

B/S/H/

KDT-T

$F^3 = \text{Fit For Future}$

Bildung - Engineering - Qualität im Kundendienst

Product division

Refrigeration

Event

Side by Side

Location

USA



Side-by-Side Appliances

Models: Bosch Siemens

KAN 56V**

KAN58A** KA58NA**with water/ice dispenser

KAN58P** KA58NP**with water/ice dispenser

KAN60A** KA60NA**with water/ice dispenser,
& bar compartment flap

External dimensions: (H/W/D) 70.4 in/ 35.5 in/ 28.8 in

Usable capacity: 19 cf

Refrigerant: R 134a

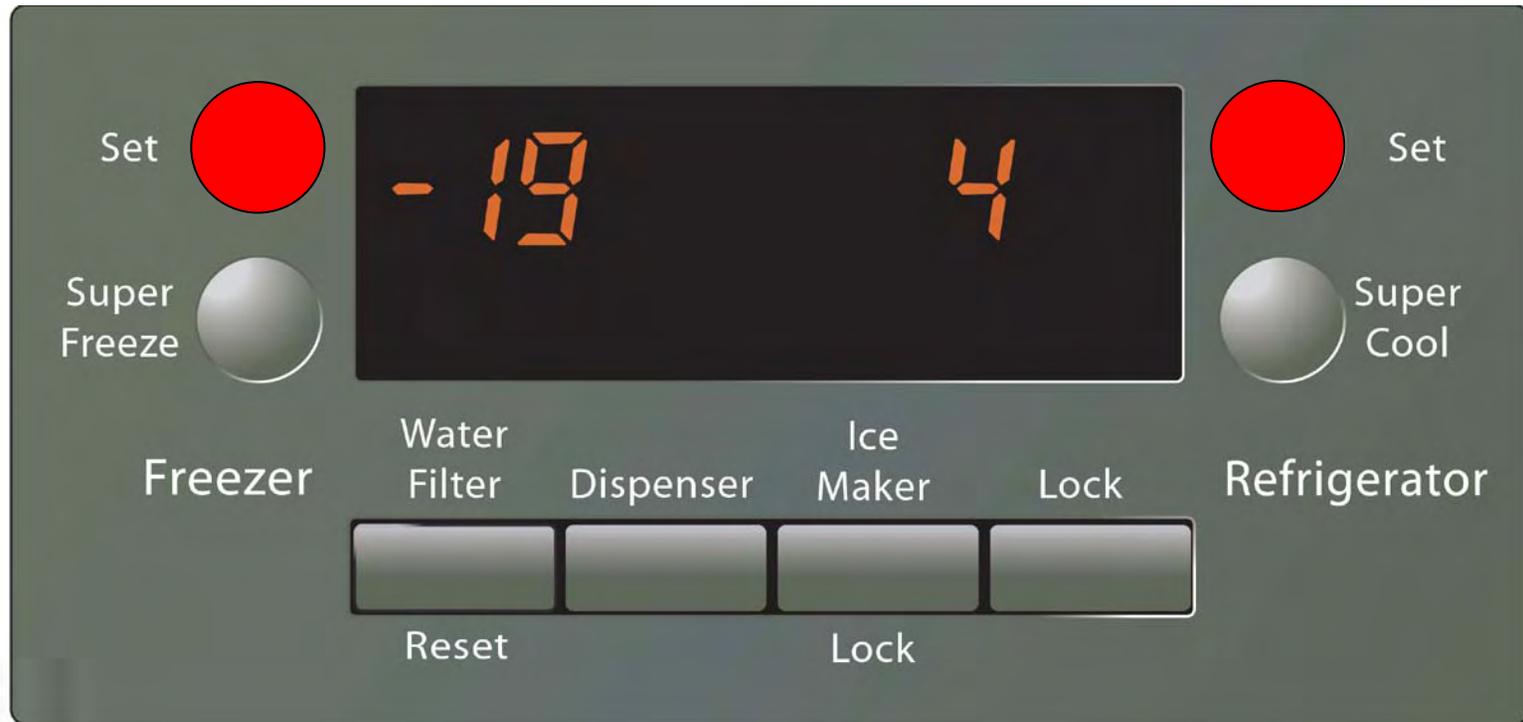
Amount of refrigerant: 2.68oz

Weight: 253 lbs

