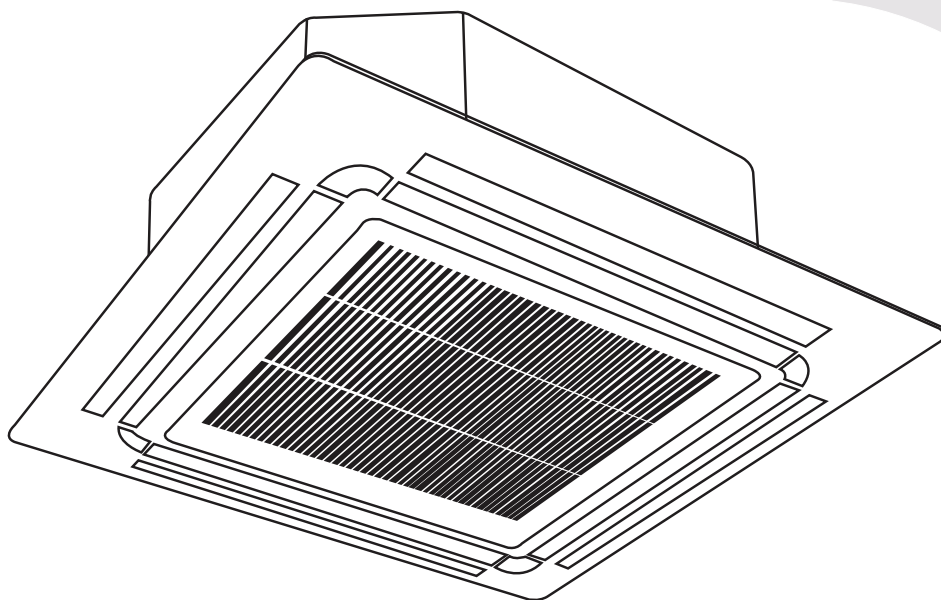




## **CYB-20 Inverter Series**

For 36,000-48,000 BTU/hr Systems

*Quantum Ultra (R-454B) - CB Indoor and YN Outdoor*



## **Expanded Parts Diagrams**

### **IMPORTANT NOTICE:**

Read this manual carefully before installing or operating your new air conditioning system. Be sure to save this manual for future reference.

