



ROOM AIR CONDITIONER

**RM-13FA**

# SERVICE MANUAL



## C O N T E N T S

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# S P E C I F I C A T I O N S

|                  |      |             |
|------------------|------|-------------|
| MODEL            |      | RM-13FA     |
| COOLING CAPACITY | (kW) | 3.55 - 3.65 |

## ELECTRICAL DATA

|                  |         |             |
|------------------|---------|-------------|
| POWER SOURCE     | (V)     | 220 - 240   |
| FREQUENCY        | (Hz)    | 50          |
| RUNNING CURRENT  | (A)     | 6.6 - 6.7   |
| STARTING CURRENT | (A)     | 32          |
| INPUT WATTS      | (kW)    | 1.38 - 1.45 |
| E.E.R.           | (kW/kW) | 2.57 - 2.52 |
| FUSE             | (A)     | 15          |

## COMPRESSOR

|             |           |                                                                                    |
|-------------|-----------|------------------------------------------------------------------------------------|
| TYPE        |           | Hermetic type, Permanent split condenser,<br>2 pole, Single phase, Induction motor |
| CODE        |           | GRG133CB (GJ160PAA) 3 Leg<br>220 - 240V 50Hz                                       |
| REFRIGERANT | R410A (g) | 730                                                                                |

## FAN MOTOR

|              |          |                     |
|--------------|----------|---------------------|
| POWER SOURCE |          | MFC-13ATT 220 - 240 |
| HIGH         | (r.p.m.) | 950 - 1,010         |
| LOW          | (r.p.m.) | 770 - 840           |

## DIMENSIONS

|           |      |                 |
|-----------|------|-----------------|
| H x W x D | (mm) | 375 x 560 x 650 |
|-----------|------|-----------------|

