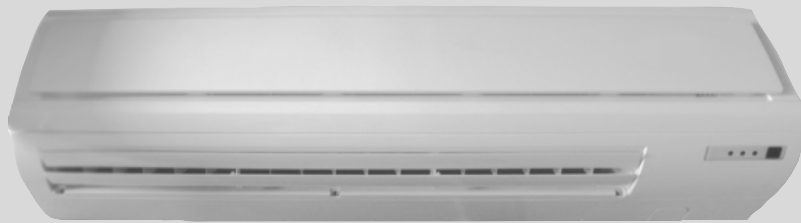


1 Introduction and Features



| Model | Remarks |
|--|-------------------------------------|
| GWHN24C1NK3AB GWHN24C1NK3AA GWCN24C1NK3AA | 1PH 220 — 240V~ 50Hz R410A |
| GWCN24C1NK1AA GWHN24C1NK1AA GWCN28C1TK1AA | 1PH 220V — 240~ 50Hz R22 |
| GWCN28C1NK3AA GWHN28C1NK3AA | 1PH 230V 50Hz R410A |
| GWCN24C1ND1AA GWHN24C1ND1AA GWCN28C1TD1AA GWHN28C1TD1AA GWHN28C1ND1AA GWCN28C1ND1AA | 1PH 220V 60Hz R22 |



| Model | Remarks |
|-----------------------------|-------------------------|
| GWCN24C1ND1BA | 1PH 208 – 230V 60Hz R22 |
| GWHN24C1NK1BA GWCN24C1NK1BA | 1PH 220V–240~ 50Hz R22 |

2 Specifications and Technical Parameters

| | | | | |
|--|---|--------------------------------|------------------|-----------------|
| Model | GWCN24C1ND1BA | GWCN24C1NK1BA | GWCN28C1TK1AA | |
| Function | COOLING | COOLING | COOLING | |
| Rated Voltage | 208—230V | 220-240V~ | 220-240V~ | |
| Rated Frequency | 60Hz | 50HZ | 50Hz | |
| Total Capacity (W/Btu/h) | 6450/22000 | 6850 | 8000W/28000Btu/h | |
| Power Input (W) | 2000 | 2200 | 3200 | |
| Rated Input (W) | 2810 | 3030 | 4300 | |
| Rated Current (A) | 14.4 | 10.6 | 22.99 | |
| Air Flow Volume (m ³ /h) (H/ML) | 1150/1100/1050 | 1150 | 1200/1100/1000 | |
| Dehumidifying Volume (l/h) | 3 | 3 | 3 | |
| SEER / C.O.P (Btu/W) | 11/- | 3.1 | 2.5 | |
| Energy Class | / | / | / | |
| Indoor unit | Model of Indoor Unit | GWCN24C1ND1BA/I | GWCN24C1NK1BA/I | GWCN28C1TK1AA/I |
| | Fan Motor Speed (r/min) (H/ML) | 1400/1300/1200 | 1410/1310/1260 | 1410/1310/1260 |
| | Output of Fan Motor (w) | 40 | 35 | 45 |
| | Input of Heater (w) | / | / | / |
| | Fan Motor Capacitor (uF) | 3 | 3 | 3 |
| | Fan Motor RLA(A) | 0.18 | 0.19 | 0.4 |
| | Fan Type-Piece | Cross flow fan – 1 | | |
| | Diameter-Length (mm) | φ106 X 980 | φ106 X 890 | φ106 X 890 |
| | Evaporator | Aluminum fin-copper tube | | |
| | Pipe Diameter (mm) | Φ7 | Φ7 | Φ7 |
| | Row-Fin Gap(mm) | 2-1.4 | 2-1.4 | 2-1.4 |
| | Coil length (l) x height (H) x coil width (L) | 901.6X25.4X381 | 901.6X25.4X381 | 901.6X25.4X381 |
| | Swing Motor Model | MP24GA | MP24GA | MP24GA |
| | Output of Swing Motor (W) | 2 | 2 | 2 |
| | Fuse (A) | PCB 3.15A Transformer 0.4/0.1A | | |
| | Sound Pressure Level dB (A) (H/ML) | 49/47/45 | 50/47/45 | 50/48/46 |
| | Sound Power Level dB (A) (H/ML) | 59/57/55 | 60/57/55 | 60/58/56 |
| | Dimension (W/H/D) (mm) | 1178 X326X227 | 1178 X326X227 | 1178 X326X227 |
| | Dimension of Package (L/W/H) (mm) | 1265X417X328 | 1265X417X328 | 1265X417X333 |
| | Net Weight /Gross Weight (kg) | 17.5/24 | 17.5/24 | 17.5/24 |

| | | | | | |
|----------------------------------|--|------------------|--------------------------|-----------------------------|------------------------------|
| Outdoor unit | Model of Outdoor Unit | | GWCN24C1ND1BA/O | GWCN24C1NK1BA/O | GWCN28C1TK1AA/O |
| | Compressor Manufacturer/trademark | | Shanghai Hitachi | HIGHLY | TECUMSEH PRODUCTS INDIA PVT. |
| | Compressor Model | | SHY73MC4-U | SHV33YE6UU | AWR5538EXC |
| | Compressor Type | | ROTARY | ROTATORY | Hermetic motor compressor |
| | L.R.A (A) | | 56 | 60 | 92 |
| | Compressor RLA(A) | | 9.7 | 10.9 | 15.2 |
| | Compressor Power Input(W) | | 2085 | 2335 | 3200 |
| | Overload Protector | | PUT-IN | Internal Inherent Protector | |
| | Throttling Method | | Capillary | Capillary | Capillary |
| | Starting Method | | Capacitor | Capacitor | Capacitor |
| | Working Temp Range (°C) | | -7≤T≤46 | -5≤T≤43 | -5°C≤T≤52°C |
| | Condenser | | Aluminum fin-copper tube | | |
| | Pipe Diameter (mm) | | Φ9.52 | Φ9.52 | Φ9.52 |
| | Rows-Fin Gap(mm) | | 2-1.4 | 2-1.4 | 2-1.4 |
| | Coil length (l) x height (H) x coil width (L) | | 730.5X673X44 | 730.5X813X44 | 1017.5X813X44 |
| | Fan Motor Speed (rpm) | | 815 | 815 | 920 |
| | Output of Fan Motor (W) | | 60 | 60 | 92 |
| | Fan Motor RLA(A) | | 0.27 | 1 | 0.9 |
| | Fan Motor Capacitor (uF) | | 3.5 | 3.5 | 3.5 |
| | Air Flow Volume of Outdoor Unit | | / | / | / |
| | Fan Type-Piece | | Axial fan -1 | | |
| | Fan Diameter (mm) | | Φ460 | Φ460 | Φ482 |
| | Defrosting Method | | / | / | / |
| | Climate Type | | T1 | T1 | T3 |
| | Isolation | | I | I | I |
| | Moisture Protection | | IP24 | IP24 | IP24 |
| | Permissible Excessive Operating Pressure for the Discharge | | 2.4 | 2.4 | 2.5 |
| | Permissible Excessive Operating Pressure for the Suction Side(MPa) | | 0.6 | 0.6 | 0.6 |
| | Sound Pressure Level dB (A) (H/ML) | | 58 | 60 | 62 |
| | Sound Power Level dB (A) (H/ML) | | 68 | 70 | 72 |
| Dimension (W/H/D) (mm) | | 950X700X412 | 950X840X412 | 950X840X412 | |
| Dimension of Package (L/W/H)(mm) | | 1100X755X450 | 1100X880X450 | 1100X880X450 | |
| Net Weight /Gross Weight (kg) | | 65/77 | 72/77 | 90/105 | |
| Refrigerant Charge (kg) | | R22 1.9 | R22 / 2.2kg | R22/2.9 | |
| Connecti on Pipe | Length (m) | | / | / | / |
| | Gas additional charge(g/m) | | / | / | / |
| | Outer Diameter | Liquid Pipe (mm) | Φ9.52(3/8") | Φ9.52(3/8") | Φ9.52(3/8") |
| | | Gas Pipe (mm) | Φ16(5/8") | Φ16(5/8") | Φ16(5/8") |
| | Max Distance | Height (m) | 15 | 15 | 15 |
| Length (m) | | 30 | 30 | 30 | |

Fengyun Series

| Model | GWCN28C1NK3AA | | GWHN28C1NK3AA | | |
|--|---|--------------------------------|---------------|--------------------------------|--|
| Function | COOLING | HEATING | COOLING | HEATING | |
| Rated Voltage | 220-240V~ | | 230V~ | | |
| Rated Frequency | 50HZ | | 50HZ | | |
| Total Capacity (W/Btu/h) | 8000 | / | 8000 | 8800 | |
| Power Input (W) | 2800 | / | 2800 | 2800 | |
| Rated Input (W) | 4000 | / | 4000 | 3600 | |
| Rated Current (A) | 17.4 | / | 17.4 | 15.7 | |
| Air Flow Volume (m ³ /h) (H/ML) | 1200 | | 1200 | | |
| Dehumidifying Volume (l/h) | 3 | | 3 | | |
| SEER / C.O.P (Btu/W) | 2.85/3.15 | | 2.85/3.15 | | |
| Energy Class | 4 | | 4 | | |
| Indoor unit | Model of Indoor Unit | GWCN28C1NK3AA/I | | GWHN28C1NK3AA/I | |
| | Fan Motor Speed (r/min) (H/ML) | 1410/1310/1260 | | 1410/1310/1260 | |
| | Output of Fan Motor (w) | 35 | | 35 | |
| | Input of Heater (w) | - | | - | |
| | Fan Motor Capacitor (uF) | 3 | | 3 | |
| | Fan Motor RLA(A) | 0.19 | | 0.19 | |
| | Fan Type-Piece | Cross flow fan – 1 | | Cross flow fan – 1 | |
| | Diameter-Length (mm) | φ106 X 890 | | φ106 X 890 | |
| | Evaporator | Aluminum fin-copper tube | | Aluminum fin-copper tube | |
| | Pipe Diameter (mm) | Φ7 | | Φ7 | |
| | Row-Fin Gap(mm) | 2-1.4 | | 2-1.4 | |
| | Coil length (l) x height (H) x coil width (L) | 901.6X25.4X381 | | 901.6X25.4X381 | |
| | Swing Motor Model | MP24GA | | MP24GA | |
| | Output of Swing Motor (W) | 2 | | 2 | |
| | Fuse (A) | PCB 3.15A Transformer 0.4/0.1A | | PCB 3.15A Transformer 0.4/0.1A | |
| | Sound Pressure Level dB (A) (H/ML) | 49/48/47 | | 49/48/47 | |
| | Sound Power Level dB (A) (H/ML) | 59/57/56 | | 59/57/56 | |
| | Dimension (W/H/D) (mm) | 1178 X326X227 | | 1178 X326X227 | |
| | Dimension of Package (L/W/H) (mm) | 1265X417X328 | | 1265X417X328 | |
| | Net Weight /Gross Weight (kg) | 17.5/24 | | 17.5/24 | |

| | | | | |
|-------------------------------|--|------------------|-----------------------------|-----------------------------|
| Outdoor unit | Model of Outdoor Unit | | GWCN28C1NK3AA/O | GWHN28C1NK3AA/O |
| | Compressor | | DAIKIN | DAIKIN |
| | Compressor Model | | JT90G-P8V1N | JT90G-P8V1N |
| | Compressor Type | | Hermetic motor compressor | Hermetic motor compressor |
| | L.R.A. (A) | | 75.5 | 75.5 |
| | Compressor RLA(A) | | 13.2 | 13.2 |
| | Compressor Power Input(W) | | 2950 | 2950 |
| | Overload Protector | | Internal Inherent Protector | Internal Inherent Protector |
| | Throttling Method | | Capillary | Capillary |
| | Starting Method | | Capacitor | Capacitor |
| | Working Temp Range (°C) | | -5≤T≤43 | -5≤T≤43 |
| | Condenser | | Aluminum fin-copper tube | Aluminum fin-copper tube |
| | Pipe Diameter (mm) | | Φ9.52 | Φ9.52 |
| | Rows-Fin Gap(mm) | | 2-1.4 | 2-1.4 |
| | Coil length (l) x height (H) x coil width (L) | | 1017.5X813X44 | 1017.5X813X44 |
| | Fan Motor Speed (rpm) | | 920 | 920 |
| | Output of Fan Motor (W) | | 92 | 92 |
| | Fan Motor RLA(A) | | 0.9 | 0.9 |
| | Fan Motor Capacitor (uF) | | 3.5 | 3.5 |
| | Air Flow Volume of Outdoor | | / | / |
| | Fan Type-Piece | | Axial fan -1 | Axial fan -1 |
| | Fan Diameter (mm) | | Φ482 | Φ482 |
| | Defrosting Method | | Auto defrost | Auto defrost |
| | Climate Type | | T1 | T1 |
| | Isolation | | I | I |
| | Moisture Protection | | IP24 | IP24 |
| | Permissible Excessive Operating Pressure for the | | 2.5 | 2.5 |
| | Permissible Excessive | | 0.6 | 0.6 |
| | Sound Pressure Level dB (A) (H/ML) | | 60 | 60 |
| | Sound Power Level dB (A) (H/ML) | | 70 | 70 |
| | Dimension (W/H/D) (mm) | | 950X412X840 | 950X412X840 |
| Dimension of Package | | 1100X450X880 | 1100X450X880 | |
| Net Weight /Gross Weight (kg) | | 90/105 | 90/105 | |
| Refrigerant Charge (kg) | | R410A/2.6 | R410A/2.6 | |
| Connecti on Pipe | Length (m) | | 5 | 5 |
| | Gas additional charge(g/m) | | 30 | 30 |
| | Outer Diameter | Liquid Pipe (mm) | Φ9.52(3/8") | Φ9.52(3/8") |
| | | Gas Pipe (mm) | Φ16(5/8") | Φ16(5/8") |
| | Max Distance | Height (m) | 10 | 10 |
| Length (m) | | 15 | 15 | |

Fengyun Series

| Model | GWHN24C1NK1BA | GWCN24C1ND1AA | |
|--|---|--------------------------------|--------------------------------|
| Function | COOLING HEATING | COOLING | |
| Rated Voltage | 220-240V~ | | |
| Rated Frequency | 50HZ | | |
| Total Capacity (W/Btu/h) | 6800 7300 | 7000 | |
| Power Input (W) | 2200 2250 | 2450 | |
| Rated Input (W) | 2810 2920 | 3300 | |
| Rated Current (A) | 10.6 10.7 | 23.5 | |
| Air Flow Volume (m ³ /h) (H/ML) | 1200 | | |
| Dehumidifying Volume (l/h) | 3 | | |
| EER / C.O.P (W/W) | 2.95/3.2 | | |
| Energy Class | | | |
| Indoor unit | Model of Indoor Unit | GWHN24C1NK1BA/I | GWCN24C1ND1AA/I |
| | Fan Motor Speed (r/min) (H/ML) | 1410/1310/1260 | 1260/1170/1080 |
| | Output of Fan Motor (w) | 35 | 25 |
| | Input of Heater (w) | - | — |
| | Fan Motor Capacitor (uF) | 3.5 | 3.5 |
| | Fan Motor RLA(A) | 0.19 | 0.4 |
| | Fan Type-Piece | Cross flow fan – 1 | Cross flow fan – 1 |
| | Diameter-Length (mm) | φ 106 X 890 | φ106 X 890 |
| | Evaporator | Aluminum fin-copper tube | Aluminum fin-copper tube |
| | Pipe Diameter (mm) | φ7 | Φ7 |
| | Row-Fin Gap(mm) | 1.5 | 2-1.4 |
| | Coil length (l) x height (H) x coil width (L) | 901.6X25.4X381 | 901.6X25.4X381 |
| | Swing Motor Model | MP24GA | MP24GA |
| | Output of Swing Motor (W) | 2 | 2 |
| | Fuse (A) | PCB 3.15A Transformer 0.4/0.1A | PCB 3.15A Transformer 0.4/0.1A |
| | Sound Pressure Level dB (A) (H/ML) | 50/47/45 | 46/44/41 |
| | Sound Power Level dB (A) (H/ML) | 60/57/55 | 56/54/51 |
| | Dimension (L/W/H) (mm) | 1178 X326X227 | 1178 X326X227 |
| | Dimension of Package (L/W/H) (mm) | 1265X417X328 | 1265X417X333 |
| | Net Weight /Gross Weight (kg) | 17.5/24 | 17.5/24 |

| | | | | |
|-----------------------------------|--|-----------------------------|--------------|-----------------------------|
| Outdoor unit | Model of Outdoor Unit | GWHN24C1NK1BAO | | GWCN24C1ND1AAO |
| | Compressor Manufacturer/trademark | HIGHLY | | |
| | Compressor Model | SHV33YE6UU | | C-2R170H6S |
| | Compressor Type | ROTATORY | | Hermetic motor compressor |
| | L.R.A. (A) | 60 | | 66 |
| | Compressor RLA(A) | 10.9 | | 12.2 |
| | Compressor Power Input(W) | 2335 | | 1700 |
| | Overload Protector | Internal Inherent Protector | | Internal Inherent Protector |
| | Throttling Method | Capillary | | Capillary |
| | Starting Method | Capacitor | | Capacitor |
| | Working Temp Range (°C) | -5≤T≤43 | | -5≤T≤43 |
| | Condenser | Aluminum fin-copper tube | | Aluminum fin-copper tube |
| | Pipe Diameter (mm) | Φ9.52 | | Φ9.52 |
| | Rows-Fin Gap(mm) | 2-1.4 | | 2-1.4 |
| | Coil length (l) x height (H) x coil width (L) | 730.5X813X44 | | 730.5X813X44 |
| | Fan Motor Speed (rpm) | 815 | | 815 |
| | Output of Fan Motor (W) | 60 | | 60 |
| | Fan Motor RLA(A) | 1 | | 1 |
| | Fan Motor Capacitor (uF) | 3.5 | | 3.5 |
| | Air Flow Volume of Outdoor Unit | - | | ---- |
| | Fan Type-Piece | Axial fan –1 | | Axial fan –1 |
| | Fan Diameter (mm) | Φ460 | | Φ460 |
| | Defrosting Method | Auto defrost | | Auto defrost |
| | Climate Type | T1 | | T1 |
| | Isolation | I | | I |
| | Moisture Protection | IP24 | | IP24 |
| | Permissible Excessive Operating Pressure for the Discharge Side(MPa) | 2.4 | | 2.5 |
| | Permissible Excessive Operating | 0.6 | | 0.6 |
| | Sound Pressure Level dB (A) (H/ML) | 60 | | 58 |
| | Sound Power Level dB (A) (H/ML) | 70 | | 68 |
| Dimension (L/W/H) (mm) | 1006X420X847 | | 1006X340X847 | |
| Dimension of Package (L/W/H)(mm) | 1100X450X905 | | 1100X450X905 | |
| Net Weight /Gross Weight (kg) | 72/77 | | 72/77 | |
| Refrigerant Charge (kg) | R22 /2.4 | | R22 / 2.5kg | |
| Connecti on Pipe | Length (m) | / | | / |
| | Gas additional charge(g/m) | / | | 7.5 |
| | Outer Diameter | Liquid Pipe | Φ9.52(3/8") | |
| | | Gas Pipe (mm) | Φ16(5/8") | |
| | Max Distance | Height (m) | 15 | |
| Length (m) | | 30 | | |

