

### Undercounter & Food Prep Tables Installation & Operation Manual

Please read this manual completely before attempting to install or operate this equipment!



#### IMPORTANT SAFETY INSTRUCTIONS (SAVE THESE INSTRUCTIONS) Visit us on the web at www.mvpgroupcorp.com



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## **RECEIVING AND INSPECTING THE EQUIPMENT**

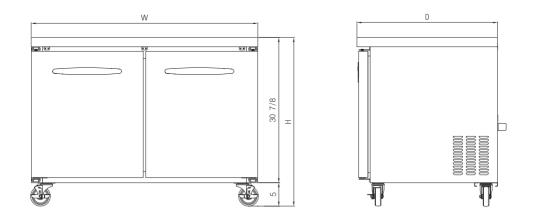
Even though most equipment is shipped crated, care should be taken during unloading so the equipment is not damaged while being moved into the building.

- 1. Visually inspect the exterior of the package and skid or container. Any damage should be noted on the delivery slip and reported to MVP Group immediately at 1-888-275-4538; 514-737-9701.
- 2. If damaged, open and inspect the contents with the carrier.
- 3. WITHIN 48 HOURS OF RECEIPT : In the event that the exterior is not damaged, yet upon opening, there is concealed damage to the equipment, notify MVP Group immediately at 1-888-275-4538; 514-737-9701.
- 4. Be certain to check the compressor compartment housing and visually inspect the refrigeration package. Be sure lines are secure and base is still intact.
- 5. Retain all crating material until an inspection has been made or waived.

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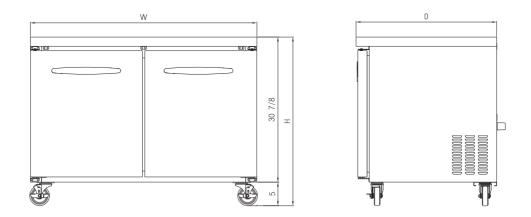
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| Product                   |            | Undercounter Refrigerator      |             |           |           |           |  |
|---------------------------|------------|--------------------------------|-------------|-----------|-----------|-----------|--|
| Model                     |            | KUCR-27-1                      | KUCR-36-2   | KUCR-48-2 | KUCR-60-2 | KUCR-72-3 |  |
| Capacity(cu.ft)           |            | 7                              | 9.5         | 13.1      | 16.7      | 20.2      |  |
| Exterior Dimensions       | W          | 27 1/2                         | 36 3/8      | 48 3/8    | 60 3/8    | 72 3/8    |  |
| (Including 4" Casters)    | D          | 30                             | 30          | 30        | 30        | 30        |  |
| [in]                      | Н          | 35 7/8                         | 35 7/8      | 35 7/8    | 35 7/8    | 35 7/8    |  |
| Net Weight (Ibs)          |            | 132                            | 157         | 181       | 212       | 247       |  |
| Type of refrigeration sys | tem        | Indirect cooling (Fan blowing) |             |           |           |           |  |
| Control                   |            | ELECTRONIC PCB                 |             |           |           |           |  |
| Number of Shelves         | S          | 2                              | 4           | 4         | 4         | 6         |  |
| Number of Doors           |            | 1                              | 2           | 2         | 2         | 3         |  |
| Rated Voltage             |            | 115V/60Hz                      |             |           |           |           |  |
| Type of Power Core        | d          |                                | NEMA 5-15   |           |           |           |  |
| Amps                      |            | 3.6                            | 3.8         | 3.9       | 4.7       | 5.2       |  |
| Compressor(HP)            |            | 1/4                            | 1/4         | 1/4       | 1/4       | 1/4       |  |
| R-290 Refrigerant (oz     | <u>;</u> ) | 1.41                           | 1.62        | 1.98      | 2.12      | 2.89      |  |
| Operating Range           |            |                                | 33°F ~ 41°F |           |           |           |  |



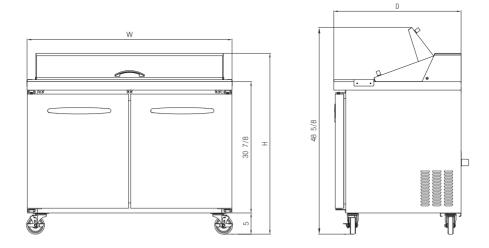
- Specifications and Designs are subject to change without notice.
- The rating plate (including Serial No.) is located on the upper left side of the cabinet interior.