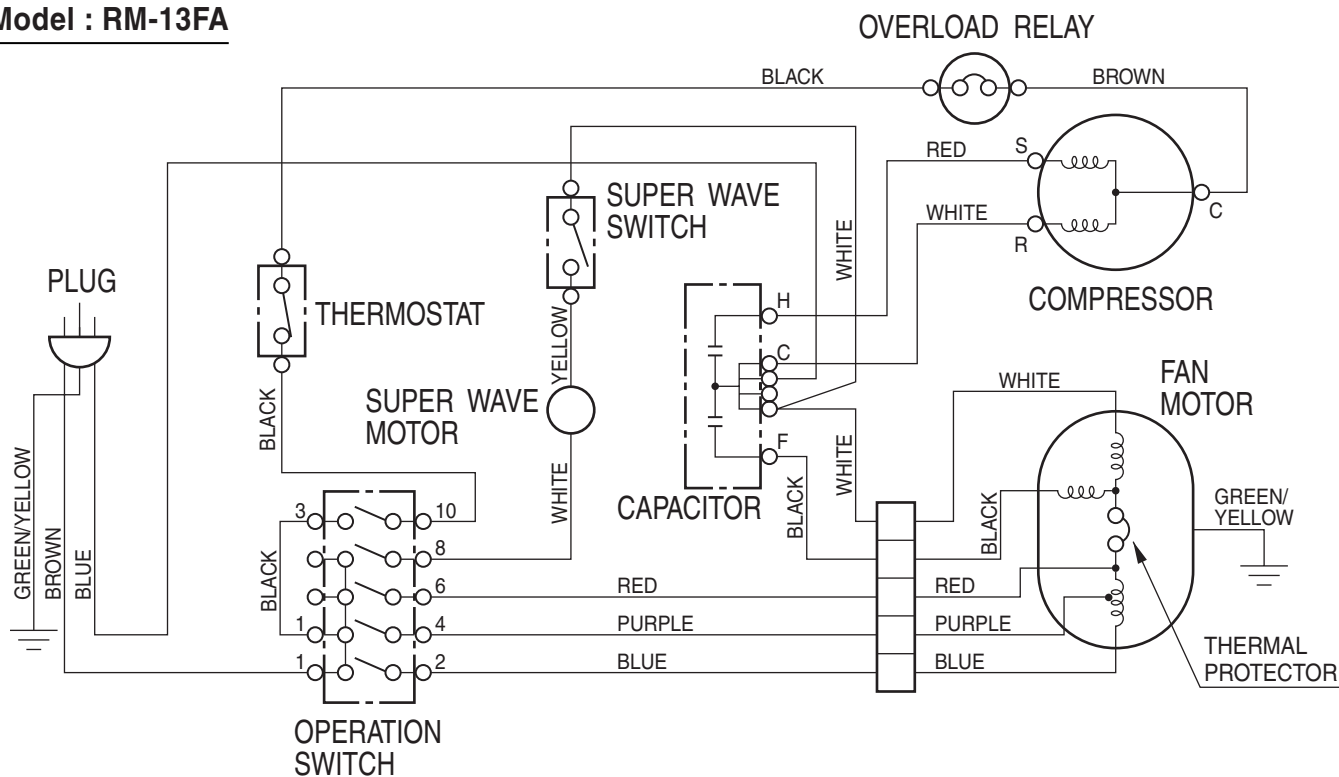
## WEIGHT

|              |      |    |
|--------------|------|----|
| GROSS WEIGHT | (kg) | 49 |
| NET WEIGHT   | (kg) | 44 |

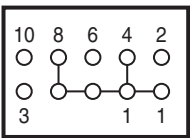
|                  |          |     |
|------------------|----------|-----|
| MOISTURE REMOVAL | ( ℓ /hr) | 1.5 |
|------------------|----------|-----|

# CIRCUIT DIAGRAM

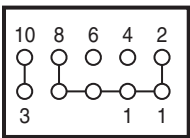
**Model : RM-13FA**



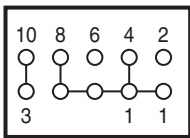
## OPERATION SWITCH INTERNAL CONNECTIONS