Fengyun Series

| Model | GWCN28C1TD1AA | GWHN28C1TD1AA | |
|---|--|--------------------------------------|-----------------------------------|
| Function | COOLING | COOLING HEATING | |
| Rated Voltage | 220V~ | 220V~ | |
| Rated Frequency | 60Hz | 60Hz | |
| Total Capacity (W/Btu/h) | 8000W/28000Btu/h | 8000W/28000Btu/h 8800W/30000Btu/h | |
| Power Input (W) | 3400 | 3400 3300 | |
| Rated Input (W) | 4050 | 4050 4050/3800 | |
| Rated Current (A) | 21.66 | 21.66 21.66/20.32 | |
| Air Flow Volume (m ³ /h) (H/M/L)** | 1200/1100/1000 | 1200/1100/1000 | |
| Dehumidifying Volume (l/h) | 3 | 3 | |
| EER / C.O.P (W/W) | 2.35 | 2.35/2.67 | |
| Energy Class | / | / | |
| Indoor unit | Model of Indoor Unit | GWCN28C1TD1AA/I | GWHN28C1TD1AA/I |
| | Fan Motor Speed (r/min) (H/M/L) | 1400/1300/1200 | 1400/1300/1200 |
| | Output of Fan Motor (w) | 35 | 35 |
| | Input of Heater (w) | / | / |
| | Fan Motor Capacitor (uF) | 3 | 3 |
| | Fan Motor RLA(A) | 0.4 | 0.4 |
| | Fan Type-Piece | Cross flow fan – 1 | Cross flow fan – 1 |
| | Diameter-Length (mm) | φ106 X 890 | φ106 X 890 |
| | Evaporator | Aluminum fin-copper tube | Aluminum fin-copper tube |
| | Pipe Diameter (mm) | Φ7 | Φ7 |
| | Row-Fin Gap(mm) | 2-1.4 | 2-1.4 |
| | Coil length (l) x height (H) x coil width (L) | 901.6X25.4X381 | 901.6X25.4X381 |
| | Swing Motor Model | MP24GA | MP24GA |
| | Output of Swing Motor (W) | 2 | 2 |
| | Fuse (A) | PCB 3.15A Transformer 0.4/0.1A | PCB 3.15A Transformer 0.4/0.1A |
| | Sound Pressure Level dB (A) (H/M/L) | 50/48/46 | 50/48/46 |
| | Sound Power Level dB (A) (H/M/L)*** | 60/58/56 | 60/58/56 |
| | Dimension (L/W/H) (mm) | 1178 X326X227 | 1178 X326X227 |
| | Dimension of Package (L/W/H) (mm) | 1265X417X333 | 1265X417X333 |
| | Net Weight /Gross Weight (kg) | 17.5/24 | 17.5/24 |

| | | | | |
|-----------------------------------|--|--|-----------------------------|--|
| Outdoor Unit | Model of Outdoor Unit | GWCN28C1TD1AA/O | GWHN28C1TD1AA/O | |
| | Compressor Manufacturer/trademark | TECUMSEH PRODUCTS INDIA | TECUMSEH PRODUCTS INDIA | |
| | Compressor Model | AWZ5532EXN | AWZ5532EXN | |
| | Compressor Type | Hermetic motor compressor | Hermetic motor compressor | |
| | L.R.A (A) | 90 | 90 | |
| | Compressor RLA(A) | 14.5 | 14.5 | |
| | Compressor Power Input(W) | 3200 | 3200 | |
| | Overload Protector | Internal Inherent Protector | Internal Inherent Protector | |
| | Throttling Method | Capillary | Capillary | |
| | Starting Method | Capacitor | Capacitor | |
| | Working Temp Range (°C) | -5°C ≤ T ≤ 52°C | -5°C ≤ T ≤ 52°C | |
| | Condenser | Aluminum fin-copper tube | Aluminum fin-copper tube | |
| | Pipe Diameter (mm) | Φ9.52 | Φ9.52 | |
| | Rows-Fin Gap(mm) | 2-1.4 | 2-1.4 | |
| | Coil length (l) x height (H) x coil width (L) | 1017.5X813X44 | 1017.5X813X44 | |
| | Fan Motor Speed (rpm) | 940 | 940 | |
| | Output of Fan Motor (W) | 92 | 92 | |
| | Fan Motor RLA(A) | 0.9 | 0.9 | |
| | Fan Motor Capacitor (uF) | 4 | 4 | |
| | Air Flow Volume of Outdoor Unit | / | / | |
| | Fan Type-Piece | Axial fan –1 | Axial fan –1 | |
| | Fan Diameter (mm) | Φ460 | Φ460 | |
| | Defrosting Method | Auto defrost | Auto defrost | |
| | Climate Type | T3 | T3 | |
| | Isolation | I | I | |
| | Moisture Protection | IP24 | IP24 | |
| | Permissible Excessive Operating Pressure for the Discharge Side(MPa) | 2.5 | 2.5 | |
| | Permissible Excessive Operating Pressure for the Suction Side(MPa) | 0.6 | 0.6 | |
| | Sound Pressure Level dB (A) (H/ML) | 62 | 62 | |
| | Sound Power Level dB (A) (H/ML) | 72 | 72 | |
| Dimension (L/W/H) (mm) | 950X412X840 | 950X412X840 | | |
| Dimension of Package (L/W/H)(mm) | 1100X450X995 | 1100X450X995 | | |
| Net Weight /Gross Weight (kg) | 90/105 | 90/105 | | |
| Refrigerant Charge (kg) | R22/2.8 | R22/2.8 | | |
| Connection Pipe | Length (m) | 5 | | |
| | Gas additional charge(g/m) | 30 | | |
| | Outer Diameter | Liquid Pipe (mm) | Φ9.52(3/8") | |
| | | Gas Pipe (mm) | Φ16(5/8") | |
| | Max Distance | Height (m) | 10 | |
| Length (m) | | 15 | | |
| Loading Quantity | 20' Container | Interior Dimensions L*W*H: 5898*2352*2393, Door Opening W*H: 2343*2280 | 43 SET | |
| | 40' Container | Interior Dimensions L*W*H: 12032*2350*2390, Door Opening W*H: 2343*2280 | 90 SET | |
| | 40' High Cube Container | Interior Dimensions L*W*H: 12032*2350*2697, Door Opening W*H: 2338*2585 | 104 SET | |

Fengyun Series

| Model | GWHN24C1NK3AB | | GWHN28C1ND1AA | | |
|--|---|--------------------------------|---------------|--------------------------------|--|
| Function | COOLING | HEATING | COOLING | HEATING | |
| Rated Voltage | 220-240V~ | | 220V~ | | |
| Rated Frequency | 50HZ | | 60HZ | | |
| Total Capacity (W/Btu/h) | 7000 | 8000 | 8800 | 9500 | |
| Power Input (W) | 2600 | 2600 | 3380 | 3350 | |
| Rated Input (W) | 3650 | 3500 | 4600 | 4550 | |
| Rated Current (A) | 13.8 | 13.2 | 21 | 21 | |
| Air Flow Volume (m ³ /h) (H/ML)** | 1200 | | 1200 | | |
| Dehumidifying Volume (l/h) | 3 | | 3 | | |
| EER / C.O.P (W/W) | 2.69/3.08 | | 2.6/2.84 | | |
| Energy Class | 4 | | / | | |
| Indoor unit | Model of Indoor Unit | GWHN24C1NK3AAI | | GWHN28C1ND1AAI | |
| | Fan Motor Speed (r/min) (H/ML) | 1410/1310/1260 | | 1410/1310/1260 | |
| | Output of Fan Motor (w) | 35 | | 35 | |
| | Input of Heater (w) | - | | — | |
| | Fan Motor Capacitor (uF) | 3 | | 3.5 | |
| | Fan Motor RLA(A) | 0.19 | | 0.4 | |
| | Fan Type-Piece | Cross flow fan – 1 | | Cross flow fan – 1 | |
| | Diameter-Length (mm) | φ106 X 890 | | φ106 X 890 | |
| | Evaporator | Aluminum fin-copper tube | | Aluminum fin-copper tube | |
| | Pipe Diameter (mm) | Φ7 | | Φ7 | |
| | Row-Fin Gap(mm) | 2-1.4 | | 2-1.4 | |
| | Coil length (l) x height (H) x coil width (L) | 901.6X25.4X381 | | 901.6X25.4X381 | |
| | Swing Motor Model | MP24GA | | MP24GA | |
| | Output of Swing Motor (W) | 2 | | 2 | |
| | Fuse (A) | PCB 3.15A Transformer 0.4/0.1A | | PCB 3.15A Transformer 0.4/0.1A | |
| | Sound Pressure Level dB (A) (H/ML) | 49/48/47 | | 49/47/44 | |
| | Sound Power Level dB (A) (H/ML)*** | 59/58/57 | | 59/57/54 | |
| | Dimension (L/W/H) (mm) | 1178 X326X227 | | 1178 X326X227 | |
| Dimension of Package (L/W/H) (mm) | 1265X417X328 | | 1265X417X333 | | |
| Net Weight /Gross Weight (kg) | 17.5/24 | | 17.5/24 | | |

| | | | | | |
|-----------------------------------|--|-----------------------------|--------------|-----------------------------|--|
| Outdoor Unit | Model of Outdoor Unit | GWHN24C1NK3AB/O | | GWHN28C1ND1AA/O | |
| | Compressor Manufacturer/trademark | SANYO | | / | |
| | Compressor Model | C-3RV322H1AAF | | SQ034KBA | |
| | Compressor Type | Hermetic motor compressor | | Hermetic motor compressor | |
| | L.R.A. (A) | 74 | | 76 | |
| | Compressor RLA(A) | 13.2 | | 14 | |
| | Compressor Power Input(W) | 2686 | | 3170 | |
| | Overload Protector | Internal Inherent Protector | | Internal Inherent Protector | |
| | Throttling Method | Capillary | | Capillary | |
| | Starting Method | Capacitor | | Capacitor | |
| | Working Temp Range (°C) | -5≤T≤43 | | -5≤T≤43 | |
| | Condenser | Aluminum fin-copper tube | | Aluminum fin-copper tube | |
| | Pipe Diameter (mm) | Φ9.52 | | Φ9.52 | |
| | Rows-Fin Gap(mm) | 2-1.4 | | 2-1.4 | |
| | Coil length (l) x height (H) x coil width (L) | 730.5X813X44 | | 1017.5X813X44 | |
| | Fan Motor Speed (rpm) | 815 | | 920 | |
| | Output of Fan Motor (W) | 60 | | 92 | |
| | Fan Motor RLA(A) | 1 | | 2.26 | |
| | Fan Motor Capacitor (uF) | 3.5 | | 1.5 | |
| | Air Flow Volume of Outdoor Unit | - | | ---- | |
| | Fan Type-Piece | Axial fan -1 | | Axial fan -1 | |
| | Fan Diameter (mm) | Φ460 | | Φ482 | |
| | Defrosting Method | Auto defrost | | Auto defrost | |
| | Climate Type | T1 | | T1 | |
| | Isolation | I | | I | |
| | Moisture Protection | IP24 | | IP24 | |
| | Permissible Excessive Operating Pressure for the Discharge Side(MPa) | 3.8 | | 3.8 | |
| | Permissible Excessive Operating Pressure for the Suction Side(MPa) | 1.2 | | 1.2 | |
| | Sound Pressure Level dB (A) (H/ML) | 58 | | 60 | |
| | Sound Power Level dB (A) (H/ML) | 68 | | 70 | |
| Dimension (L/W/H) (mm) | 1006X412X840 | | 950x412x840 | | |
| Dimension of Package (L/W/H)(mm) | 1100X450X905 | | 1100X450X995 | | |
| Net Weight /Gross Weight (kg) | 72/77 | | 90/100 | | |
| Refrigerant Charge (kg) | R410a / 2.45kg | | R22X3.0kg | | |
| Connection Pipe | Length (m) | | 5 | 7.5 | |
| | Gas additional charge(g/m) | | 40 | / | |
| | Outer Diameter | Liquid Pipe (mm) | Φ9.52(3/8") | Φ9.52(3/8") | |
| | | Gas Pipe (mm) | Φ16(5/8") | Φ16(5/8") | |
| | Max Distance | Height (m) | 15 | 10 | |
| Length (m) | | 30 | 20 | | |

Fengyun Series

| Model | | GWHN24C1ND1AA | | GWCN24C1NK1AA | |
|----------------------|---|--------------------------------|---------|--------------------------------|---------|
| Function | | COOLING | HEATING | COOLING | HEATING |
| Rated Voltage | | 220V~ | | 220V~ | |
| Rated Frequency | | 60HZ | | 60HZ | |
| Total Capacity | (W) | 7000 | 7600 | 7100 | / |
| Power Input | (W) | 2450 | 2400 | 2700 | / |
| Rated Input | (W) | 3500 | 2750 | 4000 | / |
| Rated Current | (A) | 20 | 15 | 23.5 | / |
| Air Flow Volume | (m ³ /h) | 1100 | | 1100 | |
| Dehumidifying Volume | (L/h) | 3 | | 3 | |
| C.O.P / EER | (W/W) | 2.86/3.17 | | 2.63 | |
| Indoor unit | Model of Indoor Unit | GWHN24C1ND1AA/I | | GWCN24C1NK1AA/I | |
| | Fan Motor Speed (r/min) (H/M/L) | 1260/1170/1080 | | 1260/1170/1080 | |
| | Output of Fan Motor (w) | 26 | | 26 | |
| | Input of Heater (w) | — | | — | |
| | Fan Motor Capacitor (uF) | 3.5 | | 3 | |
| | Fan Motor RLA(A) | 0.4 | | 0.4 | |
| | Fan Type-Piece | Cross flow fan – 1 | | Cross flow fan – 1 | |
| | Diameter-Length (mm) | φ106 X 890 | | φ106 X 890 | |
| | Evaporator | Aluminum fin-copper tube | | Aluminum fin-copper tube | |
| | Pipe Diameter (mm) | φ7 | | φ7 | |
| | Row-Fin Gap(mm) | 2-1.4 | | 2-1.4 | |
| | Coil length (l) x height (H) x coil width (L) | 901.6X25.4X381 | | 901.6X25.4X381 | |
| | Swing Motor Model | MP24GA | | MP24GA | |
| | Output of Swing Motor (W) | 2 | | 2 | |
| | Fuse (A) | PCB 3.15A Transformer 0.4/0.1A | | PCB 3.15A Transformer 0.4/0.1A | |
| | Sound Pressure Level dB (A) (H/M/L) | 46/44/41 | | 46/44/41 | |
| | Sound Power Level dB (A) (H/M/L)*** | 56/54/51 | | 56/54/51 | |
| | Dimension (W/D/H)(mm) | 1178 X326X227 | | 1178 X326X227 | |
| | Dimension of Package (W/D/H)(mm) | 1265X417X333 | | 1265X417X333 | |
| | Net Weight /Gross Weight (kg) | 17.5/24 | | 17.5/24 | |

| | | | | |
|------------------------------------|--|------------------|-----------------------------|-----------------------------|
| Outdoor unit | Model of Outdoor Unit | | GWHN24C1ND1AAO | GWCN24C1NK1AA/O |
| | Compressor Model | | C-2R170H6S | LH48VBAC |
| | Compressor Type | | Hermetic motor compressor | Hermetic motor compressor |
| | L.R.A. (A) | | 66 | 63 |
| | Compressor RLA(A) | | 12.2 | 12.3 |
| | Compressor Power Input(W) | | 1700 | 2660 |
| | Overload Protector | | Internal Inherent Protector | Internal Inherent Protector |
| | Throttling Method | | Capillary | Capillary |
| | Starting Method | | Capacitor | Capacitor |
| | Working Temp Range (°C) | | -7≤T≤46.1 | -5≤T≤46.1 |
| | Condenser | | Aluminum fin-copper tube | Aluminum fin-copper tube |
| | Pipe Diameter (mm) | | Φ9.52 | Φ9.52 |
| | Rows-Fin Gap(mm) | | 2-1.4 | 2-1.4 |
| | Coil length (l) x height (H) x coil width (L) | | 730.5X813X44 | 730.5X813X44 |
| | Fan Motor Speed (rpm) (H/ML)** | | 815 | 815 |
| | Output of Fan Motor (W) | | 60 | 60 |
| | Fan Motor RLA(A) | | 1 | 1 |
| | Fan Motor Capacitor (uF) | | 3.5 | 3.5 |
| | Air Flow Volume of Outdoor Unit | | ---- | ---- |
| | Fan Type-Piece | | Axial fan -1 | Axial fan -1 |
| | Fan Diameter (mm) | | Φ460 | Φ460 |
| | Defrosting Method | | Auto defrost | Auto defrost |
| | Climate Type | | T1 | T1 |
| | Isolation | | I | I |
| | Moisture Protection | | IP24 | IP24 |
| | Permissible Excessive Operating Pressure for the Discharge Side(MPa) | | 2.5 | 2.5 |
| | Permissible Excessive Operating Pressure for the Suction Side(MPa) | | 0.6 | 0.6 |
| Sound Pressure Level dB (A) (H/ML) | | 58 | 58 | |
| Sound Power Level dB (A) (H/ML) | | 68 | 68 | |
| Dimension (W/D/H)(mm) | | 1006X412X847 | 1006X412X847 | |
| Dimension of Package (W/D/H)(mm) | | 1100X450X905 | 1100X450X905 | |
| Net Weight /Gross Weight (kg) | | 72/77 | 72/77 | |
| Refrigerant Charge (kg) | | R22 / 2.4kg | R22 / 2.55kg | |
| Connection Pipe | Length (m) | | 7.5 | 5 |
| | Outer Diameter | Liquid Pipe (mm) | Φ9.52(3/8") | Φ9.52(3/8") |
| | | Gas Pipe (mm) | Φ16(5/8") | Φ16(5/8") |
| | Max Distance | Height (m) | 15 | 15 |
| Length (m) | | 30 | 30 | |