| Product                   | Undercounter Freezer |                                |                 |                 |                 |   |  |
|---------------------------|----------------------|--------------------------------|-----------------|-----------------|-----------------|---|--|
| Model                     |                      | KUCF-27-1                      | KUCF-36-2       | KUCF-48-2       | KUCF-60-2       |   |  |
| Capacity(cu.ft)           |                      | 7                              | 9.5             | 13.1            | 16.7            |   |  |
| Exterior Dimensions       | W                    | 27 1/2                         | 36 3/8          | 48 3/8          | 60 3/8          |   |  |
| (Including 4" Casters)    | D                    | 30                             | 30              | 30              | 30              |   |  |
| [in]                      | Н                    | 35 7/8                         | 35 7/8          | 35 7/8          | 35 7/8          |   |  |
| Net Weight (Ibs)          |                      | 139                            | 165             | 190             | 223             |   |  |
| Type of refrigeration sys | tem                  | Indirect cooling (Fan blowing) |                 |                 |                 |   |  |
| Control                   |                      | ELECTRONIC PCB                 |                 |                 |                 |   |  |
| Number of Shelve          | s                    | 2                              | 4               | 4               | 4               | 6 |  |
| Number of Doors           |                      | 1                              | 2               | 2               | 2               | 3 |  |
| Rated Voltage             |                      | 115V/60Hz                      |                 |                 |                 |   |  |
| Type of Power Core        | d                    |                                | NEMA 5-15       |                 |                 |   |  |
| Amps                      |                      | 3.2                            | 5.2             | 6.0             | 6.2             |   |  |
| Compressor(HP)            | 1/4                  | 1/2                            | 1/2             | 1/2             |                 |   |  |
| Refrigerant (oz)          |                      | 1.98<br>(R-290)                | 2.58<br>(R-290) | 2.96<br>(R-290) | 3.03<br>(R-290) |   |  |
| Operating Range           |                      |                                | -3°F to         | -7°F or 5°F to  | -9.4°F          |   |  |



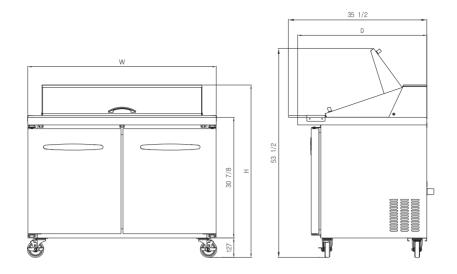
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| Product                   |          | Salad Table unit |                                |                |                |                |  |  |
|---------------------------|----------|------------------|--------------------------------|----------------|----------------|----------------|--|--|
| Model                     | KST-27-1 | KST-36-2         | KST-48-2                       | KST-60-2       | KST-72-3       |                |  |  |
| Capacity(cu.ft)           |          | 7                | 9.5                            | 13.1           | 16.7           | 20.2           |  |  |
| Exterior Dimensions       | W        | <b>27</b> 1/2    | 36 3/8                         | 48 3/8         | 60 3/8         | 72 3/8         |  |  |
| (Including 4" Casters)    | D        | 30               | 30                             | 30             | 30             | 30             |  |  |
| [in]                      | Н        | <b>42</b> 1/2    | <b>42</b> 1/2                  | <b>42</b> 1/2  | <b>42</b> 1/2  | <b>42</b> 1/2  |  |  |
| Net Weight (Ibs)          |          | 146              | 176                            | 214            | 236            | 273            |  |  |
| Type of refrigeration sys | tem      |                  | Indirect cooling (Fan blowing) |                |                |                |  |  |
| Control                   |          | ELECTRONIC PCB   |                                |                |                |                |  |  |
| Number of Shelve          | S        | 1                | 2                              | 2              | 2              | 3              |  |  |
| Number of Doors           |          | 1                | 2                              | 2              | 2              | 3              |  |  |
| 4" Deep PE Pans           |          | 8                | 10                             | 12             | 16             | 18             |  |  |
| Cutting Board             |          | 9 3/8 X 27 1/2   | 9 3/8 X 36 3/8                 | 9 3/8 X 48 3/8 | 9 3/8 X 60 3/8 | 9 3/8 X 72 3/8 |  |  |
| Rated Voltage             |          | 115V/60Hz        |                                |                |                |                |  |  |
| Type of Power Core        | d        | NEMA 5-15        |                                |                |                |                |  |  |
| Amps                      |          | 4.0              | 4.1                            | 4.5            | 4.7            | 5.3            |  |  |
| Compressor(HP)            |          | 1/4              | 1/4                            | 1/4            | 1/4            | 1/4            |  |  |
| R-290 Refrigerant (oz     | :)       | 1.41             | 1.62                           | 2.33           | 2.47           | 3.39           |  |  |
| Operating Range           |          |                  | 33°F ~ 41°F                    |                |                |                |  |  |



