



# **Commercial Refrigerator Service Manual**

**Pizza Prep Table**

**Model No.: TPR-67SD**

# **TABLE OF CONTENTS**

---

## **1. FEATURE CHART**

- 1-1. FRONT VIEW
- 1-2. PLAN VIEW AND SIDE VIEW

## **2. WIRING DIAGRAM**

- 2-1. TPR-67SD

## **3. PART DETAILS**

- 3-1. DUCT PANEL (EXTERIOR)
- 3-2. EVAPORATOR FAN MOTOR GUARD
- 3-3. EVAPORATOR FAN MOTOR ASSEMBLY
- 3-4. EVAPORATOR COIL
- 3-5. AIR GUIDE PANEL & PAD
- 3-6. DUCT PANEL (INTERIOR)
- 3-7. CABINET FRONT COVER
- 3-8. THERMOSTAT & POWER SWITCH
- 3-9. CONDENSER COIL
- 3-10. CONDENSER FAN MOTOR ASSEMBLY
- 3-11. COMPRESSOR COMPARTMENT PART (FRONT)
- 3-12. COMPRESSOR COMPARTMENT PART (BACK)

## **4. MAIN COMPONENTS**

- 4-1. COMPRESSOR
- 4-2. COMPRESSOR RELAY, OVERLOAD
- 4-3. COMPRESSOR CAPACITOR
- 4-4. CONDENSER FAN MOTOR
- 4-5. EVAPORATOR FAN MOTOR
- 4-6. SWITCH

## **5. ELECTRONIC CONTROLLER INSTRUCTION**

- 5-1. HOW TO USE THE TEMPERATURE CONTROL
- 5-2. FUNCTION TABLE

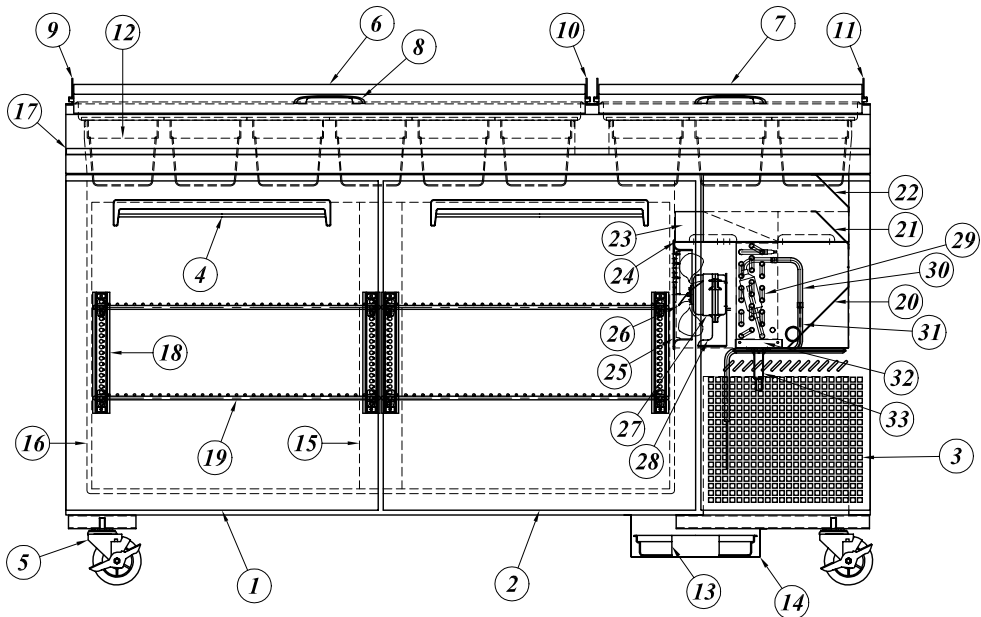
## **6. SPARE PARTS LIST**

## **7. REPLACEMENT OF MAIN COMPONENTS**

- 7-1. REPLACING THE DOOR
- 7-2. REPLACING THE MULLION
- 7-3. REPLACING THE CABINET FRAME HEATER
- 7-4. REPLACING THE EVAPORATOR FAN MOTOR
- 7-5. EVAPORATOR LEAK CHECKING
- 7-6. REPLACING THE COMPRESSOR COMPARTMENT PART
- 7-7. REPLACING THE EVAPORATOR

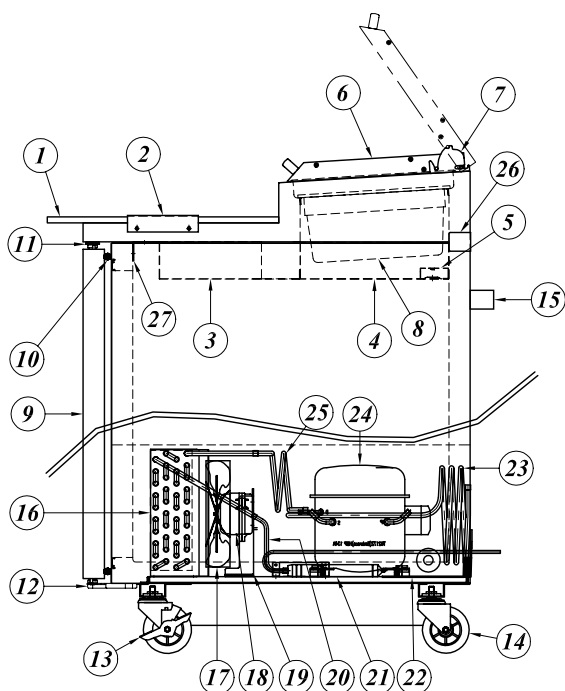
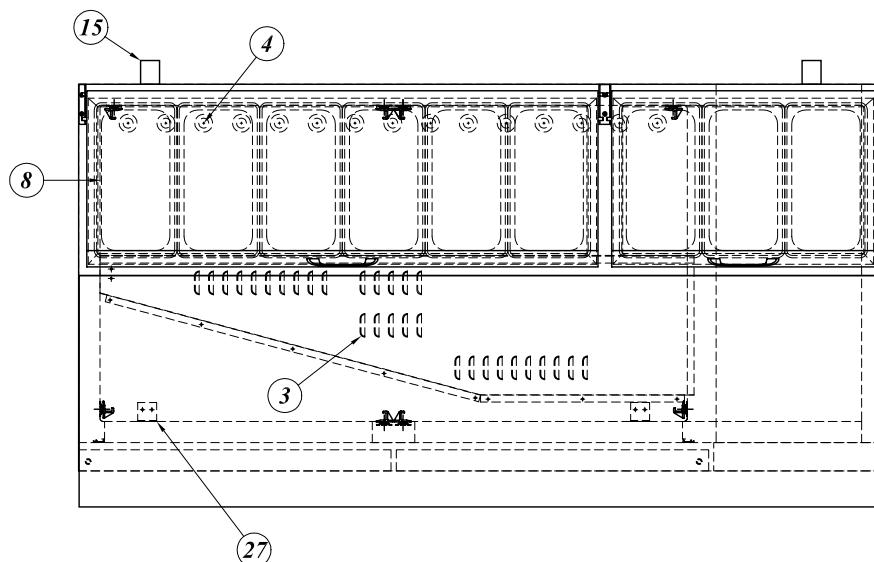
# 1. FEATURE CHART

