



## Technical Specification

Customer Name : Pars Appliance MFG. CO.

Model Name : 1700 No Frost  
Twin Frz



## Function Specification for Twin Frz : "1700 No Frost"

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### Keys & Function



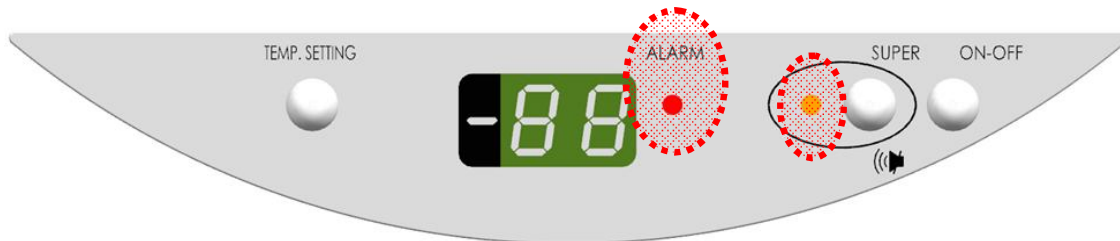
- TEMP.SETTING                      Setting the Ref Room Temperature (-16°C ~ -24°C)
- SUPER (Mute)                      Canceling the Buzzer Sound
- SUPER (3 seconds)                Setting the "Super Freeze Mode"
- ON/OFF                              Power ON/OFF during the Plug-In states  
Note>  
During the OFF Mode, all Function should be not workable.  
(including not checking the Error)

#### Cf> Dual Keys

- Manual Defrost Mode (Hr)                "SUPER + ON/OFF" (5 seconds)
- Test Mode                              "TEMP.SETTING + SUPER" (5 seconds)
- States Mode (St)                      "TEMP.SETTING + SUPER + ON/OFF" (5 seconds)

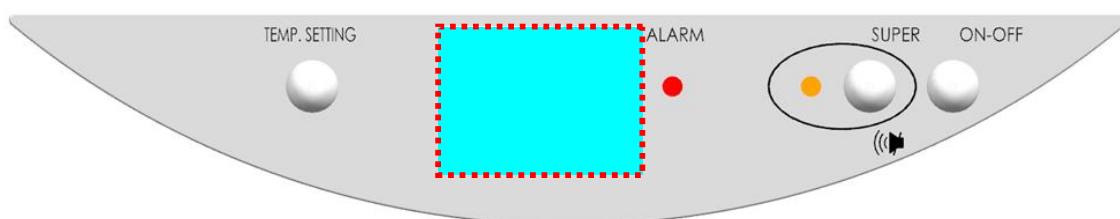
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### Indicating LED Lamp



- "ALARM" LED Lamp  
indicating the abnormal working state as like Door Open / Error  
Red Color  
Blanking ON / OFF  
Note>  
If the Door is opened for over 60 seconds, the Buzzer Sound becomes activated. (ON 0.5 seconds / OFF 0.5 seconds)
- "SUPER" LED Lamp  
Indicating the "Super Freeze Mode" activating  
Yellow Color  
ON / OFF

### Displaying Temperature



- "-88" Segments  
indicating the Setting Temperature / Error Code / States Code

Remarks>

During the Cooling mode, the Setting Temperature is displayed after reaching to -9°C.

The Blinking can be canceled by pushing the Mute key.

### Cooling Mode / Setting the Temperature

#### 1. Plug-In & Entering the Cooling Mode

Under the "ON" Setting,  
the Refrigerator (Twin Frz : 1700 No Frost) is working in accordance with below Cut-In / Cut-Off.

Setting Temp.	Cut-In (Comp ON) Temp by Room Sensor	Cut-Off (Comp Off) Temp by Room Sensor
-16 °C	-14 °C	-17°C
-17 °C	-15 °C	-18 °C
-18 °C	-16 °C	-19 °C
-19 °C	-17 °C	-20 °C
-20 °C	-18 °C	-21 °C
-21 °C	-19 °C	-22 °C
-22 °C	-20 °C	-23 °C
-23 °C	-21 °C	-24 °C
-24 °C	-22 °C	-25 °C

#### 2, Displaying the Temperature and Setting the Temperature during the Cooling Mode

- Default Temp : -20 °C
- How to set the Temperature
  - Pushing the "Temp" key for 2 seconds, Blinking in Temp Setting during during Temp Setting.
  - -20 °C → -21 °C → -22 °C → -23 °C → -24 °C → -16 °C → -17 °C → ....→ -20 °C
- During the Cooling Mode, the Setting Temperature is displayed on the Display Panel.