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| Product                   | Mega Top Table unit |                |                |                 |                |                |  |
|---------------------------|---------------------|----------------|----------------|-----------------|----------------|----------------|--|
| Model                     |                     | KSTM-27-1      | KSTM-36-2      | KSTM-48-2       | KSTM-60-2      | KSTM-72-3      |  |
| Capacity(cu.ft)           |                     | 7              | 9.5            | 13.1            | 16.7           | 20.2           |  |
| Exterior Dimensions       | W                   | <b>27</b> 1/2  | 36 3/8         | 48 3/8          | 60 3/8         | 72 3/8         |  |
| (Including 4" Casters)    | D                   |                | 33 1/8 (Inclue | ding cutting bo | oard 35 1/2)   |                |  |
| [in]                      | Н                   | 44 1/4         | <b>44</b> 1/4  | <b>44</b> 1/4   | 44 1/4         | 44 1/4         |  |
| Net Weight (Ibs)          |                     | 165            | 196            | 234             | 256            | 293            |  |
| Type of refrigeration sys | tem                 |                | Indirect of    | cooling (Fan bl | lowing)        |                |  |
| Control                   |                     | ELECTRONIC PCB |                |                 |                |                |  |
| Number of Shelves         | S                   | 1              | 2              | 2               | 2              | 3              |  |
| Number of Doors           |                     | 1              | 2              | 2               | 2              | 3              |  |
| 4" Deep PE Pans           |                     | 12             | 15             | 18              | 24             | 27             |  |
| Cutting Board             |                     | 9 3/8 X 27 1/2 | 9 3/8 × 36 3/8 | 9 3/8 X 48 3/8  | 9 3/8 × 60 3/8 | 9 3/8 X 72 3/8 |  |
| Rated Voltage             |                     | 115V/60Hz      |                |                 |                |                |  |
| Type of Power Core        | d                   | NEMA 5-15      |                |                 |                |                |  |
| Amps                      |                     | 4.1            | 4.1            | 4.7             | 4.9            | 5.4            |  |
| Compressor(HP)            |                     | 1/4            | 1/4            | 1/4             | 1/4            | 1/4            |  |
| R-290 Refrigerant (oz     | 4.1                 | 4.1            | 4.7            | 4.9             | 5.4            |                |  |
| Range of Temperatu        | ire                 |                |                | 33°F ~ 41°F     |                |                |  |



- Specifications and Designs are subject to change without notice.
- The rating plate (including Serial No.) is located on the upper left side of the cabinet interior.

## Serial number

The serial number is located on the rating label which is on the left interior wall. Please retain the unit's serial number for service purposes.

## **INSTALLATION**

- 1. GOOD AIR CIRCULATION Inside and Outside the Unit
  - Make sure to avoid any object which will interrupt or block the air flow inside the unit.
  - Make sure to leave enough space toward the interior rear wall to ensure good air circulation
  - Make sure to keep 7 inches space at the rear and sides of the unit.

#### 2. PLACE ON SOLID SURFACE

- A fully loaded unit can weigh over 1,000 pounds.

#### 3. DO NOT PLACE NEAR HEAT SOURCE

- Make sure to avoid hot corner or any location near stove, oven, or other heat source.

- High ambient temperature will cause cooling efficiency to drop.

#### 4. INDOOR USAGE ONLY

-This equipment is intended for indoor use only.

#### 5. STABILIZING

- Make sure the unit is installed on a solid surface with the front wheels locked while in use.

#### 6. LEVELING

- Make sure that the unit is leveled well from front to back and side to side.

#### 7. Unit should be connected to a dedicated electrical circuit.

- Do not use extension cords.
- Plug the unit to a dedicated electrical circuit & adequate capacity.