## 1-1. FRONT VIEW



- |                                        |                                              |
|----------------------------------------|----------------------------------------------|
| <b>1 DOOR LEFT</b>                     | <b>18 SHELF STANDARD</b>                     |
| <b>2 DOOR RIGHT</b>                    | <b>19 SHELF</b>                              |
| <b>3 FRONT GRILLE PANEL</b>            | <b>20 AIR GUIDE PANEL (A)</b>                |
| <b>4 DOOR HANDLE</b>                   | <b>21 AIR GUIDE PANEL (B)</b>                |
| <b>5 CASTER BRAKE 'FRONT'</b>          | <b>22 AIR GUIDE PANEL (C)</b>                |
| <b>6 HOOD LID LEFT</b>                 | <b>23 AIR GUIDE PAD</b>                      |
| <b>7 HOOD LID RIGHT</b>                | <b>24 DUCT PANEL</b>                         |
| <b>8 HOOD LID HANDLE</b>               | <b>25 EVAPORATOR FAN MOTOR GUARD</b>         |
| <b>9 HOOD LID BRACKET LEFT</b>         | <b>26 EVAPORATOR FAN BLADE</b>               |
| <b>10 HOOD LID BRACKET CENTER</b>      | <b>27 EVAPORATOR FAN MOTOR</b>               |
| <b>11 HOOD LID BRACKET RIGHT</b>       | <b>28 EVAPORATOR FAN MOTOR BRACKET</b>       |
| <b>12 PAN</b>                          | <b>29 EVAPORATOR COIL</b>                    |
| <b>13 DRAIN PAN</b>                    | <b>30 CONNECTING PIPE</b>                    |
| <b>14 DRAIN PAN HOUSING</b>            | <b>31 SUCTION LINE(A) AND CAPILLARY TUBE</b> |
| <b>15 MULLION AND MULLION HEATER</b>   | <b>32 EVAPORATOR DRAIN PAN</b>               |
| <b>16 FRAME COVER AND FRAME HEATER</b> | <b>33 DRAIN HOSE CONNECTOR</b>               |
| <b>17 CUTTING BOARD</b>                |                                              |

## 1-2. PLAN VIEW AND SIDE VIEW

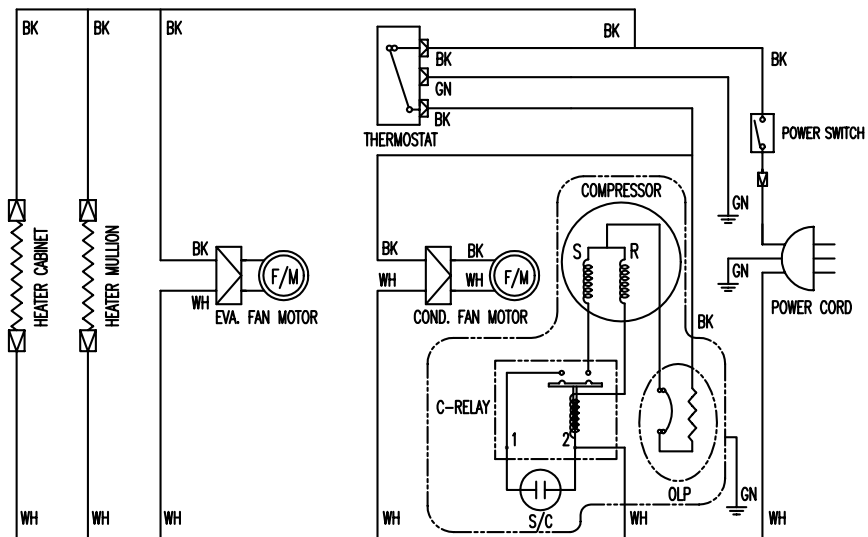


- 1 CUTTING BOARD
- 2 CUTTING BOARD BRACKET
- 3 AIR DUCT PANEL (LOUVERED PANEL)
- 4 PAN DUCT
- 5 PAN DUCT COVER
- 6 HOOD LID
- 7 HOOD LID BRACKET
- 8 PAN
- 9 DOOR
- 10 DOOR GASKET
- 11 DOOR HINGE TOP
- 12 DOOR HINGE BOTTOM
- 13 CASTER BRAKE
- 14 CASTER
- 15 CUSHION SPACER
- 16 CONDENSER COIL
- 17 CONDENSER FAN BLADE
- 18 CONDENSER FAN MOTOR
- 19 CONDENSER FAN MOTOR BRACKET
- 20 CONNECTING PIPE
- 21 DRYER
- 22 CAPILLARY TUBE
- 23 SUCTION LINE(B)
- 24 COMPRESSOR
- 25 CONNECTING PIPE (DELIVERY PIPE)
- 26 CABINET BRACKET
- 27 LINER BRACKET