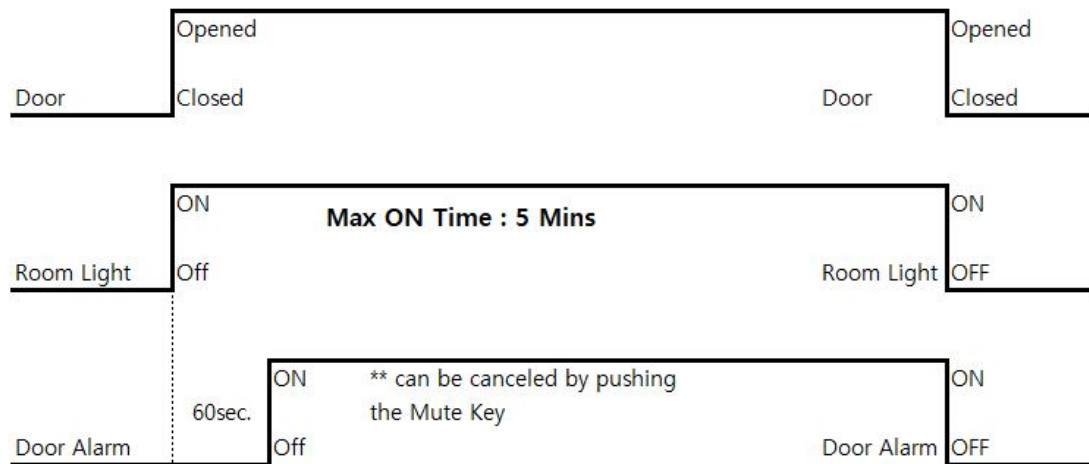
Note> In "over -9°C since Plug-in", the Real Temperature is displayed with blinking.  
The Blinking can be canceled by pushing the Mute key.

Remarks> The latest Setting Temperature is saved even in plug-out.

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### 3, Room LED / Alarm in Door Open



- Room LED ON Max : 5 minutes
- Door Alarm is kept blanking if the Door is continuously opened since 60 seconds later.
- Buzzer Sound becomes ON (ON 0.5 seconds  $\leftrightarrow$  OFF 0.5 seconds) with the Door Alarm ON. And it can be canceled by pushing the Mute key. And it will not become again ON until the Door is opened. But Mute Alarm will reset when the Door is Closed

### Super Freeze Mode

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#### How to enter / terminate

Pushing the Super key for 3 seconds

#### Operating the Super Cooling Mode

- Continuously Comp ON & Fan ON 24 Hours until reaching to  $-31^{\circ}\text{C}$
- Yellow LED ON  
& Displaying "SU" in Super Freeze Mode (not displaying the Temp)
- Once automatically finishing the Super Freeze Mode (in 24 Hrs /  $-31^{\circ}\text{C}$ ) the Auto Defrost Mode will be automatically started.

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### Defrost Mode

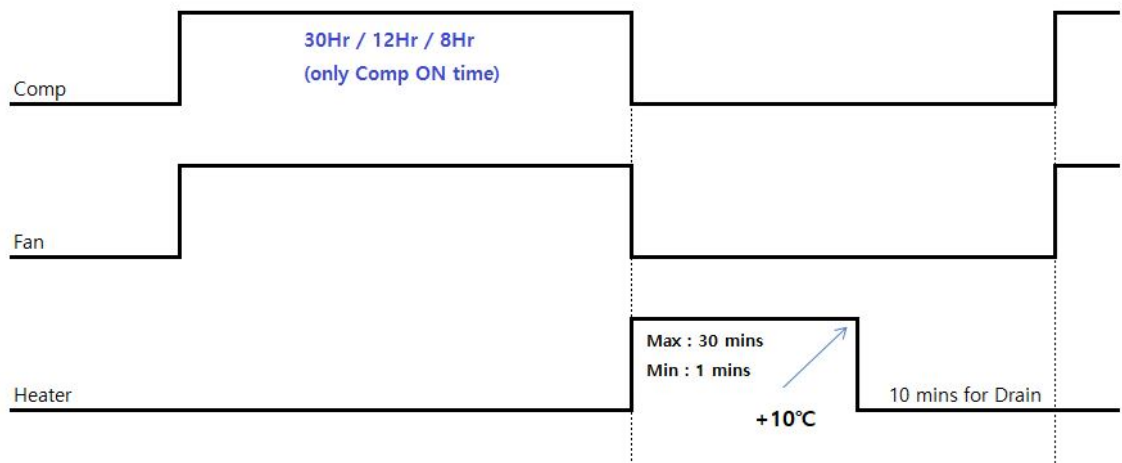
#### 1 > Auto Defrost

- Defrost Cycle Time
  - Total Comp ON 30 Hours (not opening the Door)
  - Total Comp ON 12 Hours (Door Open 1 ~ 3 times)
  - Total Comp ON 8 Hours (Door Open over 3 times)
- Heater ON Time (Maximum) : 30 minutes
- Heater ON Time (Minimum) : 1 minute
- Heater OFF Temperature (after passing 1 minute) : +10°C