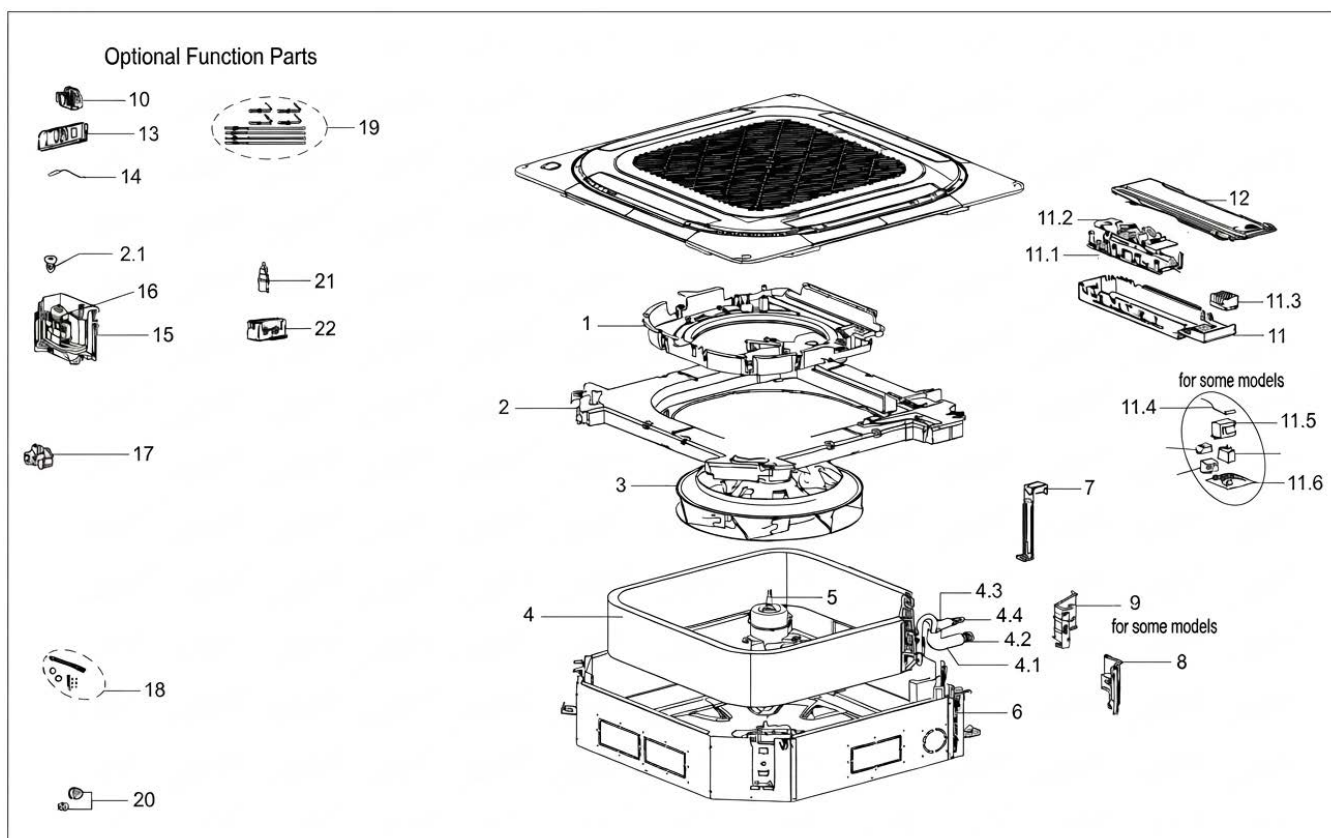
## Model Numbers

### Note

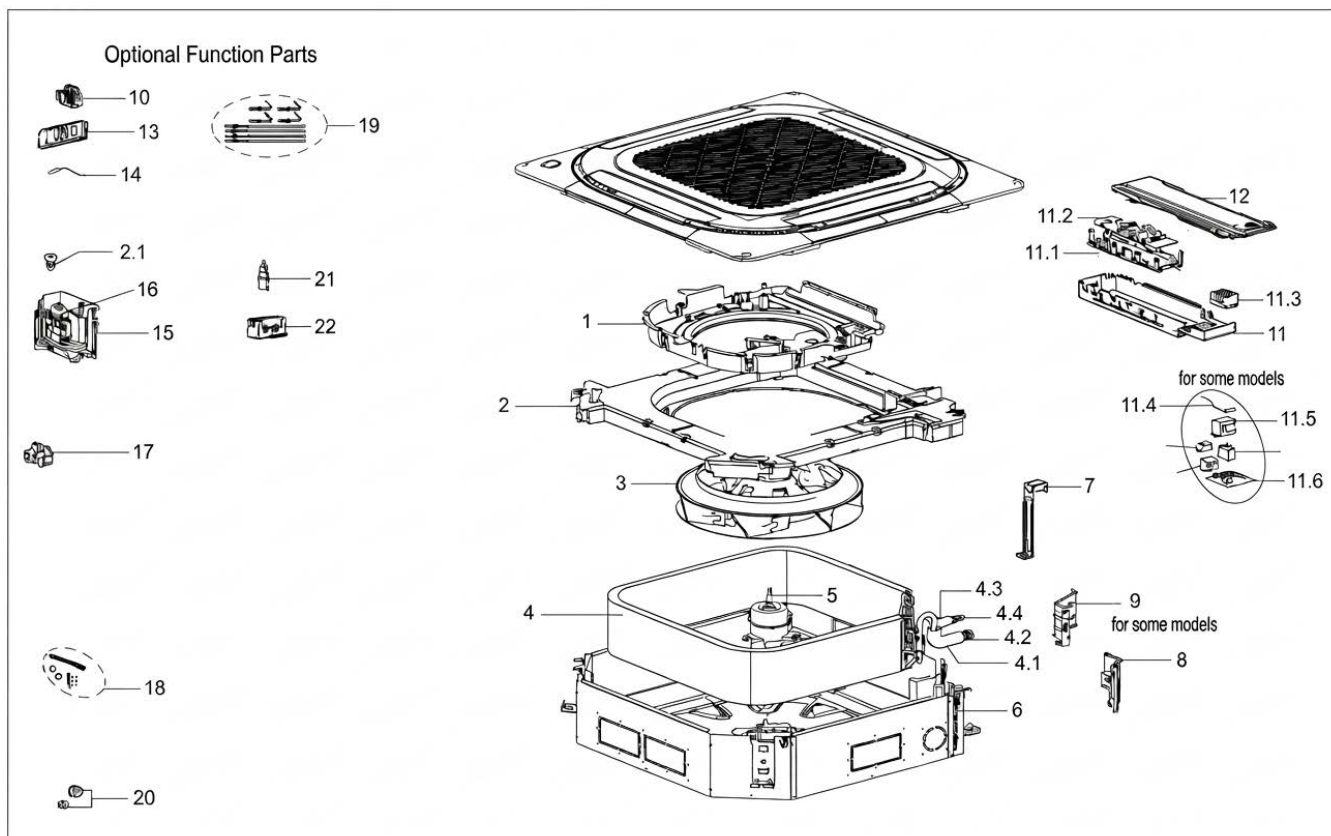
Serial numbers are typically located behind the electronic control box cover cap of each unit.

| Model | Full System    | Indoor Unit    | Outdoor Unit   |
|-------|----------------|----------------|----------------|
| 36K   | CYB036GMSI20RL | CB036GMSILDFHG | YN036GMSI20RUG |
| 48K   | CYB048GMSI20RL | CB048GMSILDFHG | YN048GMSI20RUG |