## 2. WIRING DIAGRAM

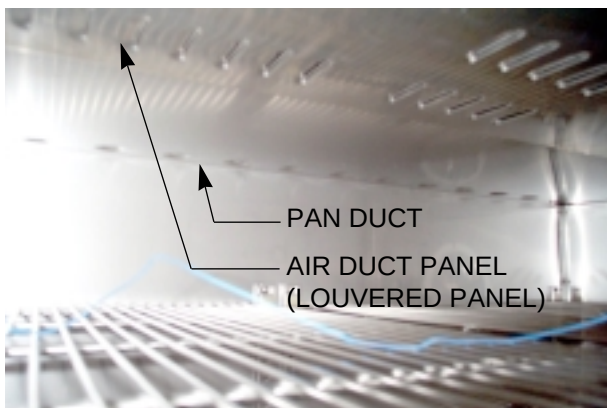
TPR-67SD

### WIRING DIAGRAM

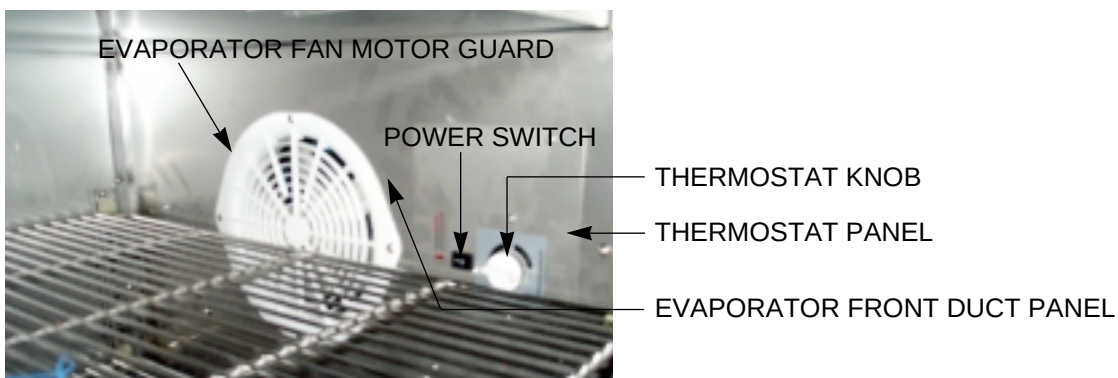


## 3. PART DETAILS

### 3-1. AIR DUCT PANEL (EXTERIOR)

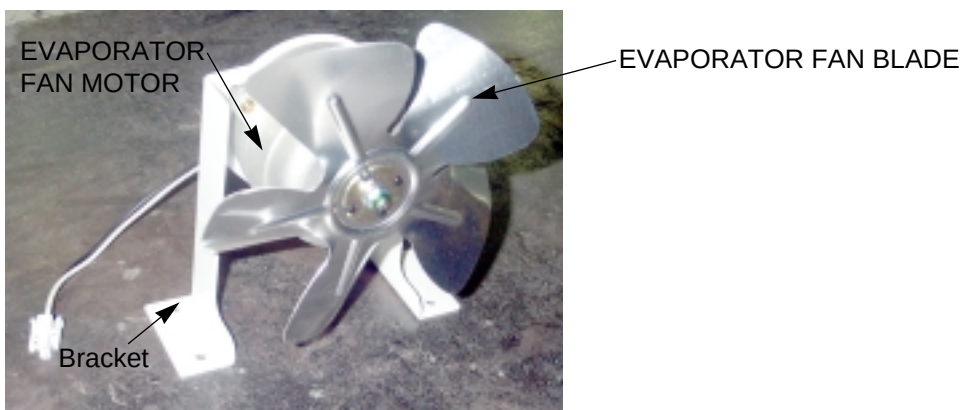


### 3-2. EVAPORATOR FAN MOTOR GUARD

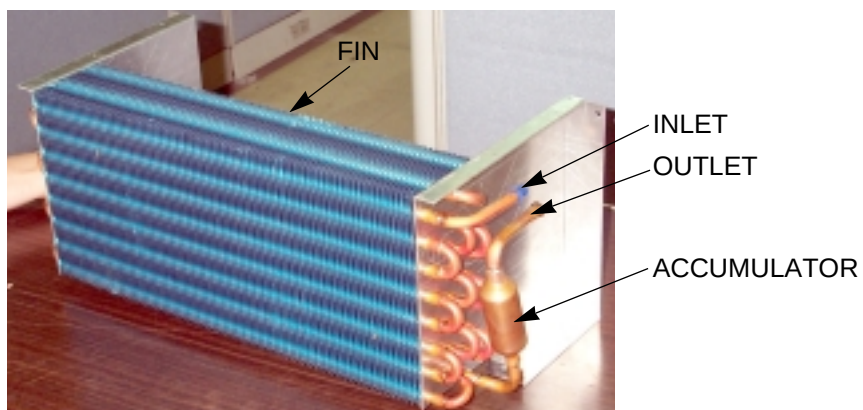


The position of the POWER SWITCH and the THERMOSTAT KNOB can be changed for improvement without notice.