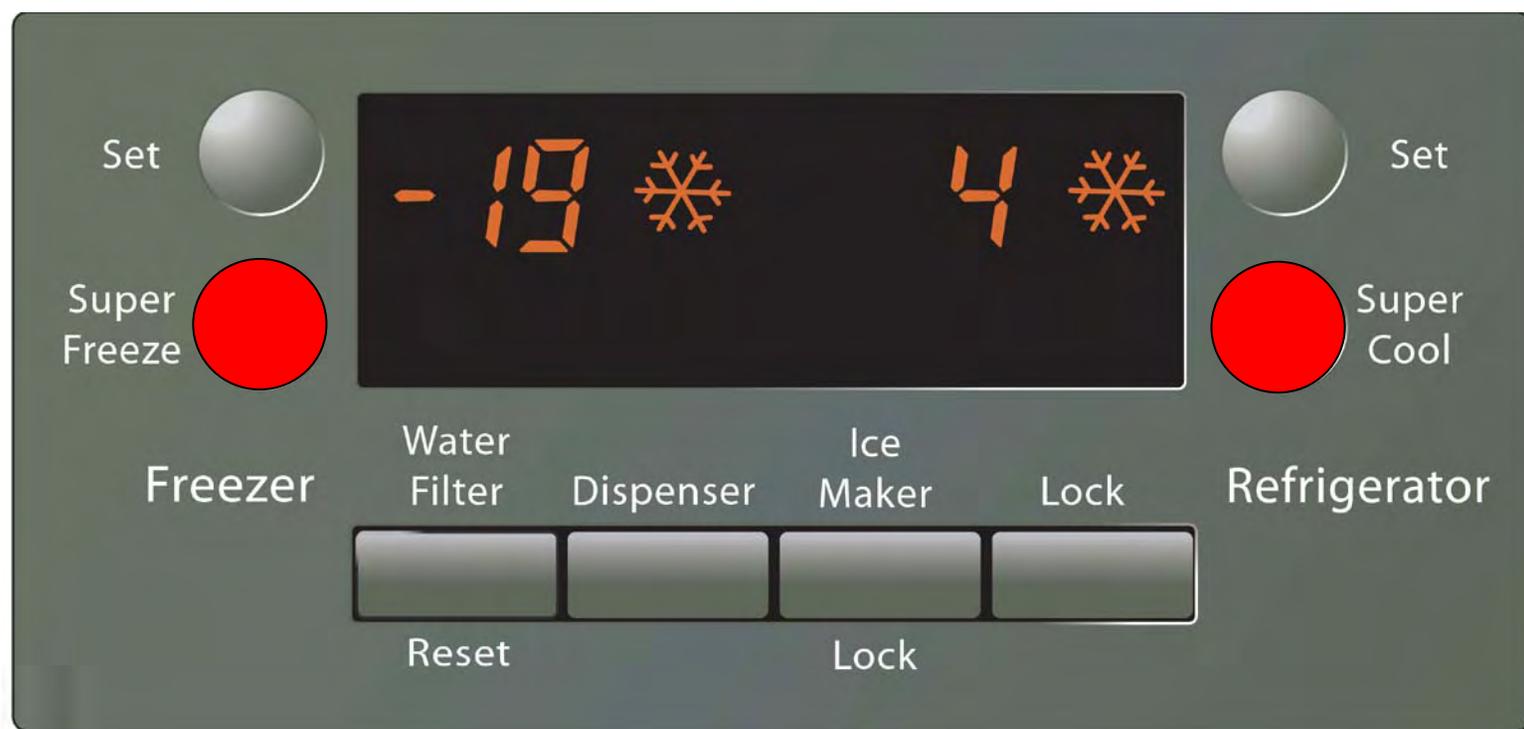
Contents

- **Control**
- **Components**
- **Functions**
- **Removing the handle**

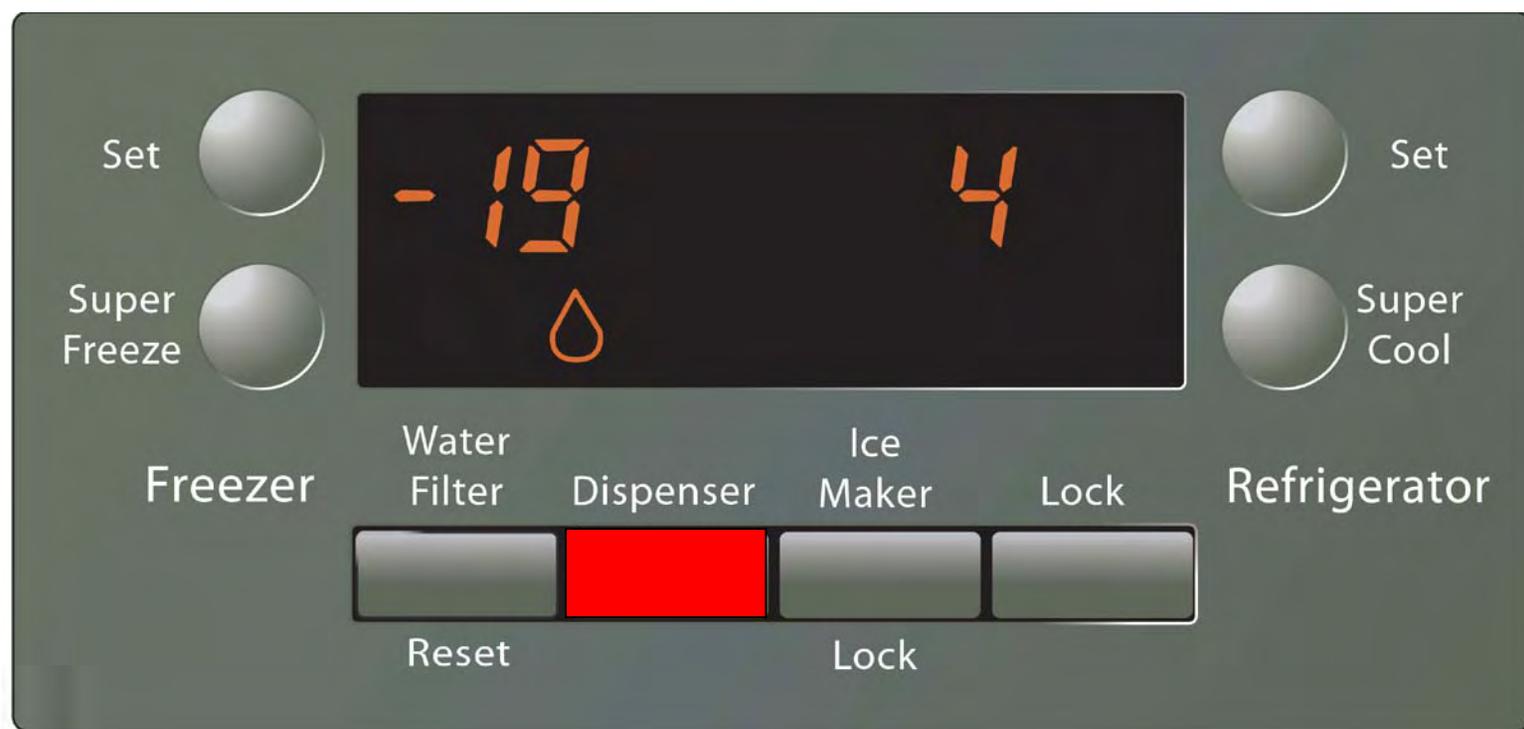
Temperature Setting



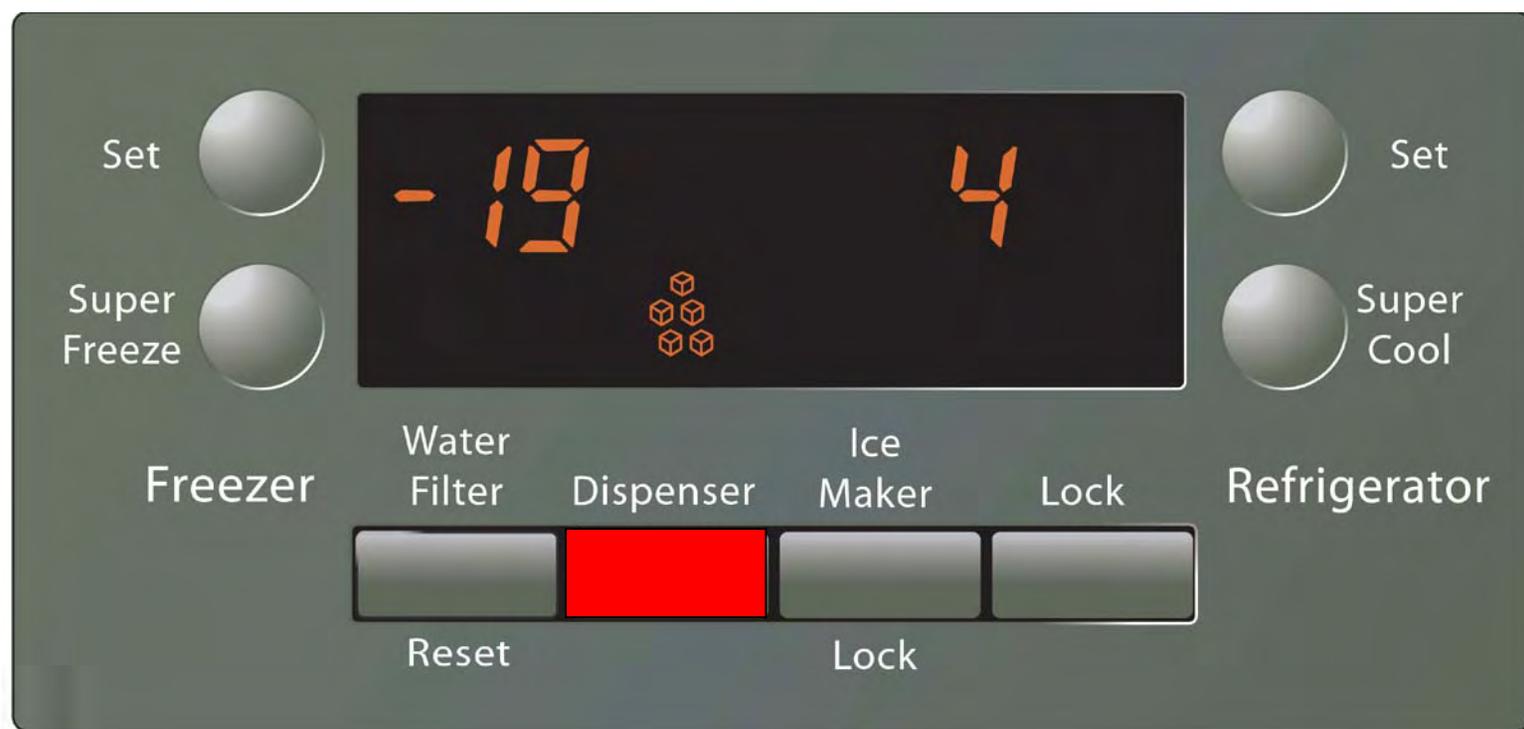
Super Freeze / Cool



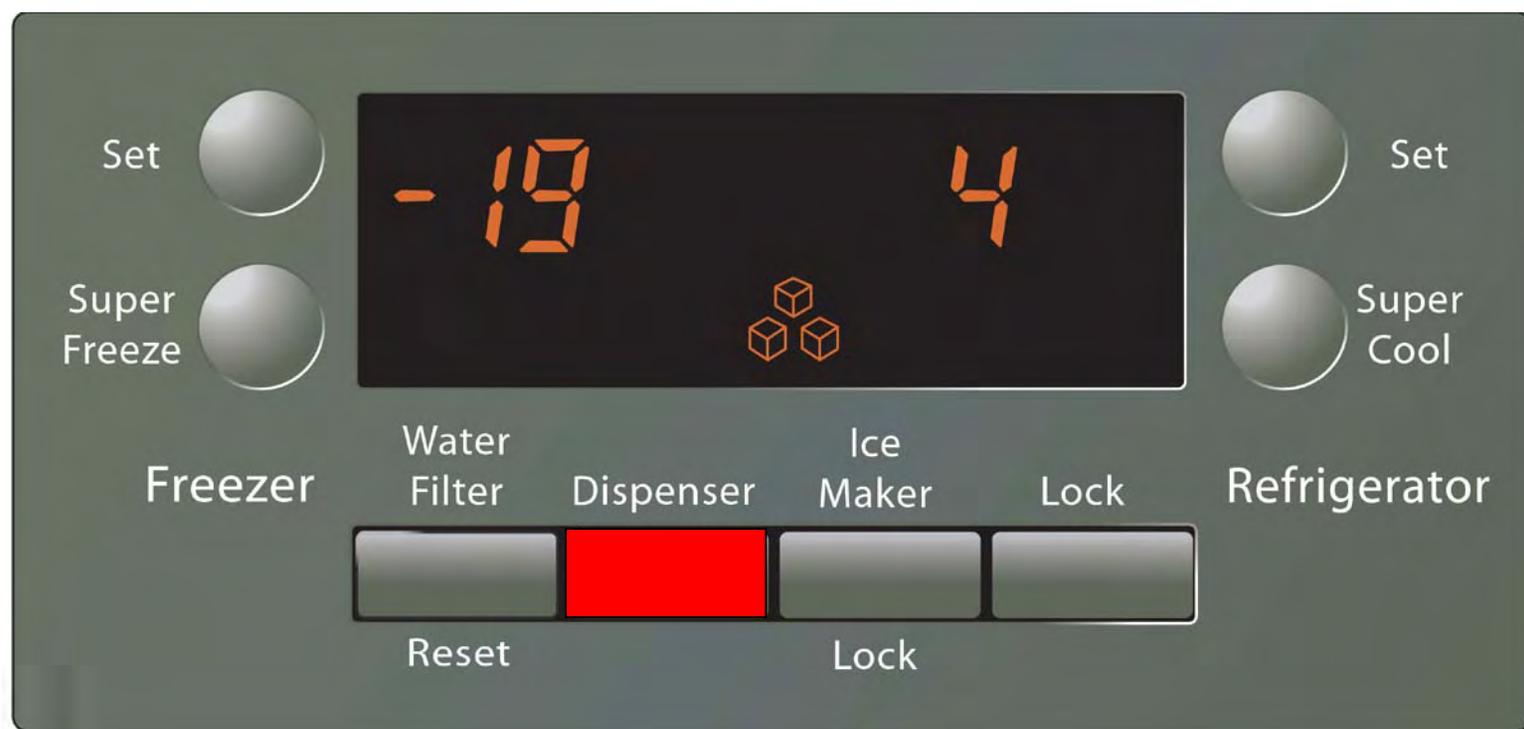
Dispenser Button



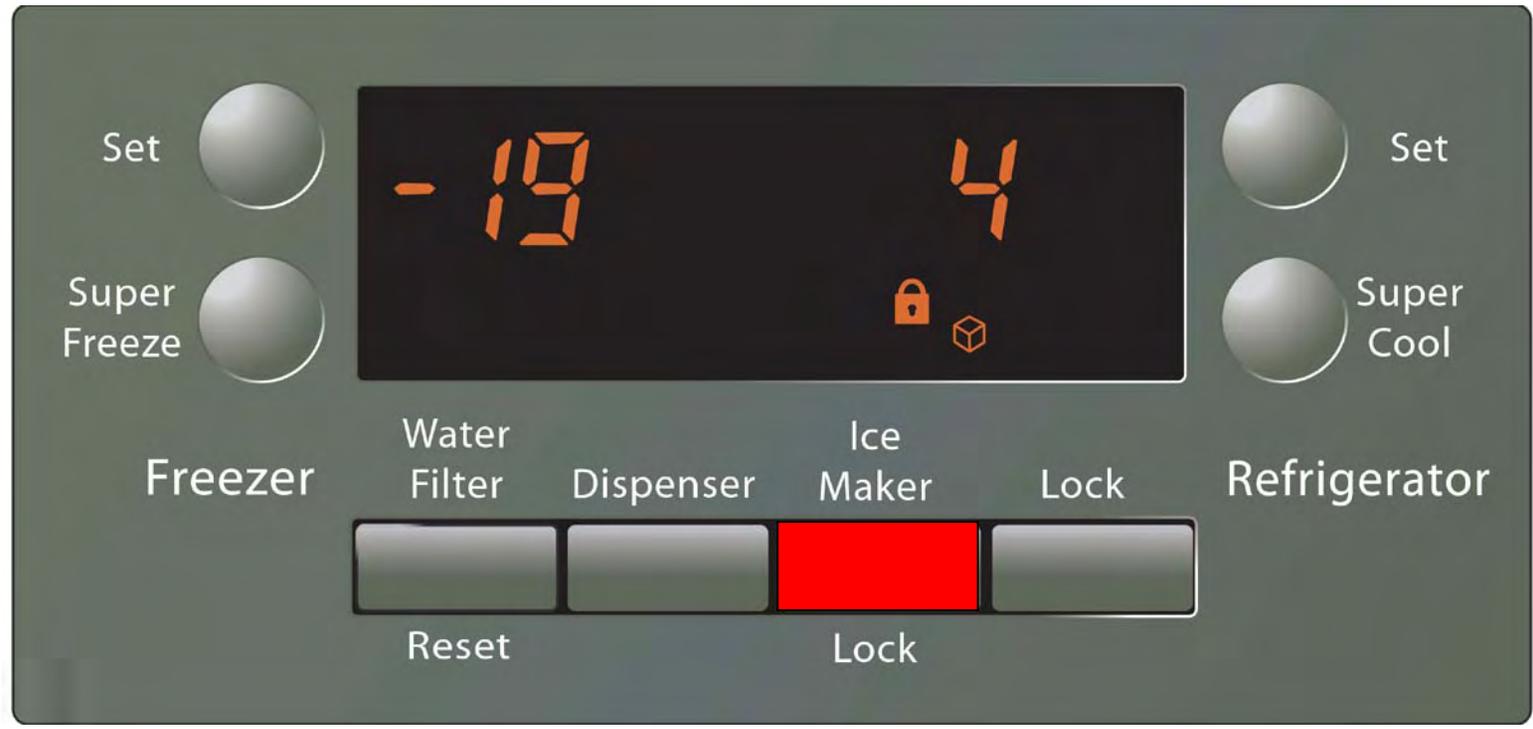
Dispenser Button



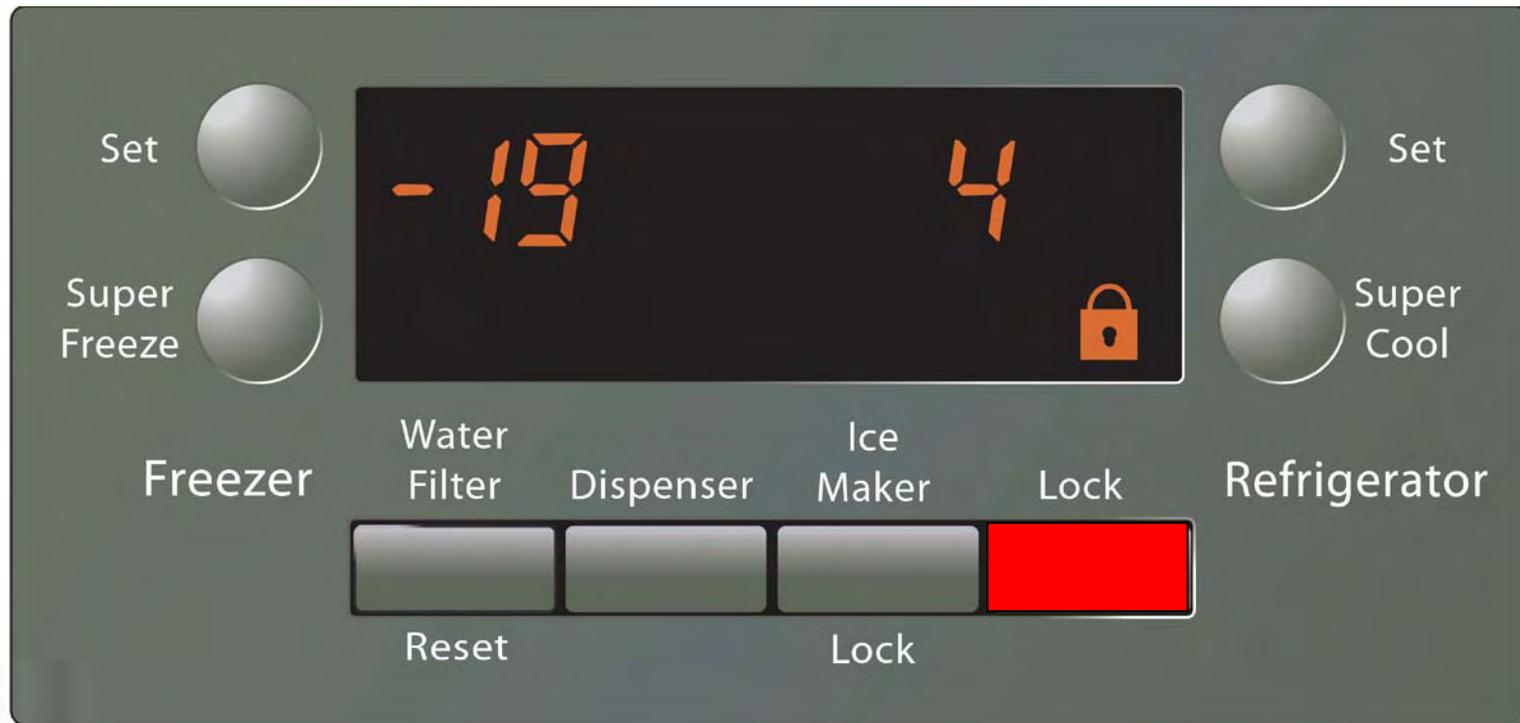
Dispenser Button



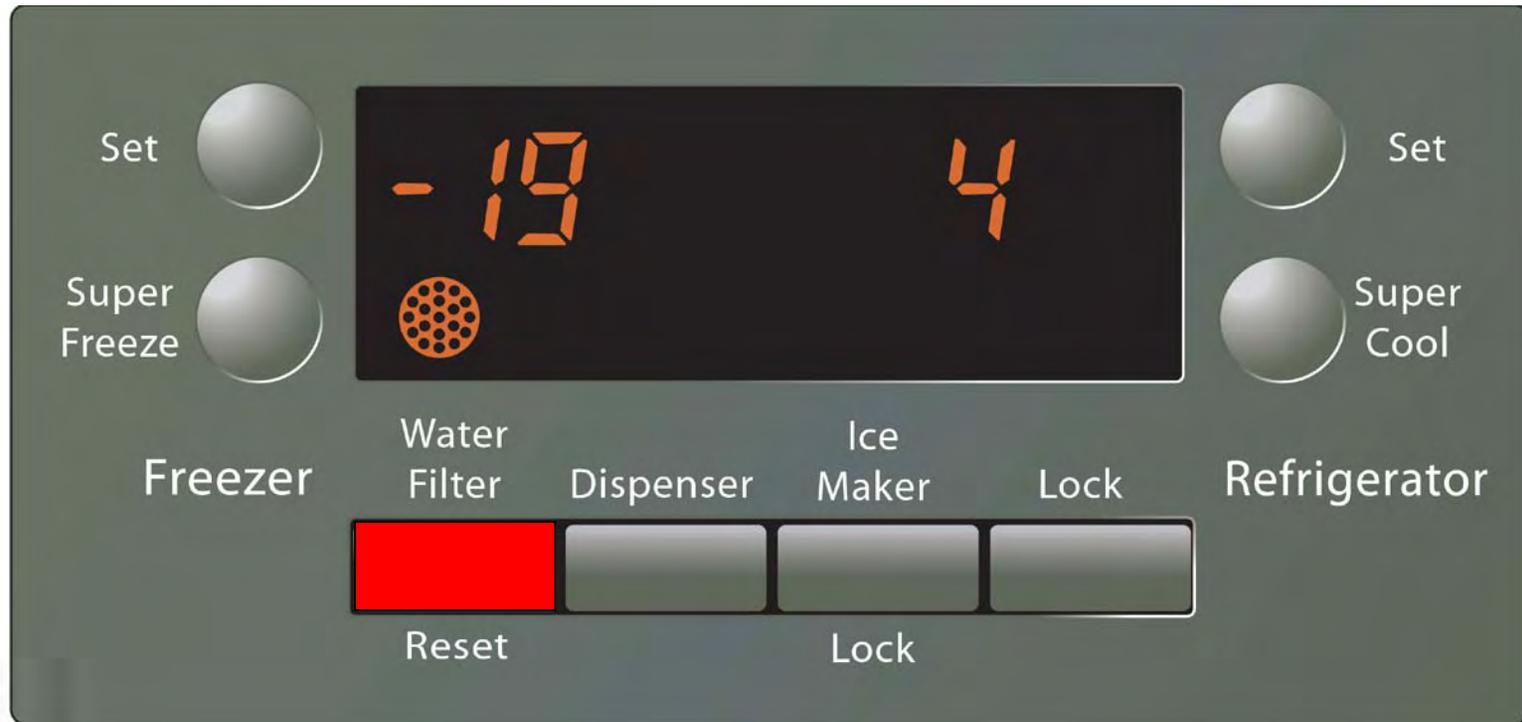
Ice Maker Lock Button

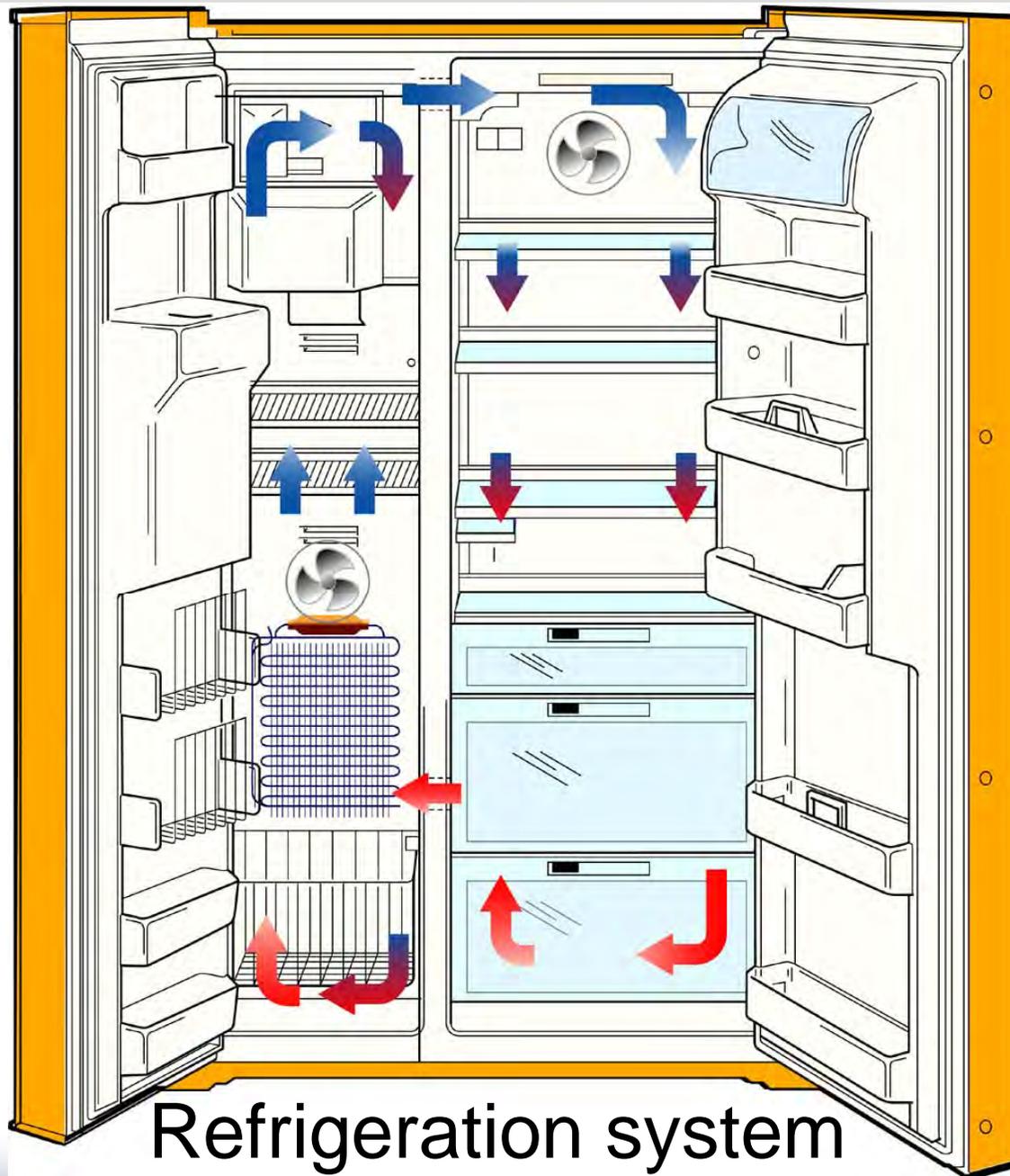


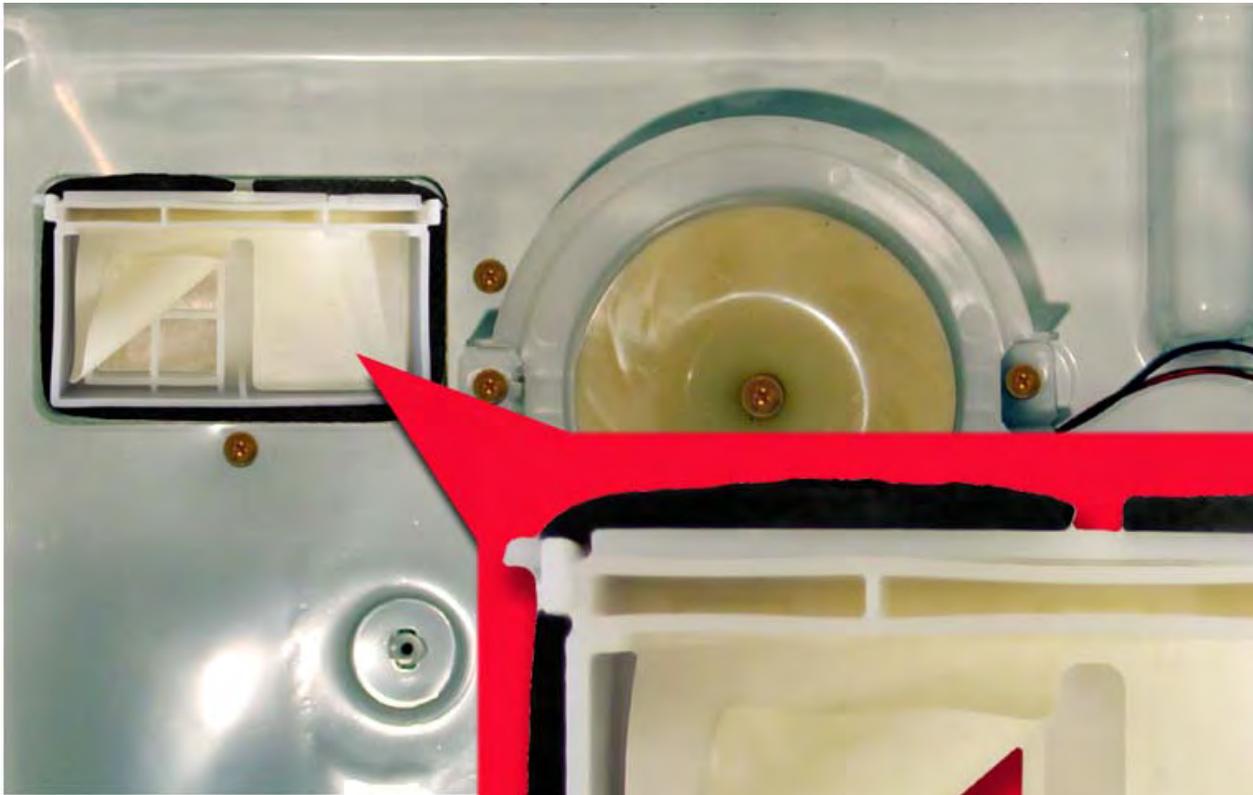