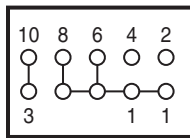
FAN



SUPER QUIET



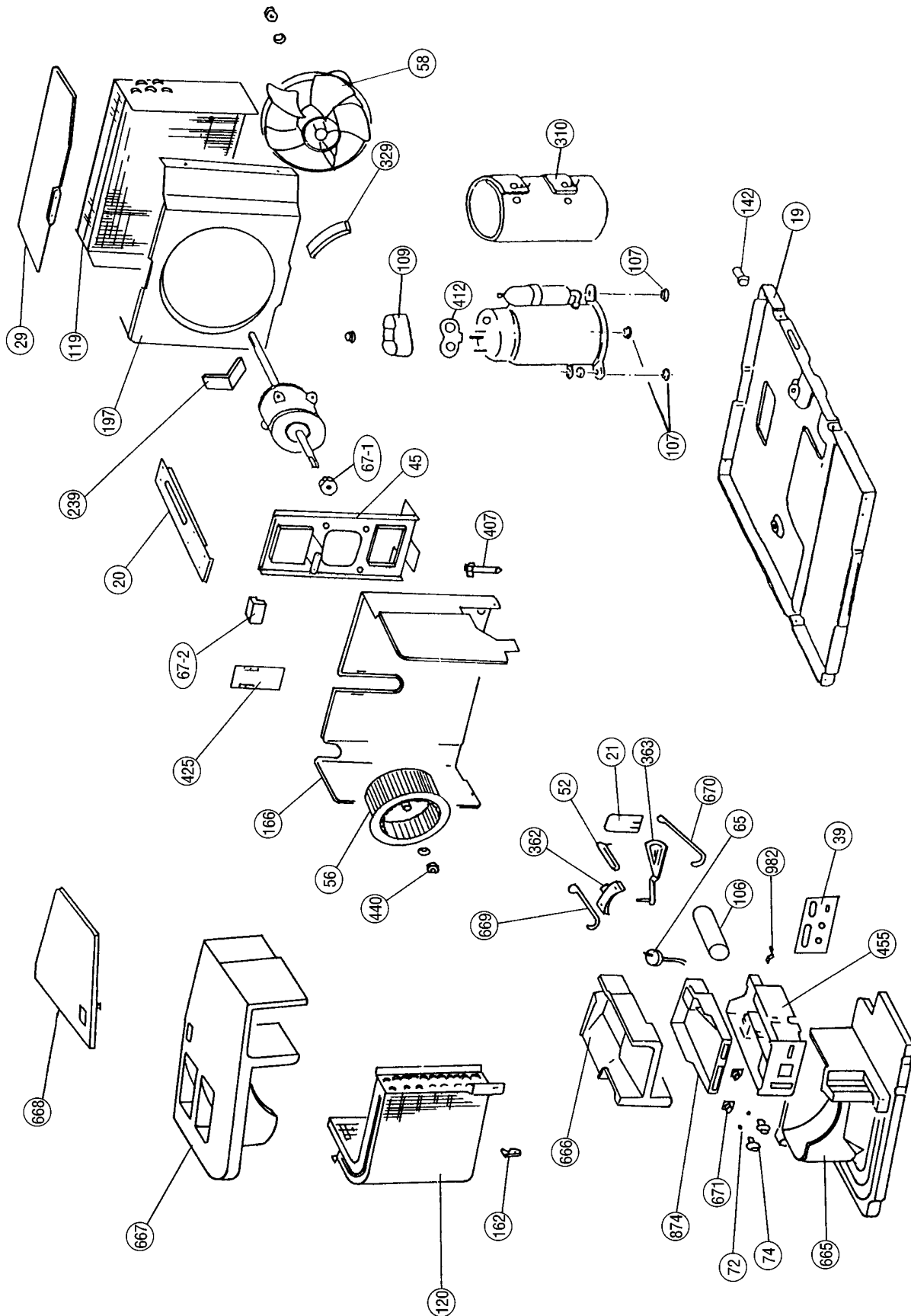
NORMAL



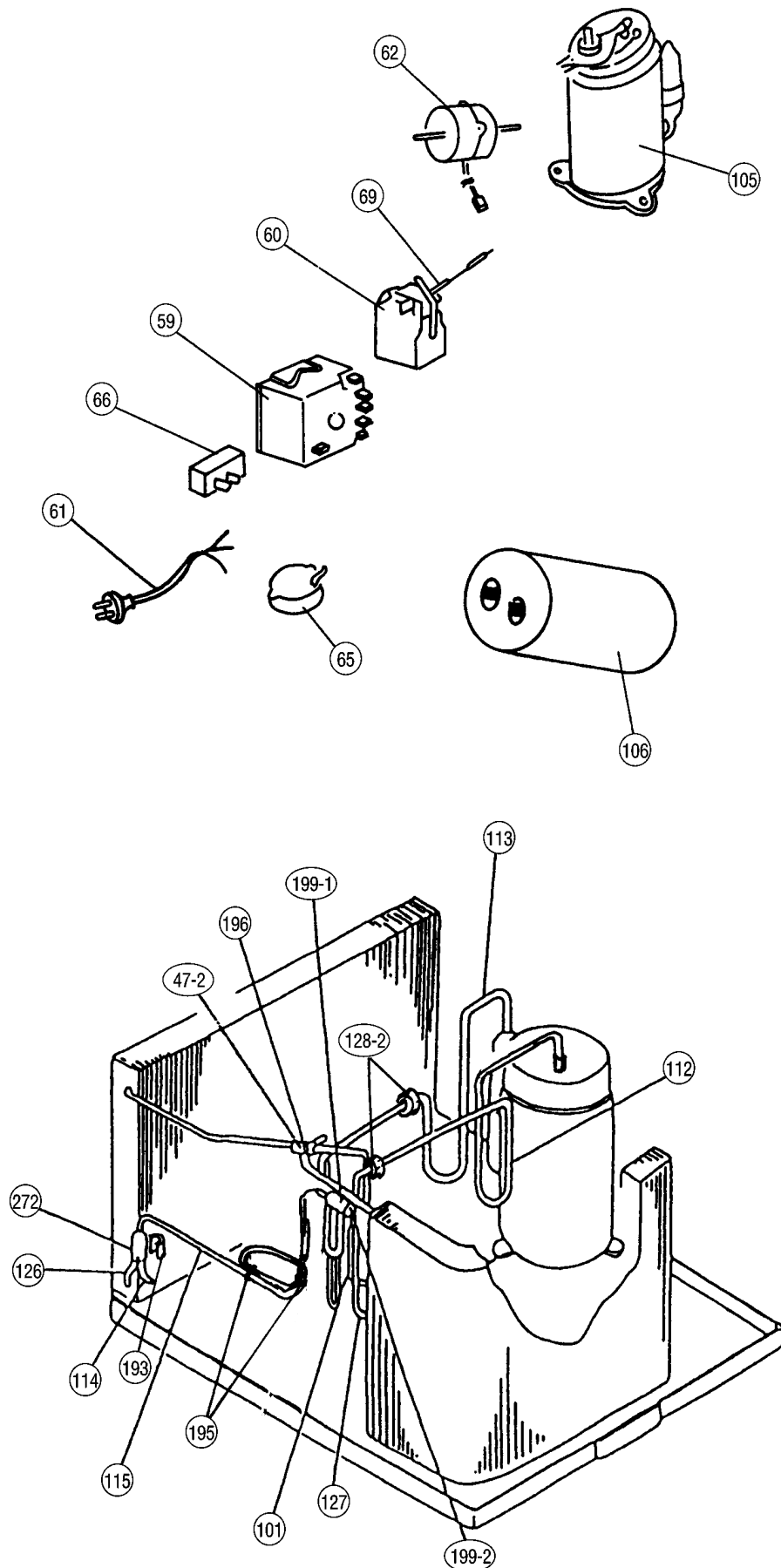
HIGH POWER

# DISASSEMBLY ILLUSTRATION

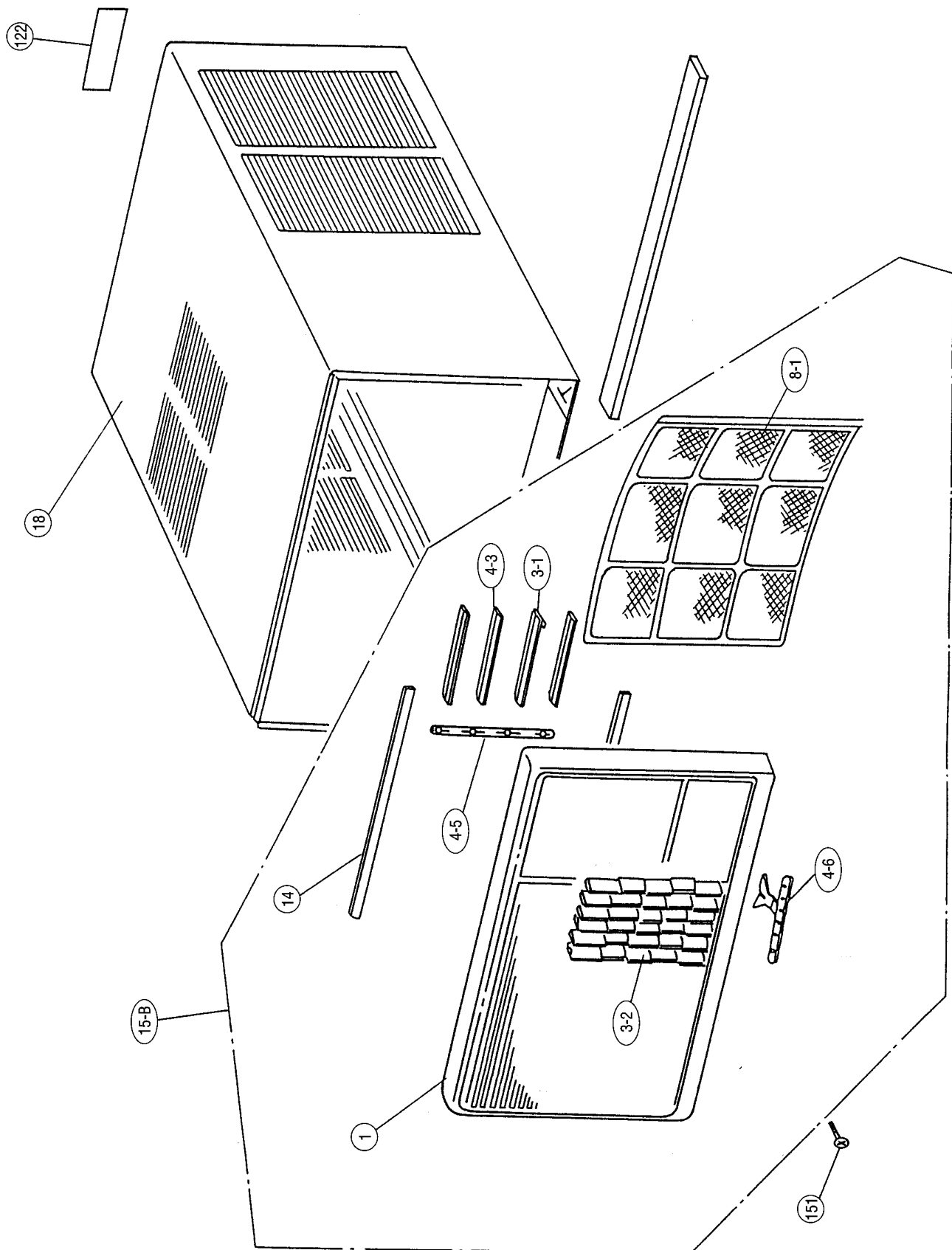
Model : RM-13FA



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# PARTS LIST

## FRONT PANEL PARTS

When you order parts, please make a photocopy of this page and fill the number of the parts in the "Order" column.

| Ref. No. | Description | Part No.   | Ord. Q'ty | Ref. No. | Description        | Part No.   | Ord. Q'ty |
|----------|-------------|------------|-----------|----------|--------------------|------------|-----------|
| 1        | Front panel | 9356309027 |           | 4-5      | Connecting Plate-A | 9356314007 |           |
| 3-1      | Louver-A    | 9356311006 |           | 4-6      | Connecting Plate-B | 9356315004 |           |
| 3-2      | Louver-C    | 9356313017 |           | 8-1      | Filter Assy        | 9356310023 |           |
| 4-3      | Louver-B    | 9356312003 |           | 14       | Rail (Front Panel) | 9356317015 |           |
|          |             |            |           | 15-B     | Front Panel Assy   | 9356661118 |           |