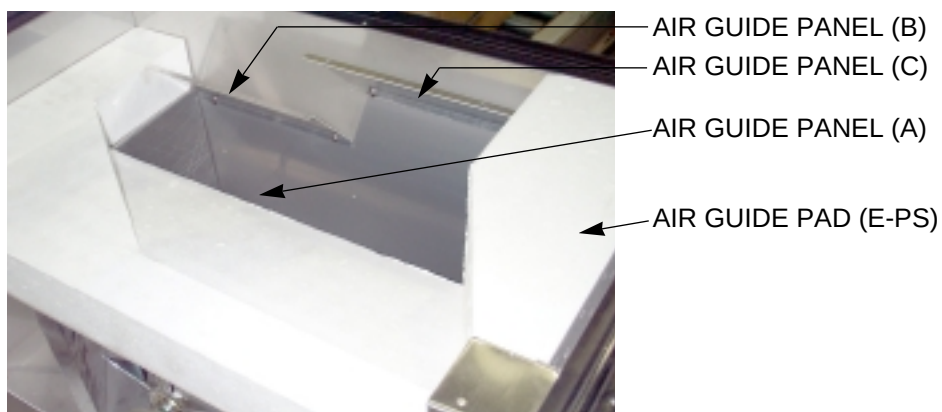
### 3-3. EVAPORATOR FAN MOTOR



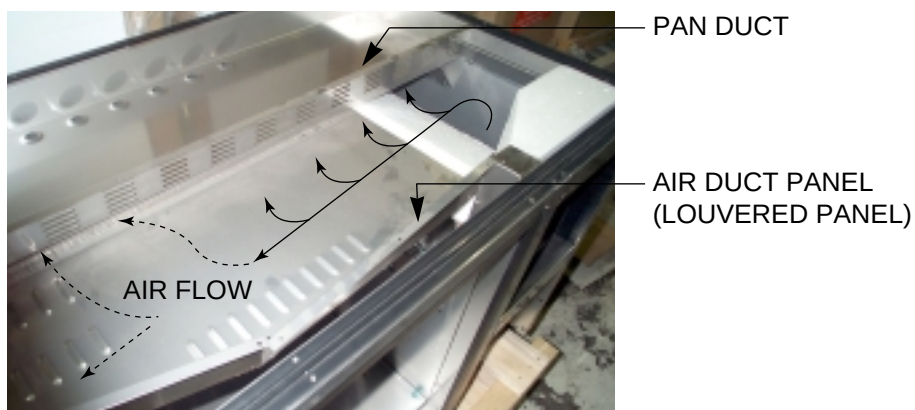
### 3-4. EVAPORATOR COIL



### 3-5. AIR GUIDE PANEL & PAD

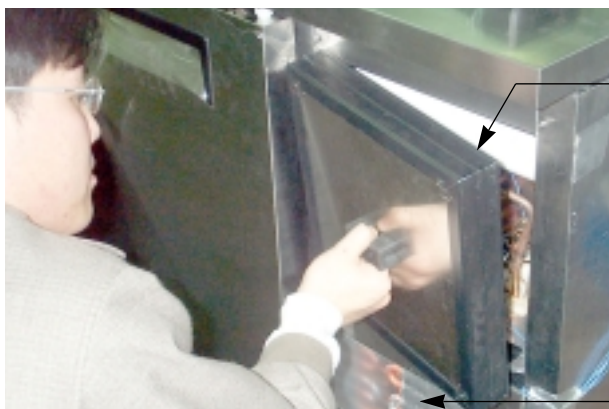


### 3-6. DUCT PANEL (INTERIOR)



## PART DETAILS

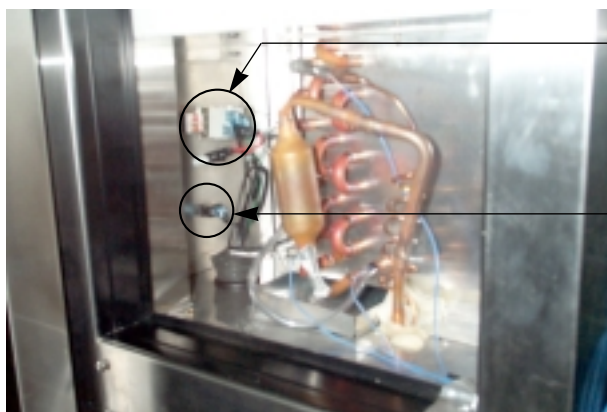
### 3-7. CABINET FRONT COVER



CABINET FRONT COVER

CONDENSER COIL

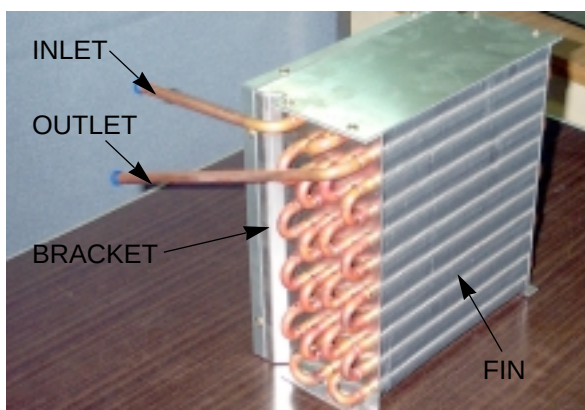
### 3-8. THERMOSTAT & POWER SWITCH



THERMOSTAT

POWER SWITCH

### 3-9. CONDENSER COIL



INLET

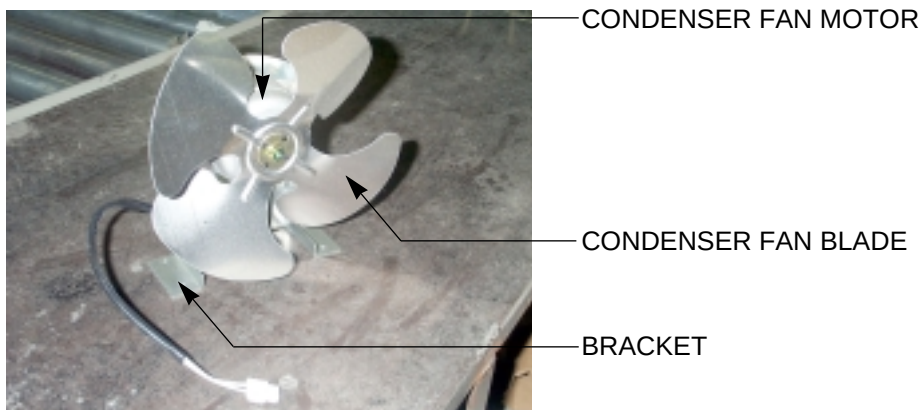
OUTLET

BRACKET

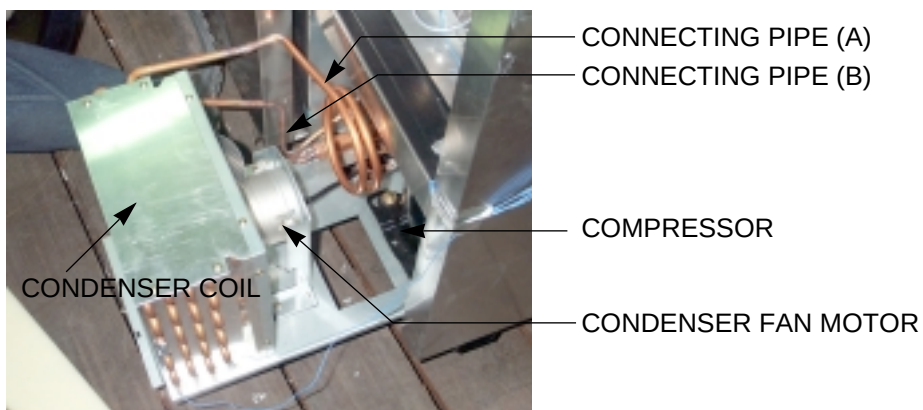
FIN



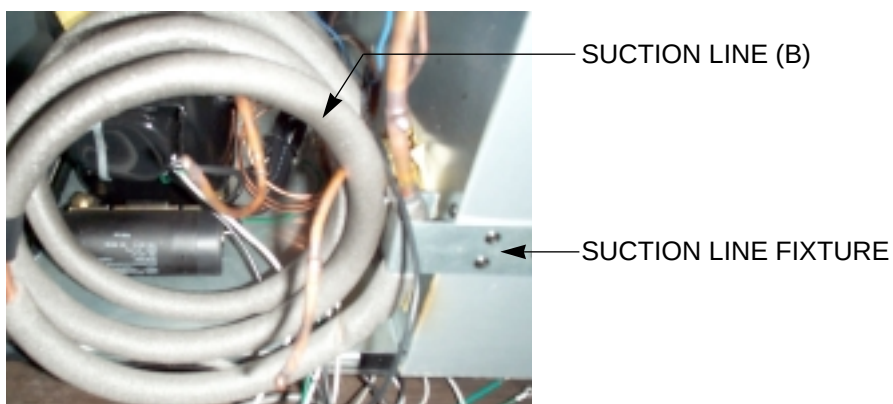
### **3-10. CONDENSER FAN MOTOR**



### **3-11. COMPRESSOR COMPARTMENT PART (FRONT)**



### **3-12. COMPRESSOR COMPARTMENT PART (BACK)**



# 4. MAIN COMPONENTS

## 4-1. COMPRESSOR

| MODEL    | PART NAME | PART NO.   | HORSE POWER | CAPACITY                      | TYPE OF MOTOR | INPUT | MAKER   |
|----------|-----------|------------|-------------|-------------------------------|---------------|-------|---------|
| TPR-67SD | T6217Z    | 3020014570 | 5/8HP       | 7,638.4BTU/h<br>(1,925Kcal/h) | CSIR          | -     | EMBRACO |

## 4-2. COMPRESSOR RELAY, OVERLOAD

| MODEL    | RELAY          | PART NO. | OVERLOAD      | PART NO. | MAKER   | NOTE |