Lock Button



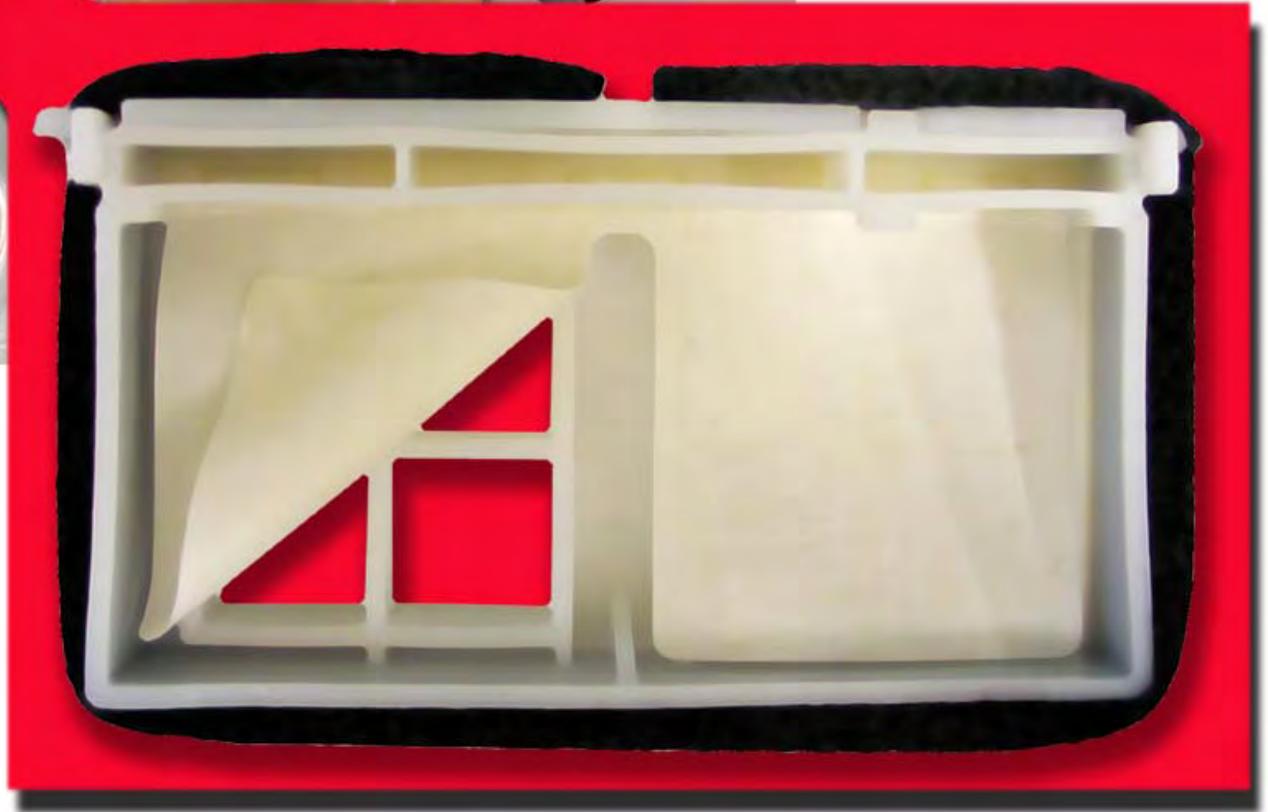
Water Filter Reset Button

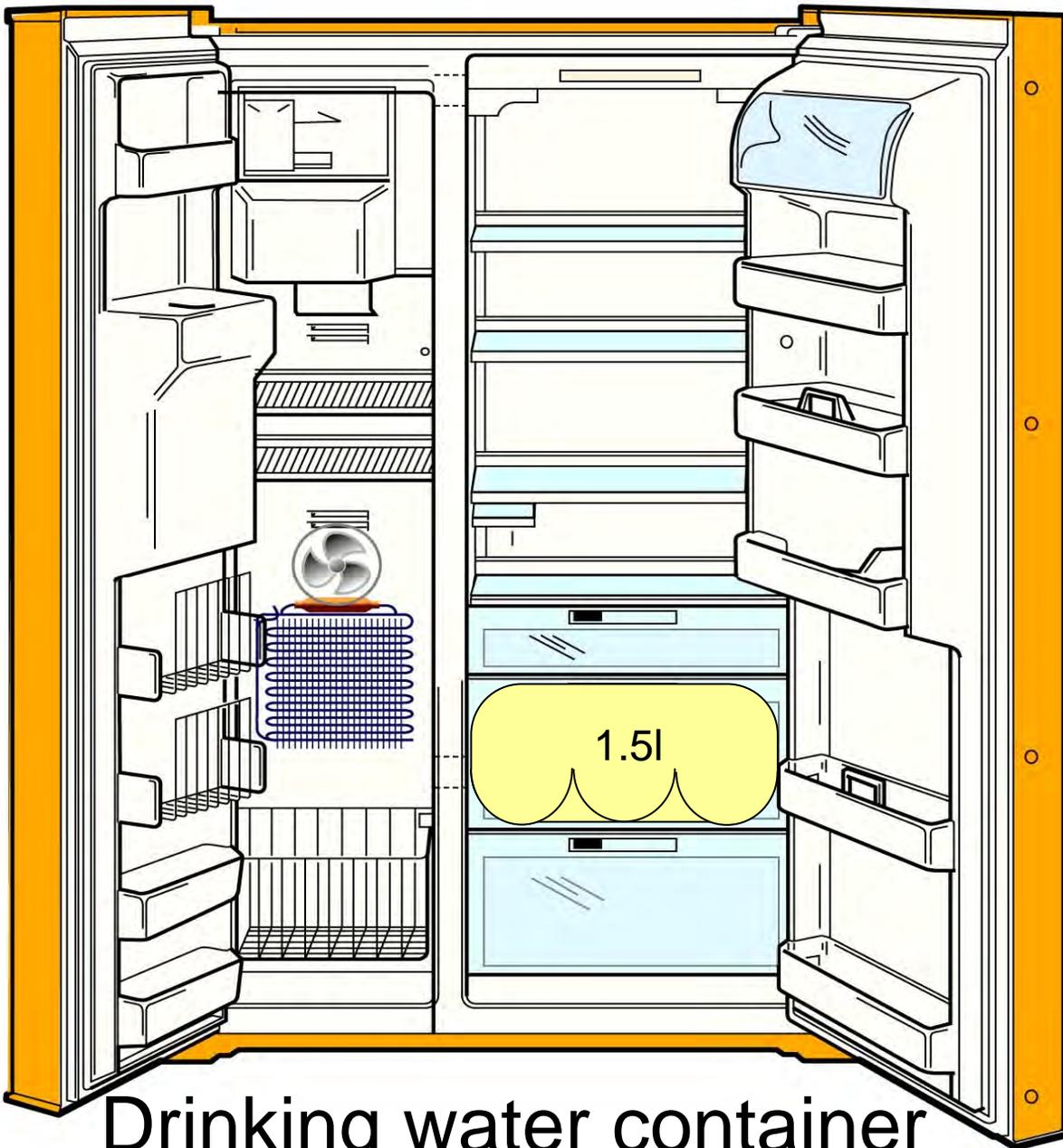






Air inlet
refrigerator
compartment





Drinking water container

Vario Box



Vario Box



Vegetables = 3°C (required temperature)

Fish = -1°C (required temperature)

Meat = -3°C (required temperature)

Off = Vario Box not supplied with cold air

Select = Temperature selection

Bar Compartment Flap



The bar compartment flap is situated on the refrigerator door

Bar Compartment Flap



The light is on when the bar compartment flap is open.