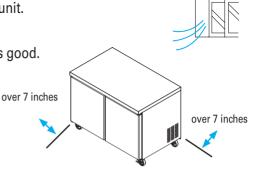
#### 8. Install plastic condensate pan in the bottom of the unit.

- Make sure pads are installed upwards and drain hose is in pan.

#### 9. Install the unit in a place where the air circulation is good.

- Maintain enough spaces around the unit since air
- to ensure the best cooling performance
- If air circulation is obstructed, then cooling

performance will drop, thus consuming more electricity as a result.



### % Reference

- If a door for left hand is necessary, please contact the sales representative in your area.
- · A set of door & Door hinge can be purchased separately to convert between Right Hand and Left Hand side

## **CLEANING**



WARNING - To reduce the risk of electric shock, unplug before cleaning or servicing.

#### 1. CLEANING THE INTERIOR AND EXTERIOR

-The interior and exterior of the unit can be cleaned using warm water with soap.

- Do not use an abrasive cleaner because it will scratch the surface.

#### 2. CLEANING THE GASKET

-The door gasket should be cleaned frequently to maintain proper sealing. Use warm water and a mild soap.

#### 3. CLEANING THE EVAPORATOR

-The condenser coil must be cleaned a minimum of every 90 days or more frequently if there is a large accumulation of dust.

-Clean the condenser coil with a soft brush or a vacuum. Brush only in the direction of the fins.

-If using compressed air, always blow the air from top to botton and never from left to right to avoid bending the fins.

-If there is a buildup of grease or you cannot remove the dust, call for service. This is not a warranty issue.

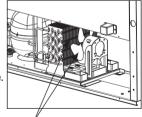
#### 4. CHECK AFTER CLEANING

- Check the unit again for safety.

- Check if the unit is operating properly.

#### 5. CONDENSER CLEANING

- ① Disconnect power to unit
- ② Take off rear cover at the bottom by removing screws.
- ③ Clean off accumulated dirt from condensing coil and fan blades with a soft brush. Make sure to brush in the direction of the fins and not across them to avoid any damage.
- ④ After brushing condenser coil, vacuum dirt from coil and interior floor.
- ⑤ Reinstall rear cover onto unit. Tighten all screws.
- ⑥ Connect unit to power and check to see if compressor is running.



Condensing coil & fan blades

## Caution

#### 1. POWER CORD

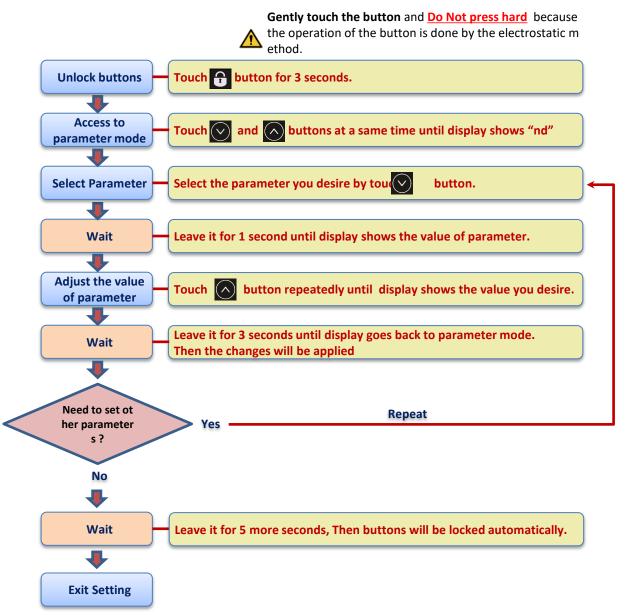
- Make sure the power cord is connected to the proper voltage.
- Compressor warranties are void if compressor burns out due to improper voltage.
- A protected circuit of the correct voltage and amperage must be used for connection of the power cord.
- -Turn 'off ' the power switch before disconnecting the power cord whenever performing maintenance functions or cleaning the refrigerated cabinet.
- If the power cord of the unit is damaged, it should be replaced by an authorized service agent.

#### 2. RE-STARTING

- If disconnected, wait 5 minutes before re-starting.

### **Parameter Setting**

Follow the steps to set the value of parameter.