|----------|----------------|----------|---------------|----------|---------|------|
| TPR-67SD | 9660-A-041-191 |          | MRT00AFW-3187 | -        | EMBRACO |      |

## 4-3. COMPRESSOR CAPACITOR

| MODEL    | STARTING             | PART NO.       | RUNNING | PART NO. | MAKER | NOTE |
|----------|----------------------|----------------|---------|----------|-------|------|
| TPR-67SD | 330V 189~227 $\mu$ F | Comp. Assembly |         | -        | -     | -    |

## 4-4. CONDENSER FAN MOTOR

| MODEL    | PART NAME    | PART NO.   | POLE | INPUT | TYPE                  | BLADE (NUMBER) | MAKER    |
|----------|--------------|------------|------|-------|-----------------------|----------------|----------|
| TPR-67SD | IS4420DWSG-1 | 3963220410 | 4P   | 47W   | Shaded Pole Induction | AL<br>4        | SUNGSHIN |

## 4-5. EVAPORATOR FAN MOTOR

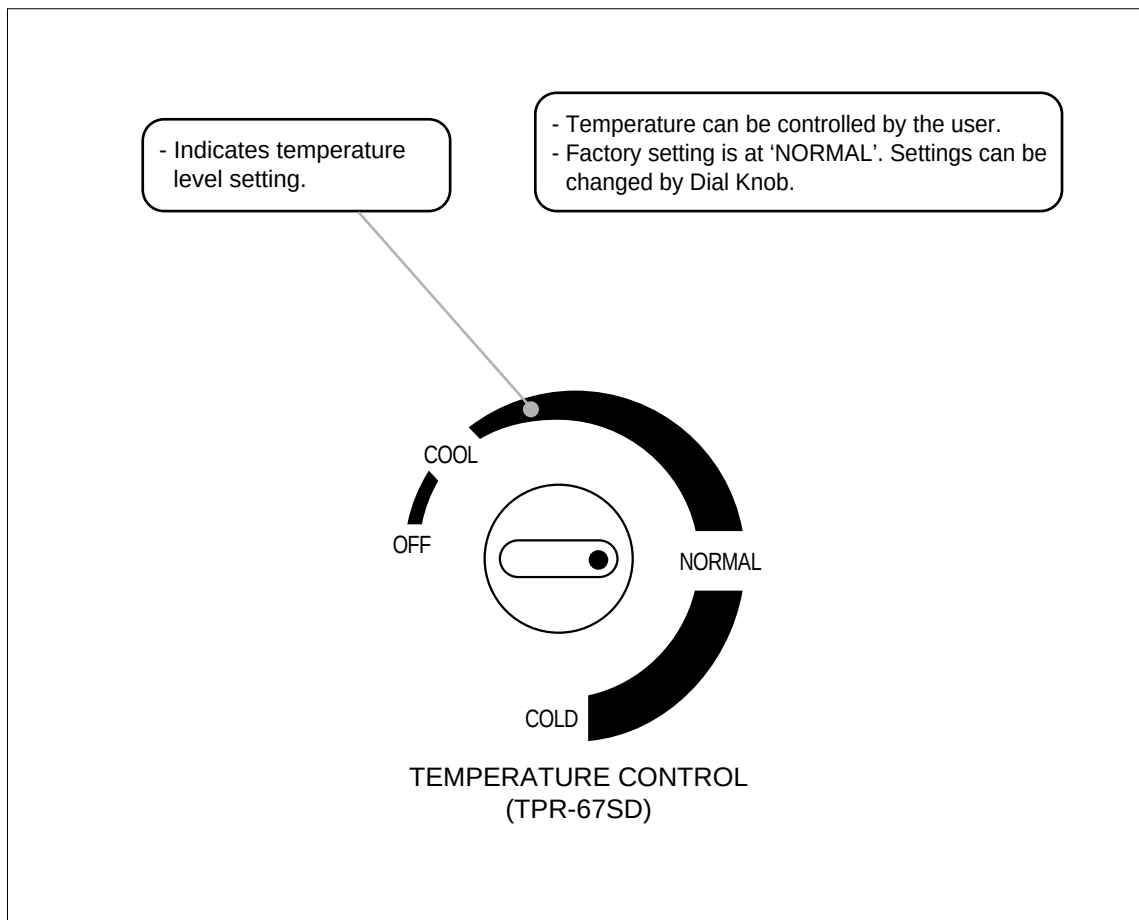
| MODEL    | PART NAME     | PART NO.   | POLE | INPUT | TYPE                  | BLADE (NUMBER) | MAKER    |
|----------|---------------|------------|------|-------|-----------------------|----------------|----------|
| TPR-67SD | IS4420DWSN-2A | 3963328120 | 4P   | 47W   | Shaded Pole Induction | AL<br>5        | SUNGSHIN |