## Indoor Unit: CB036GMSILDFHG

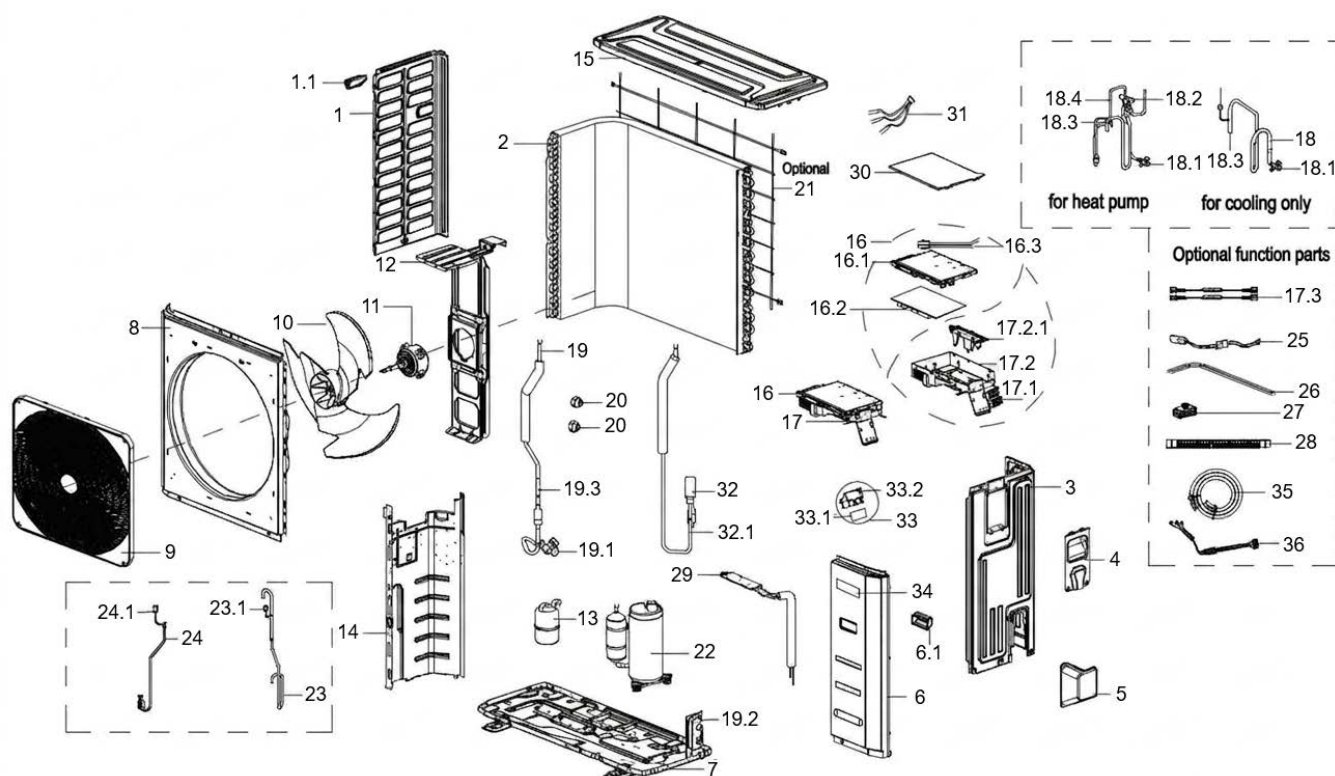


| No.  | Part No.       | Part Name                   | Qty. | Remark |
|------|----------------|-----------------------------|------|--------|
| 1    | 12122500002031 | Orifice Ring                | 1    |        |
| 2    | 12822500A00067 | Condensate Drain Pan        | 1    |        |
| 2.1  | 17400511001244 | Float Switch                | 1    |        |
| 3    | 12100103001504 | Blower Wheel                | 1    |        |
| 4    | 15822500003160 | Evaporator Coil             | 1    |        |
| 4.1  | 15122500003316 | Suction Line                | 1    |        |
| 4.2  | 15500404000008 | Pipe Nut                    | 1    |        |
| 4.3  | 15122500003260 | Refrigerant Distributor     | 1    |        |
| 4.4  | 15500209000002 | Pin Valve                   | 1    |        |
| 5    | 11002015012308 | Fan Motor (Brushless DC)    | 1    |        |
| 6    | 12222500002094 | Chassis                     | 1    |        |
| 7    | 12222500000089 | Evaporator Fixing Hanger    | 2    |        |
| 8    | 12122500002028 | Pipe Clamp Bracket          | 1    |        |
| 9    | 12222500002092 | Evaporator Fixing Board     | 1    |        |
| 10   | 11201003000344 | Gas Leak Detector           | 1    |        |
| 11   | 17222500005585 | Control Box                 | 1    |        |
| 11.1 | 12122500002047 | Insulation Plate            | 1    |        |
| 11.2 | 17122500007506 | Printed Control Board (PCB) | 1    |        |
| 11.3 | 17400401000085 | Wire Joint                  | 1    |        |
| 11.4 | 11201007003424 | Room Temperature Sensor     | 1    |        |
| 11.5 | 17400306001543 | Reactor                     | 1    |        |
| 11.6 | 17122000048868 | Humidity Sensor             | 1    |        |
| 12   | 12222500002033 | Control Box Cover           | 1    |        |
| 13   | 17317000A73479 | Remote Control              | 1    |        |
| 14   | 11201007003442 | Pipe Temperature Sensor     | 1    |        |
| 15   | 12122500003147 | Drain Pump                  | 1    |        |
| 16   | 11001010001757 | Induction Pump              | 1    |        |

**Indoor Unit: CB036GMSILDFHG**

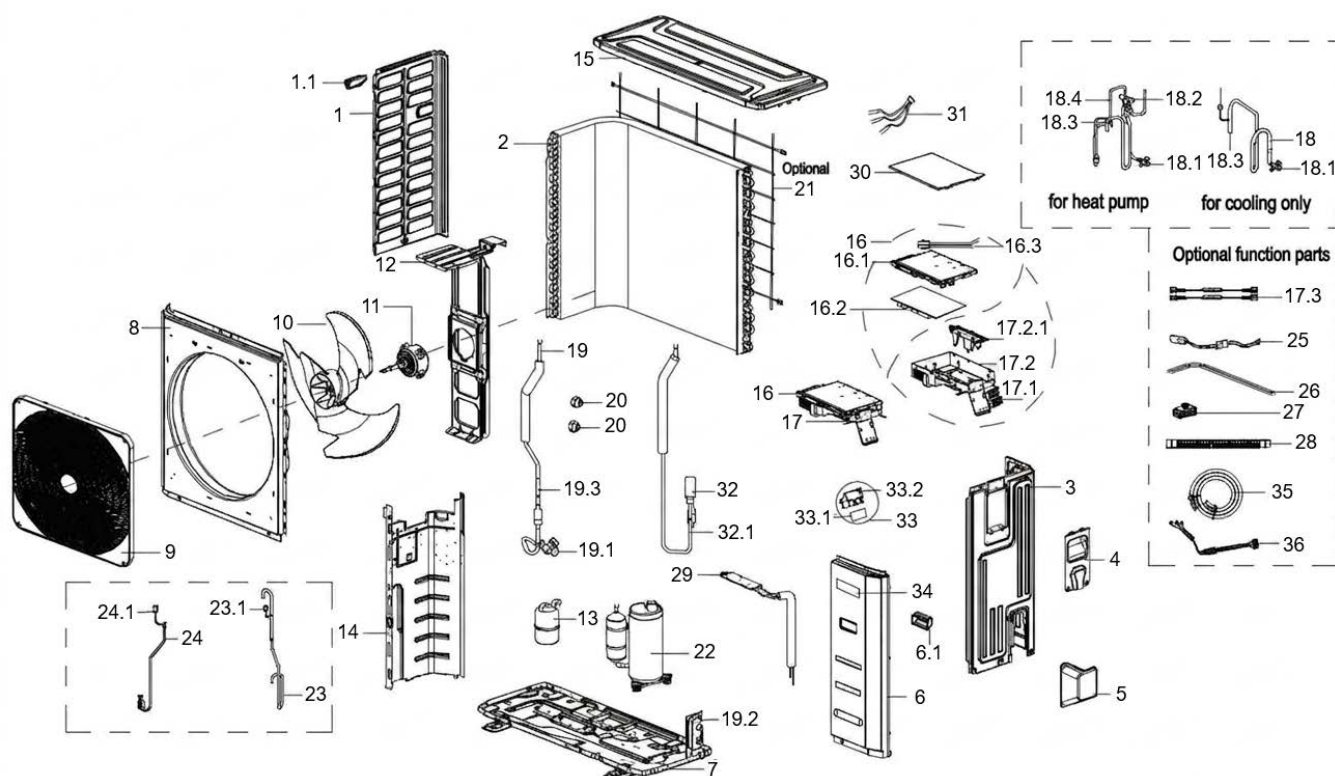
| No. | Part No.       | Part Name             | Qty. | Remark |
|-----|----------------|-----------------------|------|--------|
| 17  | 12122000029201 | Remote Control Holder | 1    |        |
| 18  | 12011600005258 | Condensate Drain Kit  | 1    |        |
| 19  | 12022500000002 | Accessory Kit         | 1    |        |
| 20  | 15500406000010 | Copper Flare Nut      | 1    |        |
|     | 15500406000008 | Copper Flare Nut      | 1    |        |
| 21  | 17310900005803 | Wi-Fi Module          | 1    |        |
| 22  | 12600401006153 | Rubber Base           | 1    |        |