### <Blue air> Default Value of Parameter

|    |         |   |  |                         | Tabl     | le Units                           |      |  |  |  |
|----|---------|---|--|-------------------------|----------|------------------------------------|------|--|--|--|
|    | Para    | - "   | Control or Range of  | control or Range of REF |          |                                    |      |  |  |  |
| No | -meters | Function                                      | control  | KUCR                    | KST/KSTM | KUCR-72-3<br>KST-72-3<br>KSTM-72-3 | KUCF | Remarks                                |  |  |
| 1  | nd      | Model Code<br>See the table below             | Not recommended to change.   | UCr                     | UCS      | UC7                                | UCF  | Factory use Only                       |  |  |
| 2  | as      | Forced Defrost,<br>When select "dF"           | dS ; Normal operation<br>dF ; Forced Defrost                                   | dS                      | dS       | dS                                 | dS   |  |  |  |
| 3  |         | Cabin Temperature<br>Calibration              | "-50 ~50"  | 10                      | 10       | 0                                  | 10   | Factory or Service technician use Only |  |  |
| 4  | od      | Differential for set point                    | "025~50"   | 10                      | 10       | 10                                 | 10   |  |  |  |
| 5  | ĊA      | Cabin Sensor<br>Calibration                   | "-50~50"   | -10                     | -10      | 0                                  | -10  | Factory or Service technician use Only |  |  |
| 6  | ар      | Display temperature<br>calibration            | "1~10"   | 4                       | 4        | 4                                  | 4    | Factory use Only                       |  |  |
| 7  | đt      | Interval between defrost cycles               | "0,5,6,7,8,9,10" Hr(s)   | 5                       | 5        | 5                                  | 8    |  |  |  |
| 8  | nt      | Maximum Defrost<br>interval control           | "0~99"   | N/A                     | N/A      | N/A                                | 8    | Factory use Only                       |  |  |
| 9  | dC      | Defrost termination<br>Temperature control    | "10~20°C"<br>Control by °C only  | N/A                     | N/A      | N/A                                | 12   |  |  |  |
| 10 | HI      | Cord Heater ON/OFF c ontrol                   | "OF,1,2,3,-1,-2,-3,ON"   | -2                      | -2       | -2                                 | -2   | Factory use Only                       |  |  |
| 11 | Fn      | Evaporator fan control                        | Co ; runs continuously<br>"" ; runs with the comp                              |                         | Co       | Co                                 |      |  |  |  |
| 12 | Ld      | Light ON/OFF control                          | OFF; Light ON or OFF<br>by door switch<br>ON; ON continuously                  | OFF                     | OFF      | OFF                                | OFF  |  |  |  |
| 13 | UFn     | Vaporizer fan set                             | OFF; For the model doesn't<br>have Vap Fan<br>ON; For the model has<br>Vap Fan | OFF                     | OFF      | OFF                                | OFF  | Factory or Service technician use Only |  |  |
| 14 | Cr      | Alarm interval for<br>cleaning condenser coil | "0,3,6,9" months   | 0                       | 0        | 0                                  | 0    |  |  |  |
| 15 | aa      | Display by every (0.1,0.5, or 1 °F/°C)        | "01,05,10"   | 10                      | 10       | 10                                 | 10   | Factory use Only                       |  |  |
| 16 | HL      | Maximum set point                             | FRZ; -22 ~ 32°F<br>REF; 23 ~ 59°F  | 40                      | 40       | 40                                 | 6    |  |  |  |
| 17 | LL      | Minimum set point                             | FRZ; -22 ~ 32°F<br>REF; 23 ~ 59°F  | 33                      | 33       | 33                                 | -10  |  |  |  |
| 18 | CF      | Measurement unit<br>"°C" or "°F"              | Display will show<br>"°C" or "°F"  | F                       | F        | F                                  | F    |  |  |  |
| 19 | Er      | Error test mode                               |  |                         | Factory  | y use Only                         |      |  |  |  |
| 20 | tE      | Test Mode                                     | See the following instruc tion for more details                                |                         | Factory  | y use Only                         |      |  |  |  |
| 21 | - C.    | Parameter reset to Defa<br>ult at factory     |  |                         | Factory  | Factory use Only                   |      |  |  |  |

#### Terms :

- REF ; Refrigerator
- FRZ ; Freezer
- BOT ; Bottom mounted compressor model
- •TOP ; Top mounted compressor model
- Vap Fan ; Vaporizer Fan [for condensate water]

#### **Details of Parameter**

nd Select a program by model.