Bar Compartment Flap



The light switch and the seal can be changed.

Light

The interior lights switch off when the door has been open > 10 min

The dispenser light switches off after a delay of 4 sec

Defrosting Phase

The defrosting phase is initiated if:

The compressor running time $>$ than 2 h and the appliance running time $>$ 60 h

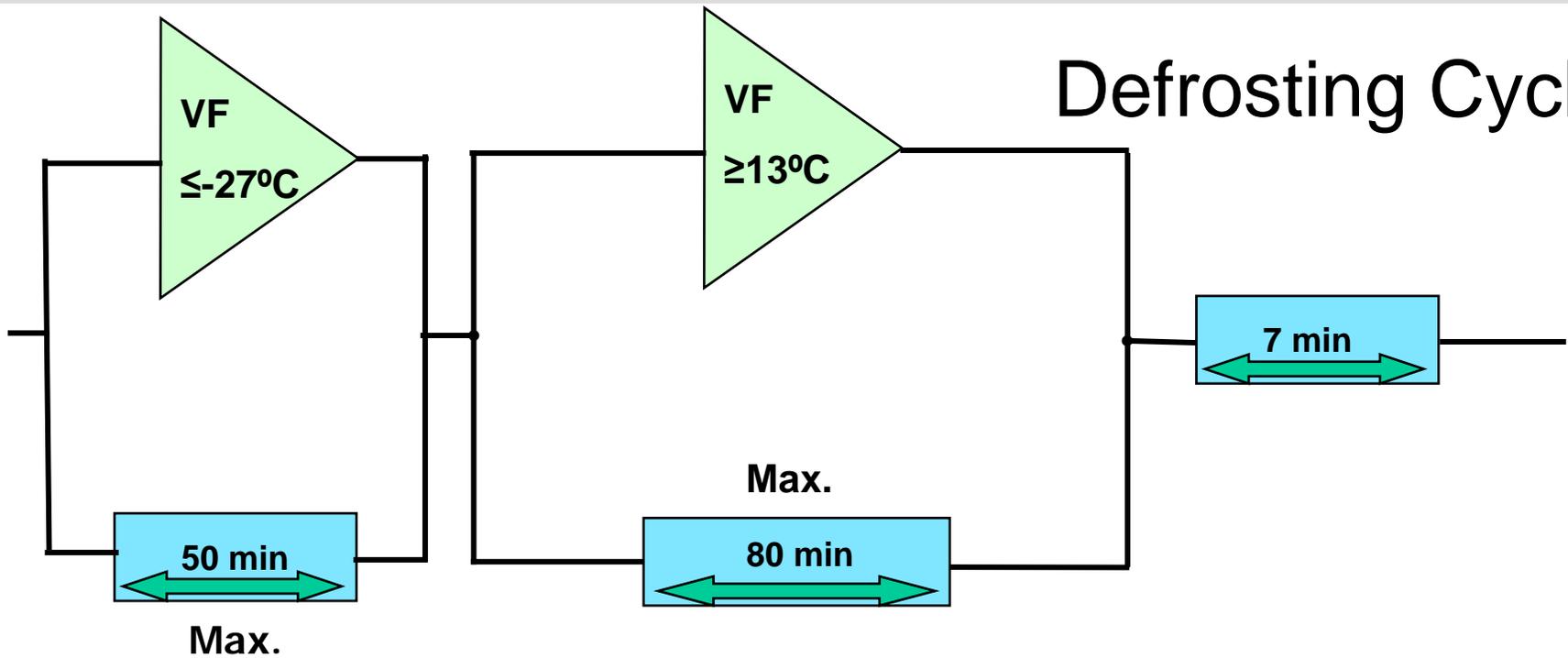
The compressor running time $>$ than 24 h

The compressor running time $>$ than 6 h and the relative ON duration $>$ 85 %

A fault is displayed

The door is open $>$ 2 min

Defrosting Cycle



50 min delay:

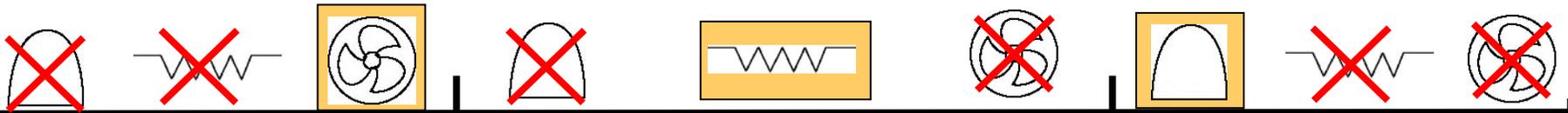
- Is activated if the evaporator sensor is $\leq -80\text{F}$.
- The freezer compartment fan is on continuously.
- The refrigerator compartment fan is in normal mode.
- The evaporator heater is off.

Defrosting:

- The maximum defrosting time is 80 min.
- Defrosting ends when the evaporator sensor reaches 55F .
- Both fans are off.
- The defrosting heater is on.

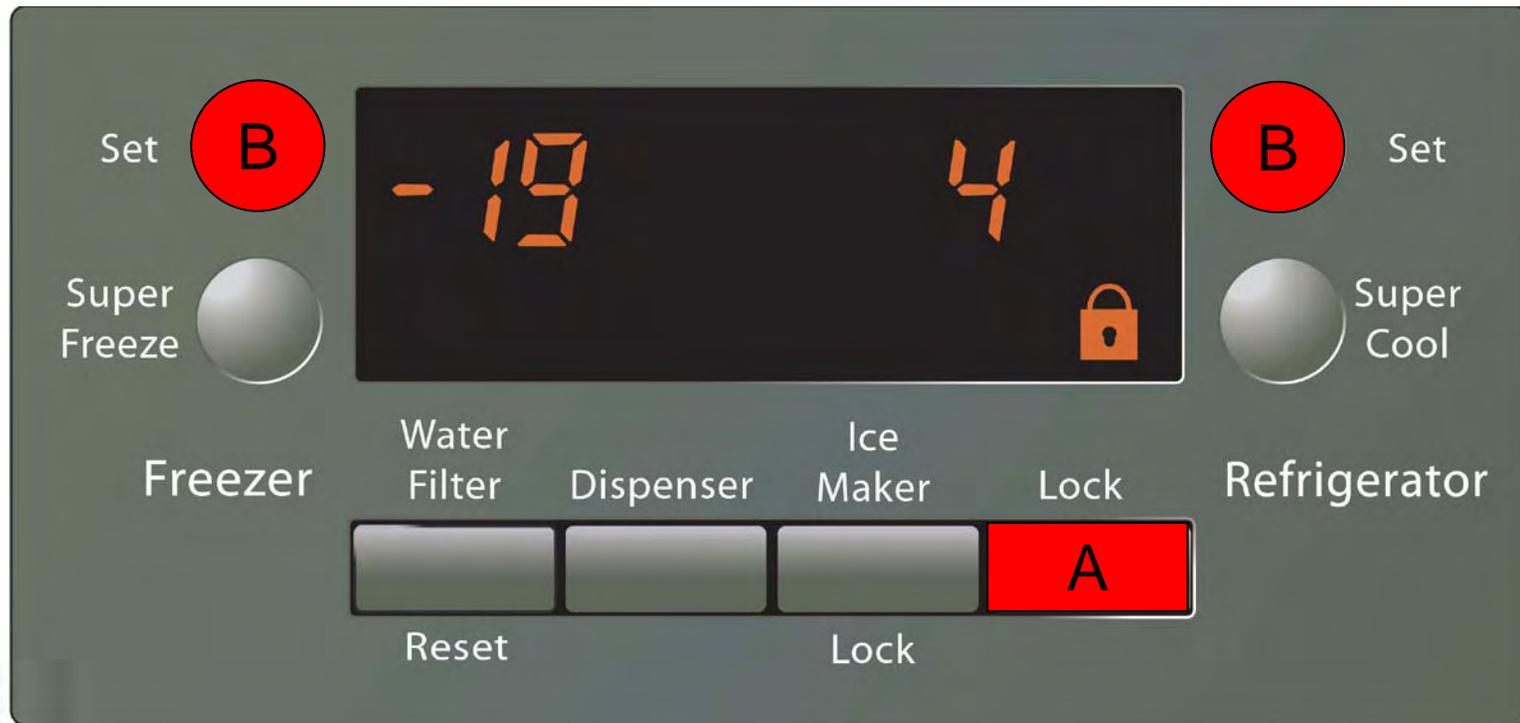
Pause:

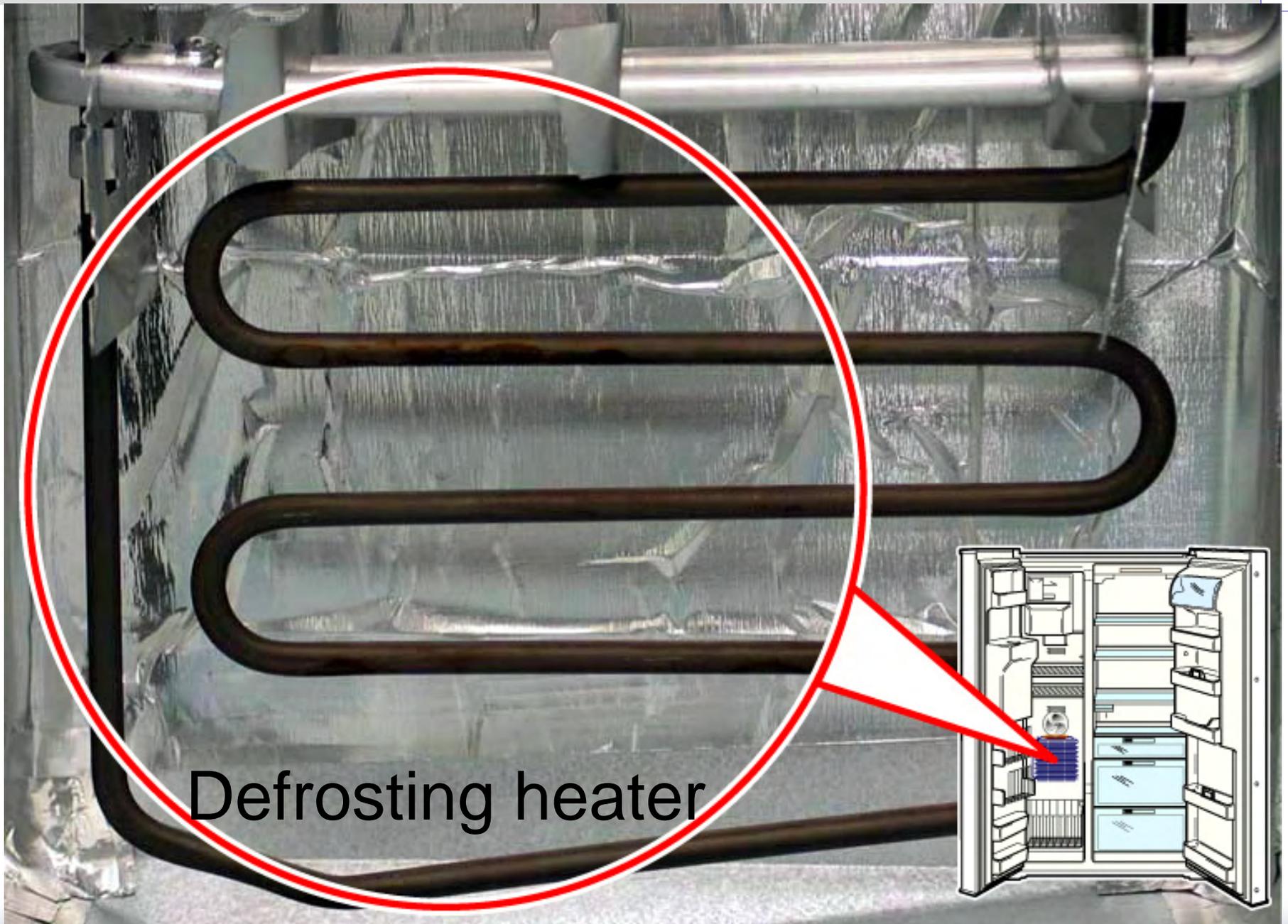
- After the defrosting cycle the compressor starts running. Both fans and the defrosting heater are switched off for 7 min.