Fengyun Series

| Model | GWCN28C1ND1AA | | GWHN24C1NK3AA | | |
|--|---|--------------------------------|---------------|--------------------------------|--|
| Function | COOLING | HEATING | COOLING | HEATING | |
| Rated Voltage | 220V~ | | 220-240V~ | | |
| Rated Frequency | 60HZ | | 50HZ | | |
| Total Capacity (W) | 8800(30000btu) | | 7000 | 8000 | |
| Power Input (W) (High/Normal) | 3380 | | 2600 | 2400 | |
| Rated Input (W) (High/Normal) | 4600 | | 3400 | 3100 | |
| Rated Current (A) (High/Normal) | 21 | | 14.8 | 13.5 | |
| Air Flow Volume (m ³ /h) (H/ML) | 1200 | | 1200 | | |
| Dehumidifying Volume (l/h) | 3 | | 3 | | |
| C.O.P / EER (W/W) (High/Normal*) | 2.6 | | 2.69/3.33 | | |
| Indoor unit | Model of Indoor Unit | GWCN28C1ND1AA/I | | GWHN24C1NK3AA/I | |
| | Fan Motor Speed (r/min) (H/ML) | 1400/1300/1200 | | 1410/1310/1260 | |
| | Output of Fan Motor (w) | 35 | | 35 | |
| | Input of Heater (w) | — | | - | |
| | Fan Motor Capacitor (uF) | 3.5 | | 3 | |
| | Fan Motor RLA(A) | 0.4 | | 0.19 | |
| | Fan Type-Piece | Cross flow fan – 1 | | Cross flow fan – 1 | |
| | Diameter-Length (mm) | φ106 X 890 | | φ106 X 890 | |
| | Evaporator | Aluminum fin-copper tube | | Aluminum fin-copper tube | |
| | Pipe Diameter (mm) | Φ7 | | Φ7 | |
| | Row-Fin Gap(mm) | 2-1.3 | | 2-1.4 | |
| | Coil length (l) x height (H) x coil width (L) | 901x25.4x381 | | 901.6X25.4X381 | |
| | Swing Motor Model | MP24GA | | MP24GA | |
| | Output of Swing Motor (W) | 2 | | 2 | |
| | Fuse (A) | PCB 3.15A Transformer 0.4/0.1A | | PCB 3.15A Transformer 0.4/0.1A | |
| | Sound Pressure Level dB (A) (H/ML) | 45 | | 49/48/47 | |
| | Sound Power Level dB (A) (H/ML) | 55 | | 59/57/56 | |
| | Dimension (W/D/H)(mm) | 1178 X326X227 | | 1178 X326X227 | |
| | Dimension of Package (W/D/H)(mm) | 1265X417X333 | | 1265X417X328 | |
| | Net Weight /Gross Weight (kg) | 17.5/24 | | 17.5/24 | |

| | | | | |
|-----------------------------------|--|------------------|-----------------------------|-----------------------------|
| Outdoor unit | Model of Outdoor Unit | | GWCN28C1ND1AAO | GWHN24C1NK3AAO |
| | Compressor Model | | SQ034KBA | C-3RV322H1AAF |
| | Compressor Type | | Hermetic motor compressor | Hermetic motor compressor |
| | L.R.A. (A) | | 76 | 74 |
| | Compressor RLA(A) | | 14 | 13.2 |
| | Compressor Power Input(W) | | 3170 | 2686 |
| | Overload Protector | | Internal Inherent Protector | Internal Inherent Protector |
| | Throttling Method | | Capillary | Capillary |
| | Starting Method | | Capacitor | Capacitor |
| | Working Temp Range (°C) | | 18≤T≤46 | -5≤T≤43 |
| | Condenser | | Aluminum fin-copper tube | Aluminum fin-copper tube |
| | Pipe Diameter (mm) | | Φ9.52 | Φ9.52 |
| | Rows-Fin Gap(mm) | | 2-1.4 | 2-1.4 |
| | Coil length (l) x height (H) x coil width (L) | | 1017.5X813X44 | 730.5X813X44 |
| | Fan Motor Speed (rpm) (H/M/L) | | 920 | 815 |
| | Output of Fan Motor (W) | | 92 | 60 |
| | Fan Motor RLA(A) | | 2.26 | 1 |
| | Fan Motor Capacitor (uF) | | 1.5 | 3.5 |
| | Air Flow Volume of Outdoor Unit | | ---- | - |
| | Fan Type-Piece | | Axial fan -1 | Axial fan -1 |
| | Fan Diameter (mm) | | Φ482 | Φ460 |
| | Defrosting Method | | Auto defrost | Auto defrost |
| | Climate Type | | T1 | T1 |
| | Isolation | | I | I |
| | Moisture Protection | | IP24 | IP24 |
| | Permissible Excessive Operating Pressure for the Discharge Side(MPa) | | 2.5 | 3.8 |
| | Permissible Excessive Operating Pressure for the Suction Side(MPa) | | 0.6 | 1.2 |
| | Sound Pressure Level dB (A) (H/M/L) | | 60 | 58 |
| | Sound Power Level dB (A) (H/M/L) | | 70 | 68 |
| | Dimension (W/D/H)(mm) | | 950x412x840 | 1006X412X840 |
| Dimension of Package (W/D/H)(mm) | | 1100X450X995 | 1100X450X905 | |
| Net Weight /Gross Weight (kg) | | 90/100 | 72/77 | |
| Refrigerant Charge (kg) | | R22X3.0kg | R410a / 2.45kg | |
| Connec tion Pipe | Length (m) | | 7.5 | 5 |
| | Outer Diameter | Liquid Pipe (mm) | Φ9.52(3/8") | Φ9.52(3/8") |
| | | Gas Pipe (mm) | Φ16(5/8") | Φ16(5/8") |
| | Max Distance | Height (m) | 10 | 15 |
| | | Length (m) | 20 | 30 |

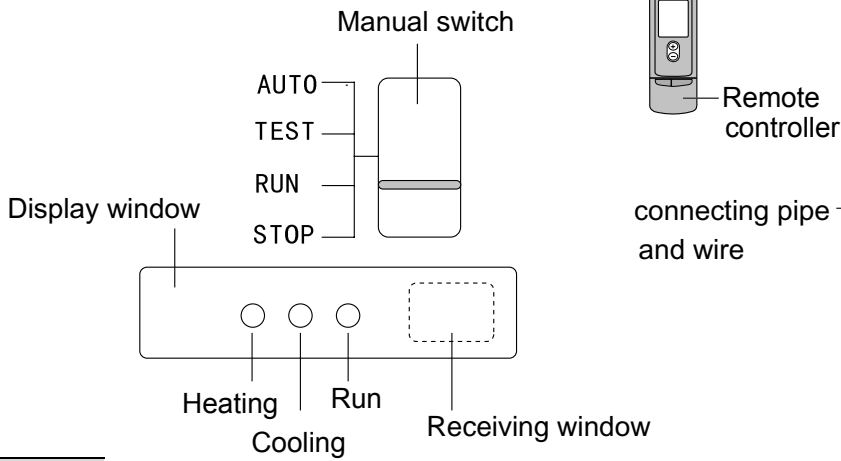
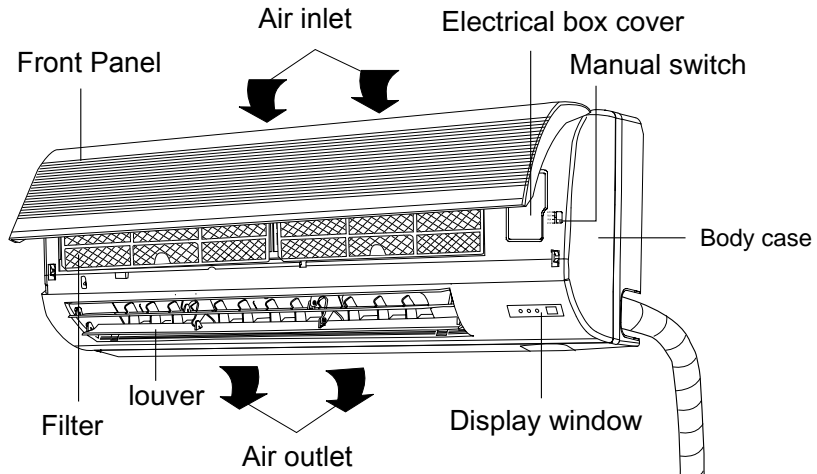
Fengyun Series

| Model | GWCN24C1NK3AA | | GWHN24C1NK1AA | | |
|---|---|--------------------------------|---------------|--------------------------------|--|
| Function | COOLING | HEATING | COOLING | HEATING | |
| Rated Voltage | 220-240V~ | | 220-230V~ | | |
| Rated Frequency | 50HZ | | 50HZ | | |
| Total Capacity (W) | 7000 | - | 7100 | 8000 | |
| Power Input (W) (High/Normal) | 2600 | - | 2700 | 2700 | |
| Rated Input (W) (High/Normal) | 3400 | - | 4000 | 3000 | |
| Rated Current (A) (High/Normal) | 14.8 | - | 23.5 | 16 | |
| Air Flow Volume (m ³ /h) (H/M/L) | 1200 | | 1100 | | |
| Dehumidifying Volume (l/h) | 3 | | 3 | | |
| C.O.P / EER (W/W) (High/Normal*) | 2.69/3.33 | | 2.63/2.96 | | |
| Indoor unit | Model of Indoor Unit | GWCN24C1NK3AA/I | | GWHN24C1NK1AA/I | |
| | Fan Motor Speed (r/min) (H/M/L) | 1410/1310/1260 | | 1260/1170/1080 | |
| | Output of Fan Motor (w) | 35 | | 26 | |
| | Input of Heater (w) | - | | — | |
| | Fan Motor Capacitor (uF) | 3 | | 3 | |
| | Fan Motor RLA(A) | 0.19 | | 0.4 | |
| | Fan Type-Piece | Cross flow fan – 1 | | Cross flow fan – 1 | |
| | Diameter-Length (mm) | φ 106 X 890 | | φ 106 X 890 | |
| | Evaporator | Aluminum fin-copper tube | | Aluminum fin-copper tube | |
| | Pipe Diameter (mm) | φ7 | | φ7 | |
| | Row-Fin Gap(mm) | 2-1.4 | | 2-1.4 | |
| | Coil length (l) x height (H) x coil width (L) | 901.6X25.4X381 | | 901.6X25.4X381 | |
| | Swing Motor Model | MP24GA | | MP24GA | |
| | Output of Swing Motor (W) | 2 | | 2 | |
| | Fuse (A) | PCB 3.15A Transformer 0.4/0.1A | | PCB 3.15A Transformer 0.4/0.1A | |
| | Sound Pressure Level dB (A) (H/M/L) | 49/48/47 | | 46/44/41 | |
| | Sound Power Level dB (A) (H/M/L) | 59/57/56 | | 56/54/51 | |
| | Dimension (W/D/H)(mm) | 1178 X326X227 | | 1178 X326X227 | |
| | Dimension of Package (W/D/H)(mm) | 1265X417X333-328② | | 1265X417X333 | |
| | Net Weight /Gross Weight (kg) | 17.5/24 | | 17.5/24 | |

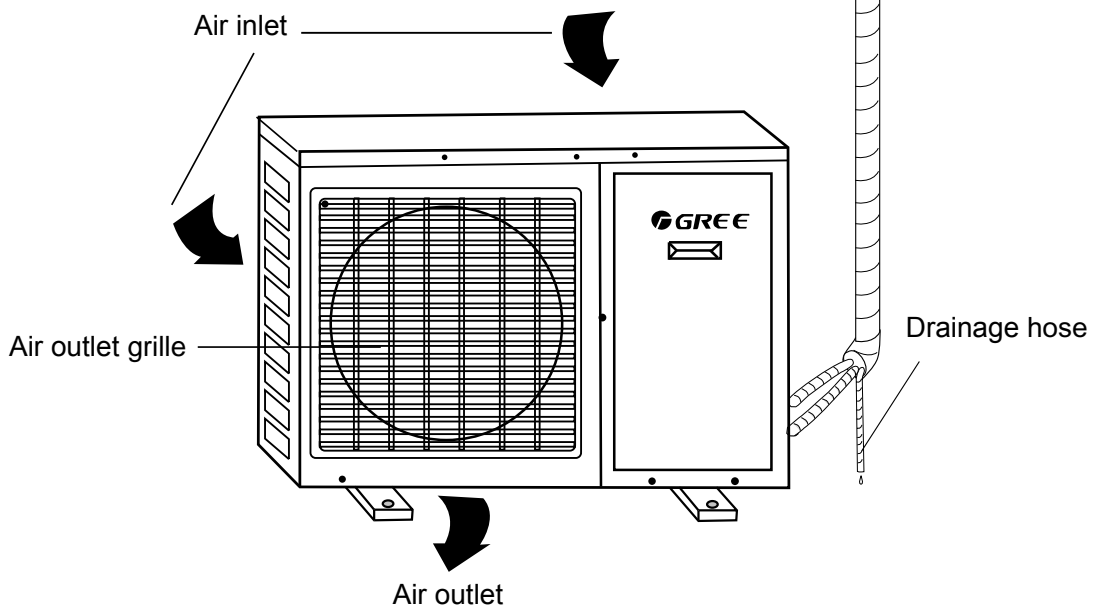
| | | | | |
|---|--|------------------|-----------------------------|-----------------------------|
| Outdoor unit | Model of Outdoor Unit | | GWCN24C1NK3AAO | GWHN24C1NK1AAO |
| | Compressor Model | | C-3RV322H1AAF | LH48VBAC |
| | Compressor Type | | Hermetic motor compressor | Hermetic motor compressor |
| | L.R.A. (A) | | 74 | 63 |
| | Compressor RLA(A) | | 13.2 | 12.3 |
| | Compressor Power Input(W) | | 2686 | 2660 |
| | Overload Protector | | Internal Inherent Protector | Internal Inherent Protector |
| | Throttling Method | | Capillary | Capillary |
| | Starting Method | | Capacitor | Capacitor |
| | Working Temp Range (°C) | | -5≤T≤43 | -5≤T≤43 |
| | Condenser | | Aluminum fin-copper tube | Aluminum fin-copper tube |
| | Pipe Diameter (mm) | | φ9.52 | φ9.52 |
| | Rows-Fin Gap(mm) | | 2-1.4 | 2-1.4 |
| | Coil length (l) x height (H) x coil width (L) | | 730.5X813X44 | 730.5X813X44 |
| | Fan Motor Speed (rpm) (H/M/L) | | 815 | 815 |
| | Output of Fan Motor (W) | | 60 | 60 |
| | Fan Motor RLA(A) | | 1 | 1 |
| | Fan Motor Capacitor (uF) | | 3.5 | 3.5 |
| | Air Flow Volume of Outdoor Unit | | - | ---- |
| | Fan Type-Piece | | Axial fan -1 | Axial fan -1 |
| | Fan Diameter (mm) | | φ460 | φ460 |
| | Defrosting Method | | Auto defrost | Auto defrost |
| | Climate Type | | T1 | T1 |
| | Isolation | | I | I |
| | Moisture Protection | | IP24 | IP24 |
| | Permissible Excessive Operating Pressure for the Discharge Side(MPa) | | 3.8 | 2.5 |
| | Permissible Excessive Operating Pressure for the Suction Side(MPa) | | 1.2 | 0.6 |
| | Sound Pressure Level dB (A) (H/M/L) | | 58 | 58 |
| | Sound Power Level dB (A) (H/M/L) | | 68 | 68 |
| | Dimension (W/D/H)(mm) | | 1006X420X847 1006x412X840② | 1006X340X847 |
| Dimension of Package (W/D/H)(mm) | | 1100X450X905 | 1100X450X905 | |
| Net Weight/Gross Weight (kg) | | 72/77 | 72/77 | |
| Refrigerant Charge (kg) | | R410a / 2.45kg | R22 / 2.55kg | |
| Connec tion Pipe | Length (m) | | 5 | 5 |
| | Outer Diameter | Liquid Pipe (mm) | φ9.52(3/8") | φ9.52(3/8") |
| | | Gas Pipe (mm) | φ16(5/8") | φ16(5/8") |
| | Max Distance | Height (m) | 15 | 15 |
| | | Length (m) | 30 | 30 |
| The above data are subject to change without notice. Please refer to the nameplate of the unit. | | | | |

3 Component Name

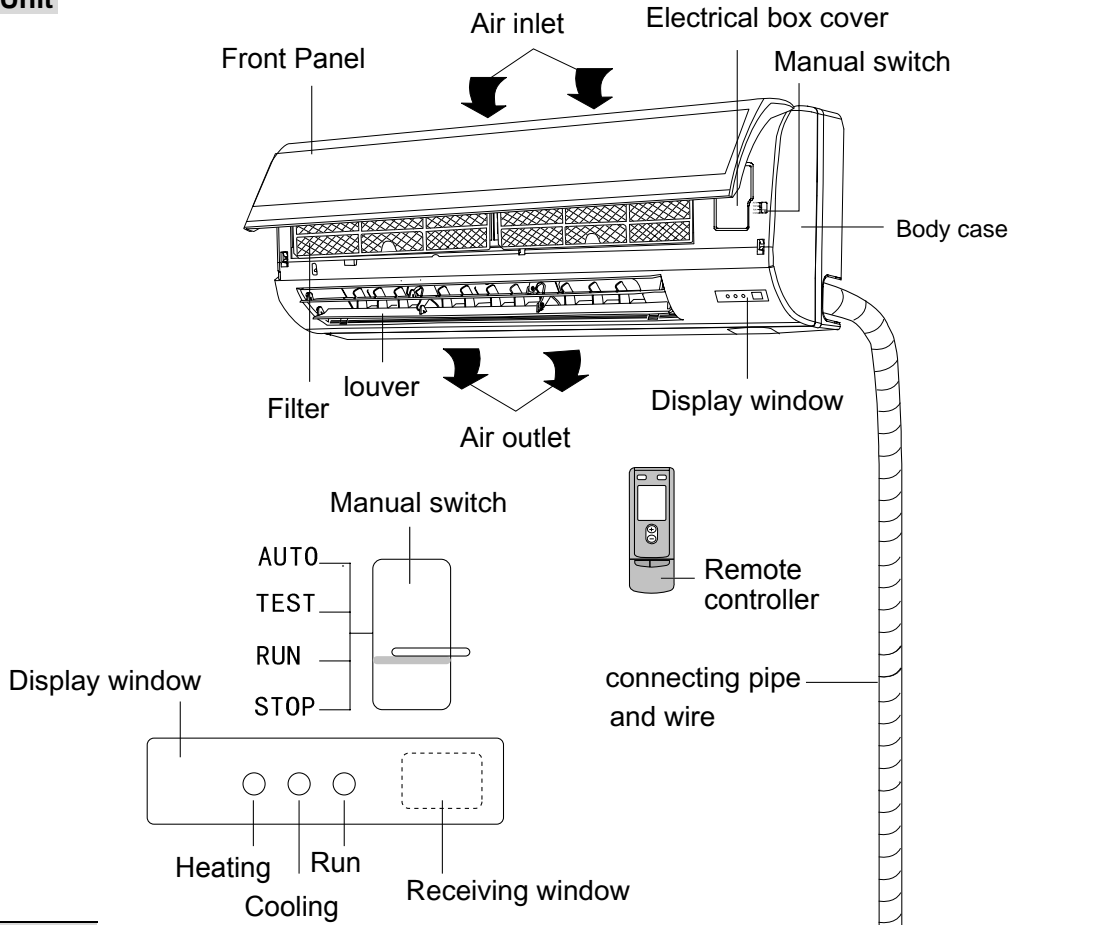
Indoor Unit



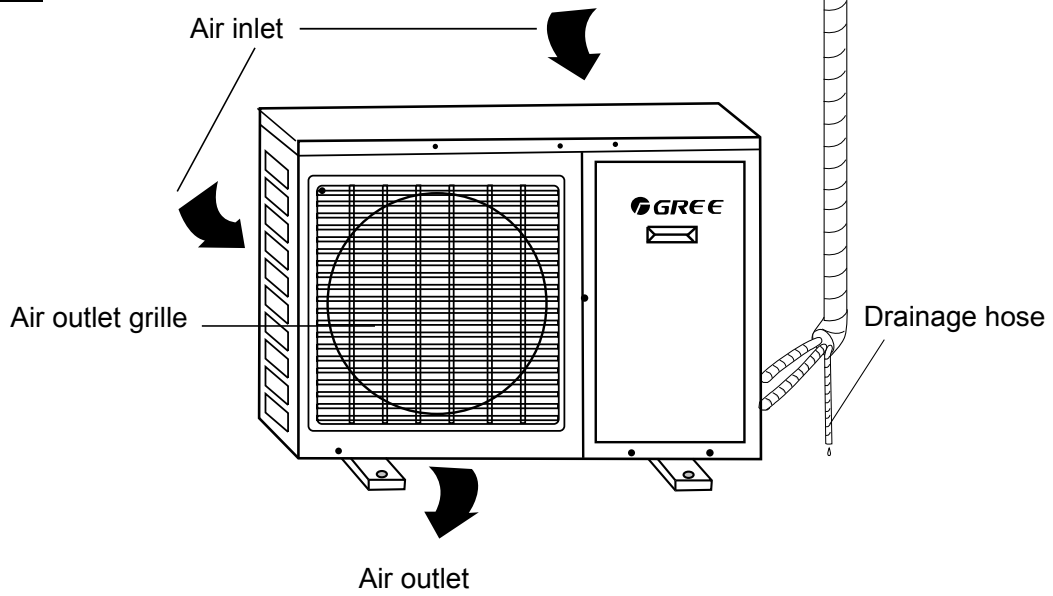
Outdoor Unit



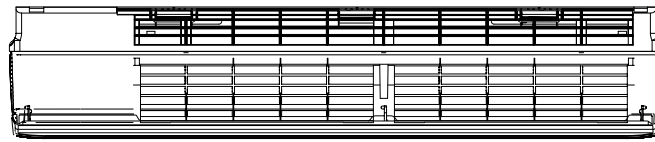
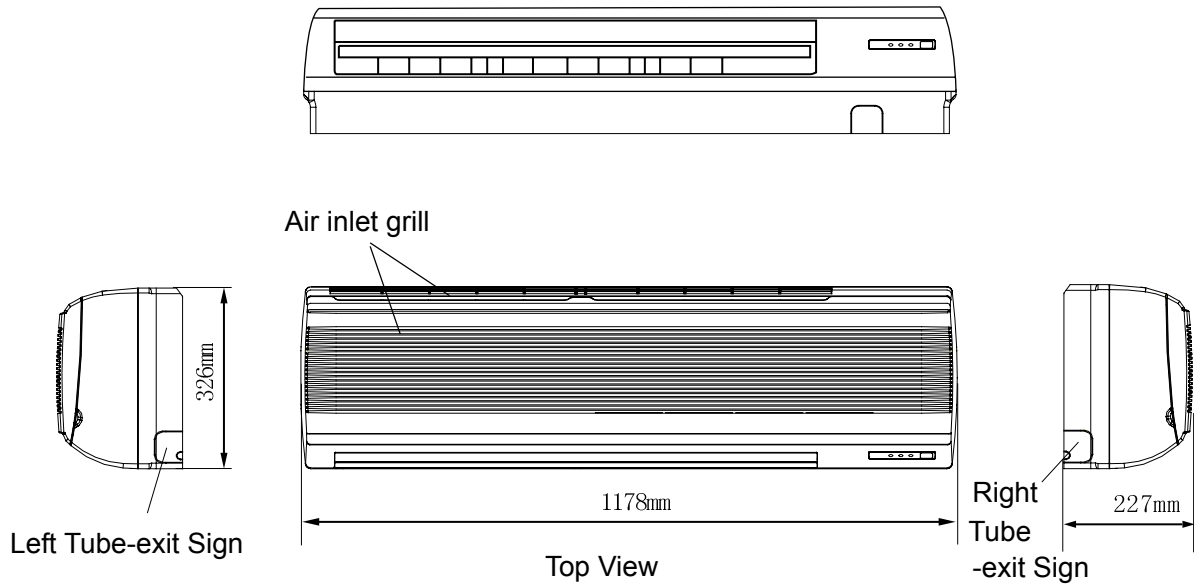
Indoor Unit