• It is not recommended to change. Keep the default. Changes may invalidate the warranty.

| UCr | KUCR-27,36,48,60-***    |
|-----|-------------------------|
| UCS | KST/KSTM28 36 48 60-*** |

- UC7 KUCR/KST/KSTM72-\*\*\*
- UCF KUCF28,36,48,60-\*\*\*
- ds Defrost Control

• dS default – operation in normal.
 • dF Perform defrost 5 sec after it is selected.

oF Cabin temperature control : Factory use Only. Unit will be controlled with Set Temp + oF value

| onit will be controlled with set temp + of value |        |       |        |       |       |  |  |  |  |
|--|--------|-------|--------|-------|-------|--|--|--|--|
| Code   | Value  | Code  | Value  | Code  | Value |  |  |  |  |
| "00"   | 0      | "-35" | -6.3°F | " 35" | 6.3°F |  |  |  |  |
| "- 5"  | -0.9°F | "-40" | -7.2°F | " 30" | 5.4°F |  |  |  |  |
| "-10"  | -1.8°F | "-45" | -8.1°F | " 25" | 4.5°F |  |  |  |  |
| "-15"  | -2.7°F | "-50" | -9.0°F | " 20" | 3.6°F |  |  |  |  |
| "-20"  | -3.6°F | " 50" | 9.0°F  | " 15" | 2.7°F |  |  |  |  |
| "-25"  | -4.5°F | " 45" | 8.1°F  | " 10" | 1.8°F |  |  |  |  |
| "-30"  | -5.4°F | " 40" | 7.2°F  | " 5"  | 0.9°F |  |  |  |  |

**Od** Differential, Intervention deferential for set point, Compressor cut in is Set Point + Od value and cut out is Set Point - Od value

| • . JE I I L/IIII - | CHI VIIIIE. |       |        |
|---------------------|-------------|-------|--------|
| Code                | Value       | Code  | Value  |
| "025"               | ±0.45°F     | " 20" | ±3.6°F |
| "050"               | ±0.9°F      | " 30" | ±5.4°F |
| "075"               | ±1.35°F     | " 40" | ±7.2°F |
| " 10"               | ±1.8°F      | " 50" | ±9.0°F |
| " 15"               | ±2.7°F      |       |        |

**CA** Calibration of the temperature difference between the actual temperature of cabinet and the temperatur e of display. The display will show "Sensing tempera ture + the value of CA.

| Code  | Value  | Code  | Value |
|-------|--------|-------|-------|
| " 00" | 0      | " 50" | 9.0°F |
| "-10" | -0.9°F | " 40" | 7.2°F |
| "-20" | -3.6°F | " 30" | 5.4°F |
| "-30" | -5.4°F | " 20" | 3.6°F |
| "-40" | -7.2°F | " 10" | 1.8°F |
| "-50" | -9.0°F |       |       |

- *dp* Temperature sensor calibration :Factory use Only. *keep the default.*
- *dt* Interval between defrost cycles.
  0,5,6,7,8,9,10 Hour(s) can be selected.
- *nt* Maximum Defrost interval control. :Factory use Only.*keep the default.*

- **dc** Defrost termination temperature control. • 10~20°C (Controlled by °C base only)
- *Ht* Cord Heater ON/OFF time control : Factory use Only. *keep the default.*

|      |           | Hea    | ter ON | / OFF   | Difference between cabin te |       |      |   |  |
|------|-----------|--------|--------|---------|-----------------------------|-------|------|---|--|
| Code | X=10<br>↓ | 20↓    | 30↓    | 40↓     | 50↓                         | 60↓   | 60个  | mperature(T1) and Ambient t<br>emperature(T2), X= T1-T2 |  |
| "OF" |           |        | Cord ⊦ | leater  | is OFF                      |       |      |   |  |
| 1    | 14/20     | 12/10  | 21/7   | 45/5    | ON                          | ON    | ON   |   |  |
| 2    | 11/20     | 10/10  | 16/7   | 26/5    | 90/5                        | ON    | ON   | If the cabin temperature is hig                         |  |
| 3    | 9/20      | 8/10   | 12/7   | 17/5    | 45/5                        | ON    | ON   | her than 76 ° F, the cord heat                          |  |
| -1   | 7/20      | 7/10   | 9/7    | 12/5    | 28/5                        | 90/5  | ON   | er remains on.<br>When the temperature is 76 °          |  |
| -2   | 5/20      | 5/10   | 7/7    | 8/5     | 15*5                        | 28/5  | 90/5 | F or below, the heater operat                           |  |
| -3   | 4/20      | 4/10   | 5/7    | 5/5     | 9/5                         | 18/5  | 45/5 | es according to the time (ON /                          |  |
| 0    | 2/20      | 3/10   | 3/7    | 3/5     | 5/5                         | 11/5  | 28/5 | OFF) of the table.                                      |  |
| "ON" |           | Cord H | leater | is ON d | ontinu                      | ously |      |   |  |