Note>

In Defrost Sensor Error, NO Defrost

- Water Drain Time (after Heater OFF) : 10 minutes (Comp On / Fan ON Delay)

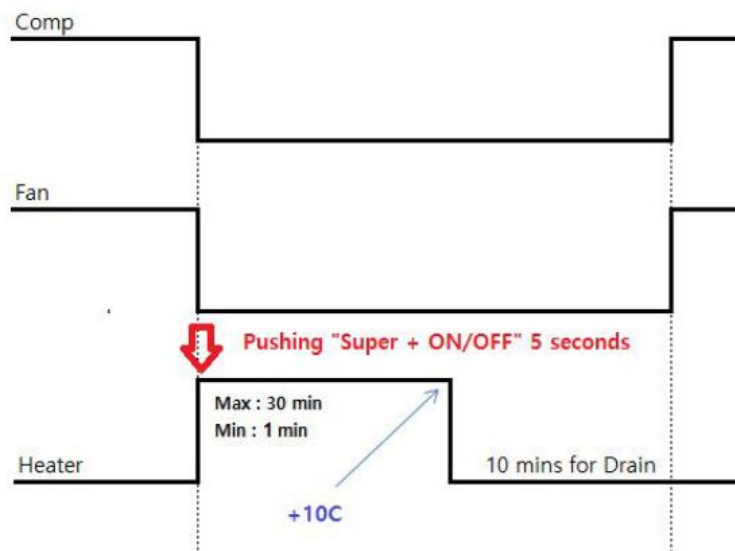


Note> During the Auto Defrost Mode, the Setting Temperature is displayed.

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### 2> Manual Defrost

- How to enter : "Super + ON/OFF" for 5 seconds
- Heater ON Time (Maximum) : 30 minutes
- Heater ON Time (Minimum) : 1 minute
- Heater OFF Temperature (after passing 1 minute) : +10°C
- Water Drain Time (after Heater OFF) : 10 minutes (Comp On / Fan ON Delay)



Note> During the Manual Defrost Mode, "Hr" is displayed.  
Only during Heater ON condition, "Hr" is displayed. During Drain time, there's no "Hr".

Note> In Defrost Sensor Error, NO Defrost

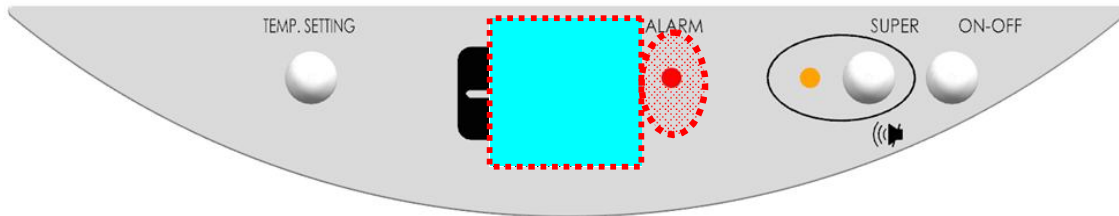
Note> During the Manual Defrost Mode,  
Once pushing "Super + ON/OFF", this Manual Defrost Mode can be terminated.

Note> During the Manual Defrost Mode,  
Once pushing "Temp + Super + ON/OFF", the State Mode can be entered.  
But the Manual Defrost Mode should be continuously working even in State Mode.



### Error Mode

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#### 1. Room Sensor Error : Error Code "FF"

- Room Sensor "Open / Short" condition
- Displaying Error code : FF
- Alarm ON with Buzzer Sound ON (ON 1 second  $\leftrightarrow$  OFF 1 second)  
But Buzzer Sound can be OFF by Pushing the Mute key.  
And it will not become again ON until the Door is opened.
- Comp ON 30 minutes  $\leftrightarrow$  Comp OFF 30 minutes

#### 2. Defrost Sensor Error : Error Code "dF"

- Defrost Sensor "Open / Short" condition
- Displaying Error code : dF
- Alarm ON with Buzzer Sound ON (ON 1 second  $\leftrightarrow$  OFF 1 second)  
But Buzzer Sound can be OFF by Pushing the Mute key.  
And it will not become again ON until the Door is opened.
- NO Defrost

#### 3. Cooling Error : Error Code "LO"

- Room Temperature is continuously "over  $-9^{\circ}\text{C}$  (as like  $-8^{\circ}\text{C}$ ) for 10 hours".
- Displaying Error code : LO
- Alarm ON with Buzzer Sound ON (ON 1 second  $\leftrightarrow$  OFF 1 second)  
But Buzzer Sound can be OFF by Pushing the Mute key.  
And it will not become again ON until the Door is opened.