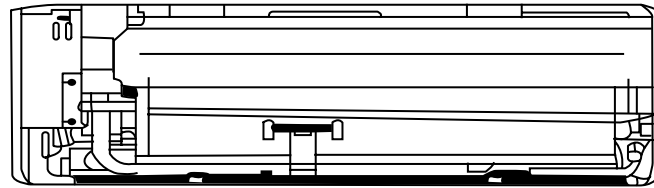
Outdoor Unit



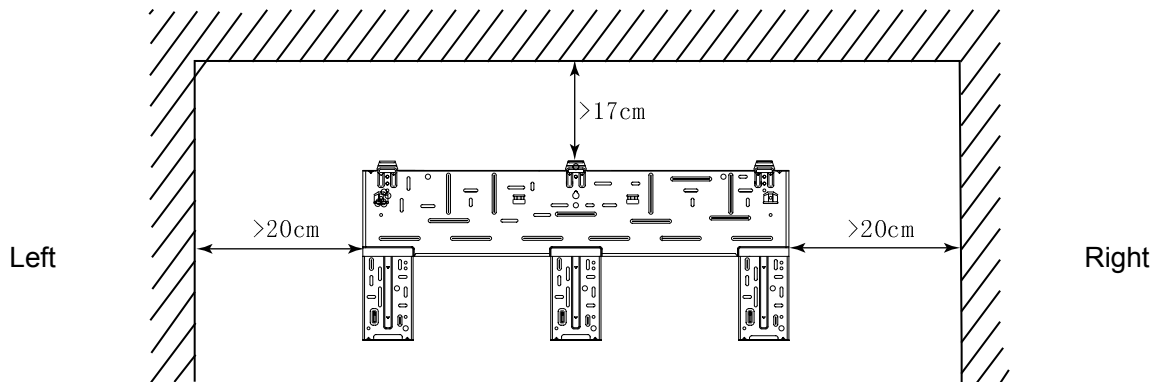
4 Overall and Installing Dimension

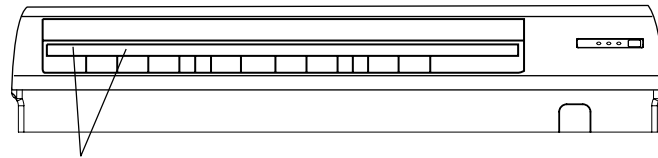


Rear View

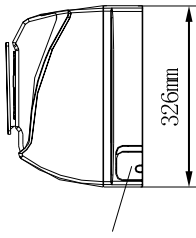


Ceiling

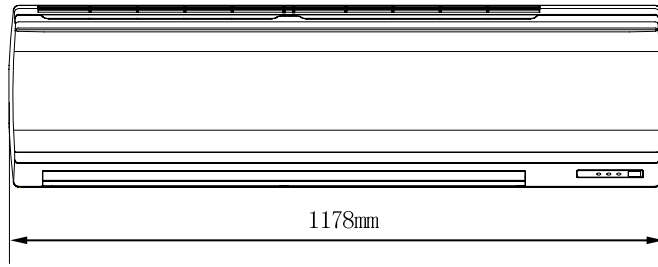




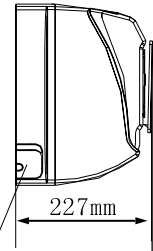
Air inlet grill



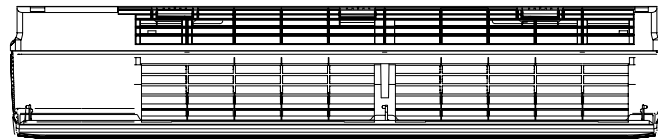
Left Tube-exit Sign



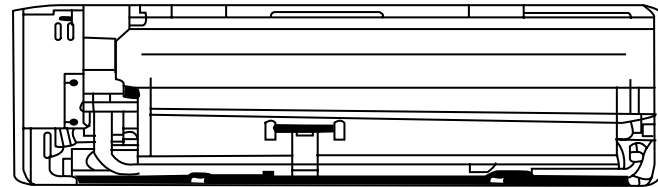
Top View



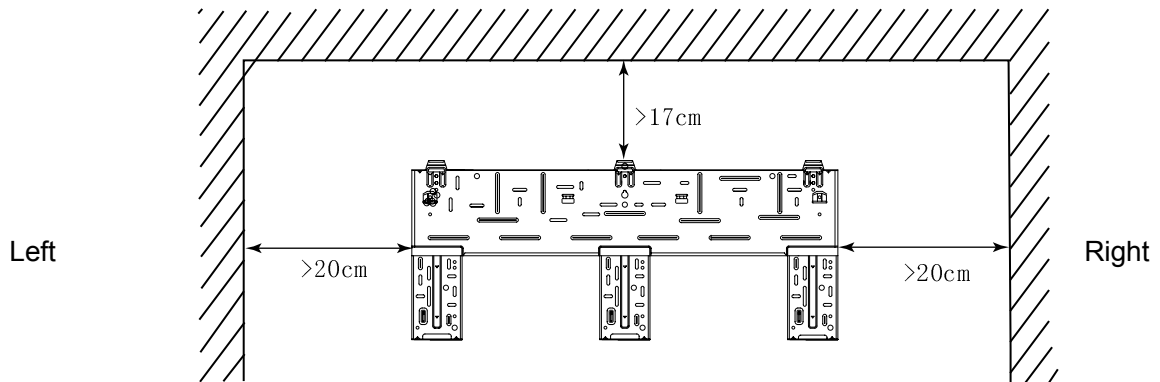
Right Tube-exit Sign



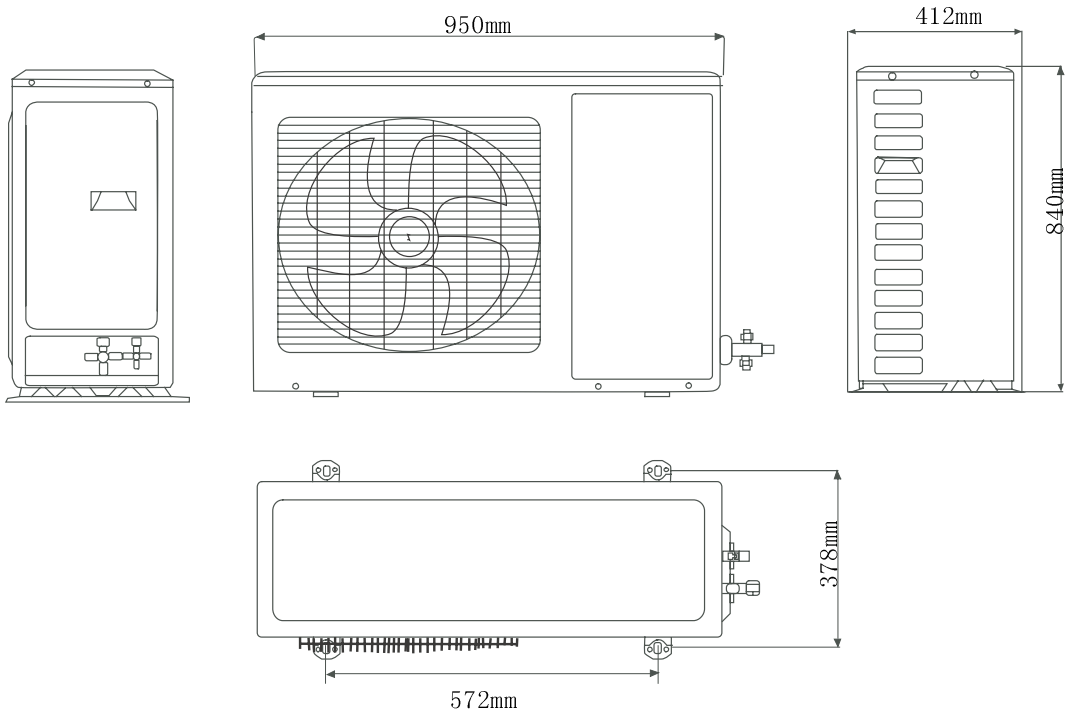
Rear View



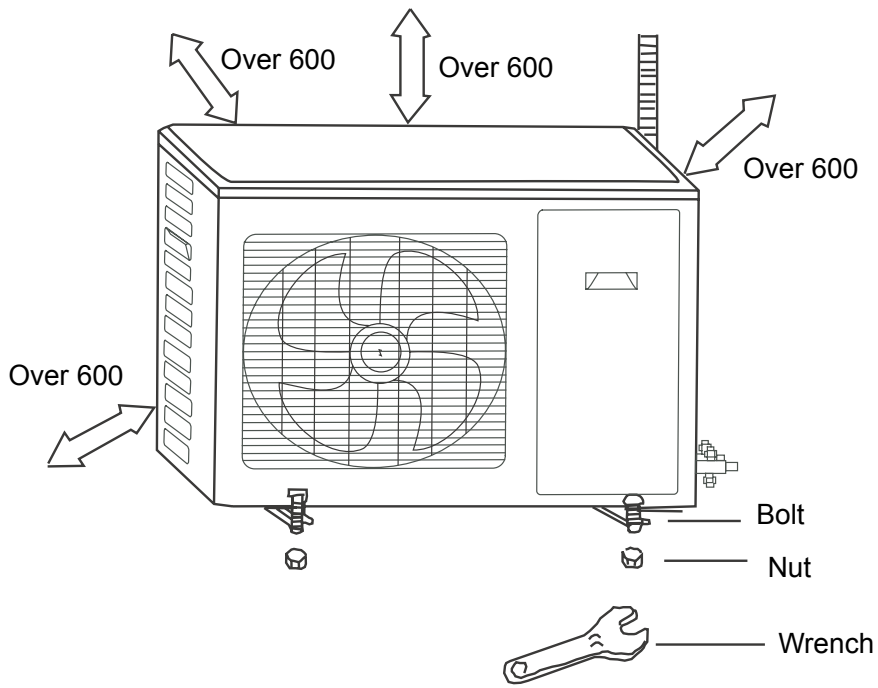
Ceiling



Fengyun Series



UNIT:mm



5 Electrical Diagram

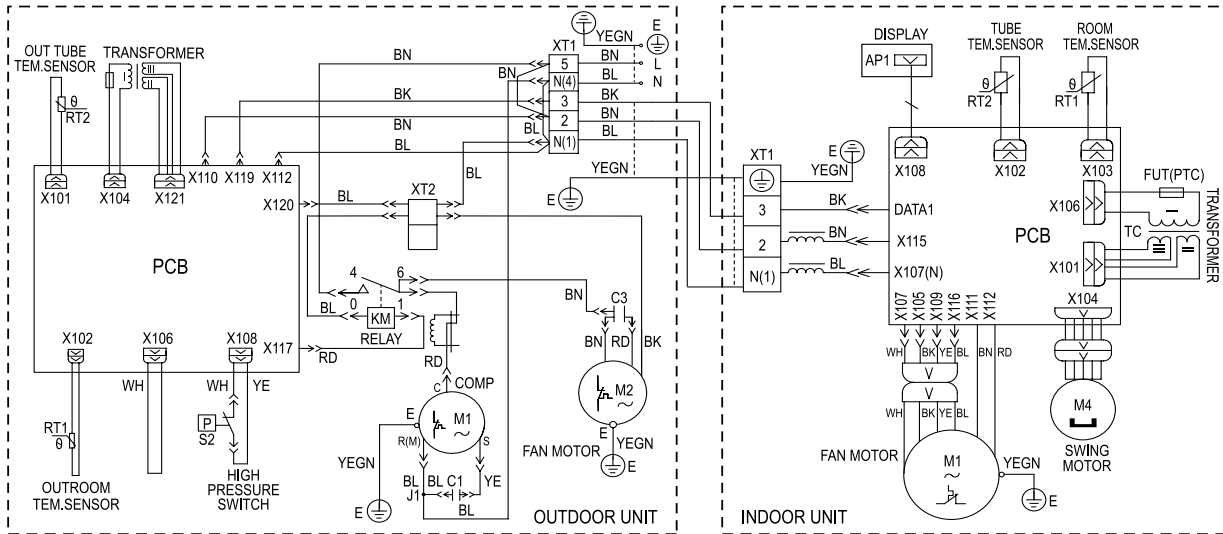
GWCN24C1ND1BA

GWCN24C1NK1BA

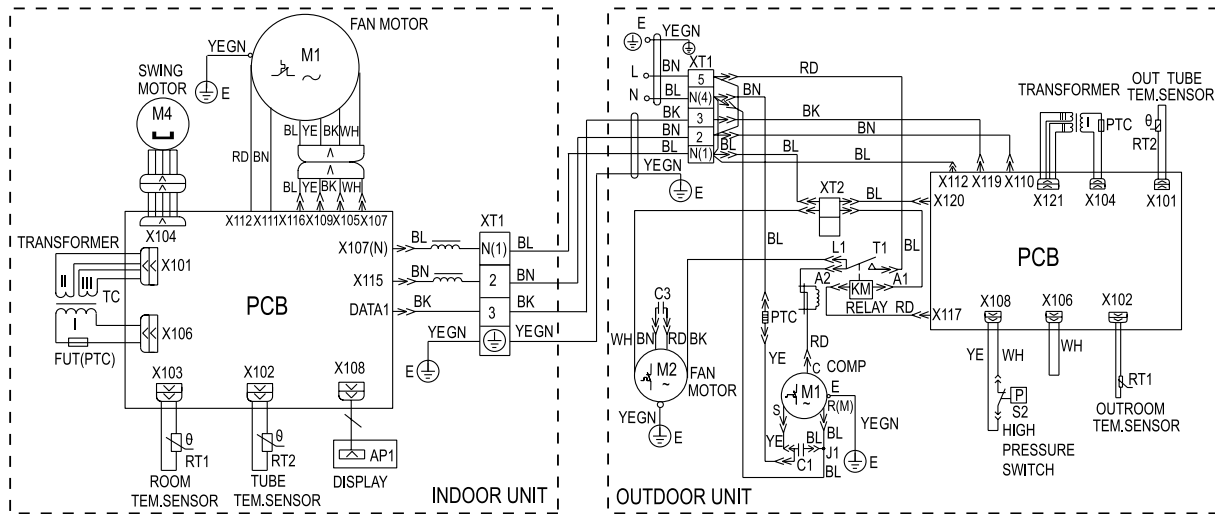
GWCN24C1ND1AA

GWCN24C1NK1AA

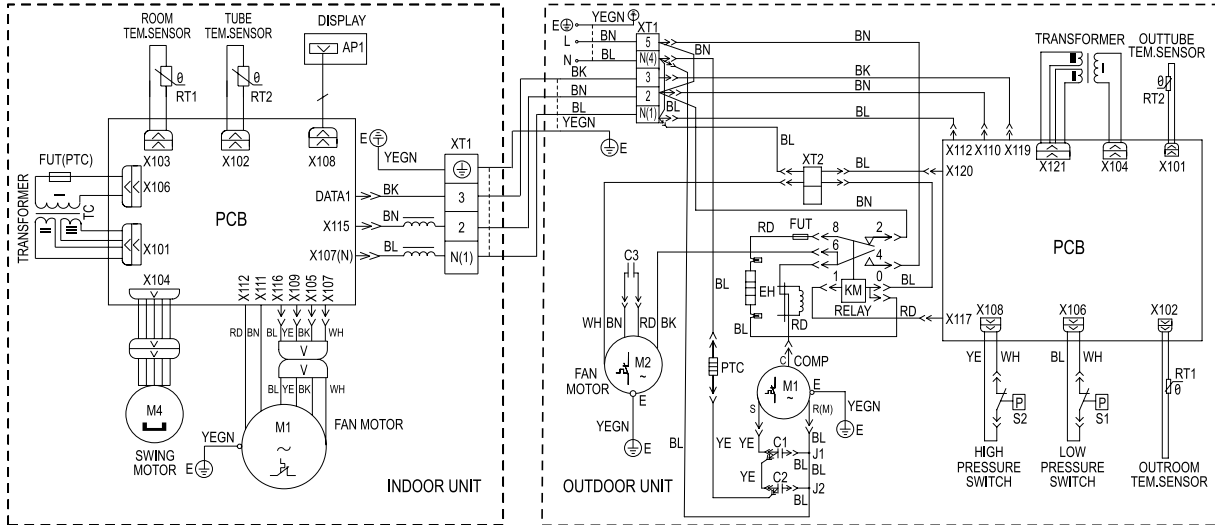
GWCN24C1NK3AA



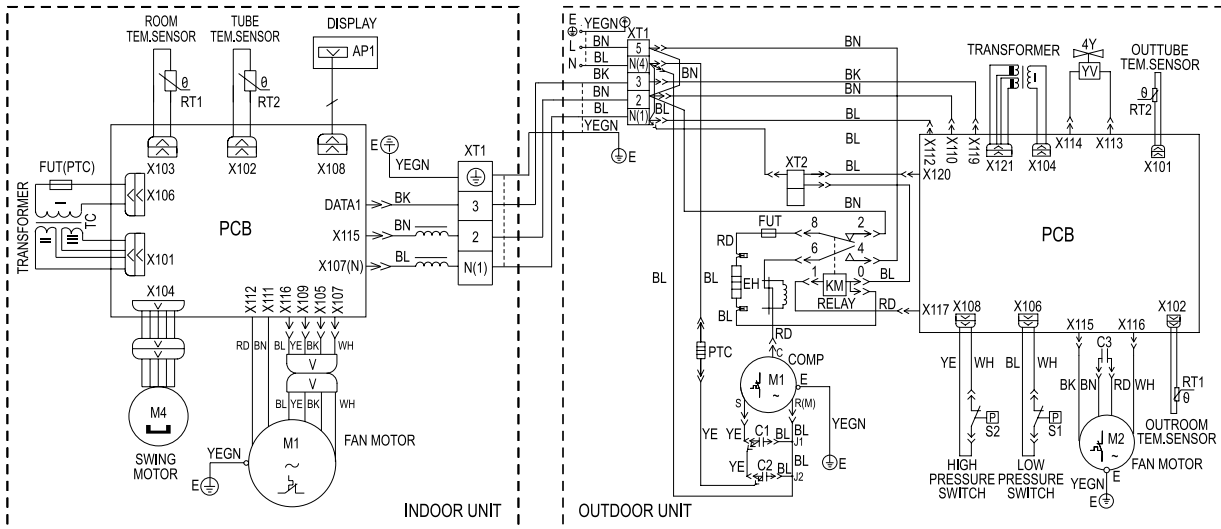
GWCN28C1TK1AA



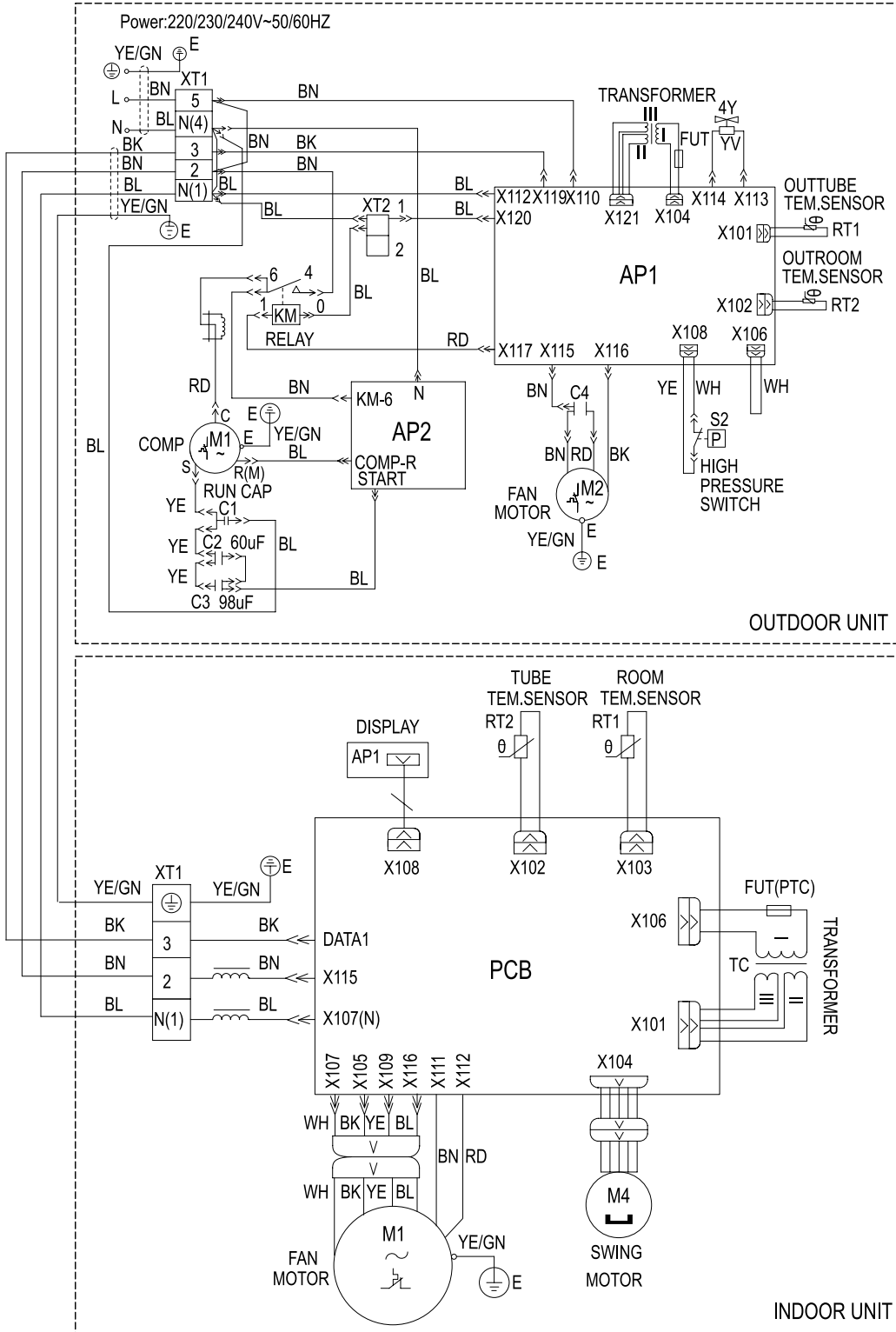
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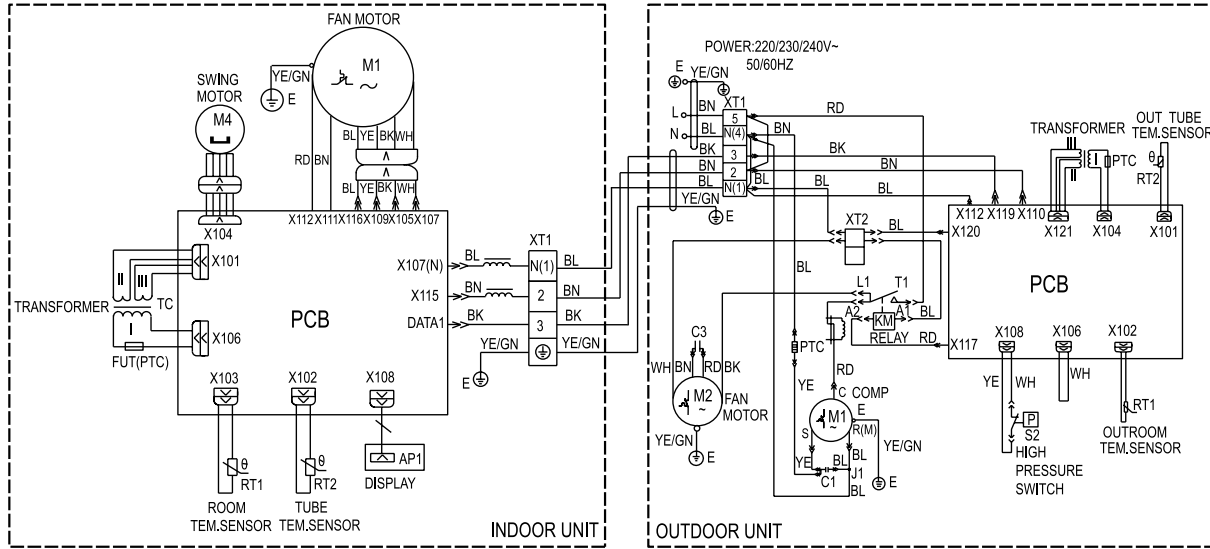
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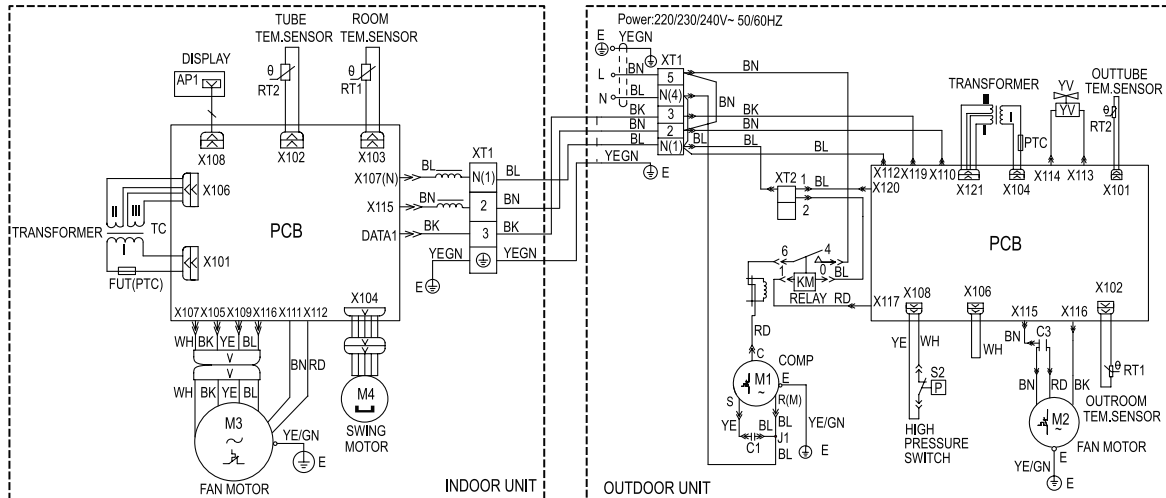
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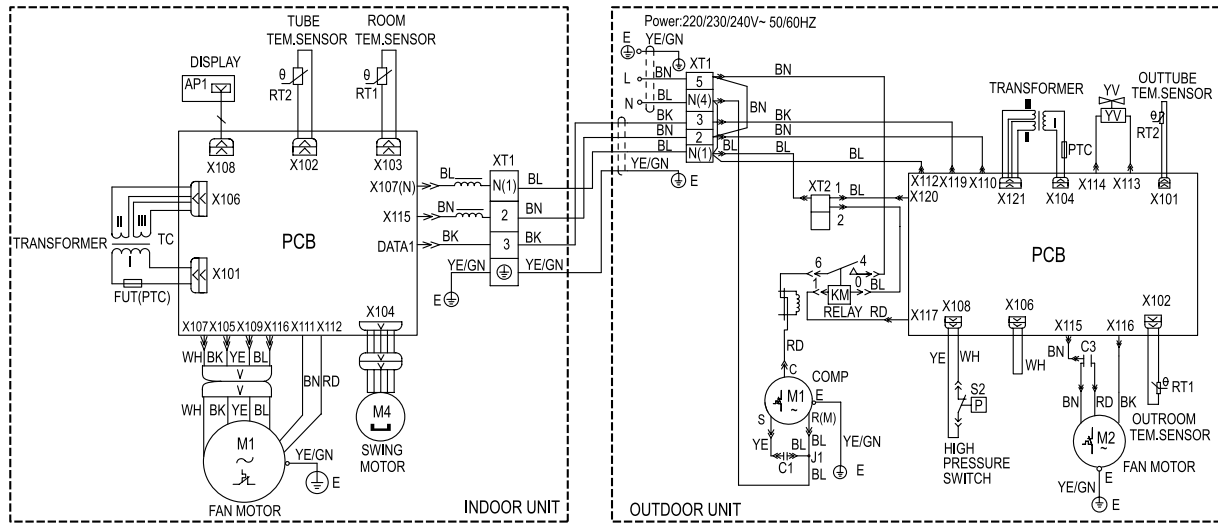
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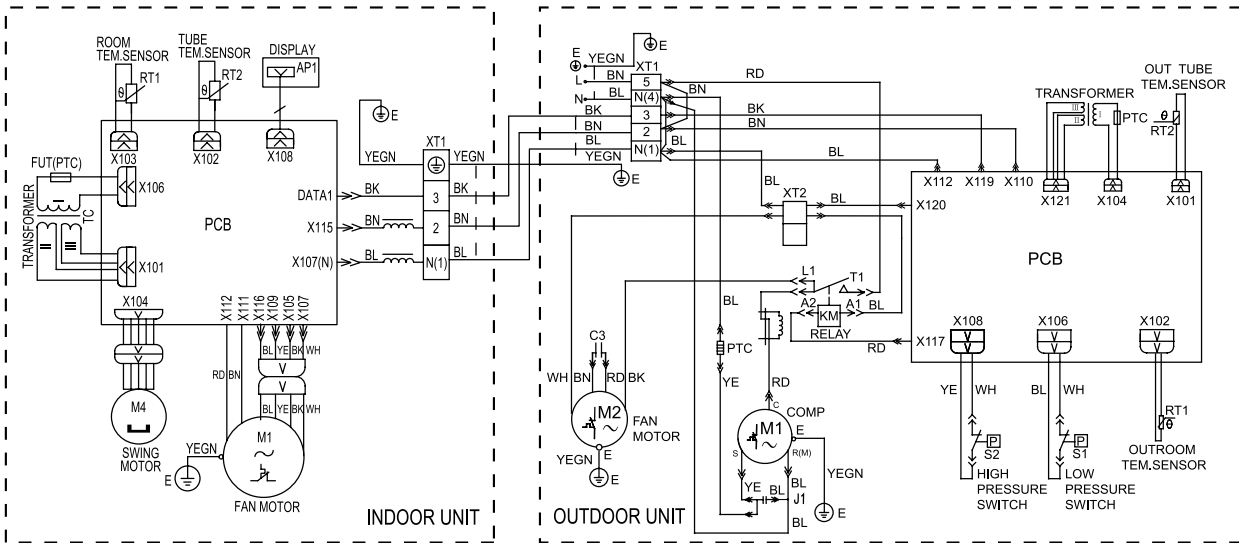
GWHN28C1TD1AA GWHN24C1NK3AA



GWHN24C1ND1AA GWHN24C1NK1AA



GWCN28C1ND1AA



In case of any change in the Electrical Diagram shown above, please follow the drawing on cabinet.

6 Controller Function Manual and Operating Instructions

6.1 Remote Controller Function Manual

GWCN24C1NK1AA

6.1.1 Temperature Parameters

- ◆ Indoor preset temperature (T_{preset})
- ◆ Indoor ambient temperature ($T_{\text{amb.}}$)

6.1.2 Basic Functions

Under each mode, once the compressor start up, it will not be stopped within 6 minutes and will be restart after 3mins later.

6.1.2.1 Cooling Mode

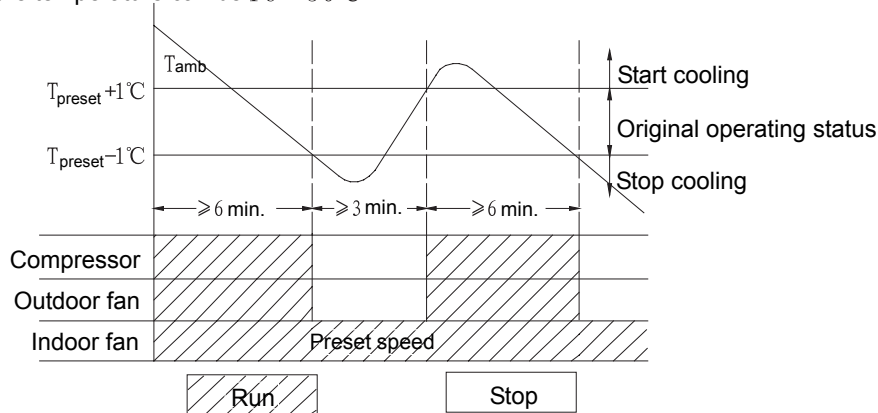
6.1.2.1.1 Cooling Conditions and Process

When $T_{\text{amb}} \geq T_{\text{preset}} + 1^{\circ}\text{C}$, the unit will run under cooling mode, in which case the compressor and outdoor fan will start and the indoor fan will run at preset speed.

When $T_{\text{amb}} \leq T_{\text{preset}} - 1^{\circ}\text{C}$, the unit will be stopped, in which the compressor and outdoor fan will be stopped, the indoor fan will be run at setting fan speed.

When $T_{\text{preset}} - 1^{\circ}\text{C} < T_{\text{amb}} < T_{\text{preset}} + 1^{\circ}\text{C}$, the unit will keep the original running state.

➤ Under this mode, and the temperature can be $16 \sim 30^{\circ}\text{C}$



6.1.2.2 Dehumidifying mode

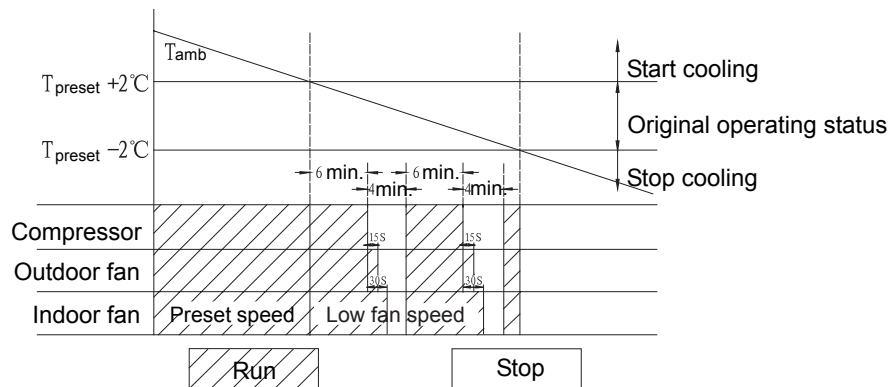
6.1.2.2.1 Dehumidifying conditions and process

When $T_{\text{amb.}} > T_{\text{preset}} + 2^{\circ}\text{C}$, the unit will run under dehumidify cooling mode, in which case the compressor and outdoor fan will be started and the indoor fan will run at preset speed;

When $T_{\text{preset}} - 2^{\circ}\text{C} \leq T_{\text{amb.}} \leq T_{\text{preset}} + 2^{\circ}\text{C}$, the unit will run under dehumidifying mode, in which case the indoor fan will keep run at low speed, the compressor will be stopped after 6 minutes and the outdoor fan will be stopped after 30-second lag. After 4 minutes, the compressor and the outdoor fan will be restarted. The humidifying process is so repeated in cycle.