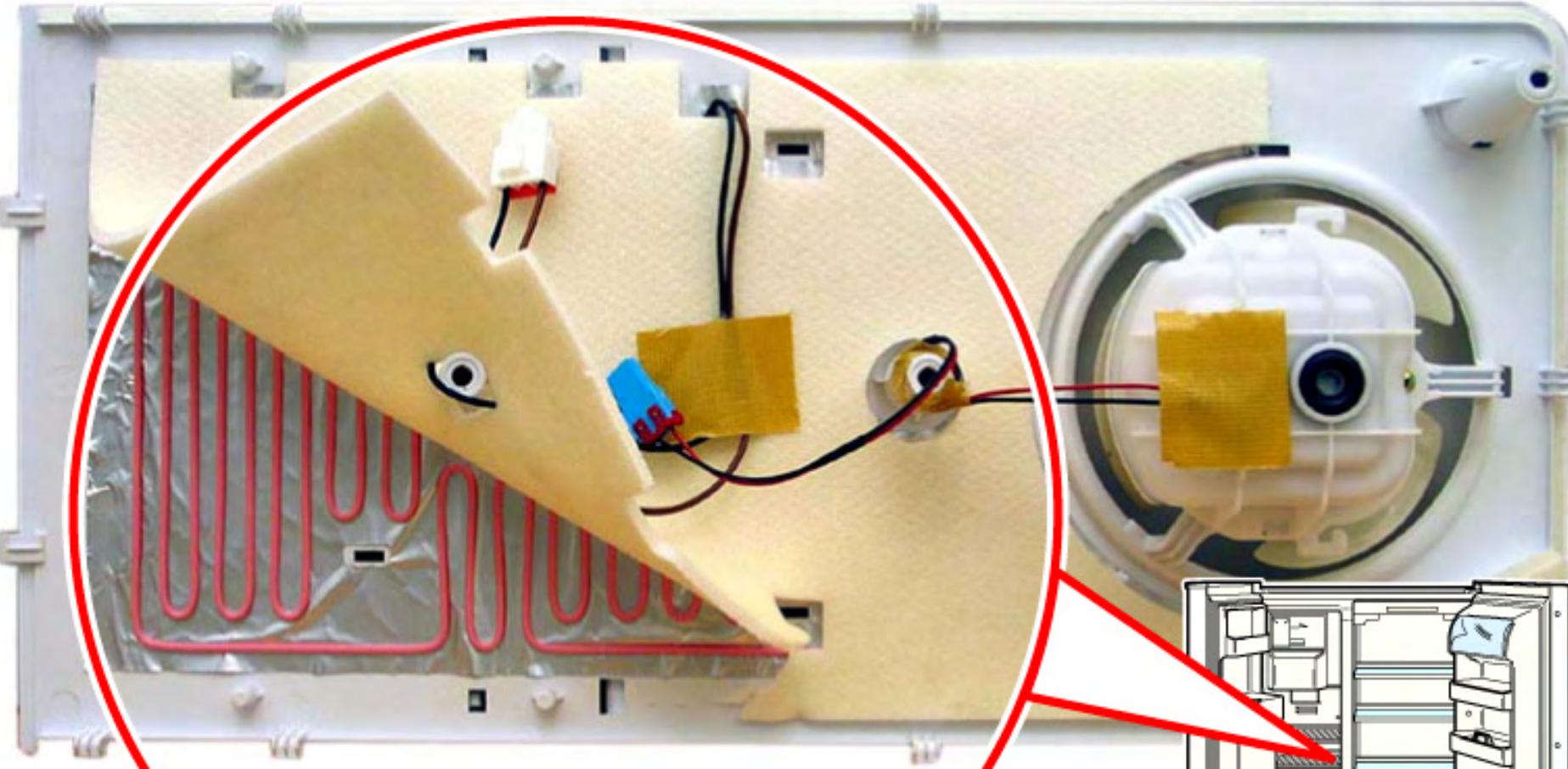


**Refrigerator compartment fan
– normal control**

Starting Defrosting Cycle Manually





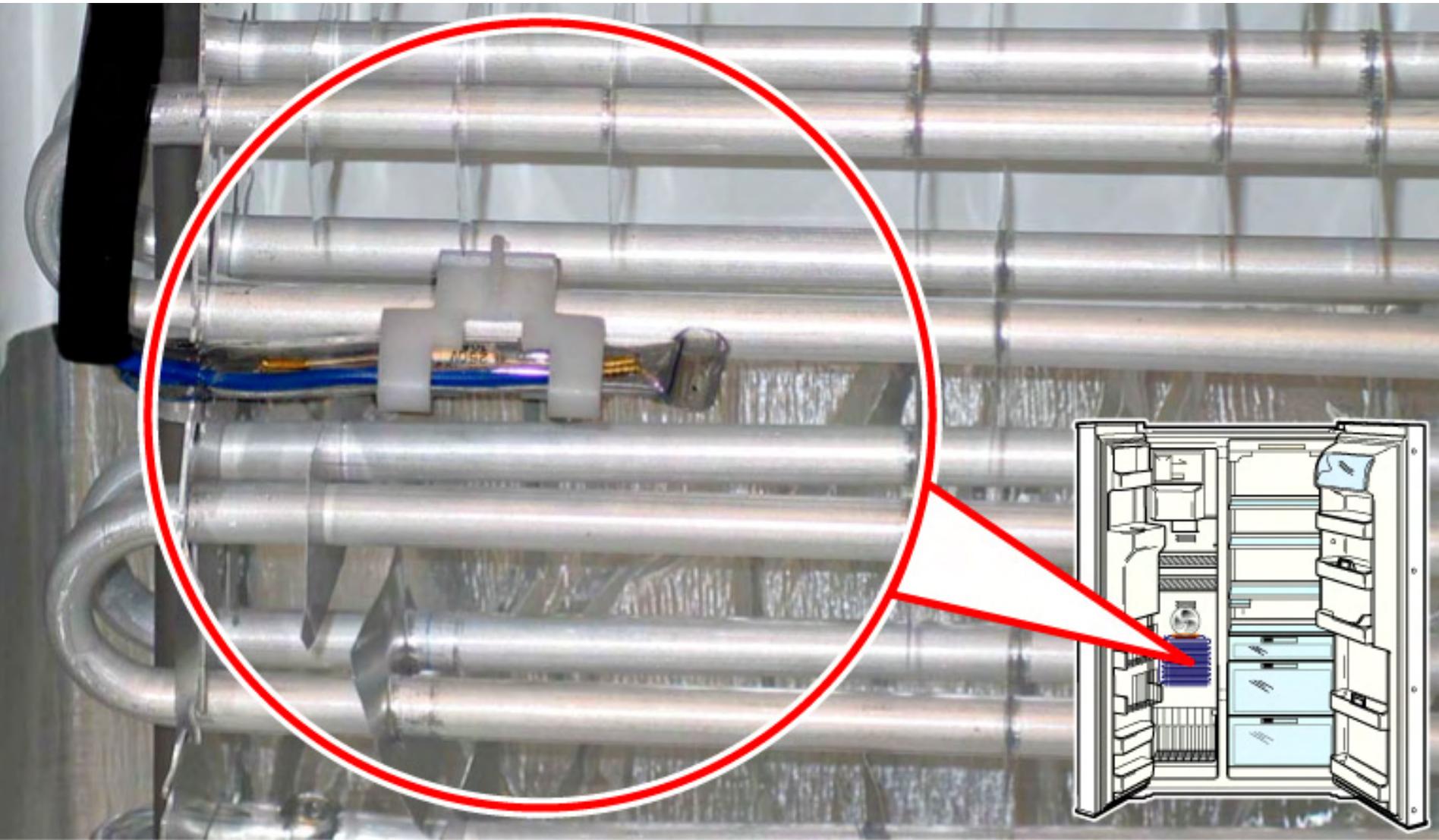


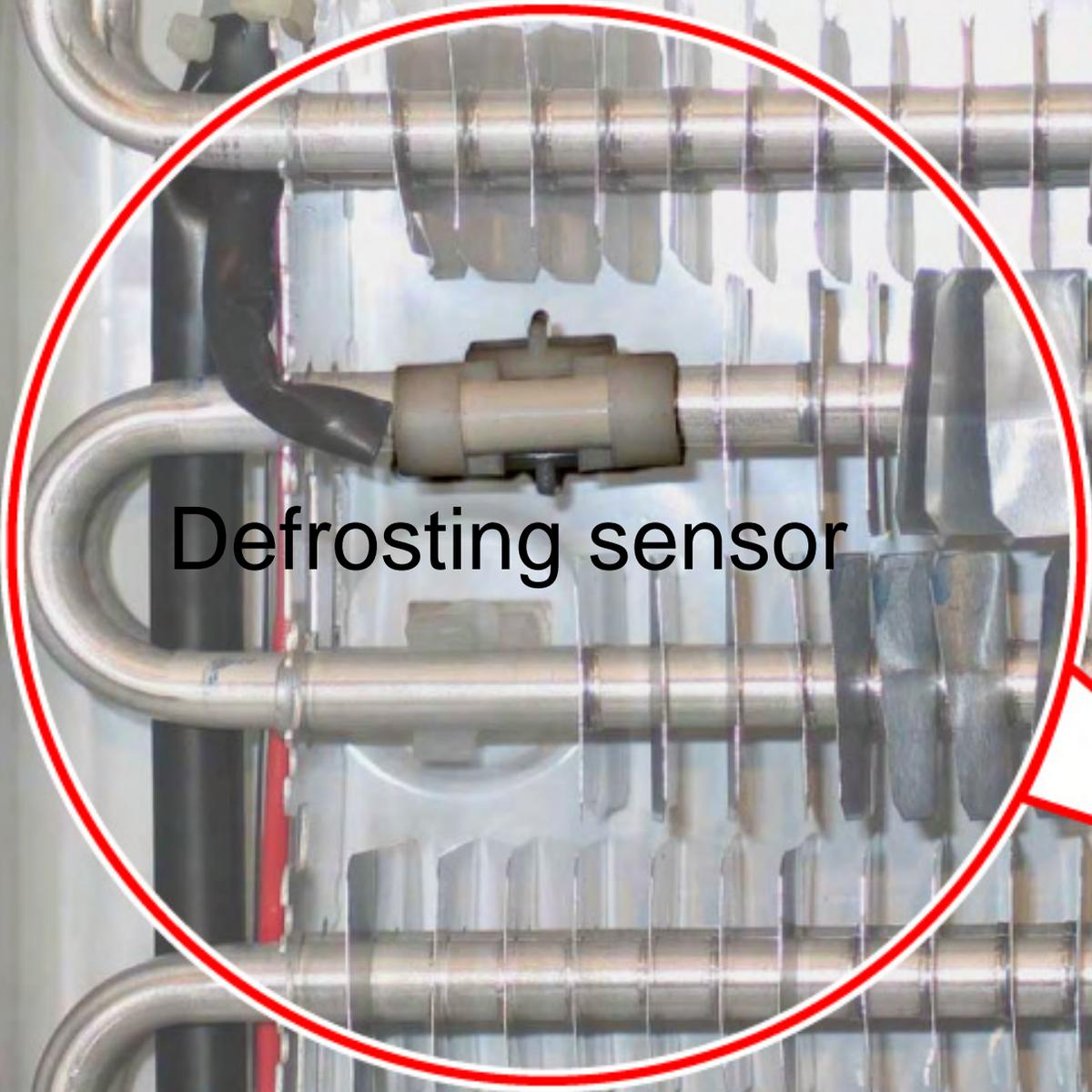
The image shows the rear panel heater assembly of a refrigerator. A large red circle highlights the heater element, which consists of a series of red coils mounted on a yellow insulation board. The heater is connected to a blue fuse and a yellow capacitor. A white plastic component, likely a fan or motor, is visible on the right side of the panel. The entire assembly is mounted on a white metal frame.