## Outdoor Unit: YN036GMSI20RUG



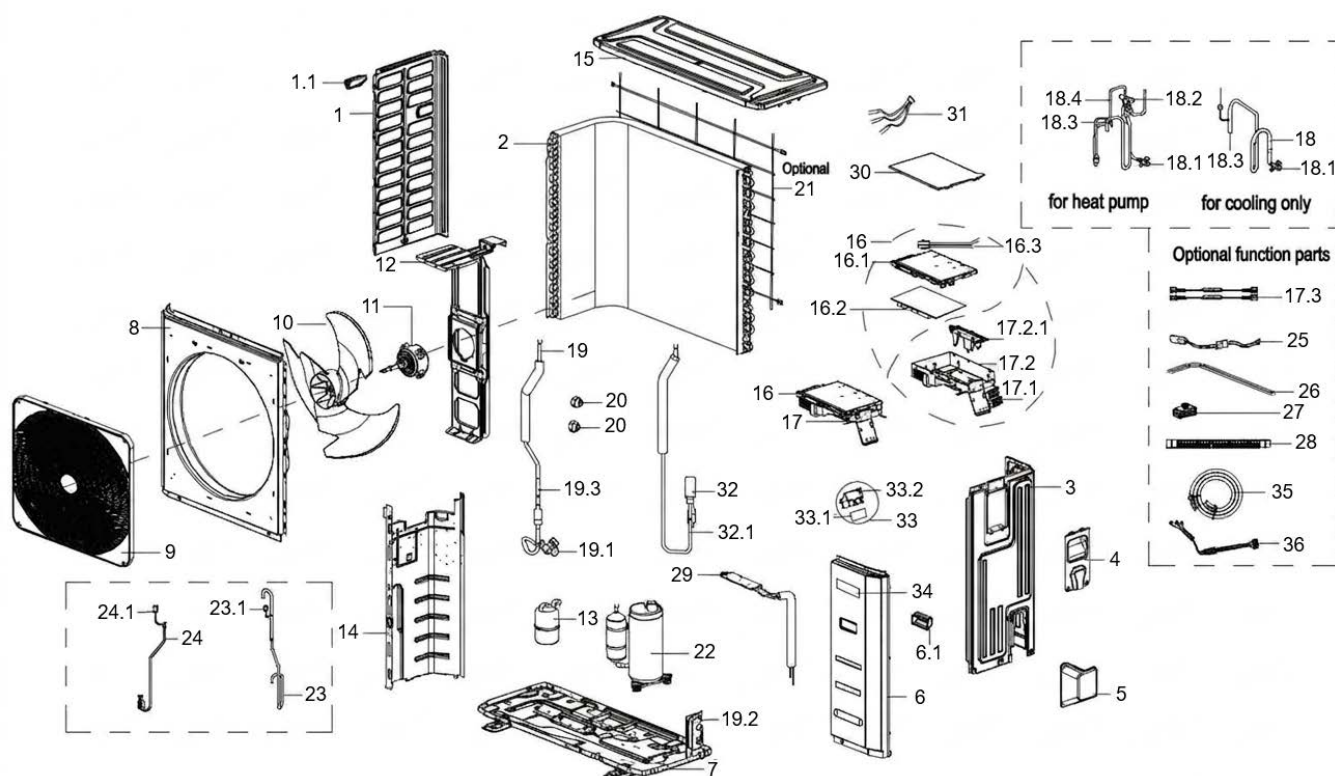
| No.    | Part No.       | Part Name                        | Qty. | Remark |
|--------|----------------|----------------------------------|------|--------|
| 1      | 12222000006665 | Left Side Panel                  | 1    |        |
| 1.1    | 12100701000033 | Small Handle                     | 1    |        |
| 2      | 15822000014546 | Condensing Unit                  | 1    |        |
| 3      | 12222000019926 | Right Side Panel                 | 1    |        |
| 4      | 12222000011085 | Large Handle                     | 1    |        |
| 5      | 12122200002695 | Condensate Drain Pan             | 1    |        |
| 6      | 12222500003152 | Front Right Panel                | 1    |        |
| 6.1    | 12100702000038 | Handle                           | 1    |        |
| 7      | 12222000004018 | Chassis                          | 1    |        |
| 8      | 12222000A01431 | Front Panel                      | 1    |        |
| 9      | 12222000014845 | Air Outlet Grille                | 1    |        |
| 10     | 12100105000084 | Fan Blade (Axial Flow)           | 1    |        |
| 11     | 11002015020443 | Fan Motor (Brushless DC)         | 1    |        |
| 12     | 12222000005162 | Fan Motor Mounting Bracket       | 1    |        |
| 13     | 15500508000002 | Liquid-Storage Tank              | 1    |        |
| 14     | 12222000023005 | Partition Board                  | 1    |        |
| 15     | 12222500000587 | Top Cover                        | 1    |        |
| 16     | 17222000048811 | Control Box                      | 1    |        |
| 16.1   | 12122000034104 | Electronic Installation Box      | 1    |        |
| 16.2   | 17122000070100 | Printed Circuit Board (PCB)      | 1    |        |
| 16.3   | 17401203026201 | HV Junction Cable                | 1    |        |
| 17     | 17222000043453 | Terminal Board                   | 1    |        |
| 17.1   | 17400401006536 | Wire Joint                       | 1    |        |
| 17.2   | 12222000018888 | Electronic Installation Box      | 1    |        |
| 17.2.1 | 12122000033782 | U-Typed Support with Copper Pipe | 1    |        |
| 17.3   | 17401203032140 | HV Junction Cable                | 1    |        |