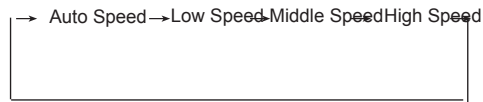
When $T_{\text{amb.}} < T_{\text{preset}} - 2^{\circ}\text{C}$, the compressor, outdoor fan and indoor fan will be stopped.

➤ Under this mode, and the temperature can be $16 \sim 30^{\circ}\text{C}$



6. 1. 2. 3 Fan mode

Under Fan mode, the indoor fan runs at preset speed.



➤ The temperature can be set within a range from 16 to 30 °C . The initial value is 25 °C .

6. 1. 2. 4 Auto mode

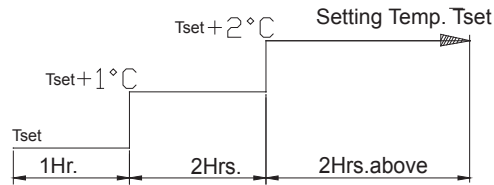
Under this mode, the system will automatically select its run mode (cooling, fan, heating) with the change of ambient temperature. For protection function, same as under cooling or heating mode.

➤ Under Auto mode, if the unit is switched from heating mode to another mode, when operate in heat mode, the OFF order only be received.

6. 1. 3 Other control

6. 1. 3. 1 Sleep function

Setting Sleep function under COOL or DEHUMIDIFY mode, the preset temperature will automatically rise by 1 °C after 1 hour and rise by another 1 °C after 2 hours. Preset temperature will rise by 2 °C in total within 2 hours. After that, the unit will run at this preset temperature.



No sleep function under FAN or AUTO mode.

6. 1. 3. 2 Timer on

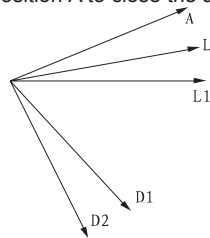
Timer on function can be set when the unit is at off mode. Upon the time as set, the controller will run under preset mode. The interval of time setting is 0.5h and can be set within 0.5-24h in cycle.

6. 1. 3. 3 Timer off

Timer Off function can be set when the unit is at on mode. Upon the time as set, the system will be stopped. The interval of time setting is 0.5h and can be set within 0.5-24h in cycle.

6. 1. 3. 4 Swing Motor Control

1. Once energization, the swing motor will rotate the guide louver anticlockwise to position A to close the air outlet;
2. After the unit is started, the guide louver will rotate to D1 then return to Li position. If under swing status, the louver will swing between L1 and D1;
3. Upon stop of the unit, it will rotate anticlockwise to position A to close the air outlet.



6. 1. 3. 5 Buzzer

When the controller is energized, pressed, or receives a signal from remote controller, the buzzer will give out a beep.

6. 1. 3. 6 Automatic Control of Fan Speed

Under this mode, the indoor fan will automatically select high, medium or low speed with the change of ambient temperature.

6. 1. 3. 7 Indicator

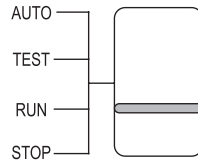
RUN Indicator (Red): When the controller is energized, it will give out a blink. Running status indication: bright upon start of the unit; black upon stop of the unit and blink during trouble.

COOLING, Dehumidifying Indicator (Green): Bright under cooling or dehumidifying mode; auto cooling or auto dehumidifying mode, otherwise, it is black.

6. 1. 3. 8 Code Switch (AUTO, TEST, RUN, STOP)

- a. It will run under auto mode when the code switch is put to AUTO position. If any remote control signal received, the main unit will run according to the remote control signal.
- b. It will run under COOLING mode when the swing switch is put to TEST position, and the indoor fan will run at high speed. If any remote control signal received, it will run according to the remote control signal. At this time, the low pressure switch is shielded, the temperature sensor's malfunction will be checked, but don't measure any temperatures.