Rear panel heater



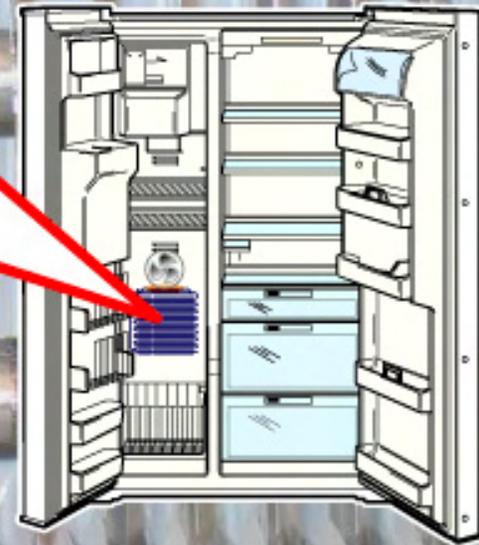
Thermal Link

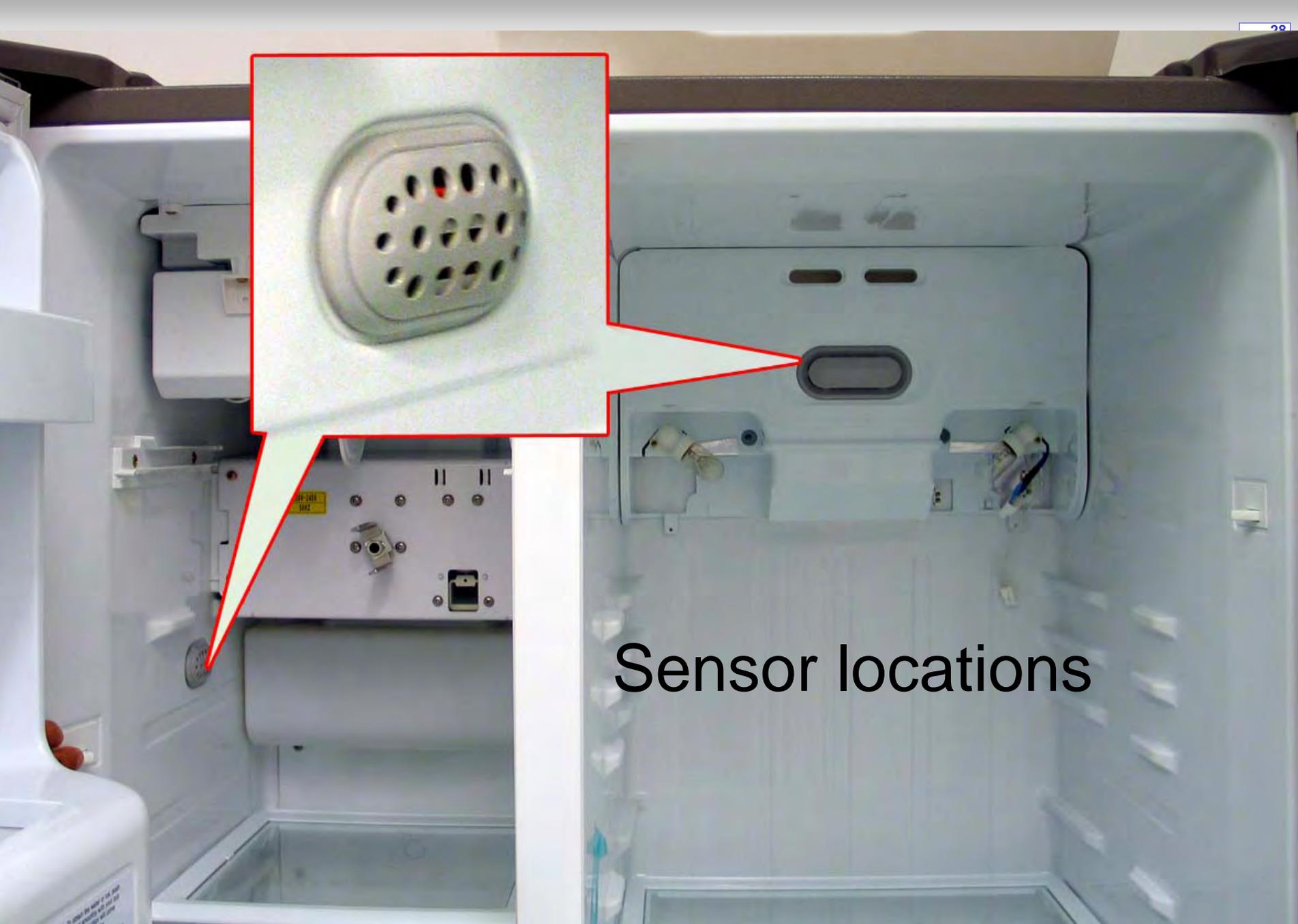




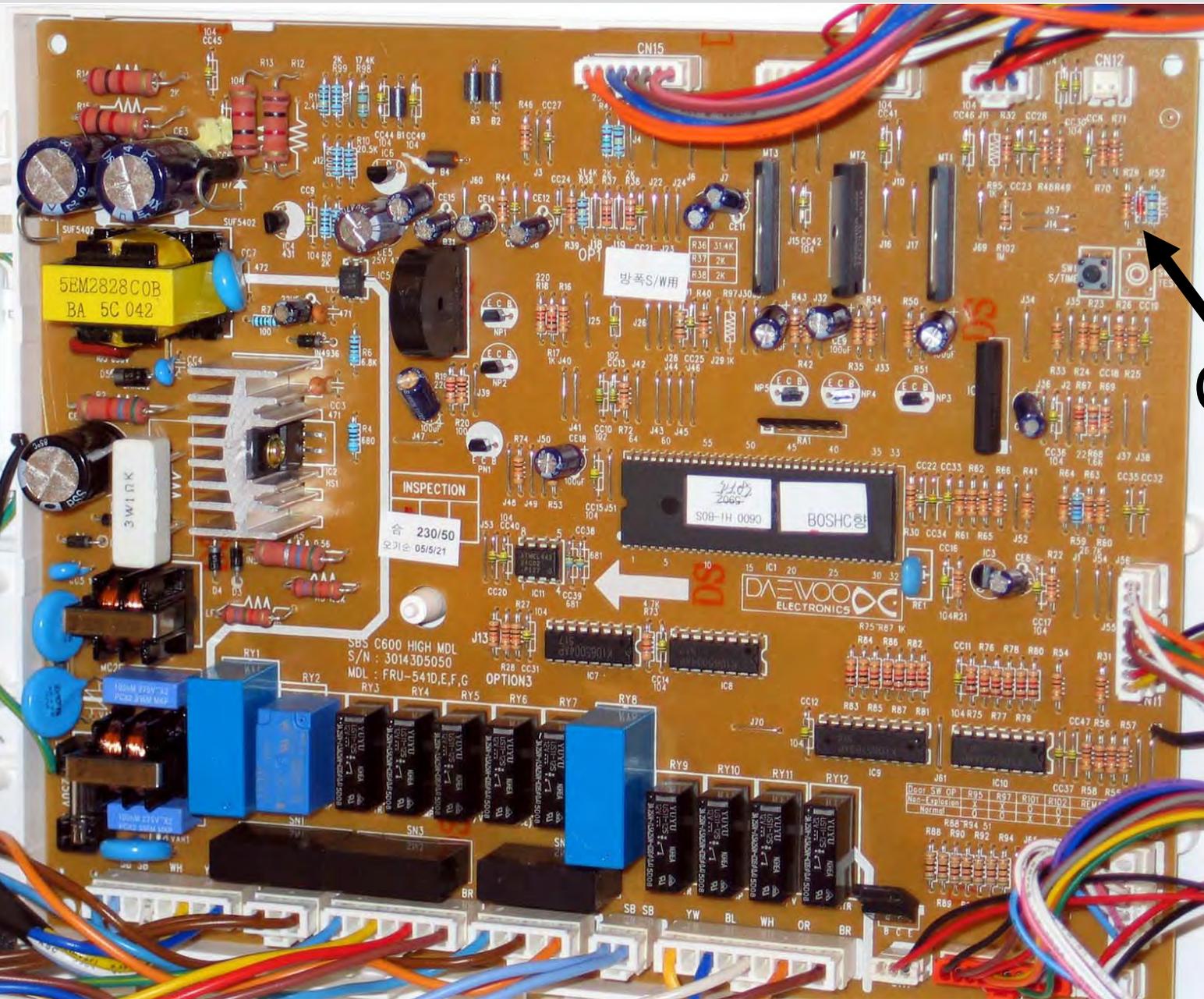
Defrosting sensor

A close-up photograph of a defrosting sensor mounted on a refrigerator's evaporator coil. The sensor is a small, cylindrical component with a black electrical lead. It is connected to a copper pipe that is part of the evaporator coil. The coil is made of copper pipes with aluminum fins. A red circle highlights the sensor and its connection point.