## Outdoor Unit: YN036GMSI20RUG



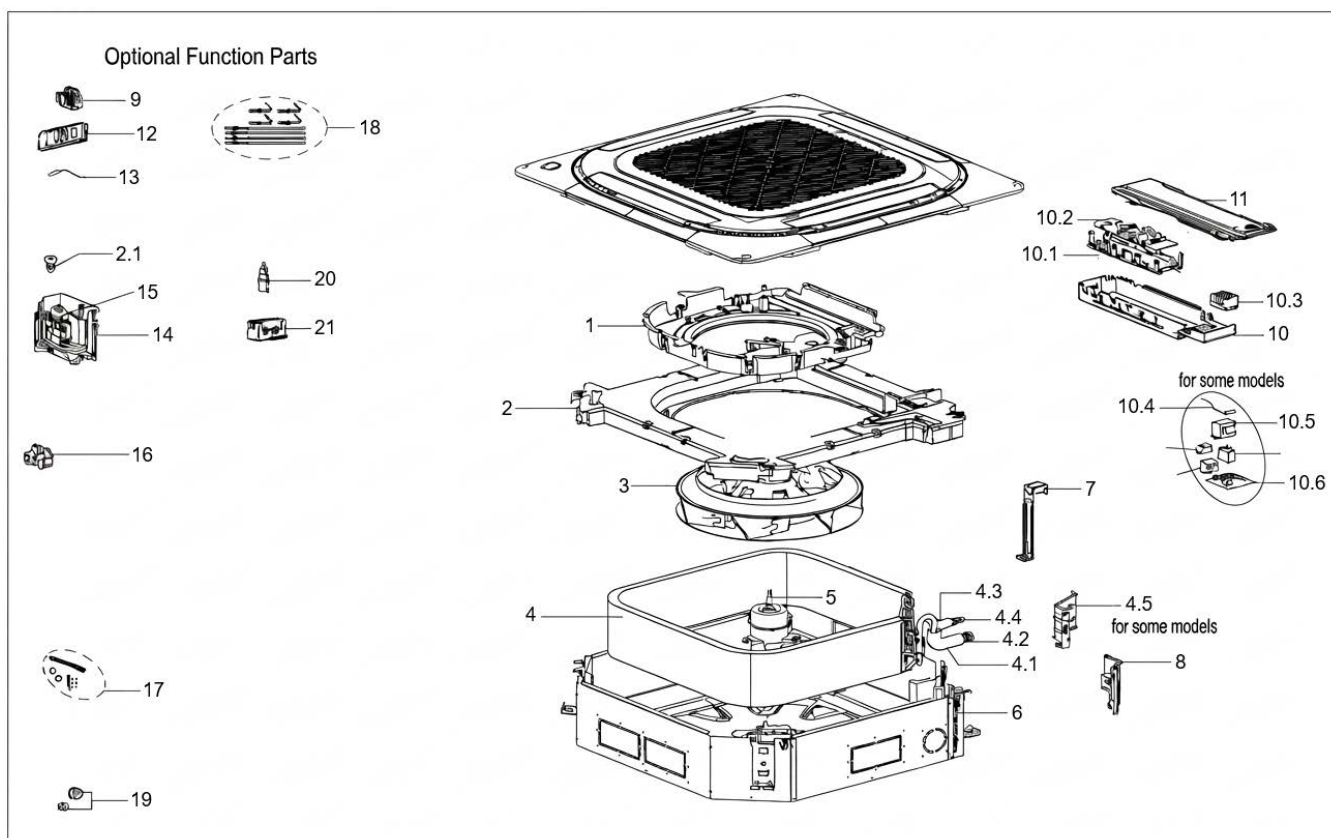
| No.  | Part No.        | Part Name                           | Qty. | Remark |
|------|-----------------|-------------------------------------|------|--------|
| 18   | 15422500001296  | 4-Way Valve Assembly                | 1    |        |
| 18.1 | 15500204000662  | Gas Valve                           | 1    |        |
| 18.2 | 15500216002483  | 4-Way Valve                         | 1    |        |
| 18.3 | 15123000008207  | Suction Line                        | 1    |        |
| 18.4 | 15123000003661  | Discharge Line                      | 1    |        |
| 19   | 15422000025717  | Liquid Valve Assembly               | 1    |        |
| 19.1 | 15500208000286  | Liquid Valve                        | 1    |        |
| 19.2 | 12222000000611  | Valve Installation Plate            | 1    |        |
| 19.3 | 15500210003208  | Throttle Valve                      | 1    |        |
| 20   | 15500406000008  | Flare Nut                           | 1    |        |
|      | 15500406000010  | Flare Nut                           | 1    |        |
| 21   | 122220000006604 | Rear Grille                         | 1    |        |
| 22   | 11103020000719  | Compressor (Rotary Inverter)        | 1    |        |
| 23   | 15122500001076  | Suction Line Assembly               | 1    |        |
| 23.1 | 17400516000848  | Pressure Controller                 | 1    |        |
| 24   | 15122000028897  | Discharge Line Assembly             | 1    |        |
| 24.1 | 17400516000849  | Pressure Controller                 | 1    |        |
| 25   | 17402001001059  | Crankcase Heater                    | 1    |        |
| 26   | 17402002000466  | Heater                              | 1    |        |
| 27   | 12600401000813  | Rubber Pad                          | 1    |        |
| 28   | 12100509000038  | Drain Hose                          | 1    |        |
| 29   | 15122000033880  | Radiator                            | 1    |        |
| 30   | 12222000018405  | Cover Plate Assembly                | 1    |        |
| 31   | 11201011001107  | Temperature Sensor                  | 1    |        |
| 32   | 15422000017858  | Electronic Expansion Valve Assembly | 1    |        |
| 32.1 | 15500213002289  | Electronic Expansion Valve          | 1    |        |