## 4-6. SWITCH

| PART NAME                    | PART NO.   | RATING         | MAKER  |
|------------------------------|------------|----------------|--------|
| POWER SWITCH (ROCKER SWITCH) | 30281Q0100 | 125V/15A       | SKT    |
| THERMOSTAT                   | 30283M0100 | K55Q-5608, 16A | RANGCO |

# 5. TEMPERATURE CONTROL INSTRUCTION

## 5-1. HOW TO USE THE TEMPERATURE CONTROL



## 5-2. FUNCTION TABLE

| No      | Function                                              | Controlled Part               | Description                                                                                                                                                                                                                                                                                                                                                                                             |     |      |        |      |        |  |            |  |         |      |      |      |
|---------|-------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--------|------|--------|--|------------|--|---------|------|------|------|
| 1       | Temperature Control<br>(K55Q-5608)<br>Model: TPR-67SD | Compressor<br>Cond. Fan Motor | <p>1. The temperature can be changed by turning the dial knob.<br/> 2. Compressor is automatically turned on and off by thermostat.</p> <p>■ Cut in and out temperature chart. °F</p> <table> <tr> <th>No.</th><th>Cool</th><th>Normal</th><th>Cold</th></tr> <tr> <td>Cut in</td><td></td><td>40.1 ± 2.7</td><td></td></tr> <tr> <td>Cut Out</td><td>21.2</td><td>17.1</td><td>10.4</td></tr> </table> | No. | Cool | Normal | Cold | Cut in |  | 40.1 ± 2.7 |  | Cut Out | 21.2 | 17.1 | 10.4 |
| No.     | Cool                                                  | Normal                        | Cold                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |        |      |        |  |            |  |         |      |      |      |
| Cut in  |                                                       | 40.1 ± 2.7                    |                                                                                                                                                                                                                                                                                                                                                                                                         |     |      |        |      |        |  |            |  |         |      |      |      |
| Cut Out | 21.2                                                  | 17.1                          | 10.4                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |        |      |        |  |            |  |         |      |      |      |

## 6. PARTS-LIST OF PIZZA PREP TABLE

| Part name                        | Code       | Description          | Model    |
|----------------------------------|------------|----------------------|----------|
|                                  |            |                      | TPR-67SD |
| <b>Caster</b>                    |            |                      |          |
| CASTER                           | 30265L0400 | TP5040-21-HDP        | 2        |
| CASTER BRAKE                     | 30265L0300 | TP5040-21-HDP-TLB    | 2        |
| <b>Door</b>                      |            |                      |          |
| DOOR ASSEMBLY(LEFT)              | 30200P1710 | STAINLESS STEEL +URT | 1        |
| DOOR ASSEMBLY(RIGHT)             | 30200P1700 | STAINLESS STEEL +URT | 1        |
| DOOR GASKET                      | 30223P0100 | PVC-S                | 2        |
| DOOR BUSHING                     | 30207H1000 | NA-66                | 4        |
| DOOR HINGE TOP(LEFT)             | 30229P0400 |                      | 1        |
| DOOR HINGE TOP(RIGHT)            | 30229P0500 |                      | 1        |
| DOOR HINGE BOTTOM(LEFT)          | 30229M0300 |                      | 1        |
| DOOR HINGE BOTTOM(RIGHT)         | 30229M0400 |                      | 1        |
| DOOR HINGE SPRING                | 30251M0100 | HSW-3                | 2        |
| <b>COMPRESSOR COMPARTMENT</b>    |            |                      |          |
| CONDENSER COIL                   | 30200P2200 | CU                   | 1        |
| SUCTION LINE (A)                 | 30244P0300 | CU                   | 1        |
| COMPRESSOR BASE                  | 30203P0300 | SBHG,T1.6            | 1        |
| COMPRESSOR                       | 3020014570 | T6217Z (115V / 60Hz) | 1        |
| POWER CORD                       | 30213A1012 | KKP-30               | 1        |
| FRONT GRILLE PANEL               | 30214P1600 | STAINLESS STEEL      | 1        |
| REAR GRILLE                      | 30214P1700 | HSWR,BLACK COATING   | 1        |
| COMPRESSOR DRYER                 | 30268L0300 | XH-9,Ø3.1            | 1        |
| DRAIN PAN                        | 30211A0202 | PP T2.0              | 1        |
| DRAIN PAN HOUSING                | 30225P0100 | SPG,T0.5             | 1        |
| DRAIN HOSE                       | 30232M0210 | PVC-S                | 1        |
| CONDENSER FAN MOTOR              | 3963220410 | IS-4420DWSG-1        | 1        |
| CONDENSER FAN BLADE              | 30218B0100 | AL Ø225              | 1        |
| CONNECTING PIPE                  | 30244P0700 | CONDENSER AND DRYER  | 1        |
| CONNECTING PIPE (DELIVERY PIPE)  | 30244P1000 | COMP.AND CONDENSER   | 1        |
| CAPILLARY TUBE                   | 30244P0400 | ID Ø1.6*T0.6         | 1        |
| SUCTION LINE (B)                 | 30244P0500 | OD Ø9.52*T0.8        | 1        |
| COMPRESSOR HARNESS ASSEMBLY      | 30227P0400 |                      | 1        |
| <b>REFRIGERATION COMPARTMENT</b> |            |                      |          |
| MULLION COVER                    | 30214P1400 | STAINLESS STEEL      | 1        |
| MULLION HEATER                   | 30228M0303 | 115V / 15W,PVC       | 1        |
| CABINET FRAME HEATER             | 30228P0100 | 115V / 60W,PVC       | 1        |