- **Fn** Evaporator Fan operation control
  - •Co; runs continuously except door open.
  - •--; runs with the compressor.
- Ld Light control
  - •OFF ; Turns ON or OFF by the door switch.
  - •ON ; Turns ON continuously.

#### **UFn** Light control

f.

- OFF; For the model doesn't have Vap Fan.
- •ON; For the model has Vap Fan.
- **Cr** Alarm interval for cleaning condenser coil.
  - Kicks on by the interval selected. (0,3,6,9 Months) Touch and buttons at a same time to turn it of

Make sure the condenser coil clean before it.

- HL Maximum set point ; FRZ; -22 ~ 32°F, REF; 23 ~ 59°F
- **LL** Minimum set point ; **FRZ**; -22 ~ 32°F, **REF**; 23 ~ 59°F
- **dd** Temperature display steps by the value selected. **01** = 0.1°F, **05** = 0.5°F, **10** = 1.0°F
- **CF** Measurement unit °C or °F.
- **Er** Error check mode.

If there are no errors, "**no**" is displayed. If the produc t has problems, display the error code in turn on th e display. See the error code table.

- See the error code table
- **tE** Test mode Each time you select a code, you can check the oper ation status of the corresponding part. See the test c ode table.
- **EC** After 1 second after "**EC**" is displayed, all parameters are reset to initial default state.

## Error Code Table

| Error<br>Code | Cause   | Error Conditions  | Display before accessing<br>Error Check mode | Status of Unit  |
|---------------|---|---|--|---|
| "S1 "         | Defective<br>Temperature<br>(Cabin)senor      | Sensor is disconnected, opened or Cabinet Te mperature is below -58°F                 | ESL  | Show "ESL" on display with alarm sou                              |
| "S1_"         | Defective<br>Temperature<br>(Cabin)senor      | Sensor is shorted or Cabinet Temperature is ab ove 149°F                              | ESL  | nd(beep)  |
| "rt "         | Defective<br>Ambient<br>Temperature<br>sensor | Sensor is disconnected or opened  | Shows cabin temperature                      | Decomizes the ambient temperature                                 |
| "rt_"         | Defective<br>Ambient<br>Temperature<br>sensor | Sensor is shorted   | Shows cabin temperature                      | Recognizes the ambient temperature as 90°F and operates normally. |
| "D1 "         | Defective<br>Defrost Sensor                   | · •   | Shows cabin temperature<br>or display "tO"   |   |
| "D1_"         | Defective<br>Defrost Sensor                   | Sensor is shorted or Cabinet Temperature is ab ove 149°F                              | Shows cabin temperature<br>or display "tS"   |   |
| "dF1"         | Fail to defrost                               | Defrosting time is more than 50 minutes   | Shows cabin temperature                      |   |
| "CF1"         | Fail to cool                                  | 30 minutes after Comp operation,<br>if the defrost sensor is sensing 32°F or above,   | Shows cabin temperature                      |   |
| "EHF"         | Freezer cabin temperat<br>ure high            | If the cabin temperature is above 45°F for 8 hou<br>rs after the compressor starts up | Shows cabin temperature                      |   |
| "EHr"         | Refrigerator cabin temp<br>erature high       | If the cabin temperature is above 45°F for 8 hou rs after the compressor starts up    | Shows cabin temperature                      |   |
| "Edr"         | Door Open                                     | When Door is open for more than 1 hour (Door Switch)                                  | Edr  | Alarm (Beeping sound)   |
| "EF1"         | E-FAN1 Error                                  |   | EF1  | Alarm (Beeping sound)   |
| "Ufn"         | V-FAN Error                                   | V-FAN is disconnected, opened or not running.   | Ufn"   | Alarm (Beeping sound)   |