- c . When putting the swing switch to RUN position, the main unit will run as instructed by remote control signal.
- d . When putting the swing switch to STOP position, the complete unit will be stopped and will not accept remote control signal.



6. 1. 3. 9 Memory Function

Memory contents: Mode, Swing, Set temp., Set fan speed.

After powered off and re-power on, the unit will start to run with the memory function automatically.

6. 1. 4 Protection

6. 1. 4. 1 Antifreeze Protection

Under heating mode, if it is detected that the pipe temp. of evaporator is too high, the outdoor fan will be stopped; When the pipe temperature resumes normal, the outdoor fan will resume running.

6. 1. 4. 2 System high-pressure protection

If high-pressure protection is detected all loads will be turned off, all key press and remote control signals will be shielded, and the Run Indicator will blink. When compressor is detected free of high-pressure protection, the shield function will be released, the Run Indicator will keep blinking. To restore the operation, it is required to press ON/OFF key to switch off the unit and indicator before pressing ON/OFF key again.

6. 1. 4. 3 Overcurrent protection

When the compressor is turned on, if it has detected that the current exceed the stated value, the unit will stop as the indoor ambient temp. has arrived at the setting temp., after the compressor has stopped for 3mins, it will resume to run in the original running state, if the protections is more than 6 times (If compressor has continuously work more than 6mins, the protection times will reset), the running indicator will blink, it can not resume to run automatically, it is need to press ON/OFF button to turn off the unit, then repress ON/OFF button to resume to work.

6. 1. 4. 4 Communication malfunction

When it is detected that the indoor and outdoor units have communication malfunction, the running indicator will blink, the unit will be stopped as the indoor ambient temperature has arrived the setting temperature.

6. 1. 4. 5 Indication display

| State | Indicator display | Remark: |
|---------------------------|---|--|
| High-pressure protection | Outdoor malfunction indicator 1 turns on, indoor run indicator blinks | Indoor Run indicator turn off 3s and blinks once |
| Over current protection | Outdoor malfunction indicator 2 turns on, indoor run indicator blinks | Indoor indicator turn off 3s and blinks five times |
| Communication malfunction | Outdoor malfunction indicators 1, 2, 3 turn on, indoor run indicator blinks | Indoor indicator turn off 3s and blinks six times |
| Normal communication | Outdoor indicator 4, 5 blink in turn | |

When there are several malfunctions existed at the same time, it will display the high level malfunction in priority by a sequence as: communication air exhaust protection over current protection high pressure protection low protection

6. 2 Remote Controller Function Manual

6.1.1 Temperature Parameters

- ◆ Indoor preset temperature (T_{preset})
- ◆ Indoor ambient temperature ($T_{\text{amb.}}$)

6.1.2 Basic Functions

Under any mode, the compressor, once started, will not be stopped within 6 minutes .
Once Stopped, the compressor should in no way be restarted unless 3-minute lag.

6.1.2.1 Cooling Mode

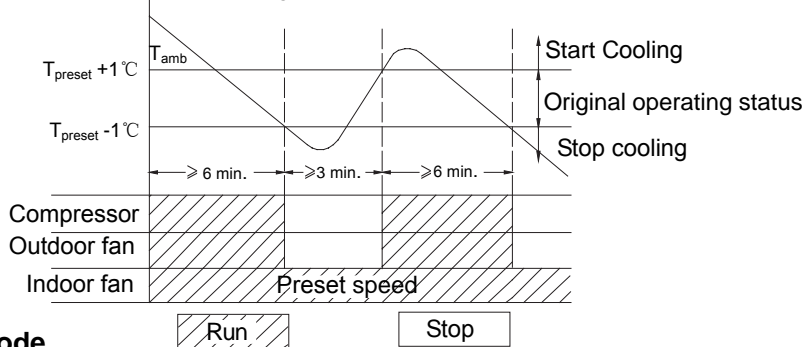
6.1.2.1.1 Cooling Conditions and Process

When $T_{\text{amb.}} \geq T_{\text{preset}} + 1^{\circ}\text{C}$, the unit will run under cooling mode, in which case the compressor and outdoor fan will be started, the indoor fan will run at preset speed.

When $T_{\text{amb.}} \leq T_{\text{preset}} - 1^{\circ}\text{C}$, the unit will be stopped under cooling mode, in which case the compressor and outdoor fan will be stopped and the indoor fan will run at preset speed.

When $T_{\text{preset}} - 1^{\circ}\text{C} < T_{\text{amb.}} < T_{\text{preset}} + 1^{\circ}\text{C}$, the unit will maintain its original operating status.

- Under this mode, the reversal valve will be de-energized and the temperature can be set from 16 to 30°C.



6.1.2.2 Dehumidifying Mode

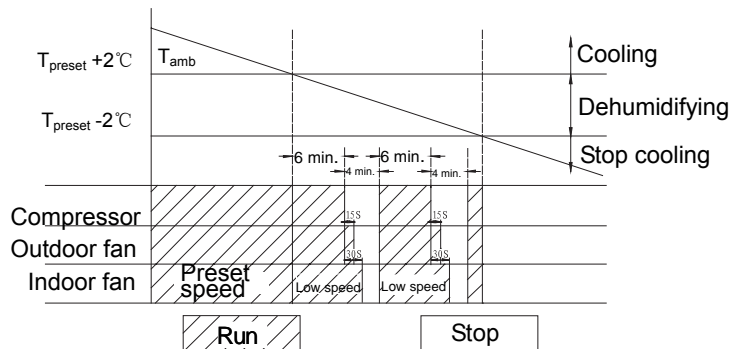
6.1.2.2.1 Dehumidifying Cooling Conditions and Process

When $T_{\text{amb.}} > T_{\text{preset}} + 2^{\circ}\text{C}$, the unit will run under dehumidify cooling mode, in which case the compressor and outdoor fan will be started and the indoor fan will run at preset speed.

When $T_{\text{preset}} - 2^{\circ}\text{C} \leq T_{\text{amb.}} \leq T_{\text{preset}} + 2^{\circ}\text{C}$, the unit will run under dehumidifying mode, in which case the indoor fan will run at low speed. After the compressor and outdoor fan has run 6 minutes, the compressor will be stopped, the outdoor fan will be stopped after 15-second lag and the indoor fan will be stopped after 30 seconds. After 3.5 minutes, the compressor and outdoor fan will be started, and the indoor fan will run at low speed. The dehumidifying process is so repeated in cycle.

When $T_{\text{amb.}} < T_{\text{preset}} - 2^{\circ}\text{C}$, the compressor, outdoor fan and indoor fan will be stopped.

- Under this mode, the reversal valve will be de-energized and the temperature can be set from 16 to 30°C.



6.1.2.3 Heating Mode

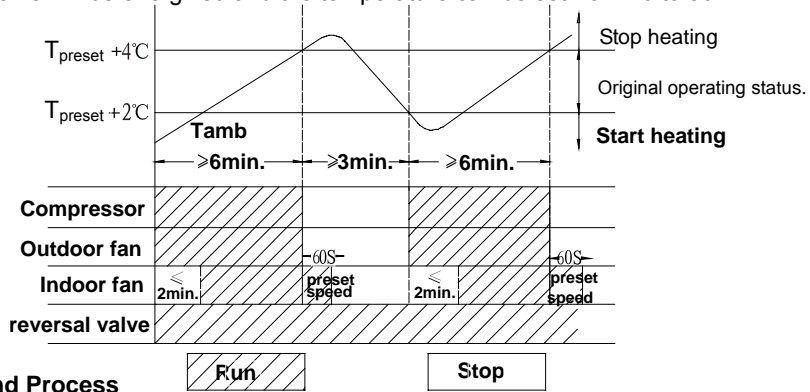
6.1.2.3.1 Heating Conditions and Process

When $T_{amb} \leq T_{preset} + 2^{\circ}\text{C}$, the unit will run under heating mode, in which case the reversal valve, compressor and outdoor fan will be started simultaneously, while the indoor fan will run after 2 minutes (max) delay.

If $T_{amb} \geq T_{preset} + 4^{\circ}\text{C}$, the compressor and outdoor fan will be stopped, the reversal valve will remain energized and the indoor fan will run at preset speed for 60s and then will stop.

When $T_{preset} + 2^{\circ}\text{C} < T_{amb} < T_{preset} + 4^{\circ}\text{C}$, the unit will maintain its original operating status.

- Under this mode, the reversal valve will be energized and the temperature can be set from 16 to 30°C.



6.1.2.3.2 Defrosting Conditions and Process

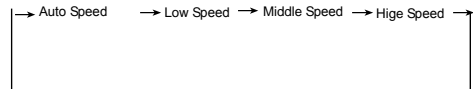
When the condenser is detected to have frost, the system will enter into defrosting status, in which case the outdoor fan, 4-way valve and indoor fan will be stopped and the heating indicator will blink. When it is detected that the frost in condenser is completely eliminated, the outdoor fan and 4-way valve will be started, the indoor fan will be started at most

6.1.2.3.3 The preventive liquid splash protection for the 4-way valve

If the unit is switched off under heating mode or switched from heating mode to another mode, the 4-way valve will be de-energized 2 minutes after the compressor is stopped.

6.1.2.4 Fan Mode

Under FAN mode, the indoor fan runs at preset speed.



- The temperature can be set within a range from 16 to 30°C. The initial value is 25°C.

6.1.2.5 Auto Mode

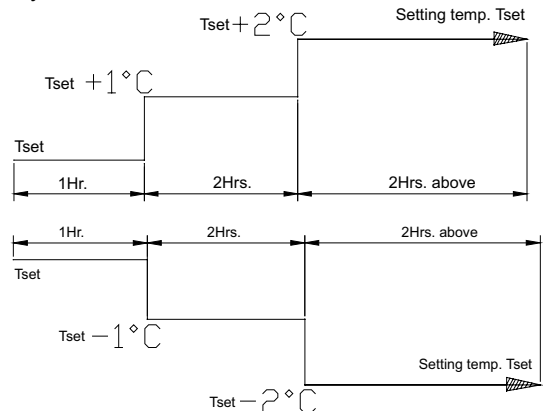
Under this mode, the system will automatically select its run mode (cooling, fan, heating) with the change of ambient temperature. For protection function, same as under cooling or heating mode.

- Under Auto mode, if the unit is switched from heating mode to another mode, the reversal valve will be de-energized after 2 mins delay. (cooling only unit has not heating mode)

6.1.3 Other Control

6.1.3.1 Sleep Function

Setting SLEEP function under COOL or DEHUMIDIFY mode, the preset temperature will automatically rise by 1°C after 1 hour and rise by another 1°C after 2 hours. Preset temperature will rise by 2°C in total within 2 hours. After that, the unit will run at this preset temperature.



Setting SLEEP function under HEAT mode, the preset temperature will automatically decrease by 1°C after 1 hour and decrease by another 1°C after 2 hours. Preset temperature will decrease by 2°C in total within 2 hours. After that, the unit will run at this preset temperature.

No sleep function under FAN or AUTO mode.

6.1.3.2 AUTO ON

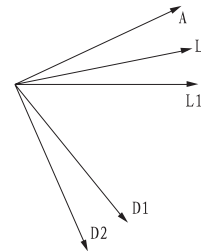
AUTO ON function can be set when the unit is at off mode. Upon the time as set , the controller will run under preset mode. The interval of time setting is 0.5h and can be set within 0.5-24h in cycle.

6.1.3.3 AUTO OFF

AUTO OFF function can be set when the unit is at on mode. Upon the time as set , the system will be stopped. The interval of time setting is 0.5h and can be set within 0.5-24h in cycle.

6.1.3.4 Swing Motor Control

1. Once energization, the swing motor will rotate the guide louver anticlockwise to position A to close the air outlet.
2. After the unit is started, the guide louver will rotate to D2 air outlet under heating mode and to D1 air outlet and then return to L1 position. If under swing status, the louver will swing between L1 and D1 under cooling mode and between L and D2 under heating.
3. Under heating mode, if swing is on, the louver must be stopped at L position when the unit is at preventive cold air; blowing the residual heat and defrosting status, the louver will swing under normal heating status. If swing is off, the louver will be stopped at preset position.
4. Upon stop of the unit, it will rotate anticlockwise to position A to close the air outlet.



6.1.3.5 Buzzer

When the controller is energized, pressed, or receives a signal from remote controller, the buzzer will give out a beep.

6.1.3.6 Automatic Control of Fan Speed

Under this mode, the indoor fan will automatically select high, medium or low speed with the change of ambient temperature.

6.1.3.7 Indicator

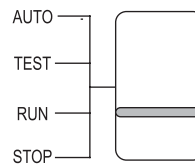
RUN Indicator (Red): when the controller is energized, it will give out a blink. Running status indication: bright upon start of the unit; black upon stop of the unit and blink during trouble.

COOLING, Dehumidifying Indicator (Green): Bright under cooling or dehumidifying mode; auto cooling or auto dehumidifying mode, otherwise, it is black.

HEATING Indicator (Yellow): Bright under heating or auto heating mode, blink during defrosting, black under other modes. The RUN Indicator is bright under FAN mode,

6.1.3.8 Swing Switch(AUTO, TEST, RUN, STOP)

- a. It will run under auto mode when the swing switch is put to AUTO position. If any remote control signal received, the main unit will run according to the remote control signal.
- b. It will run under COOLING mode when the swing switch is put to TEST position, and the indoor fan will run at high speed . If any remote control signal received, it will run according to the remote control signal. At this time, the low pressure switch is shielded, the tem. sensor's malfunction will be checked, but don't measure any temperatures.
- c. When putting the swing switch to RUN position, the main unit will run as instructed by remote control signal.
- d. When putting the swing switch to STOP position, the complete unit will be stopped and will not accept remote control signal



6.1.3.9 Memory function

Memory contents: Mode, Swing, Set temp, Set fan speed.

After powered off, and re-power on, the unit will start to run with the memory function automatically.

6.1.4 Protection

6.1.4.1 Antifreeze Protection

If it is detected that the system is under antifreeze protection under cooling mode, the compressor and outdoor fan will be stopped, the indoor fan and the swing motor will maintain its original operating status.. When antifreeze protection is released and the compressor has stopped for 3 minutes, the controller will run at the preset mode. It don't shielded the key signal during antifreeze protection.

6.1.4.2 Anti High-temp Protection

Undre heating mode, if it is detected that the pipe temp. of evaporator is too high, the outdoor fan will be stopped; when the pipe temp. resumes normal, the outdoor fan will resume running.

6.1.4.3 System high-pressure protection

If high-pressure protection is detected ,all loads will be turned off,all key-press and remote control signals will be shielded, and the Run Indicator will blink. When compressor is detected free of high-pressure protection, the shield function will be released, the Run Indicator will keep blinking.To restore the operation, it is required to press ON/OFF key to switch off the unit and indicator before pressing ON/OFF key again.

6.1.4.4 System low-pressure protection

1. After compressor has started for several minutes and started to check the low-pressure switch signal, if it has detected that the low-pressure switch opened, that the whole unit will stop, the running indicator will blink,after 3mins and low pressure resumed, the unit will back to run; if there are twice low-pressure protection continuously act, that the running indicator blink and will not resume automatically, in order to remind the user there is air leakage; Only if the low pressure resumed, then press ON/OFF button to turn off the unit, then repress ON/OFF button to resume to run;(if cooling only unit has no low-pressure switch, connect the circuit directly.)
2. When turn to the manual switch to TEST position, it will carry out the test running, and shield the low-pressure protection;
3. When compressor stops, if it detected for 30s continuously that the low-pressure switch is opened, the whole unit will stop,the running indicator will blink,and it can not resume automatically, it need to press ON/OFF button to turn off the unit, then repress ON/OFF button to resume to run.

6.1.4.5 Overcurrent protection

When the compressor is turned on, if it has detected that the current exceed the stated value, the unit will stop as the indoor ambient temp. has arrived at the setting temp., after the compressor has stopped for 3mins, it will resume to run in the original running state, if the protections is more than 6 times (If compressor has continuously work more than 6mins, the protection times will reset), the running indicator will blink, it can not resume to run automatically, it is need to press ON/OFF button to turn off the unit, then repress ON/OF button to resume to work.

6.1.4.6 Communication malfunction

When it is detected that the indoor and outdoor units have communication malfunction , the running indicator will blink, the unit will be stopped as the indoor ambient temperature has arrived the setting temperature .

6.1.4.7 Indicator display

| State | Indicator display | Remark: |
|---------------------------|---|---|
| High-pressure protection | Outdoor malfunction indicator 1 turns on, indoor run indicator blinks | Indoor Run indicator turn off 3s and blinks once |
| Low-pressure protection | Outdoor malfunction indicator 3 turns on, indoor run indicator blinks | indoor Run indicator turn off 3s and blinks 3 times |
| Over current protection | Outdoor malfunction indicator 2 turns on, indoor run indicator blinks | Indoor indicator turn off 3s and blinks five times |
| Communication malfunction | Outdoor malfunction indicators 1,2,3 turn on, indoor run indicator blinks | Indoor indicator turn off 3s and blinks six times |
| Normal communication | Outdoor indicator 4,5 blink in turn | |
| | | |

When there are several malfunctions existed at the same time, it will display the high level malfunction in priority by a sequence as: communication malfunction→air exhaust protection →over current protection →high pressure protection →low pressure protection.

7 Disassembly and Assembly Procedures

7.1 Disassembly Procedures of Indoor Unit

Operating Procedures / Photos

7.1.1 Disassemble Filter

Push the filter inward and then pull it upward to remove it. Twist off screws to remove the cover plate of electric box.

(refer to Figure 7-1)

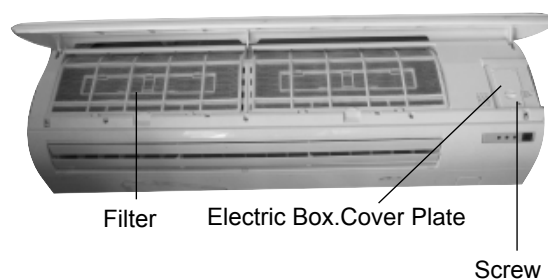


Figure 7-1

7.1.2 Disassemble Front Panel

Pull open the front panel. Push the front panel along the front case groove fixing the front panel to remove it.

(refer to Figure 7-2)

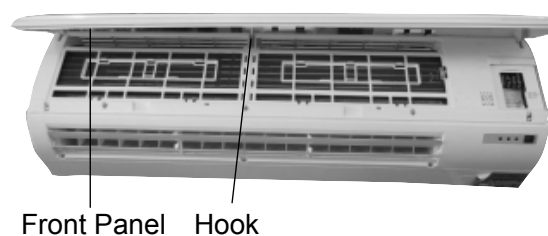


Figure 7-2

7.1.3 Disassemble Guide Louver

Manually bend the guide louver to loose the clasp at the guide louver. Remove the guide louver.

(refer to Figure 7-3)

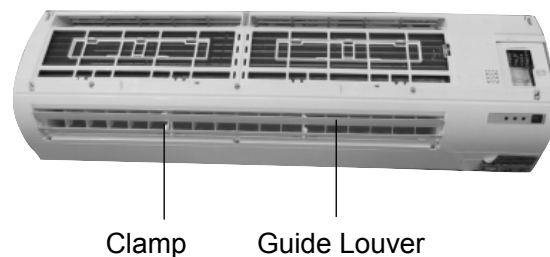


Figure 7-3

Operating Procedures / Photos

7.1.4 Disassemble Front Case

Unscrew the three screw cover at the front case, unscrew the six screws, and pull backward the front case to remove it.