| Part name                       | Code         | Description            | Model    |
|---------------------------------|--------------|------------------------|----------|
|                                 |              |                        | TPR-67SD |
| EVAPORATOR COIL                 | 30270P0100   | CU                     | 1        |
| EVAPORATOR DRAIN PAN            | 30211P0200   | AL                     | 1        |
| EVAPORATOR FAN MOTOR            | 3963328120 I | S4420DWSN-2A           | 1        |
| EVAPORATOR FAN BLADE            | 30218F0200   | AL Ø175                | 1        |
| EVAPORATOR FAN MOTOR GUARD      | 30214K0100   | HIPS Ø175              | 1        |
| EVAPORATOR FRONT DUCT PANEL     | 30269P0100   | STAINLESS STEEL        | 1        |
| AIR GUIDE PAD                   | 30241P0600   | E-PS                   | 1        |
| PAN DUCT                        | 30269P0200   | STAINLESS STEEL        | 1        |
| PAN DUCT COVER                  | 30269P0500   | AL                     | 1        |
| AIR DUCT PANEL (LOUVERED PANEL) | 30269P0300   | STAINLESS STEEL        | 1        |
| THERMOSTAT                      | 30283M0100   | K55-Q5608              | 1        |
| POWER SWITCH (ROCKER SWITCH)    | 30281Q0100   | 125V / 15A,250V / 8A   | 1        |
| SHELF STANDARD                  | 30220M0300   | STAINLESS STEEL        | 8        |
| SHELF CLIP                      | 30220L0900   | PA6                    | 20       |
| SHELF                           | 30278P0200   | STAINLESS STEEL        | 4        |
| PAN                             | 30211P0100   | PC T2.5                | 9        |
| HOOD LID LEFT                   | 30200P3600   | LID +LINER +PAD +HINGE | 1        |
| HOOD LID RIGHT                  | 30200P3500   | LID +LINER +PAD +HINGE | 1        |
| HOOD LID BRACKET LEFT           | 30206P0600   | STAINLESS STEEL T2.0   | 1        |
| HOOD LID BRACKET CENTER         | 30206P0800   | STAINLESS STEEL T2.0   | 1        |
| HOOD LID BRACKET RIGHT          | 30206P0700   | STAINLESS STEEL T2.0   | 1        |
| HOOD LID HANDLE                 | 30226P0100   | ZNDC                   | 2        |
| CUTTING BOARD                   | 30241P1000   | LD-PE                  | 1        |
| CUTTING BOARD BRACKET           | 30206P1900   | STAINLESS STEEL T1.6   | 2        |
| CUTTING BOARD FITTING SCREW     | 7S105A0564   | M5,MFNI                | 2        |

# 7. REPLACEMENT OF MAIN COMPONENTS

**\* Surely turn the unit off before replacing any part of it!**

## 7-1. REPLACING THE DOOR

**A. Unscrew the door hinge top.**



**B. Lift the door. Replace the old one with new. Insert the door hinge top into the door bush. Angle between the door line and the hinge bracket line is 90° as pictures below.**



**C. Rotate the door hinge top by 180° cw.**

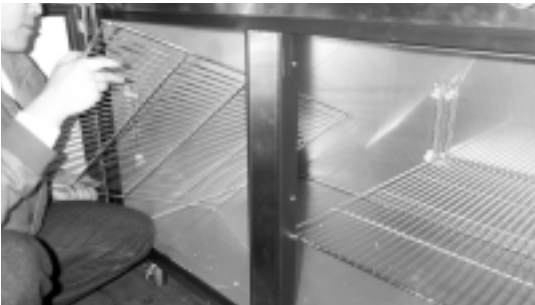


**\* In case of the left door, replace it symmetrically to pictures above.**

## REPLACEMENT OF MAIN COMPONENTS

### 7-2. REPLACING THE MULLION

**A. Remove all shelves from inside of the unit and unscrew the screws on each side of the mullion.**



**B. Rip off the mullion cover carefully.**



**C. Disconnect the mullion heater and pull out the mullion insulator.**



**D. Unscrew the screws on top and bottom of the mullion. Replace the old one with new.**



## **REPLACEMENT OF MAIN COMPONENTS**

---

### **7-3. REPLACING THE CABINET FRAME HEATER**

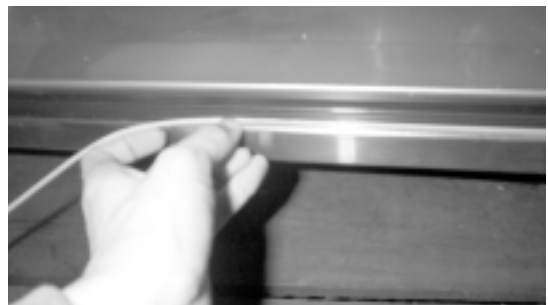
**A. Insert '-' screw driver into the gap between the cabinet frame and the cabinet frame cover.**



**B. Separate the end of the cabinet frame cover and pull it out continuously to the end of the other side.**



**C. Disconnect the cabinet frame heater from the main harness. Replace the old one with new.**





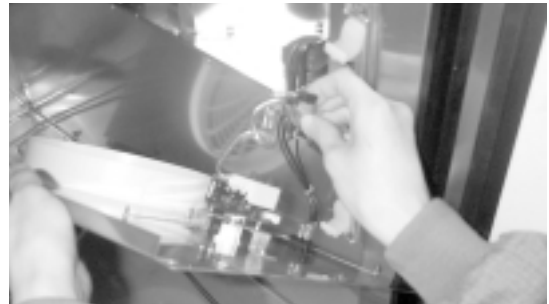
## REPLACEMENT OF MAIN COMPONENTS

### 7-4. REPLACING THE EVAPORATOR FAN MOTOR

**A. Unscrew the screws on the evaporator front duct panel.**



**B. Take it apart and disconnect the thermostat and the power switch from the main harness.**



**C. Unscrew the screws on the evaporator fan motor bracket using a short '+' screw driver.**



**D. Disconnect the evaporator fan motor from the main harness. Replace the old one with new.**



## **REPLACEMENT OF MAIN COMPONENTS**

---

### **7-5. EVAPORATOR LEAK CHECKING**

**A. Unscrew a hidden screw at the position as the picture below.**



**B. Lift up the front grille panel and pull it out. Cut the silicon off around the cabinet front cover using a knife and pull it out.**



**C. Check leaks of the welded lines of the evaporator coil as the picture below.**



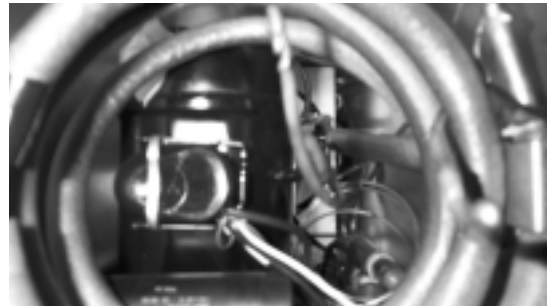
## REPLACEMENT OF MAIN COMPONENTS

### 7-6. REPLACING THE COMPRESSOR COMPARTMENT PART

A. Unscrew the screws on the compressor base.



B. Disconnect the suction line connection by melting it using a torch.



C. Check the harness ties and the ground screws. Untie them and unscrew them for safety.

Pull the compressor base out carefully and repair the defective cycle parts.



