the unit is installed on a firm and leveled floor. 3. Check if the unit is installed close to the customer's living area. 4. Check if the panel on the machine compartment hits on the rear wall and the unit has enough clearance with the rear wall. 5. Check if the refrigerant pipes are shaped as normal.	

4. Check the installation status

4.8 Q & A

Descriptions of symptoms	Check Points	Corrective Measures
▶ Why is the fridge compartment not cool? (Not a defect)	Advise customers to adjust its temperature level to one or two step higher. For example, when the ambient temperature is low such as in winter (especially, when you use it in the morning with the door not being opened or closed during the night), the compartment temperature could get increased by 1~2℃. So, advise customers to shift its temperature level and explain to them that it does not affect its power consumption that much when its temperature setting is adjusted to one or two step lower.	
▶ Why is the food melt even though the display of the freezer compartment shows -20℃?	Check the compartment temperature with a thermometer.	If it is considered to be low cooling, When the BLDC motor fan does not rotate because its restriction is not picked up. When the evaporator is frozen-up (defrost it) Temp detection error according to the characteristic change of the thermistor (set the compartment temperature or replace the thermistor)

4. Check the installation status

4.8 Q & A

Descriptions of symptoms	Check Points	Corrective Measures
▶ What is the reason that vegetables get frozen even though the fridge compartment is set to MIN?	Replace the fridge thermistor because it could be faulty. 1st: Check if the thermistor works after referring to the self-diagnosis checklist on the MAIN-PCB cover. If the over-cooling keeps on even though there is no problem with the above, replace it.	
▶ What can be done when frozen food gets melt in the freezer compartment or it does not cool down?	Defrost it by using hot water and check the defrost system for any fault. And then, eliminate the root causes so as to prevent it from reoccurring.	
▶ Why doesn't the compressor operate upon power supply?	Upon the initial power on, the compressor starts operating after a five minute delay to protect the compressor. So, please wait until it starts operating.	
▶ Why does it send out "Ding Dong" or alarm sounds with the doors closed?	Check if the food sticks out preventing the doors from closing properly. If it send out the above sounds with the door closed well, the door switch may not have been pressed down completely. So, make sure for the door switches to be pressed completely. Still, if it does not stop going off, check the wiring connections because the door switch signals may not be inputted into the PCB. And, when the door switch is faulty or it is not pressed down completely, the fan does not rotate and it causes low-cooling advancing to a defrost problem.	
	Note : When it comes to automatic models, the fan motor does not operate right on with the door closed after being opened. The fan motor for dual-evaporator refrigerators starts after a 10-second delay and when the ambient temperature is higher than 33℃, it starts after a minute.	

4. Check the installation status

4.8 Q & A

Descriptions of symptoms	Check Points	Corrective Measures
▶ What can be done when it sends out much smell in the fridge and the freezer compartments after 2 months?	When the stored food sends out much smell. ☞ Check if there is any food sending out sustaining smells. Dried squid, dried laver : Hold on them Pounded garlic : Put it in an airtight container Medical herbs : Make sure they are packed airtight. Replace the old packing or wrap with a new one. Others : Check if the container is sealed or the food is packed airtight. ☞ Check if the compartment temperature is normal and the food is contaminated. ☞ Check if there are any overflow of side dishes on the shelves or the bottom of the compartments. ☞ Put the food sending out much smell in an airtight bag or container. ☞ Open the door and ventilate it. Also, clean liners, shelves, containers and door bins.	
▶ What is the cause and its counter action for chemical smells with new products?	During its delivery to customers, chemical smells from various components could build up inside of the compartments. So, please let the doors open for some time to use the unit.	
	Precautions : Smells tend to get soaked into the liners or other components. If food generating much smell is stored inside, it would stick onto the liners and other components and it is so difficult to remove the smell. Especially, customers should take care in storing smelly food properly with its sealing being tight during the early period of the product's use.	

4. Check the installation status

4.8 Q & A

Descriptions of symptoms	Check Points	Corrective Measures
▶ What can be done when the smell keeps on even thought the deodorizers are cleaned?	1) Turn off the refrigerator (unplug the unit) and remain the door opened. 2) Take out the food stored in the refrigerator. And then, take out all the shelves, door bins and containers, and put them in warm water. After cleaning them by using dish detergents and drying them, put them back to their locations. 3) Remove the deodorizer and soak it in warm water more than 4 hours. After drying it in sunlight, put it back to its location. 4) Throw away the smell-soaked plastic bags and put the food in new ones.	
▶ What causes the funny smell in water?	When it tastes and smells funny ☞ It tastes funny even though it does not smell funny.	It could happen when remnants of the water filter or organics have been built up in the water tank. So, replace the water filter and the water tank together. If there is no replacement part and the water tank need cleaning, use dish detergents and make sure to clean the inside without any detergents remaining inside.