## Outdoor Unit: YN036GMSI20RUG

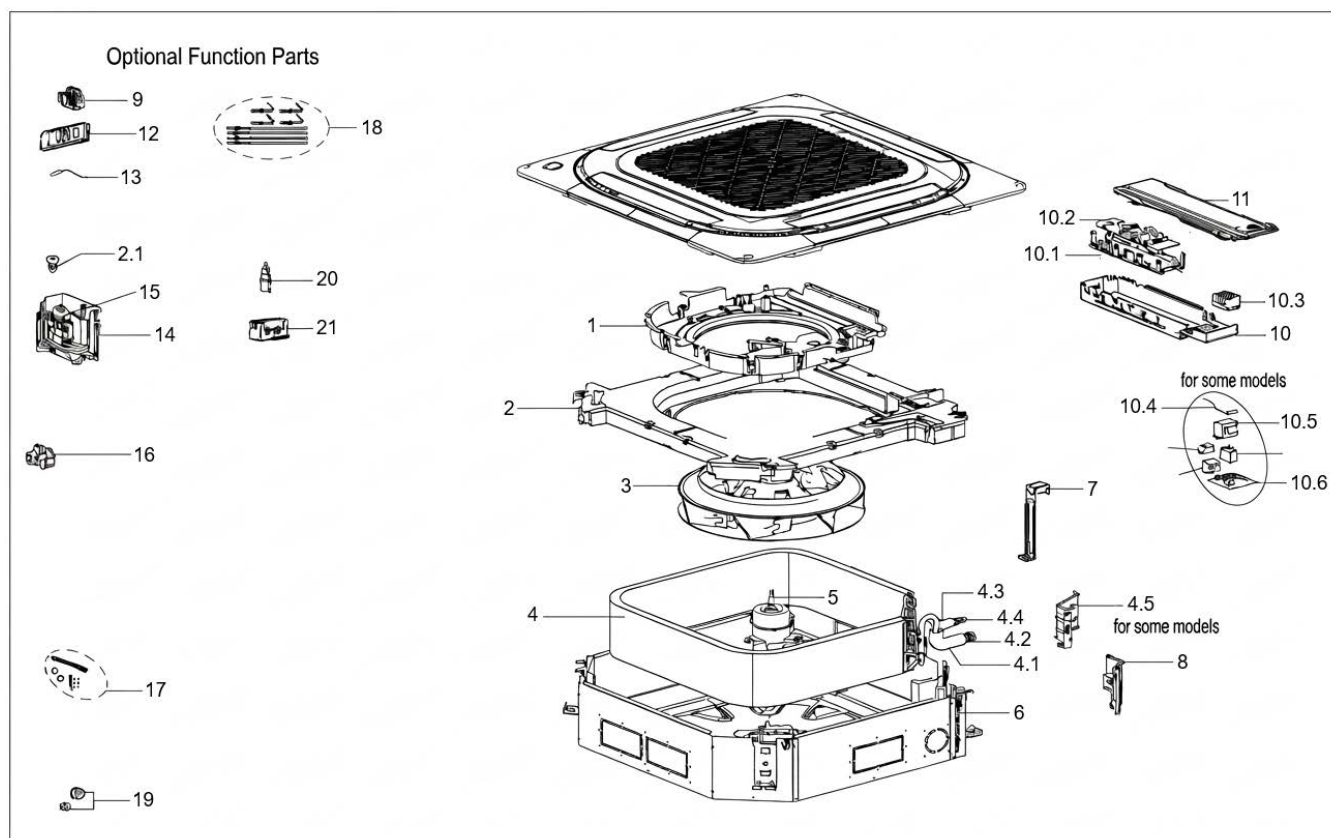


| No.  | Part No.       | Part Name                  | Qty. | Remark |
|------|----------------|----------------------------|------|--------|
| 33   | 17222000043452 | Keyboard Box               | 1    |        |
| 33.1 | 17122000063037 | Keyboard                   | 1    |        |
| 33.2 | 12122000025661 | DR Installation Foundation | 1    |        |
| 34   | 16022000B78474 | Trademark                  | 1    |        |
| 35   | 12011600A00350 | Accessory Kit              | 1    |        |
| 36   | 17401203000751 | Compressor Wires           | 1    |        |

## Indoor Unit: CB048GMSILDFHG

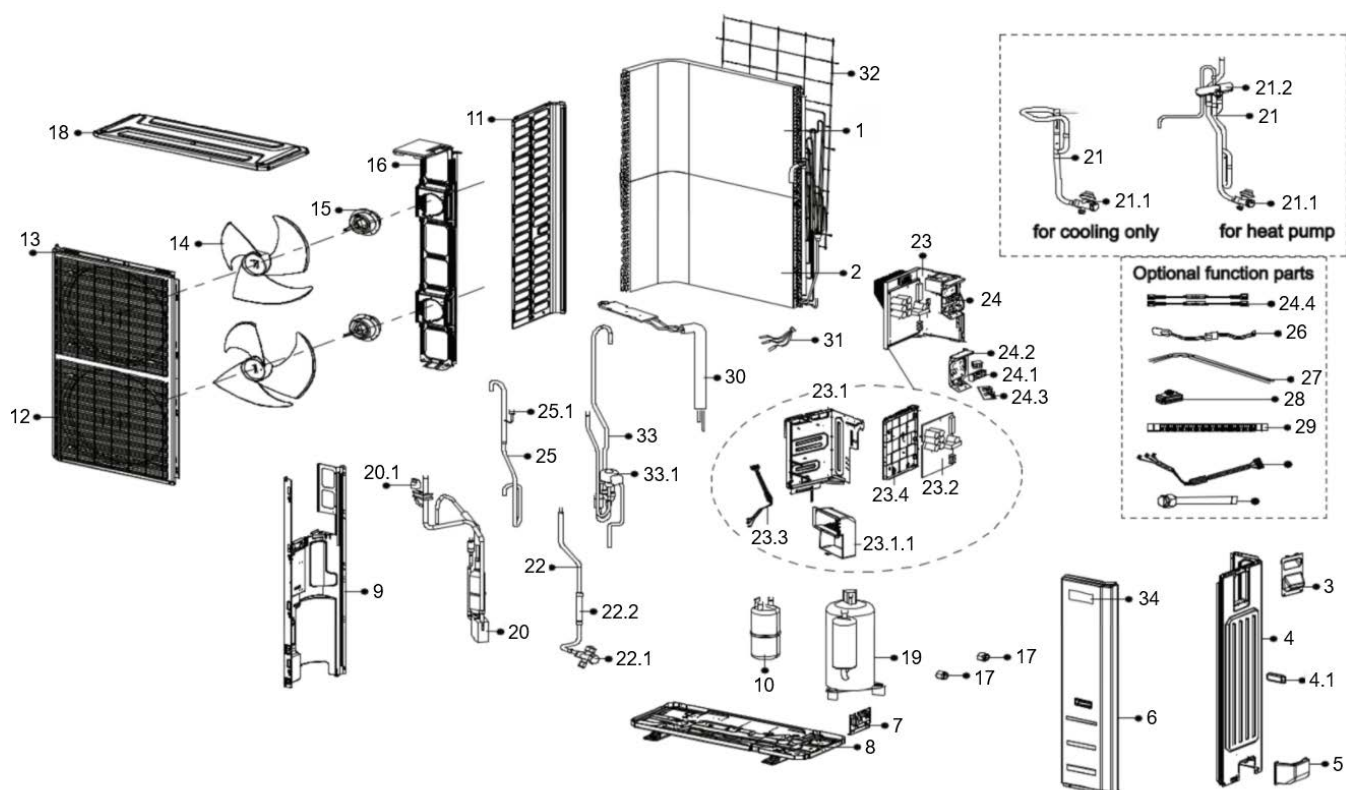


| No.  | Part No.       | Part Name                   | Qty. | Remark |
|------|----------------|-----------------------------|------|--------|
| 1    | 12122500002029 | Orifice Ring                | 1    |        |
| 2    | 12822500A00067 | Condensate Drain Pan        | 1    |        |
| 2.1  | 17400511001244 | Float Switch                | 1    |        |
| 3    | 12100103001484 | Blower Wheel                | 1    |        |
| 4    | 15822500003159 | Evaporator Coil             | 1    |        |
| 4.1  | 15122500003296 | Suction Line                | 1    |        |
| 4.2  | 15500404000008 | Pipe Nut                    | 1    |        |
| 4.3  | 15122500003257 | Refrigerant Distributor     | 1    |        |
| 4.4  | 15500209000002 | Pin Valve                   | 1    |        |
| 4.5  | 12222500002092 | Evaporator Fixing Board     | 1    |        |
| 5    | 11002015012308 | Fan Motor (Brushless DC)    | 1    |        |
| 6    | 12222500002052 | Chassis                     | 1    |        |
| 7    | 12222500000090 | Evaporator Fixing Hanger    | 2    |        |
| 8    | 12122500002028 | Pipe Clamp Bracket          | 1    |        |
| 9    | 11201003000344 | Gas Leak Detector           | 1    |        |
| 10   | 17222500005594 | Control Box                 | 1    |        |
| 10.1 | 12122500002047 | Insulation Plate            | 1    |        |
| 10.2 | 17122500007513 | Printed Control Board (PCB) | 1    |        |
| 10.3 | 17400401000085 | Wire Joint                  | 1    |        |
| 10.4 | 11201007003424 | Room Temperature Sensor     | 1    |        |
| 10.5 | 17400306001543 | Reactor                     | 1    |        |
| 10.6 | 17122000048868 | Humidity Sensor             | 1    |        |
| 11   | 12222500002033 | Control Box Cover           | 1    |        |
| 12   | 17317000A73479 | Remote Control              | 1    |        |
| 13   | 11201007003442 | Pipe Temperature Sensor     | 1    |        |
| 14   | 12122500003147 | Drain Pump                  | 1    |        |
| 15   | 11001010001757 | Induction Pump              | 1    |        |