## ***REPLACEMENT OF MAIN COMPONENTS***

---

### **7-7. REPLACING THE EVAPORATOR**

- A. Unscrew the screws on the brackets at the each rear corner of the unit as pictures below.**



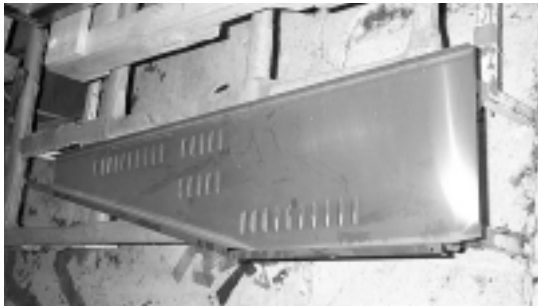
- B. Remove all the shelves from inside of the unit.  
Unscrew the screw on the brackets at the front top position inside of the unit as pictures below.**



## REPLACEMENT OF MAIN COMPONENTS

---

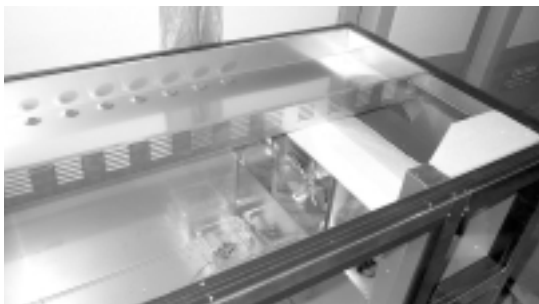
- C. Unscrew all the screws on the air duct panel and pull it out carefully.  
Unscrew all the screws on the pan duct.  
You can see the black lines around the corner inside top of the unit.  
Cut the black silicon bonding lines of the counter top.  
And then, take apart the counter top as the picture below.



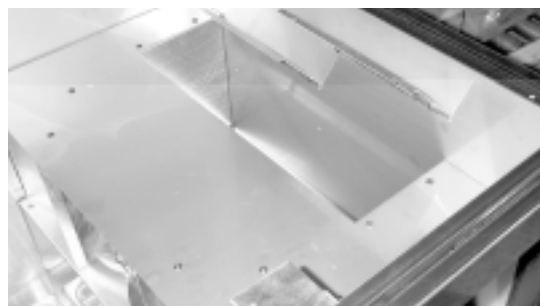
## **REPLACEMENT OF MAIN COMPONENTS**

---

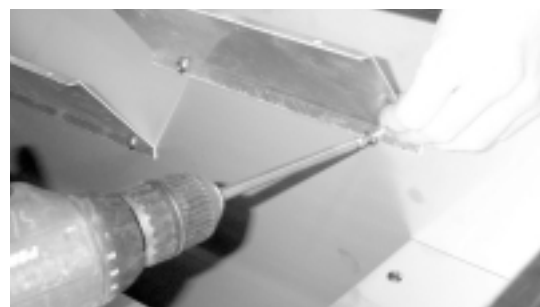
**D. Lift up the pan duct and put it out as the picture below.**



**E. There is a insulator that guides cold air flow into the air duct panel. Pull it out.  
You can see the duct panel which shape is 'C'.**



**F. Unscrew the screws on the air guide panel (B) and (C).**



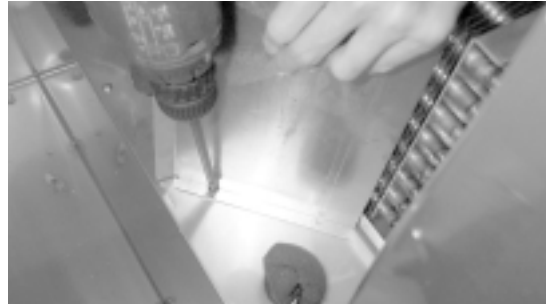
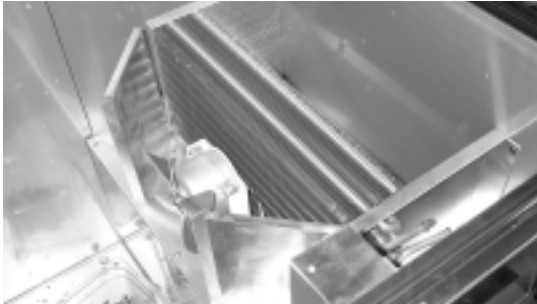
**G. Unscrew the screws on the duct panel and pull it out as the picture below.**



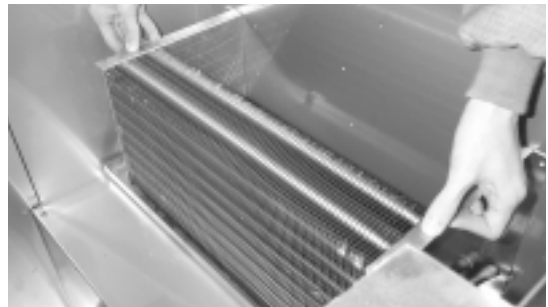
## ***REPLACEMENT OF MAIN COMPONENTS***

---

**H. Unscrew the screws on the duct panels in front of the evaporator.**



**I. Unscrew the screws on the evaporator fan motor bracket and take it apart from the unit. Disassemble the connecting pipe between the evaporator coil and the suction line by melting connections using a torch. Unscrew the screws on the evaporator brackets and take it apart from the unit. Reassemble the new evaporator.**



# ABOUT THIS MANUAL

VISION CREATIVE, INC.

중구 남대문로 5가 526

대우재단빌딩 16층

|       |                      |           |     |  |
|-------|----------------------|-----------|-----|--|
| 답 당   | 성기린 님                |           | TEL |  |
| MODEL | TPR - 67SD(S/M)(영)   |           |     |  |
| BUYER |                      |           |     |  |
|       | 1차                   | 2003.1.16 | 6차  |  |
|       | 2차                   | 2003.2.13 | 7차  |  |
| 일 정   | 3차                   | 2003.2.14 | 8차  |  |
|       | 4차                   | 2003.2.18 | 9차  |  |
|       | 5차                   |           | 10차 |  |
| 제 판   | 03.2.18 - (Han) - 출력 |           | 인쇄  |  |
| 규 격   |                      |           |     |  |
| MEMO  |                      |           |     |  |

연락처

VISION 담당 전 지 현

TEL: 757 - 9340 FAX: 774 - 1039