## CABINET & CHASSIS PARTS

| Ref. No. | Description                    | Part No.     | Ord. Q'ty | Ref. No. | Description                    | Part No.     | Ord. Q'ty |
|----------|--------------------------------|--------------|-----------|----------|--------------------------------|--------------|-----------|
| 18       | Cabinet Assy                   | 9356293012   |           | 126      | Condensing Pipe                | 936686002    |           |
| 19       | Base Assy                      | 9356288087   |           | 127      | Inlet Pipe-B (Evaporator) Assy | 9366700005   |           |
| 20       | Supporter-C                    | 9356298000   |           | 128-2    | Counter Weight                 | 313155086308 |           |
| 21       | Exhaust Air Damper             | 9356336009   |           | 142      | Drain Pipe                     | 9351746018   |           |
| 29       | Supporter-B                    | 9356297003   |           | 151      | Front Panel Screw              | 313306389909 |           |
| 39       | Switch Panel                   | 9356351040   |           | 162      | Thermostat Holder              | 9356355000   |           |
| 45       | Motor Fixing Table             | 9356299007   |           | 166      | Separate Wall                  | 9356294002   |           |
| 47-2     | Rubber (Discharge Pipe)        | 313185159802 |           | 193      | Cushion Rubber                 | 313376149201 |           |
| 52       | Louver Arm                     | 313658122104 |           | 195      | Clamp SKB-100                  | 313361275805 |           |
| 56       | Sirocco Fan Assy               | 9356350005   |           | 196      | Clamp SKB-150                  | 313035356905 |           |
| 58       | Propeller Fan Assy             | 9356349009   |           | 197      | Wind Guide Board               | 9356295009   |           |
| 59       | Operation Switch               | 9703097010   |           | 199-1    | BR Sheet                       | 313612108209 |           |
| 60       | Thermostat                     | 9900065027   |           | 199-2    | BR Sheet                       | 313816108200 |           |
| 61       | Power Cord Assy                | 9358309032   |           | 239      | Water Seal Plate               | 9357196008   |           |
| 62       | Fan Motor Assy                 | 9601257028   |           | 272      | Strainer                       | 9366685012   |           |
| 65       | Jet Vane Motor                 | 9370014037   |           | 310      | Compressor Cover               | 9364186009   |           |
| 66       | Jet Vane Switch                | 9354272002   |           | 329      | Sealant (Wind Guide Board)     | 9357223001   |           |
| 67-1     | Rubber (Vibration-proof)       | 9369300004   |           | 362      | Guide Plate                    | 9356337006   |           |
| 67-2     | Rubber-B (Vibration-proof)     | 9356354003   |           | 363      | Moving Plate                   | 9356338003   |           |
| 69       | Protection Tube (Thermostat)   | 313310060308 |           | 407      | Clamp No. 1259                 | 313739340109 |           |
| 72       | Knob Spring (Thermostat Knob)  | 313008061010 |           | 412      | Terminal Gasket (For Comp. )   | 9364725000   |           |
| 74       | Operation Knob                 | 9356352016   |           | 425      | Separate Wall Cover            | 9356326000   |           |
| 101      | Inlet Pipe-A (Evaporator) Assy | 9366697008   |           | 440      | Special Nut                    | 0700005084   |           |
| 105      | Compressor Assy                | 9366701002   |           | 455      | Control Box                    | 9356339017   |           |
| 106      | Running Capacitor              | 9900104016   |           | 665      | Casing-Under                   | 9356330007   |           |
| 107      | Rubber Seat-A (For Comp. )     | 9359425014   |           | 666      | Casing-Middle, Painted         | 9356329001   |           |
| 109      | Terminal Cover (For Comp. )    | 9364724003   |           | 667      | Casing-Top, Painted            | 9356328004   |           |
| 112      | Discharge Pipe                 | 9366684008   |           | 668      | Reinforcement (Casing)-C       | 9356296006   |           |
| 113      | Suction Pipe Assy              | 9366694007   |           | 669      | Operation Wire-A               | 9356333008   |           |
| 114      | Air Duct Pipe-E                | 9366687009   |           | 670      | Operation Wire-B               | 9356334005   |           |
| 115      | Capillary Tube                 | 9366719007   |           | 671      | Slide Lever                    | 9356335019   |           |
| 119      | Condenser Assy                 | 9369997006   |           | 874      | Control Box Cover              | 9356332018   |           |
| 120      | Evaporator Assy                | 9366688013   |           | 982      | Cord Clamp                     | 9358065006   |           |
| 122      | Emblem-B (Rear)                | 9362013000   |           |          |                                |              |           |



MANUFACTURER :

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Tokyo, Japan