**Indoor Unit: CB048GMSILDFHG**

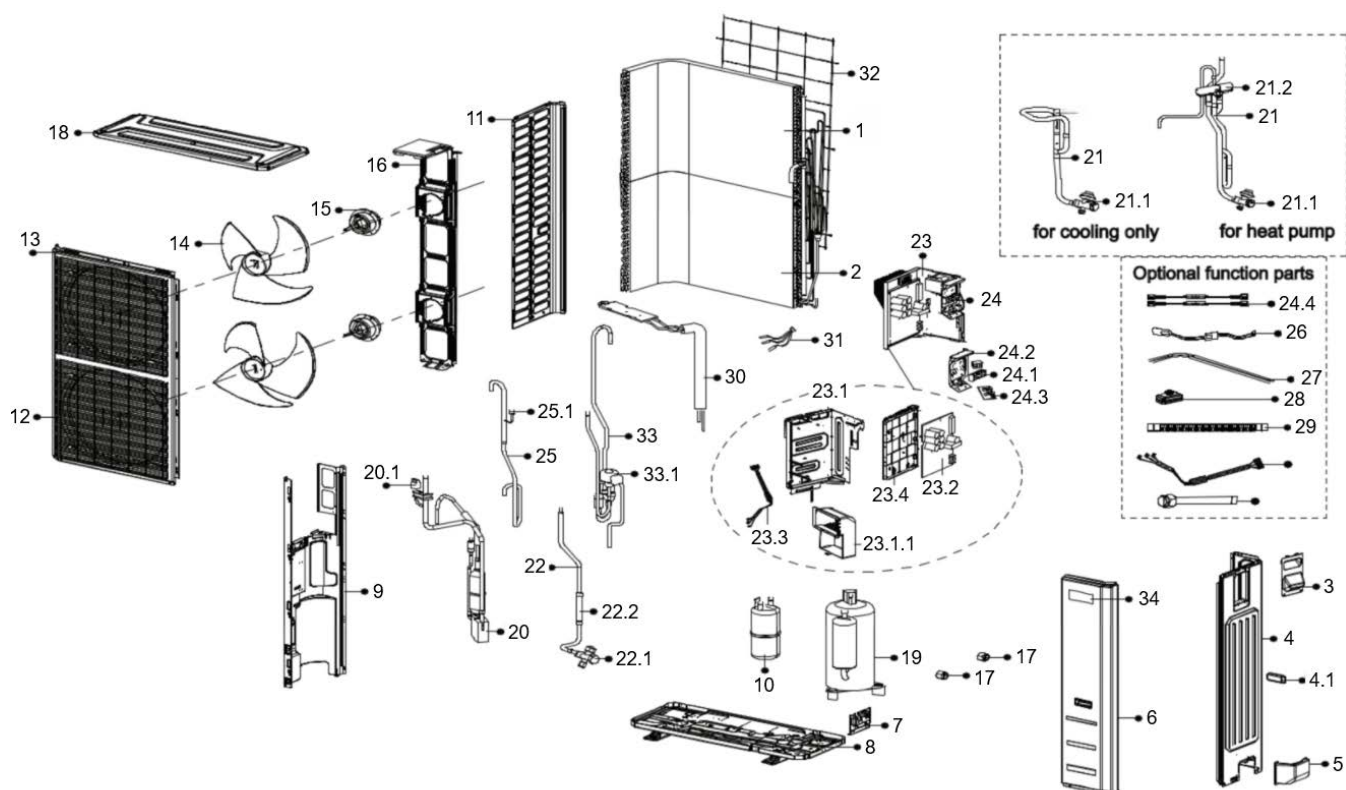
| No. | Part No.       | Part Name             | Qty. | Remark |
|-----|----------------|-----------------------|------|--------|
| 16  | 12122000029201 | Remote Control Holder | 1    |        |
| 17  | 12011600005258 | Condensate Drain Kit  | 1    |        |
| 18  | 12022500000002 | Accessory Kit         | 1    |        |
| 19  | 15500406000010 | Copper Flare Nut      | 1    |        |
|     | 15500406000008 | Copper Flare Nut      | 1    |        |
| 20  | 17310900005803 | Wi-Fi Module          | 1    |        |
| 21  | 12600401006153 | Rubber Base           | 1    |        |