(refer to Figure 7-4)

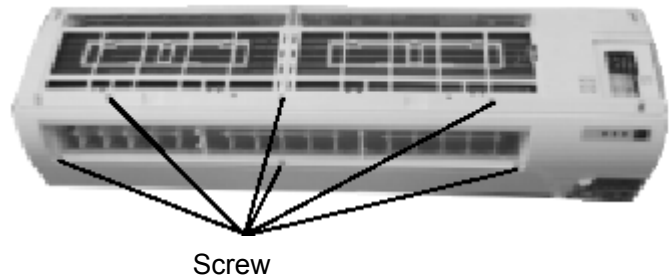


Figure 7-4

7.1.5 Disassemble Electric Box Cover

Unscrew the screw fixing the light plate to remove the light plate. Hold the electric box cover to press it inward so that the clasps at both sides are loose. Lift the electric box cover to remove it.

(refer to Figure 7-5)

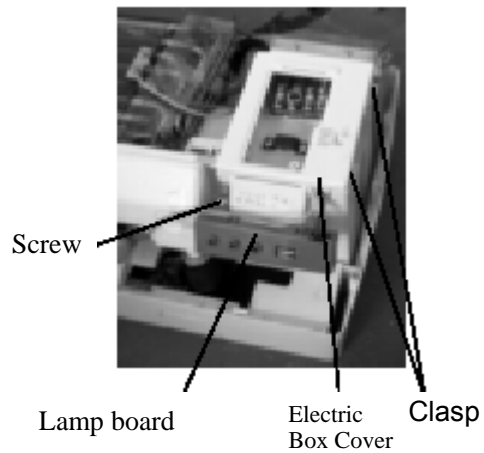


Figure 7-5

7.1.6 Disassemble Electric Box

Remove the grounding wire of evaporator. Take apart the tube sensor. Unplug the socket connectors of indoor motor and swing motor at the electric box. Use screwdriver to screw off the fixing screw of electric box. Take out the electric box.

(refer to Figure 7-6)

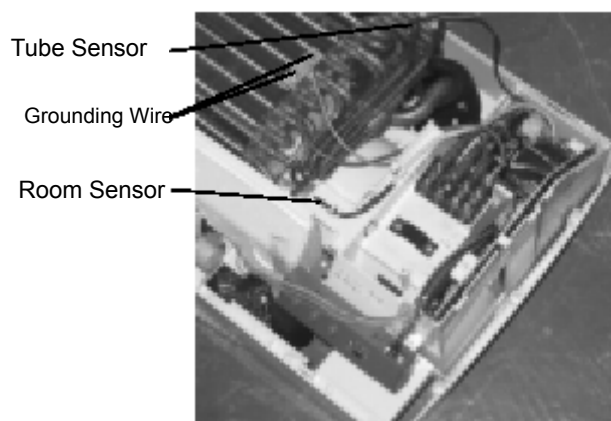


Figure 7-6

7.1.7  Disassemble Water Tray

Push open the clasp fixing the water tray, and pull the water tray upward to remove the water tray.

(refer to Figure 7-7)

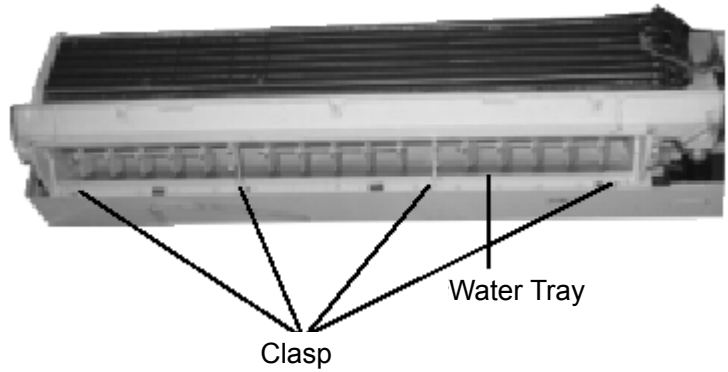


Figure 7-7

7.1.8  Disassemble Evaporator

Use screwdriver to screw off the two screws at the rear pipe clamp to remove the rear pipe clamp. Screw off the screws at the left and right sides of the evaporator, and take the evaporator out, so that the side plate clasp of the evaporator is released from the groove.

(refer to Figure7-8, 7-9 and 7-10)

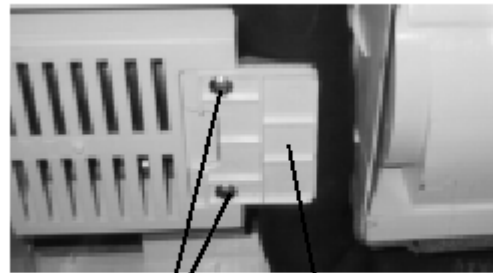


Figure 7-8

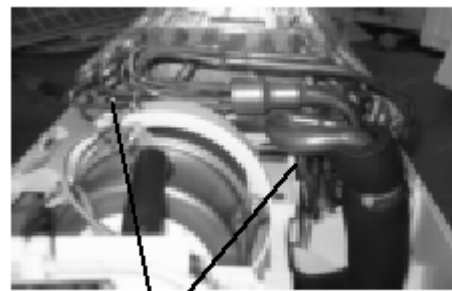


Figure7-9

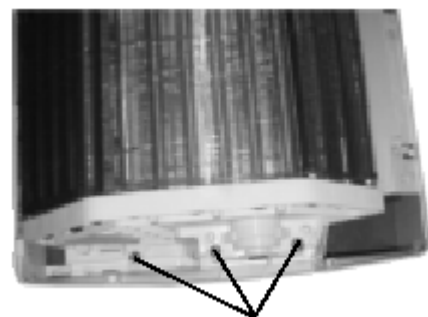


Figure 7-10

Operation Process / Photos

7.1.9 ||||| **Disassemble Motor**

Use a screwdriver to unscrew the two screws fixing the motor clamp and then remove the motor clamp. Unscrew the 3 holding screws on the bearing cover and remove the motor.
(refer to Figure 7-11,7-12)

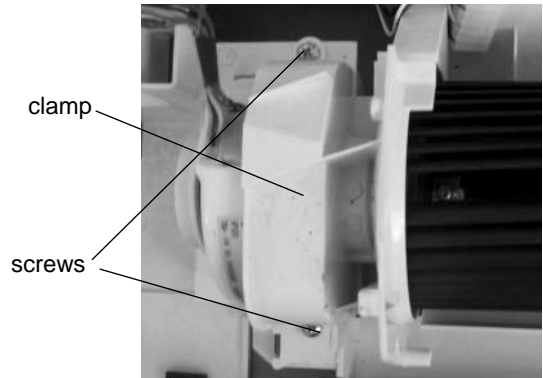
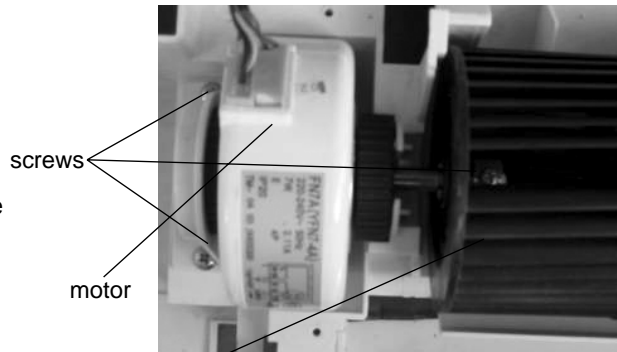


Figure 7-11

7.1.10 ||||| **Disassemble Cross Flow Fan**

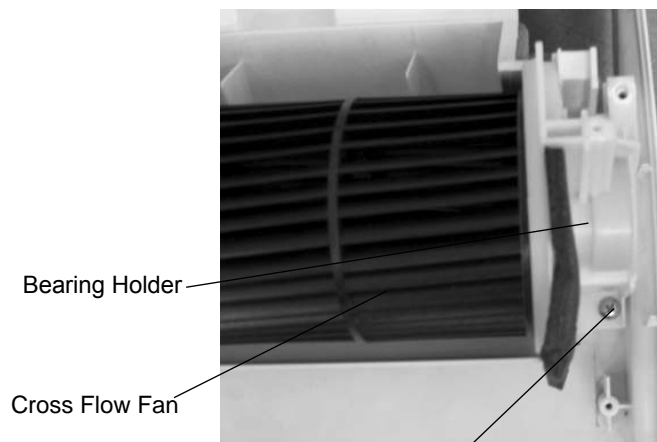
Take out the bearing holder at the left, and remove the cross flow fan.

(refer to Figure 7-13)



Cross Flow Fan

Figure 7-12



screw

Figure 7-13

7. 2 Disassembly Procedures of Outdoor Unit

Operating Procedures / Photos

7. 2. 1 Disassemble Front Side Plate

Screw off the four screws around the front side plate to remove the front side plate.
(refer to Figure 7-14)

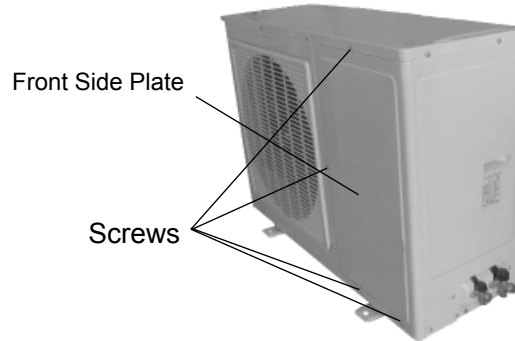


Figure 7-14

7. 2. 2 Disassemble Top Cover

Screw off the tapping screws around the top cover, and then pull the top cover upward to remove it.
(refer to Figure 7-15)

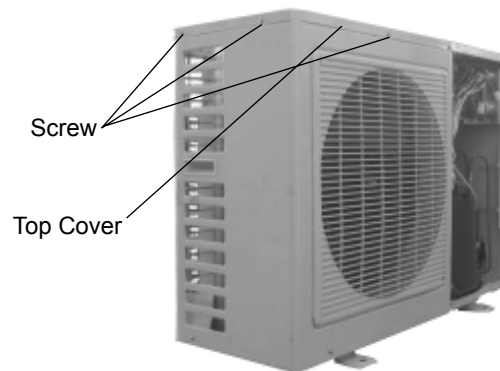


Figure 7-15

7. 2. 3 Remove the rear grill

Screw off the four screws around the rear grill to remove the rear grill.
(refer to Figure 7-16)

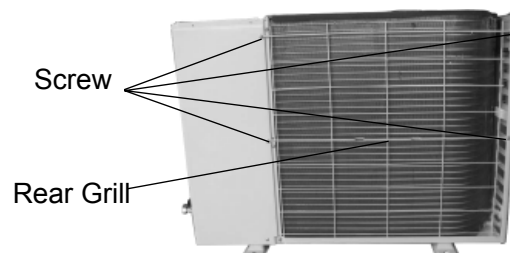


Figure 7-16

Operating Procedures / Photos

7. 2. 4 ||||| Disassemble Cabinet

Use screwdriver to screw off the screws around the cabinet to remove the cabinet. (refer to Figure 7-17)

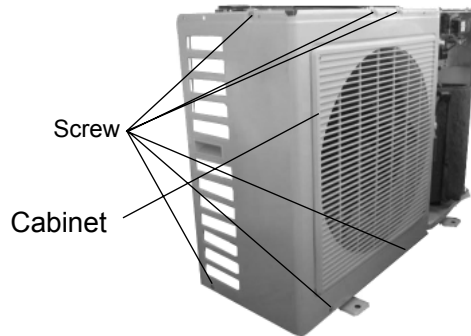


Figure 7-17

7. 2. 5 ||||| Disassemble Electric Box

Use screwdriver to screw off the two screws fixing the electric box, and pull the electric box to remove it.

(refer to Figure 8-18)

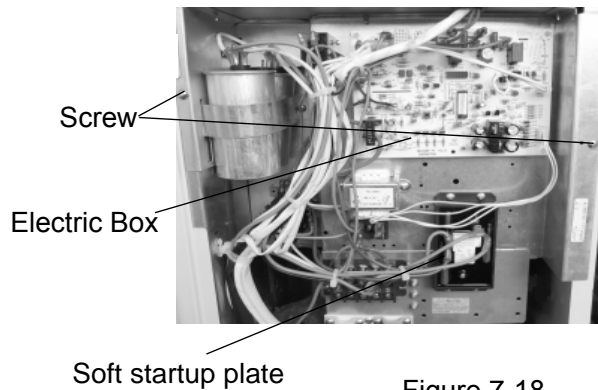


Figure 7-18

7. 2. 6 ||||| Disassemble Right Side Plate

Use screwdriver to screw off the 7 screws at the right side plate, condenser side plate and valve support, and then pull the right side plate sub-assy upward to remove it.

(refer to Figure 7-19)

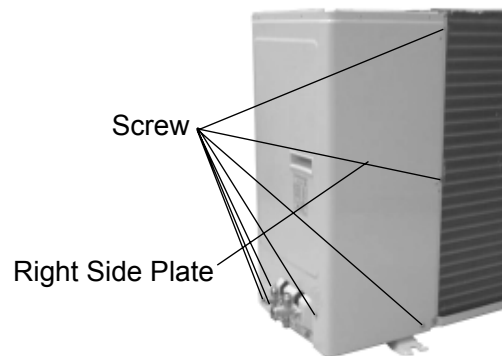


Figure 7-19

7. 2. 7 ||||| Disassemble Axial Flow Fan

Use spanner to remove the nut at the fan to remove the axial flow fan.
(refer to Figure 7-20)

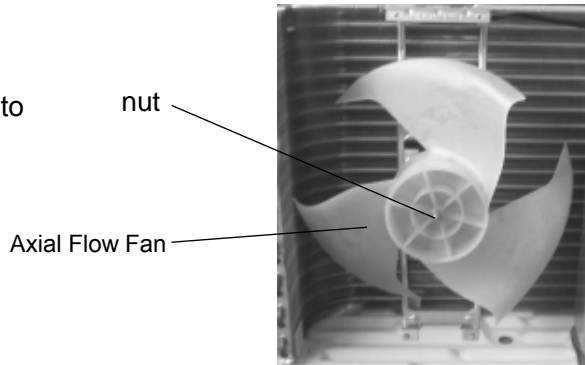


Figure 7-20

7. 2. 8 ||||| Disassemble Outdoor Motor

Screw off the four tapping screws fixing the motor, pull out the motor lead-out cable plug, and remove the motor. Screw off the two tapping screws fixing the motor support, and pull the motor support upward to remove it.
(refer to Figure 7-21)

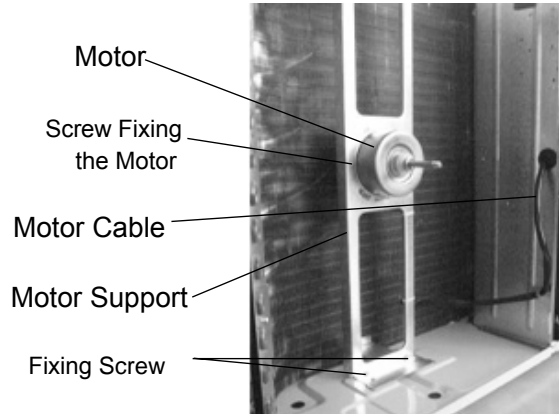


Figure 7-21

7. 2. 9 ||||| Disassemble 4-Way Valve
(cooling only unit has not 4-way valve)

Screw off the holding nut of the 4-way valve coil and remove the coil. Use wet cotton cloth to wrap the 4-way valve, unsold the four soldering points connecting the 4-way valve, and remove the 4-way valve. Be quick during the unsoldering process, pay attention to keep the wrapping cloth wet and do not allow the soldering flame to burn the compressor lead-out cable.

(refer to Figure 7-22)

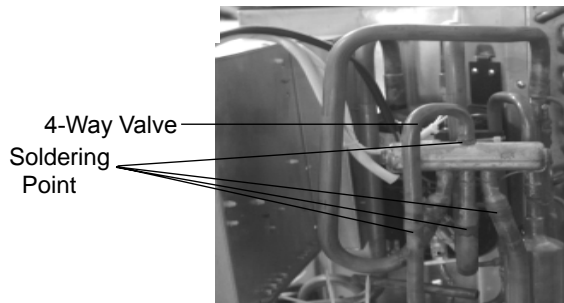


Figure 7-22

Operating Procedures / Photos

7. 2. 10 ||||| Disassemble Capillary

Unsold the soldering points at the capillary, the valve and the condenser to remove the capillary. Pay attention not to allow the soldering slag to block the capillary.

(refer to Figure 7-23)

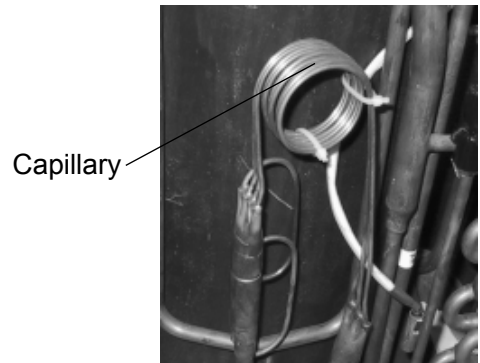


Figure 7-23

7. 2. 11 ||||| Disassemble Valves

Screw out the 2 bolts that fixing big valve, unsolder the soldered dot connecting big valve with gas return pipe to take off big valve.

(Note: When soldering the soldered dot, wrap big valve completely by moist cloth to prevent valve from damaging by high temperature.)

Screw out the 2 bolts that fixing small valve, unsolder the soldered dot that connected small valve and Y-shape pipe to take off small valve.

(refer to Figure 7-24)

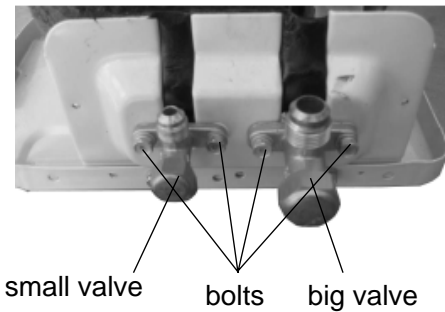


Figure 7-24

7. 2. 12 ||||| Disassemble Compressor

Unsold the pipeline that connected with compressor first, then take off the 3 nuts on feet of compressor to take off compressor.