#### 4. Defrost Error : Error Code "HE"

- Even though passing the Heater ON Max Time (30 minutes), the Defrost Sensor Temp is not reached to  $+10^{\circ}\text{C}$

### Test Mode

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#### How to enter

Pushing the "Temp + Super" keys for 5 seconds in the Normal Cooling Mode

#### Auto Test Mode

automatically starting to Test the parts (Comp / Fan / Heater / Room Lamp) as below.

- Turning ON 88-Segments for each 1 second interval
- Turning ON LED (RED LED / YELLOW LED) for each 1 second interval
- 5 seconds Delay Time for checking the 3 keys
- Comp ON for 5 seconds
- Heater ON for 5 seconds
- Room Lamp ON for 5 seconds

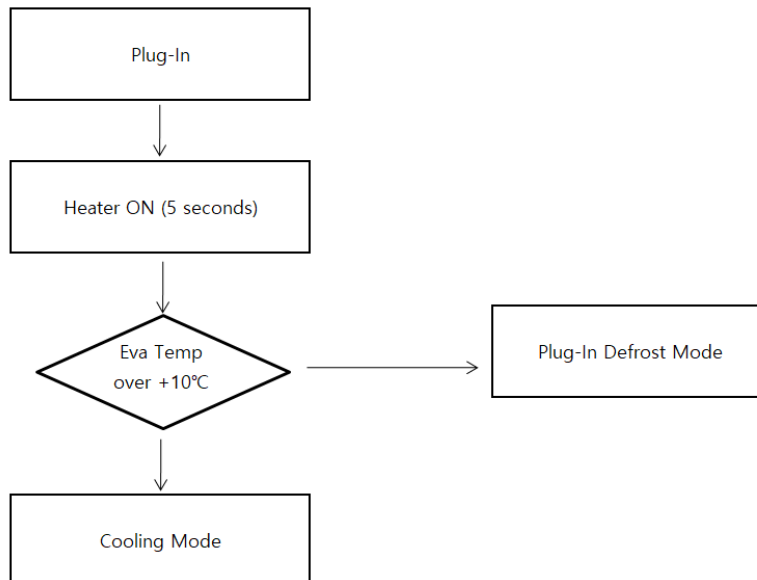
And then,

Automatically returning to the Normal Cooling Mode

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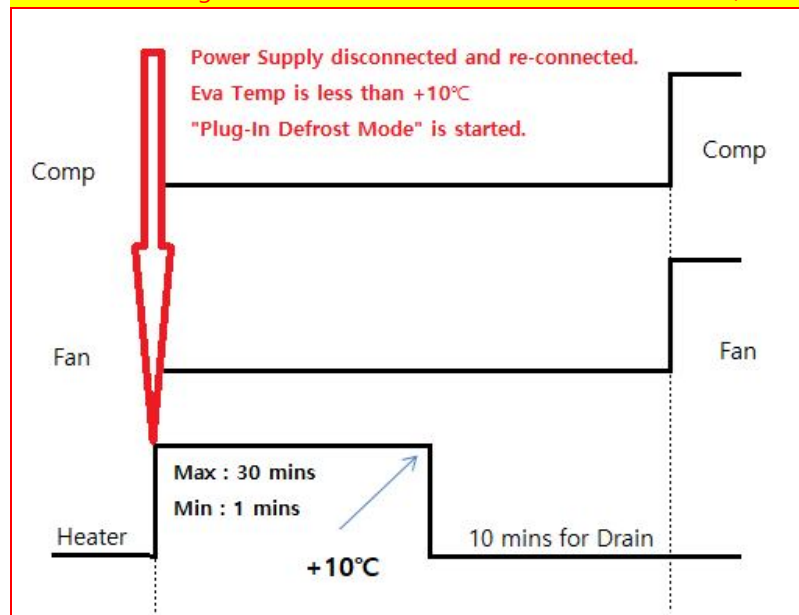
### Plug-in Heater Test Mode (5 seconds) / Plug-in Defrost Mode

After plug-in (Power ON), the Defrost Heater immediately becomes ON for 5 seconds for factory checking.



#### Note>

In this above "Plug-in Defrost Mode" there's the Water Drain Time (10 minutes) after Defrost Heater OFF.



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### States Mode

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#### How to enter

Pushing the "Temp + Super + ON/OFF" keys for 5 seconds  
Displaying the "St" in States Mode,  
pushing "Temp" key

#### Displaying the States in sequence

tA (Room Temperature)  
Temp  
tE (Eva Temperature)  
Temp  
CO (Compressor)  
ON / -- (OFF)  
Hr (Heater)  
ON / -- (OFF)

#### How to terminate

Pushing the "Temp + Super + ON/OFF" keys  
Or  
If no key is pressed after 2 minutes, automatically returning to the Normal Cooling Mode.