### Test mode

| Code  | Test Time or Display | Test what         | Remarks     |
|-------|----------------------|-------------------|-------------|
| "St"  | 10 Sec               | Stand by          | REF/FRZ     |
| "CP1" | Continuous           | Comp/Fan ON       | REF/FRZ     |
| "dHt" | Continuous           | Defrost Heater ON | FRZ<br>Only |
| "CHt" | Continuous           | Code Heater ON    | REF/FRZ     |
| "LP"  | Continuous           | Light ON          | REF/FRZ     |
| "rS"  | Display "rS"         | Cabin sensor      | REF/FRZ     |
| "rt"  | Display "rt"         | Ambien Sensor     | REF/FRZ     |
| "ds"  | Display "ds"         | Difrost sensor    | REF/FRZ     |

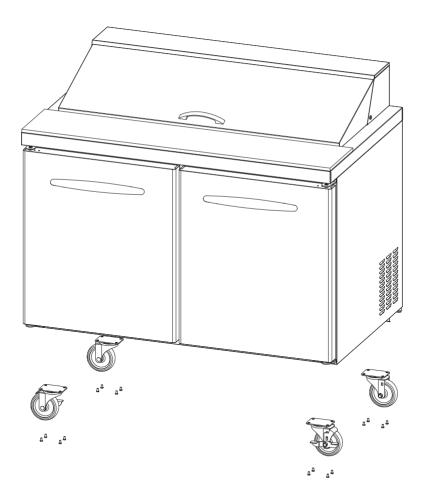
# **Trouble-Shooting**

| Problem                             | Possible Cause   | Action  |
|-------------------------------------|--|---|
| Compressor not working              | Power connection failure   | Check Power Cord and plug it in   |
| Compressor not working              | Power switch is in off position  | Change it on position   |
|                                     | Temperature set point is too high  | Correct temperature set point   |
|                                     | The door is opened too frequently  | -   |
| The unit does not                   | Loading of too much warm<br>or moist product   | -   |
| refrigerate well                    | Not enough ventilation   | Move the unit in a well<br>Ventilated place with at<br>least 7<br>Inches of clearance on all<br>sides |
|                                     | Condenser is clogged   | Clean it  |
| Condensation<br>on cabinet exterior | High humidity can cause<br>surface condensation. Also,<br>make sure that the door<br>seals are clean and in good<br>condition. | Wipe with cloth   |

• A water-flowing sound can be heard when the unit is operating. This is the sound of refrigerant flowing.

# **Installing Castors**

- 1. Remove the outer packing.
- 2. Install the castors as illustrated.
- 3. Maker sure that the castors with brakes are installed at the front of the unit.





# warranty

### THREE YEAR PARTS & LABOR WARRANTY

MVP GROUP CORP. (KOOL-IT) warrants to the original purchaser of every new KOOL-IT refrigerated unit to be free from defects in material or workmanship, under normal and proper use and maintenance service as specified by MVP Group Corp. and upon proper installation and start-up in accordance with the instruction packet supplied with each unit. MVP Group's obligation under this warranty is limited to a period of three (3) years from the date of original installation.

Any original part covered under this warranty that is determined by MVP Group Corp. to have been defective within three (3) years of original installation shall be limited to the repair or replacement, including the labor charge for defective parts or assemblies. The labor warranty shall include standard straight time labor charges only and reasonable travel time, as determined by MVP Group Corp.

Warranty shall not cover standard wear and tear parts which include door gaskets, incandescent bulbs, LED lamps, or fluorescent bulbs. Warranty also does not cover issues caused by improper installation or lack of basic preventative maintenance which includes, but not limited to regular cleaning of condenser coils.

## ADDITIONAL TWO YEAR COMPRESSOR WARRANTY

In addition to the three (3) year warranty stated above, MVP Group Corp. hereby warrants its hermetically and semihermetically sealed compressors to be free from defects in both material and workmanship under normal and proper use and maintenance service for a period of two (2) additional years from the date of original installation, but shall at no times exceed five (5) years after shipment from the manufacturer.

Compressors determined by MVP Group Corp. to have been defective within this extended time period will, at MVP Group Corp's option, be either repaired or replaced with a compressor or compressor parts of a similar capacity. The two (2) year extended compressor warranty applies only to hermetically and semi-hermetically sealed parts of the compressor and does not apply to any other parts of components, including but not limited to: cabinet, paint finish, temperature control, refrigerant, metering device, driers, motor starting equipment, fan assembly or any other electrical component, Etc.



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