## Outdoor Unit: YN048GMSI20RUG



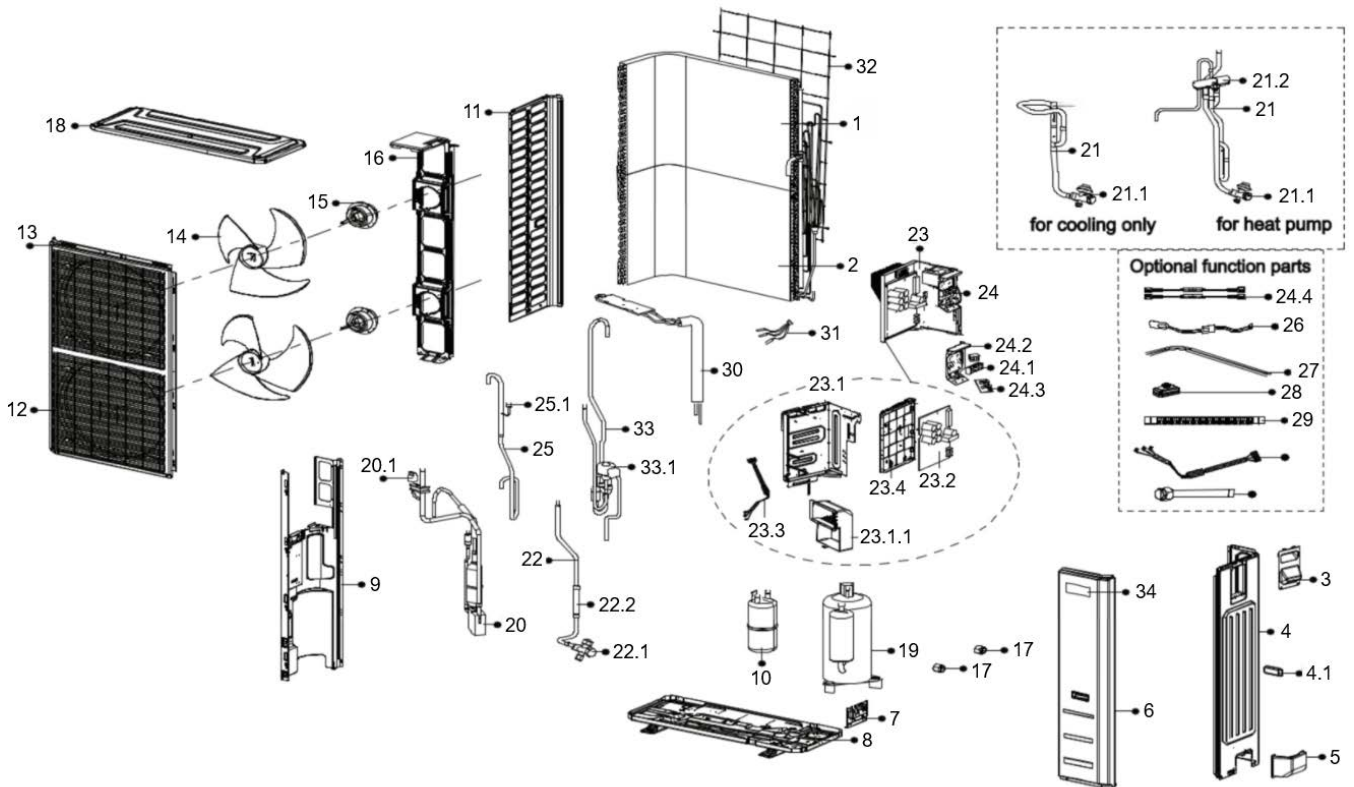
| No.  | Part No.       | Part Name                    | Qty. | Remark |
|------|----------------|------------------------------|------|--------|
| 1    | 15822000010762 | Top Condensing Unit          | 1    |        |
| 2    | 15822000015346 | Bottom Condensing Unit       | 1    |        |
| 3    | 12222000018396 | Large Handle                 | 1    |        |
| 4    | 12222000019916 | Right Side Panel             | 1    |        |
| 4.1  | 12100702000038 | Handle                       | 1    |        |
| 5    | 12122000014023 | Condensate Drain Pan         | 1    |        |
| 6    | 12222000020285 | Front Right Panel            | 1    |        |
| 7    | 1222200002361  | Valve Installation Plate     | 1    |        |
| 8    | 12222000006290 | Chassis                      | 1    |        |
| 9    | 12222000005733 | Partition Board              | 1    |        |
| 10   | 15500508000009 | Liquid-Storage Tank          | 1    |        |
| 11   | 1222200002363  | Left Side Panel              | 1    |        |
| 12   | 12222000014845 | Air Outlet Grille            | 1    |        |
| 13   | 12222000007564 | Front Panel                  | 1    |        |
| 14   | 12100105000022 | Fan Blade (Axial Flow)       | 1    |        |
| 15   | 11002015019452 | Fan Motor (Brushless DC)     | 1    |        |
| 16   | 12222000006288 | Fan Motor Mounting Bracket   | 1    |        |
| 17   | 15500406000010 | Flare Nut                    | 1    |        |
|      | 15500406000008 | Flare Nut                    | 1    |        |
| 18   | 12222000008695 | Top Cover                    | 1    |        |
| 19   | 11103020002859 | Compressor (Rotary Inverter) | 1    |        |
| 20   | 15122000034248 | Discharge Line               | 1    |        |
| 20.1 | 17400516000851 | Pressure Controller          | 1    |        |
| 21   | 15422000025739 | 4-Way Valve Assembly         | 1    |        |
| 21.1 | 15500204000662 | Gas Valve                    | 1    |        |
| 21.2 | 15500216002623 | Reversing Valve              | 1    |        |

## Outdoor Unit: YN048GMSI20RUG



| No.    | Part No.       | Part Name                           | Qty. | Remark |
|--------|----------------|-------------------------------------|------|--------|
| 22     | 15422000019292 | Liquid Valve Assembly               | 1    |        |
| 22.1   | 15500208000286 | Liquid Valve                        | 1    |        |
| 22.2   | 15500210001888 | Throttle Valve                      | 1    |        |
| 23     | 17222000048790 | Control Box                         | 1    |        |
| 23.1   | 12222000019348 | Electronic Parts Installation Plate | 1    |        |
| 23.1.1 | 12122000020942 | Air Duct                            | 1    |        |
| 23.2   | 17122000070098 | Printed Circuit Board (PCB)         | 1    |        |
| 23.3   | 17401203000936 | Compressor Wires                    | 1    |        |
| 23.4   | 12122000032939 | Electronic Installation Box         | 1    |        |
| 24     | 17222000043432 | Terminal Board                      | 1    |        |
| 24.1   | 17400401000085 | Wire Joint                          | 1    |        |
|        | 17400401006516 | Wire Joint                          | 1    |        |
| 24.2   | 12222000019625 | Terminal Installation Subassembly   | 1    |        |
| 24.3   | 17122000063054 | Keyboard                            | 1    |        |
| 24.4   | 17401203032144 | HV Junction Cable                   | 1    |        |
| 25     | 15122000034249 | Suction Line Assembly               | 1    |        |
| 25.1   | 17400516000008 | Pressure Controller                 | 1    |        |
| 26     | 17402001000602 | Crankcase Heater                    | 1    |        |
| 27     | 17402002000466 | Heater                              | 1    |        |
| 28     | 12600401000813 | Rubber Pad                          | 1    |        |
| 29     | 12100509000038 | Drain Hose                          | 1    |        |
| 30     | 15122000034194 | Radiator                            | 1    |        |
| 31     | 11201011001207 | Temperature Sensor                  | 1    |        |
| 32     | 12222000007944 | Rear Grille                         | 1    |        |
| 33     | 15422000025740 | Electronic Expansion Valve Assembly | 1    |        |
| 33.1   | 15500213000265 | Electronic Expansion Valve          | 1    |        |

## Outdoor Unit: YN048GMSI20RUG



| No. | Part No.       | Part Name | Qty. | Remark |
|-----|----------------|-----------|------|--------|
| 34  | 16022000B78474 | Trademark | 1    |        |

The design and specifications of this product are subject to change without prior notice as development continues. Consult with the sales agency or manufacturer for details. Refer to the equipment nameplate for all other applicable specifications.

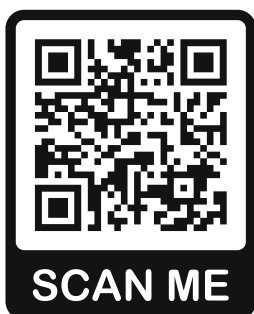


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