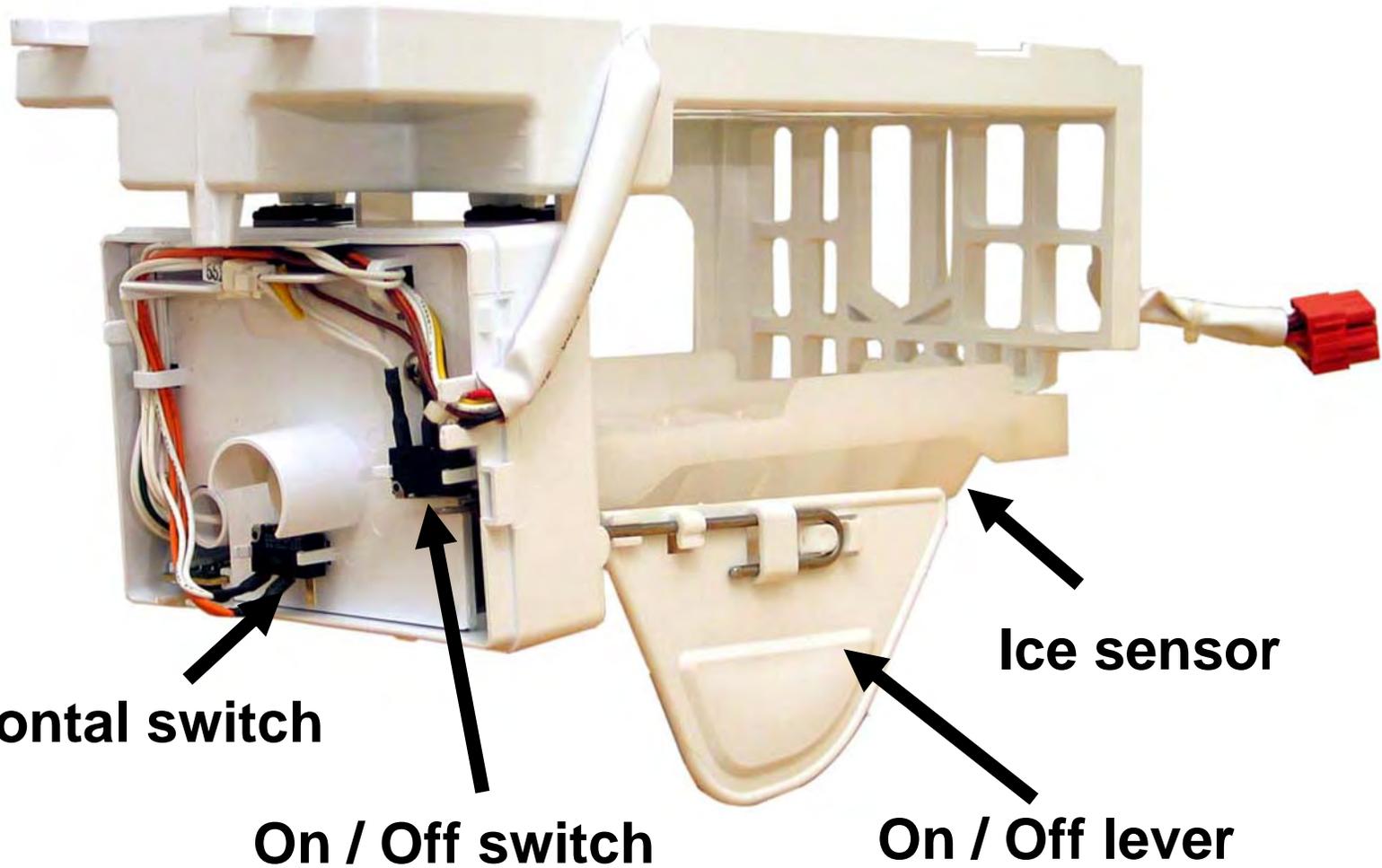


Sensor locations



Compartment sensor

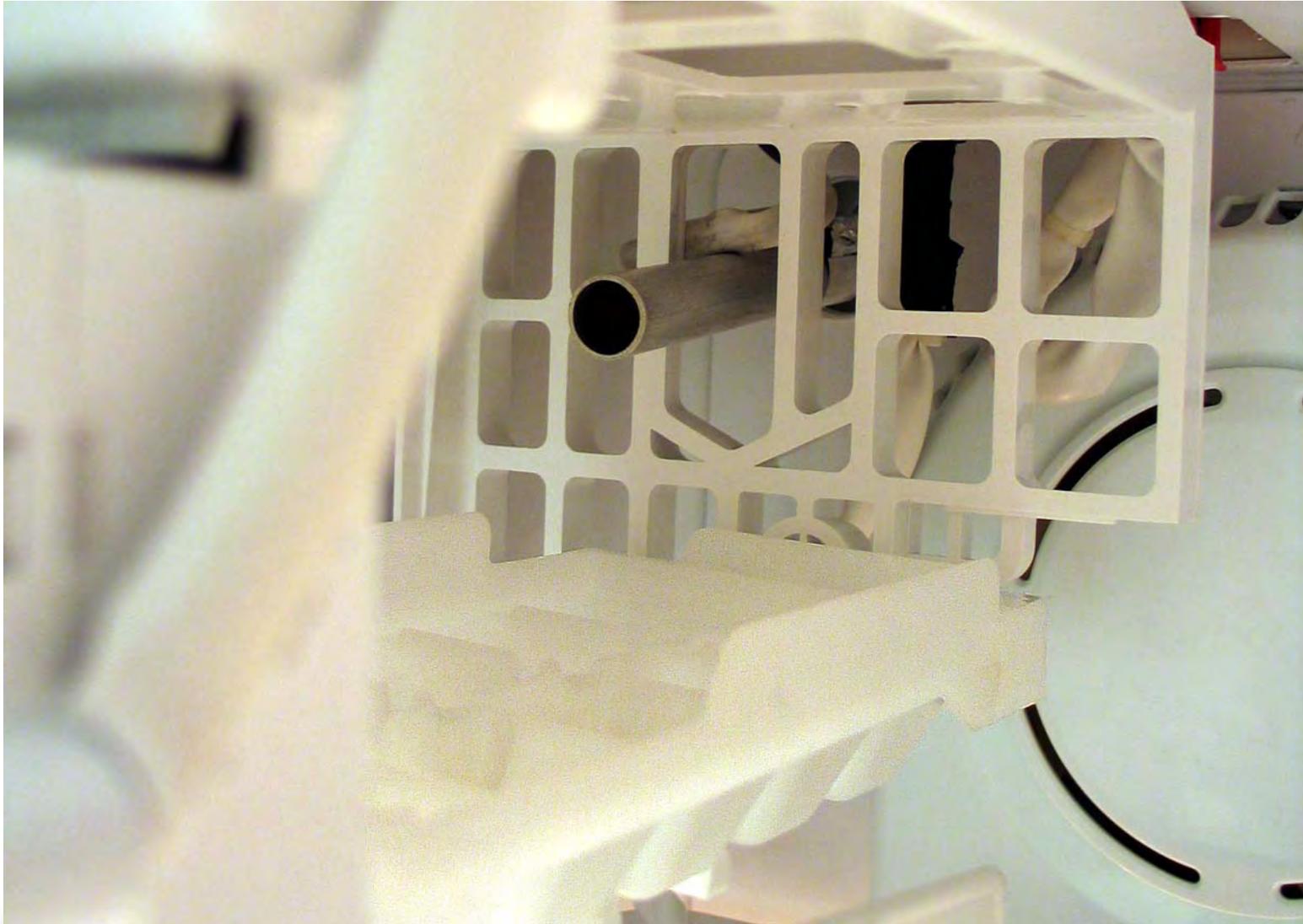
Ice Maker



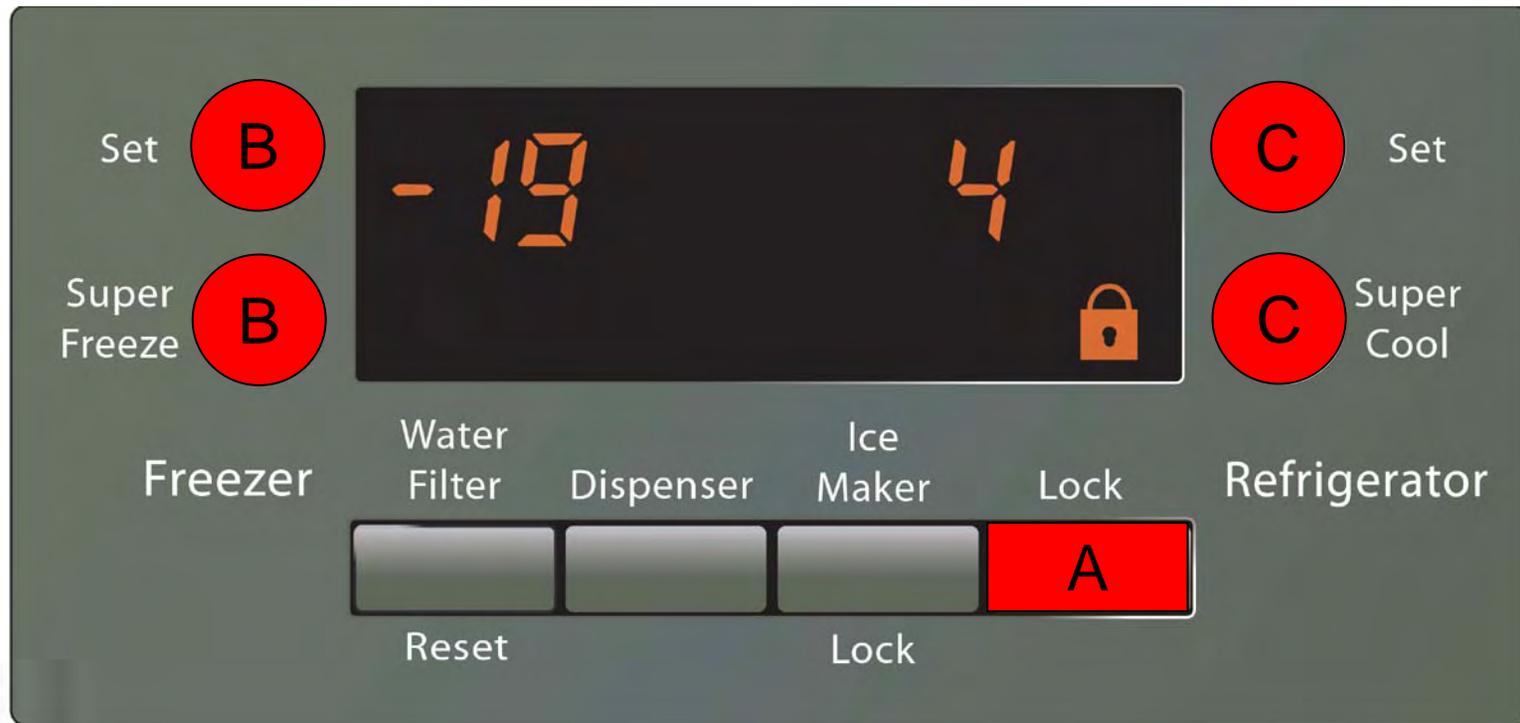
Ice maker test switch



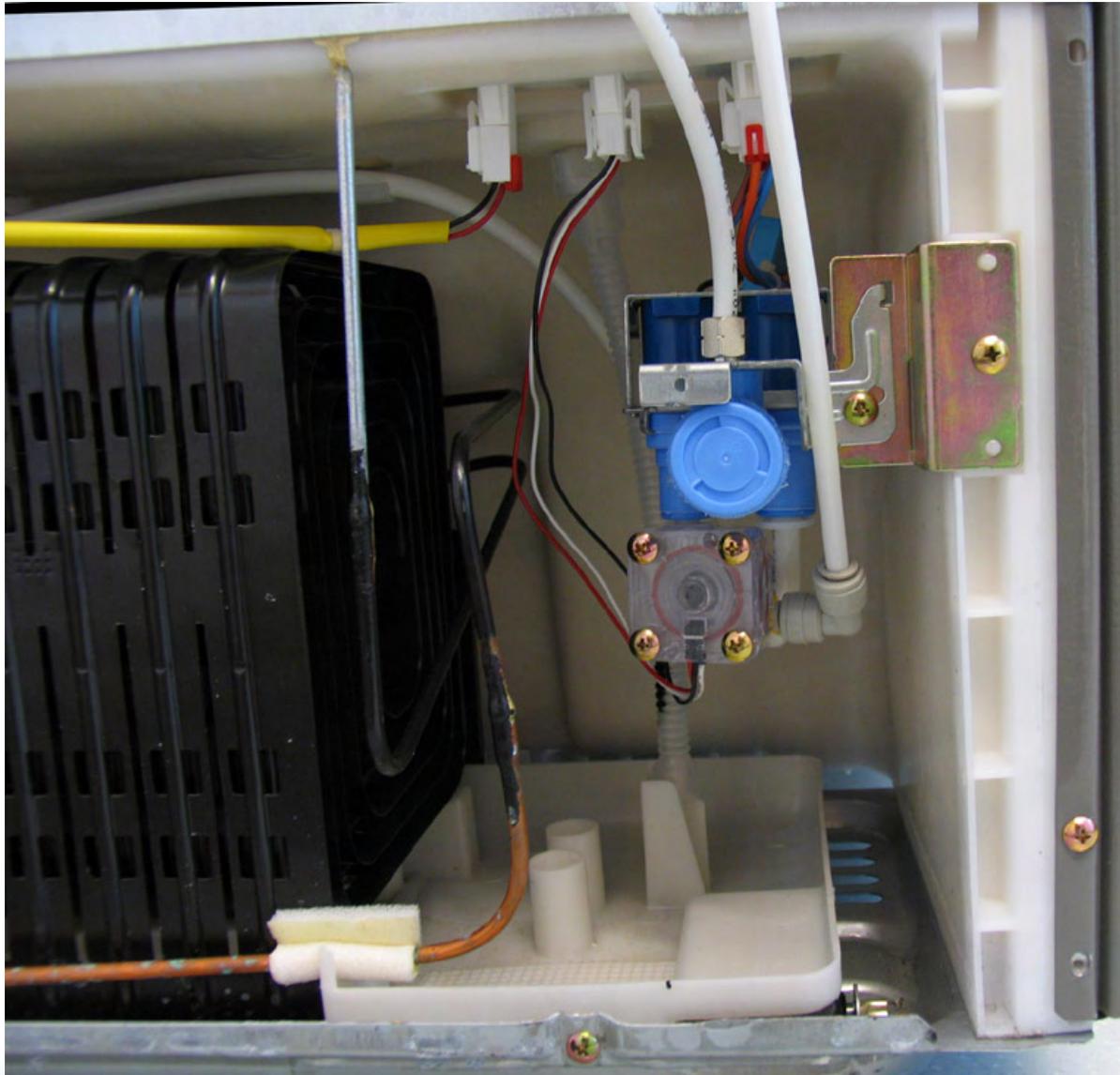
Water supply to ice maker



Water Supply Flow Rate



Water Supply Valve



Ice dispenser



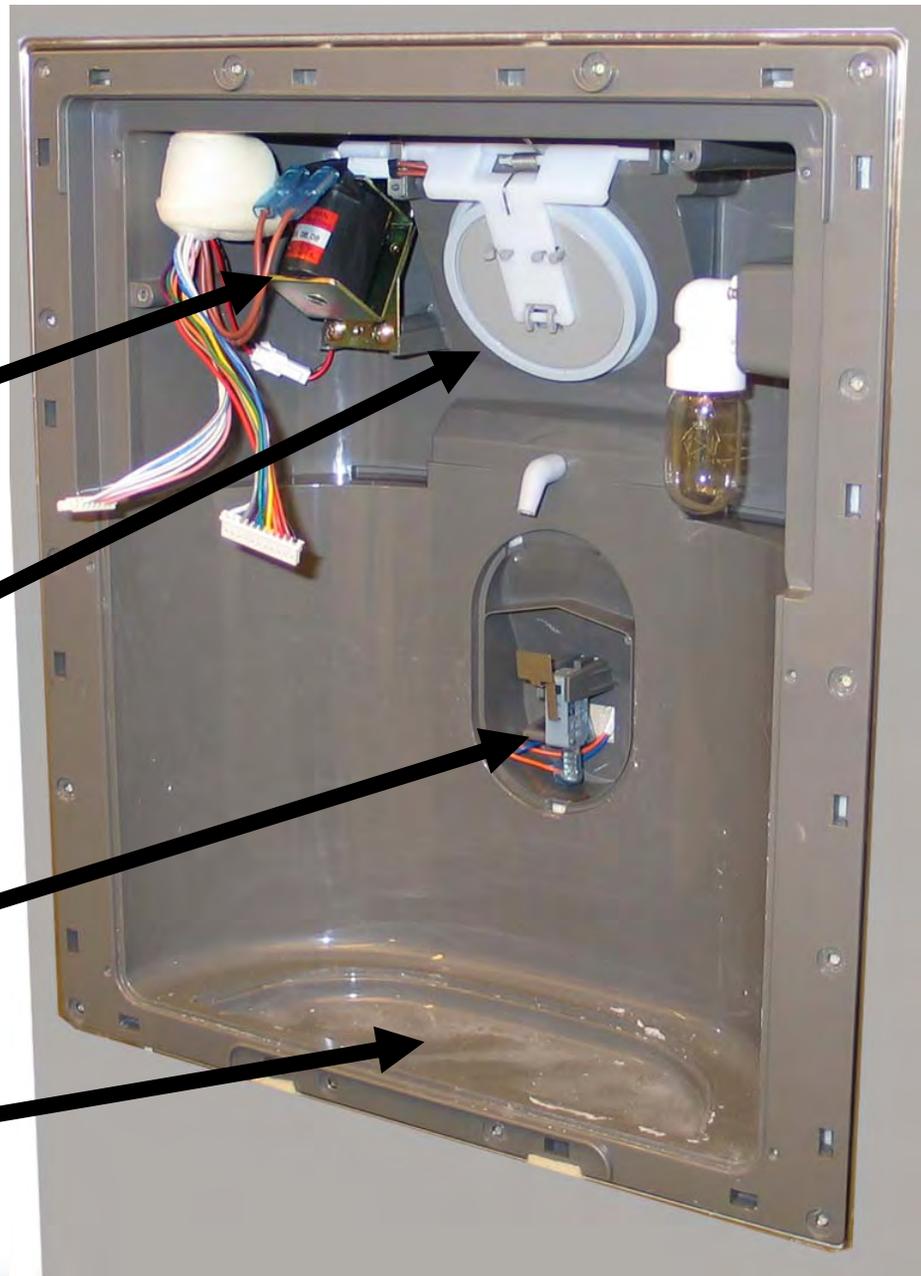
Ice dispenser

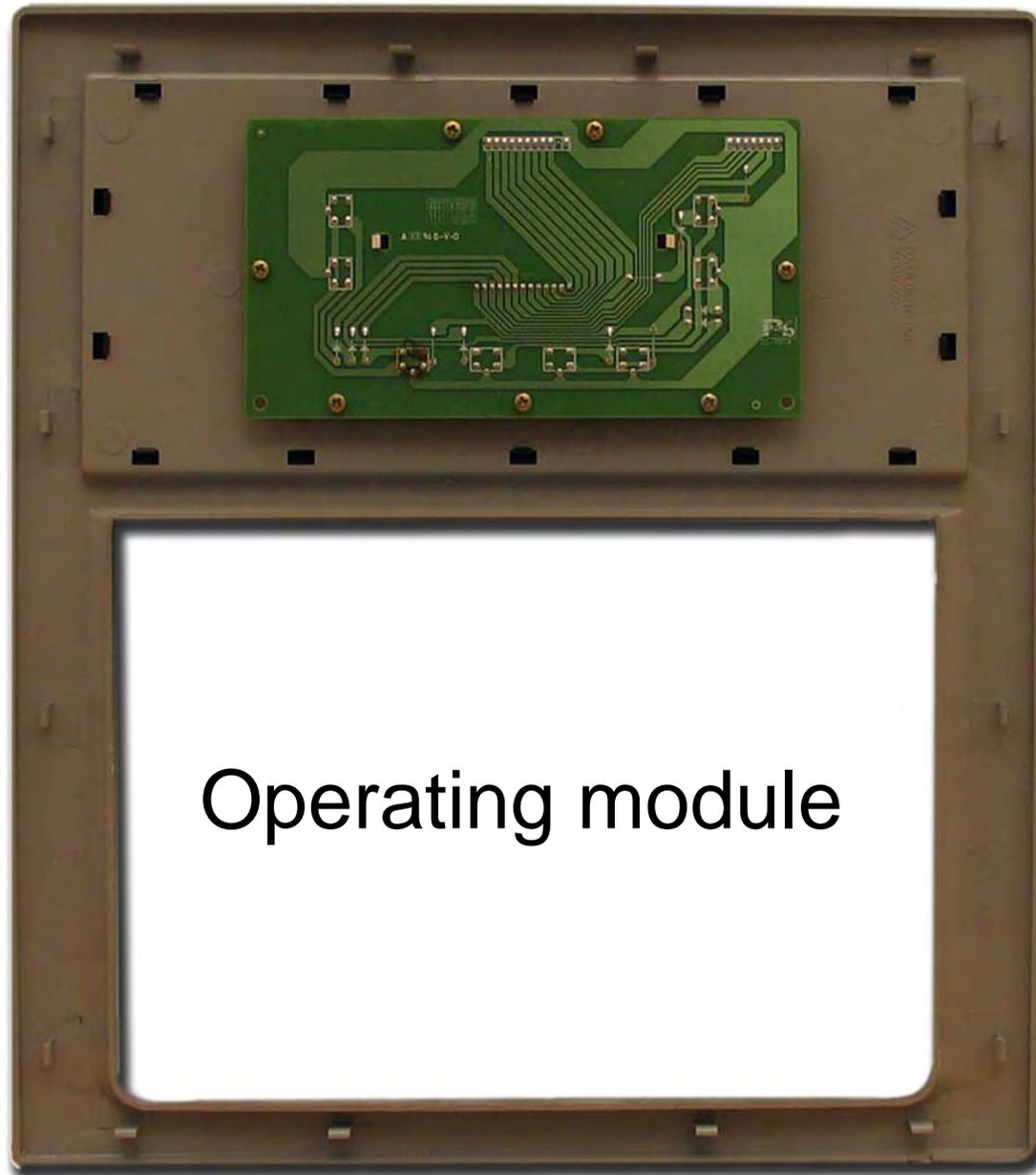
Lifting magnet

Dispenser flap

Dispenser switch

Dispenser base heater





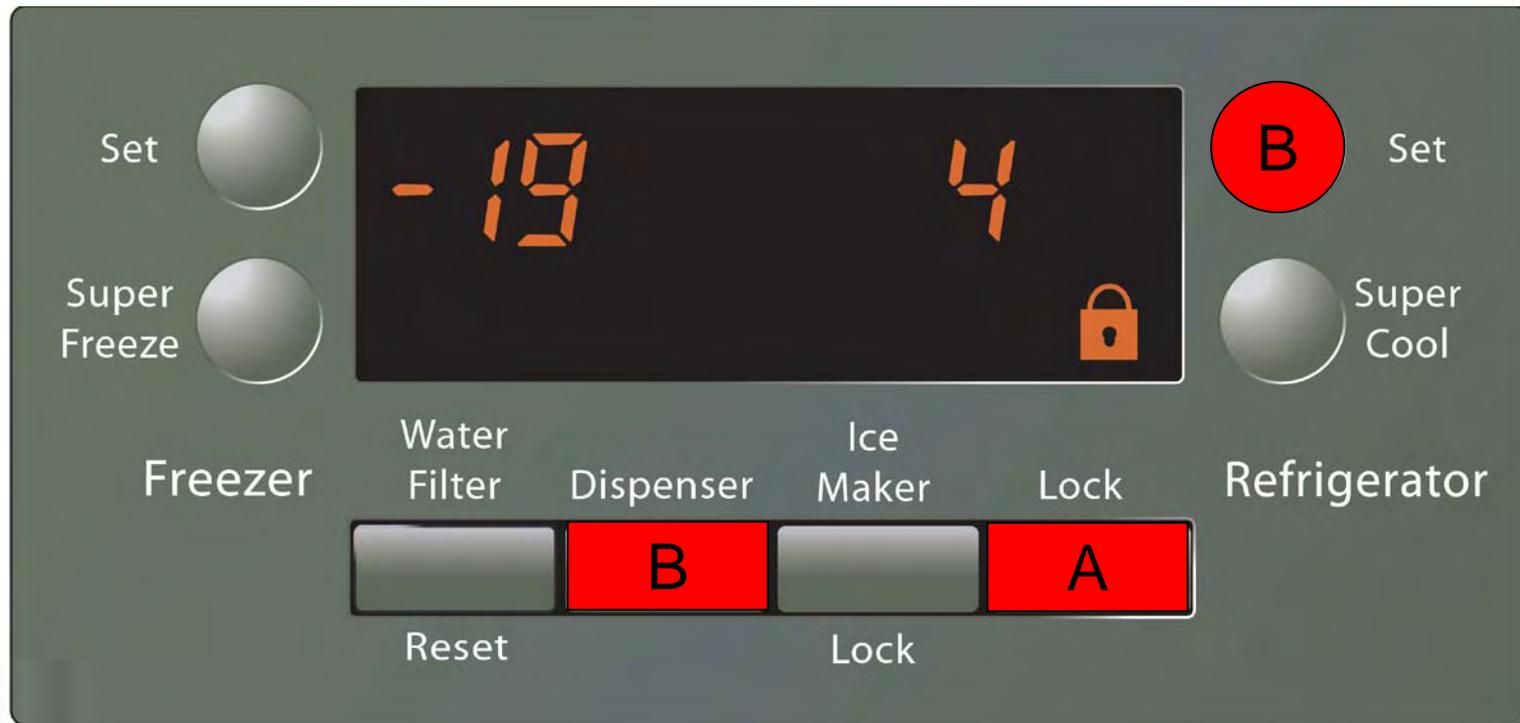
Operating module

Acoustic Signals

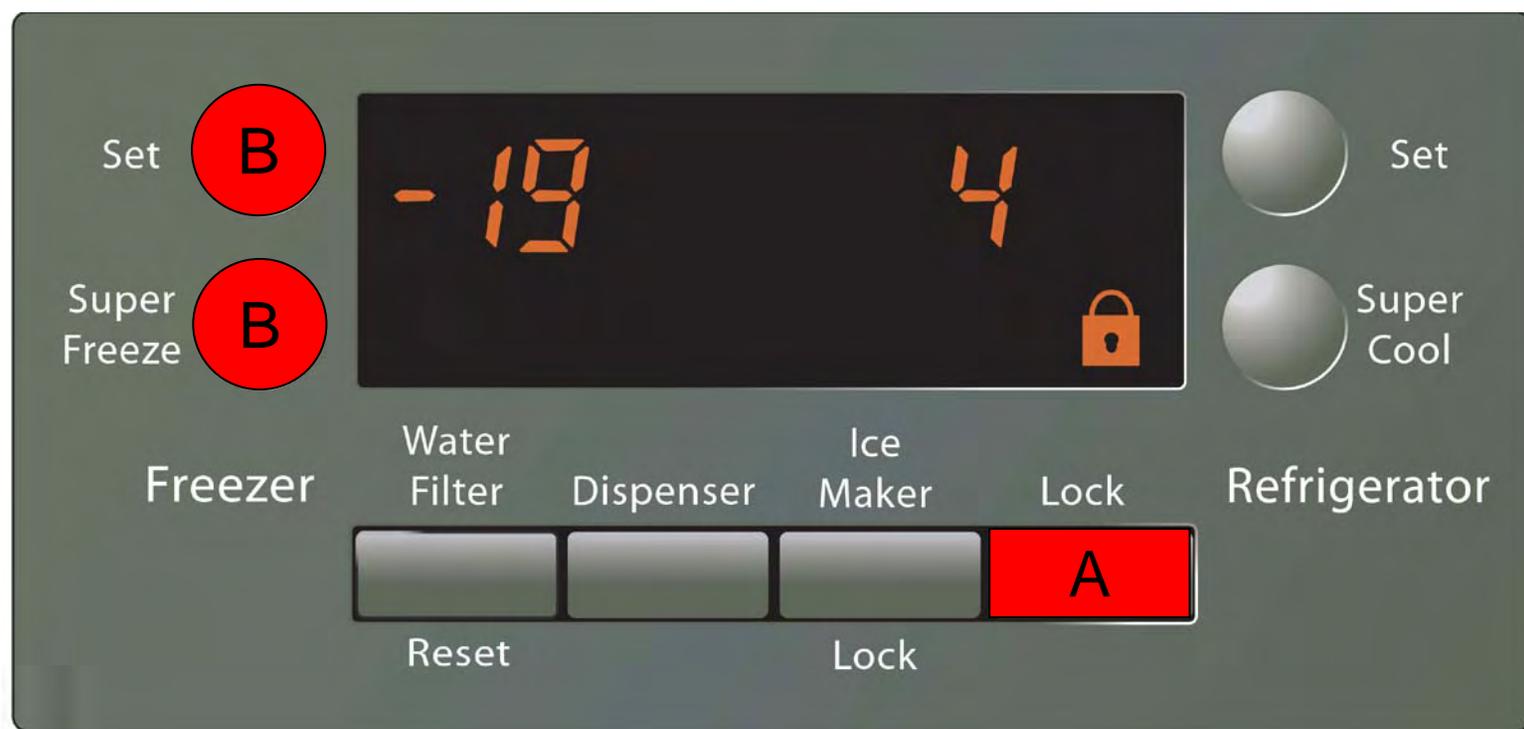
A signal sounds (4 times in 3 sec) when the appliance starts running.

If one of the doors is open for longer than 1 min, an alarm sounds for 5 min at intervals.

Demo Programme



Enter Test Programme



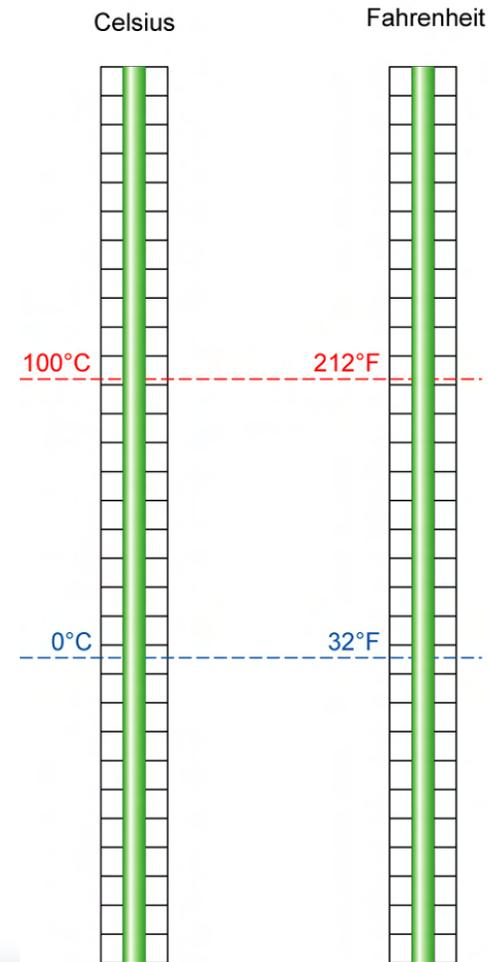
Test Programme

Test step	Function
1	Running time of appliance
2	Freezer compartment sensor temperature (in ° Fahrenheit)
3	Defrosting sensor temperature (in ° Fahrenheit)
4	Refrigerator compartment sensor temperature (in ° Fahrenheit)
5	Compartment sensor temperature (in ° Fahrenheit)
6	Time remaining until next ice making cycle
7	Time remaining until next water filter change

The error display is indicated after the test steps

°F	°C
-22	-30
-13	-25
-8	-22
-4	-20
0	-18
5	-15
14	-10
23	-5
32	0
41	5
50	10
59	15
68	20

Conversion from Fahrenheit to Celsius

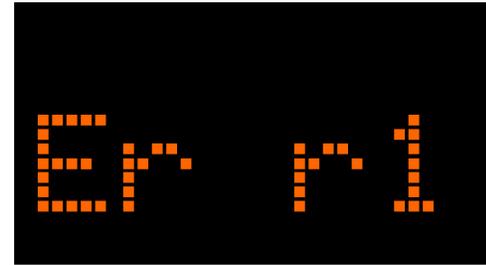


Error display



Freezer compartment sensor	Interruption or short-circuit
Troubleshooting	Test the control module
Repair	Replace freezer compartment sensor

Error display



Refrigerator compartment sensor	Interruption or short-circuit
Troubleshooting	Test the control module
Repair	Replace refrigerator compartment sensor

Error display



Ambient temp. sensor	Interruption or short-circuit
Troubleshooting	Compartment sensor is located on the control electronics module and cannot be changed
Repair	Replace control electronics module

Error display



Defrosting sensor	Interruption or short-circuit
Troubleshooting	Test the control module
Repair	Change defrosting sensor

Error display



Door switch refrigerator compartment	Door switch has been open for longer than 1 h
Troubleshooting	Open and close refrigerator compartment door
Repair	Replace door switch

Error display



Door switch freezer compartment	Door switch has been open for longer than 1 h
Troubleshooting	Open and close freezer compartment door
Repair	Replace door switch

Error display



Ice sensor	Interruption or short-circuit. Ice making is interrupted
Troubleshooting	Test the ice sensor
Repair	Replace ice sensor

Error display



Flow sensor	No signal. Ice making is interrupted
Troubleshooting	Flow sensor is in the water solenoid valve and cannot be changed
Repair	Replace water solenoid valve

Error display



Horizontal switch ice maker	Switch does not close during the ice making cycle. Ice making is interrupted
Troubleshooting	Check horizontal switch on the ice maker
Repair	Replace horizontal switch

Error display



On / Off switch ice maker	Switch does not close over a long period ? Ice making is interrupted
Troubleshooting	Check On / Off switch on the ice maker
Repair	Replace On / Off switch

Error display



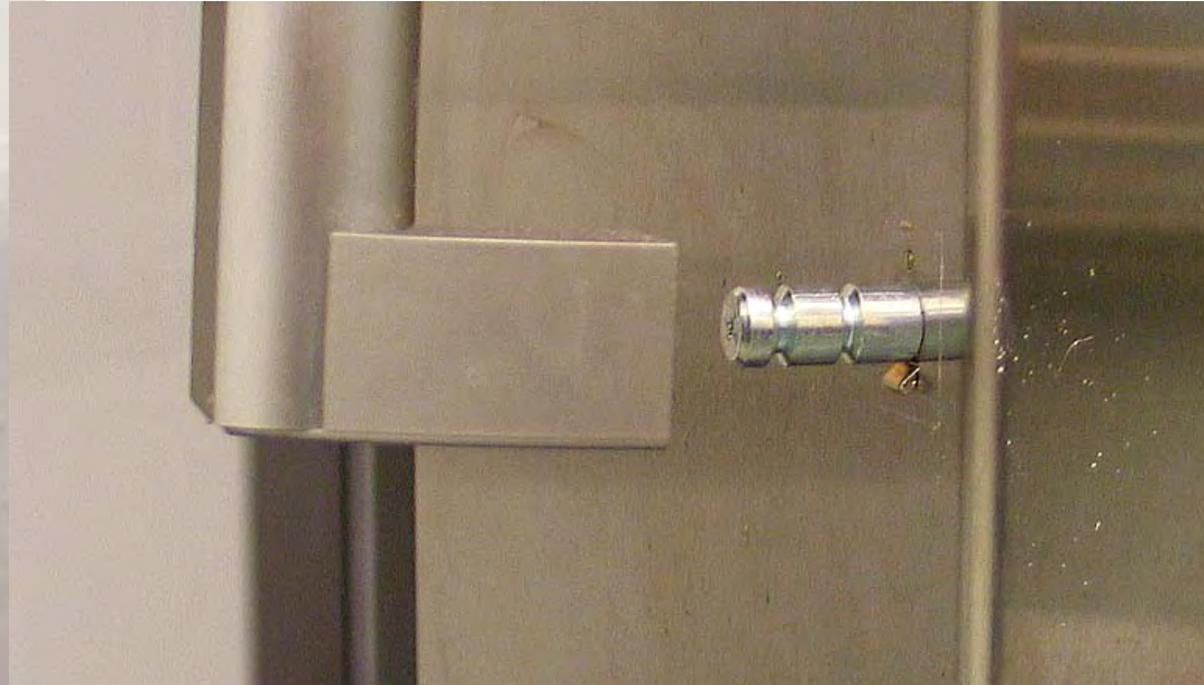
Dispenser switch	Closed for longer than 1 min
Troubleshooting	Check dispenser switch
Repair	Replace switch

Error display



Motor for ice cube tray	Motor defective
Troubleshooting	Test function on the ice maker (green pushbutton)
Repair	Replace motor

Removing the handle





Removing the handle