(refer to Figure 7-25)

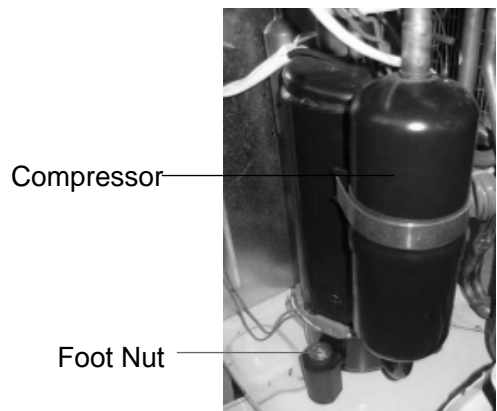
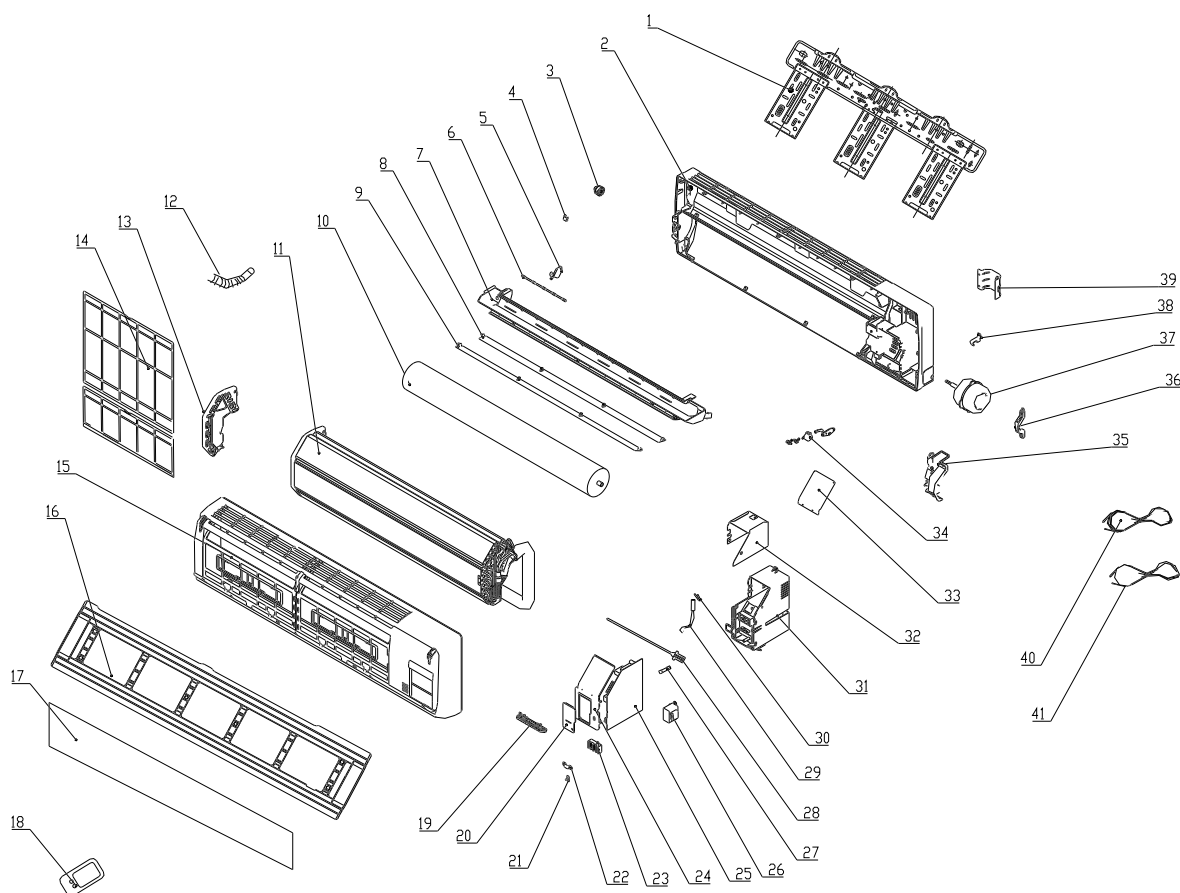


Figure 7-25

8 Exploded View and Components and Parts List

8.1 Exploded View of Components and Parts of Indoor Unit

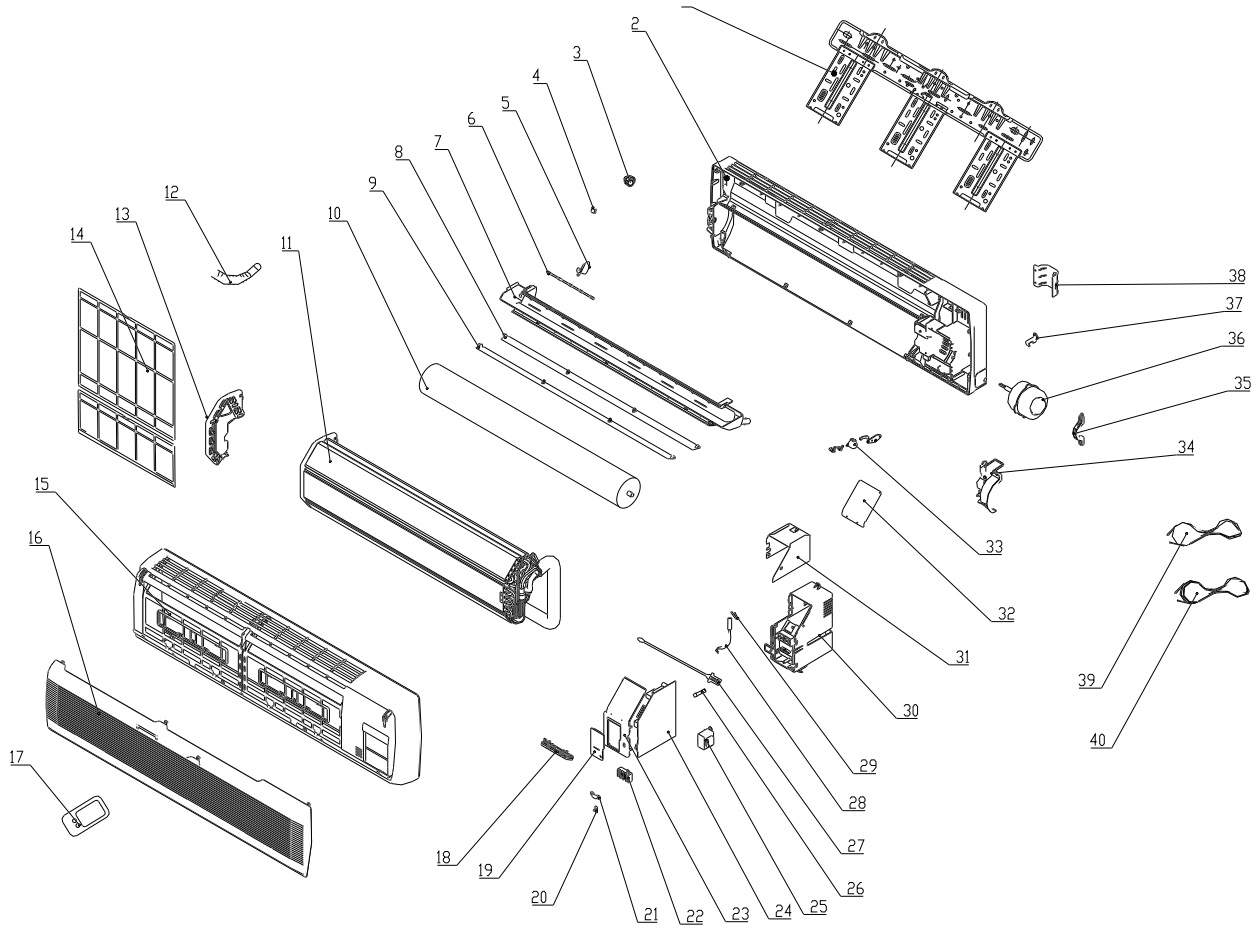


8.2 Components and Parts List of Indoor Unit

| No | Description | Part Code | | Qty |
|----|------------------------------|----------------|----------------|-----|
| | | GWCN24C1ND1BAI | GWCN24C1NK1BAI | |
| 1 | Wall-Mounting Frame | 01252398 | 01252398 | 1 |
| 2 | Rear Case | 22202040 | 22202040 | 1 |
| 3 | Fan Bearing | 76512203 | 76512203 | 1 |
| 4 | Screw Cover | 242520053 | 242520053 | 3 |
| 5 | Swing Louver | 10512030 | 10512030 | 15 |
| 6 | Swing Link | 10582040 | 10582040 | 3 |
| 7 | Water Tray | 20182043 | 20182043 | 1 |
| 8 | Guide Louver(up) | 10512062 | 10512062 | 1 |
| 9 | Guide Louver(down) | 10512063 | 10512063 | 1 |
| 10 | Cross Flow Fan | 10352420 | 10352420 | 1 |
| 11 | Evaporator Assy | 010041291 | 010041291 | 1 |
| 12 | Drainage Pipe | 05232411 | 05232411 | 1 |
| 13 | Evaporator Support(left) | 24212041 | 24212041 | 1 |
| 14 | Filter | 11122051 | 11122051 | 2 |
| 15 | Front Case | 20002572 | 20002572 | 1 |
| 16 | Front Panel | 20002698 | 20002698 | 1 |
| 17 | Front Panel A | 22432258 | 22432258 | 1 |
| 18 | Remote Controller Y512 | 305125063 | 305125063 | 1 |
| 19 | Receiver Board JD | 30046093 | 30046093 | 1 |
| 20 | Electric Box Cover | 20102252 | 20102252 | 1 |
| 21 | Switch Lever | 10582007 | 10582007 | 1 |
| 22 | Wire Clamp | 71010103 | 71010103 | 1 |
| 23 | Terminal Board T4B3A | 42011233 | 42011233 | 1 |
| 24 | Electric Box Cover | 20102251 | 20102251 | 1 |
| 25 | Main PCB | 30055016 | 30035302 | 1 |
| 26 | Transformer 48X26G | 43110233 | 43110233 | 1 |
| 27 | Fuse 3.15A 250VAC | 46010014 | 46010014 | 1 |
| 28 | Room Sensor | 390000451 | 390000451 | 1 |
| 29 | Tube Sensor | 3900012128 | 390000591 | 1 |
| 30 | Sensor Insert | 42020063 | 42020063 | 1 |
| 31 | Electric Box | 20102250 | 20102250 | 1 |
| 32 | Lower Shield of Electric Box | 01592034 | 01592034 | 1 |
| 33 | Upper Shield of Electric Box | 01592033 | 01592033 | 1 |
| 34 | Stepping Motor MP24GA | 15212102 | 15212102 | 1 |
| 35 | Evaporator Support(right) | 24212042 | 24212042 | 1 |
| 36 | Motor Clamp | 26112069 | 26112069 | 1 |
| 37 | Motor FN25D | 15012107 | 15012105 | 1 |
| 38 | Fixer(evaporator) | 02112009 | 02112009 | 1 |
| 39 | Pipe Clamp | 26112071 | 26112071 | 1 |
| 40 | Connecting Cable | / | 400205235 | 1 |
| 41 | Connecting Cable | 400205405 | 400205405 | 1 |

| No | Description | Part Code | | Qty |
|----|------------------------------|-----------------|-----------------|-----|
| | | GWHN24C1NK1BA/I | GWCN28C1TK1AA/I | |
| 1 | Wall-Mounting Frame | 01252398 | 01252398 | 1 |
| 2 | Rear Case | 22202040 | 22202040 | 1 |
| 3 | Fan Bearing | 76512203 | 76512203 | 1 |
| 4 | Screw Cover | 242520053 | 242520053 | 3 |
| 5 | Swing Louver | 10512030 | 10512030 | 15 |
| 6 | Swing Link | 10582040 | 10582040 | 3 |
| 7 | Water Tray | 20182043 | 20182043 | 1 |
| 8 | Guide Louver (up) | 10512062 | 10512062 | 1 |
| 9 | Guide Louver (down) | 10512063 | 10512063 | 1 |
| 10 | Cross Flow Fan | 10352420 | 10352420 | 1 |
| 11 | Evaporator Assy | 010041291 | 010041291 | 1 |
| 12 | Drainage Pipe | 05232411 | 05232411 | 1 |
| 13 | Evaporator Support (left) | 24212041 | 24212041 | 1 |
| 14 | Filter | 11122051 | 11122051 | 2 |
| 15 | Front Case | 20002572 | 20002572 | 1 |
| 16 | Front Panel | 20002698 | 20002698 | 1 |
| 17 | Front Panel A | 22432258 | 22432258 | 1 |
| 18 | Remote Controller Y512 | 305125063 | 305125063 | 1 |
| 19 | Receiver Board JD | 30046093 | 30046093 | 1 |
| 20 | Electric Box Cover | 20102252 | 20102252 | 1 |
| 21 | Switch Lever | 10582007 | 10582007 | 1 |
| 22 | Wire Clamp | 71010103 | 71010103 | 1 |
| 23 | Terminal Board T4B3A | 42011233 | 42011233 | 1 |
| 24 | Electric Box Cover | 20102251 | 20102251 | 1 |
| 25 | Main PCB | 30055015 | 30035302 | 1 |
| 26 | Transformer SC28B5 | 43110204 | 43110233 | 1 |
| 27 | Fuse 3.15A 250VAC | 46010014 | 46010014 | 1 |
| 28 | Room Sensor | 390000451 | 390000451 | 1 |
| 29 | Tube Sensor | 390000591 | 390000591 | 1 |
| 30 | Sensor Insert | 42020063 | 42020063 | 1 |
| 31 | Electric Box | 20102250 | 20102250 | 1 |
| 32 | Lower Shield of Electric Box | 01592034 | 01592034 | 1 |
| 33 | Upper Shield of Electric Box | 01592033 | 01592033 | 1 |
| 34 | Stepping Motor MP24GA | 15212102 | 15212102 | 1 |
| 35 | Evaporator Support (rihgt) | 24212042 | 24212042 | 1 |
| 36 | Motor Clamp | 26112069 | 26112069 | 1 |
| 37 | Motor FN25D | 15012105 | 15012105 | 1 |
| 38 | Fixer(evaporator) | 02112009 | 02112009 | 1 |
| 39 | Pipe Clamp | 26112071 | 26112071 | 1 |
| 40 | Connecting Cable | 400205237 | 400205235 | 1 |
| 41 | Connecting Cable | 400205405 | 400205405 | 1 |

8.3 Exploded View of Components and Parts of Indoor Unit



8. 4 Components and Parts List of Indoor Unit

| No | Description | Part Code | | | Qty |
|----|------------------------------|----------------|----------------|----------------|-----|
| | | GWHN28C1NK3AAI | GWCN28C1NK3AAI | GWHN24C1NK3AAI | |
| 1 | Wall-Mounting Frame | 01252398 | 01252398 | 01252398 | 1 |
| 2 | Rear Case | 22202040 | 22202040 | 22202040 | 1 |
| 3 | Fan Bearing | 76512203 | 76512203 | 76512203 | 1 |
| 4 | Screw Cover | 242520053 | 242520053 | 242520053 | 3 |
| 5 | Swing Louver | 10512030 | 10512030 | 10512030 | 15 |
| 6 | Swing Link | 10582040 | 10582040 | 10582040 | 3 |
| 7 | Water Tray | 20182043 | 20182043 | 20182043 | 1 |
| 8 | Guide Louver (up) | 10512062 | 10512062 | 10512062 | 1 |
| 9 | Guide Louver (down) | 10512063 | 10512063 | 10512063 | 1 |
| 10 | Cross Flow Fan | 10352420 | 10352420 | 10352420 | 1 |
| 11 | Evaporator Assy | 010041291 | 010041291 | 010041299 | 1 |
| 12 | Drainage Pipe | 05232411 | 05232411 | 0523001401 | 1 |
| 13 | Evaporator Support (left) | 24212041 | 24212041 | 24212041 | 1 |
| 14 | Filter | 11122051 | 11122051 | 11122051 | 2 |
| 15 | Front Case | 20002572 | 20002572 | 20002923 | 1 |
| 16 | Front Panel | 20002375 | 20002375 | 20002375 | 1 |
| 17 | Remote Controller Y512 | 305125063 | 305125063 | 305125063 | 1 |
| 18 | Receiver Board JD | 30046093 | 30046093 | 30046093 | 1 |
| 19 | Electric Box Cover | 20102252 | 20102252 | 20102252 | 1 |
| 20 | Switch Lever | 10582007 | 10582007 | 10582007 | 1 |
| 21 | Wire Clamp | 71010103 | 71010103 | 71010103 | 1 |
| 22 | Terminal Board T4B3A | 42011233 | 42011233 | 42011233 | 1 |
| 23 | Electric Box Cover | 20102251 | 20102251 | 20102251 | 1 |
| 24 | Main PCB | 30030303 | 30035302 | 30030303 | 1 |
| 25 | Transformer 48X26G | 43110233 | 43110233 | 43110233 | 1 |
| 26 | Fuse 3.15A 250VAC | 46010014 | 46010014 | 46010014 | 1 |
| 27 | Room Sensor | 390000451 | 390000451 | 390000451 | 1 |
| 28 | Tube Sensor | 390000591 | 390000591 | 390000591 | 1 |
| 29 | Sensor Insert | 42020063 | 42020063 | 42020063 | 1 |
| 30 | Electric Box | 20102250 | 20102250 | 20102250 | 1 |
| 31 | Lower Shield of Electric Box | 01592034 | 01592034 | 01592034 | 1 |
| 32 | Upper Shield of Electric Box | 01592033 | 01592033 | 01592033 | 1 |
| 33 | Stepping Motor MP24GA | 15212102 | 15212102 | 15212102 | 1 |
| 34 | Evaporator Support (rihgt) | 24212042 | 24212042 | 24212042 | 1 |
| 35 | Motor Clamp | 26112069 | 26112069 | 26112069 | 1 |
| 36 | Motor FN25D | 15012105 | 15012105 | 15012105 | 1 |
| 37 | Fixer(evaporator) | 02112009 | 02112009 | 02112009 | 1 |
| 38 | Pipe Clamp | 26112071 | 26112071 | 26112071 | 1 |
| 39 | Connecting Cable | 400205235 | 400205235 | 400205235 | 1 |
| 40 | Connecting Cable | 400205405 | 400205405 | 40020318 | 1 |

Fengyun Series

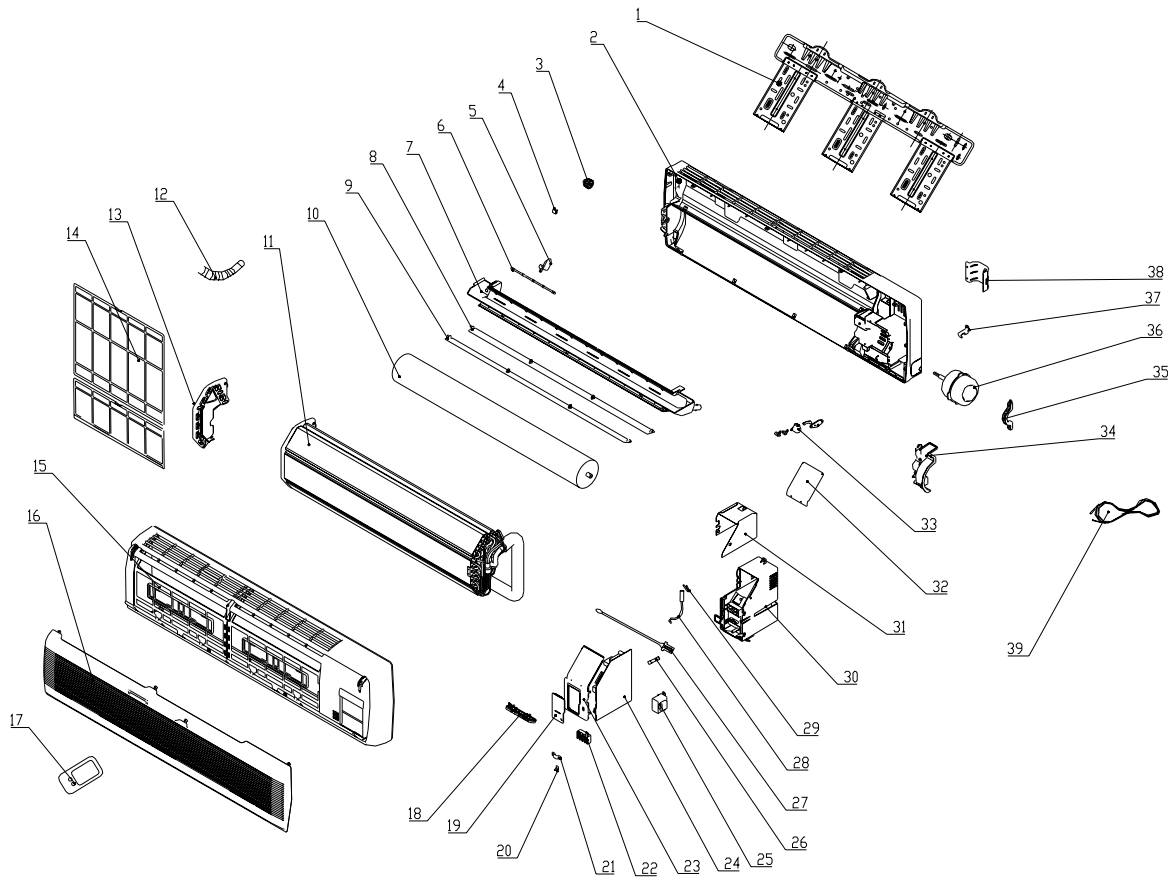
| No | Description | Part Code | | | Qty |
|----|------------------------------|-----------------|-----------------|-----------------|-----|
| | | GWCN28C1TD1AA/I | GWHN28C1TD1AA/I | GWHN24C1NK3AB/I | |
| 1 | Wall-Mounting Frame | 01252398 | 01252398 | 01252398 | 1 |
| 2 | Rear Case | 22202040 | 22202040 | 22202040 | 1 |
| 3 | Fan Bearing | 76512203 | 76512203 | 76512203 | 1 |
| 4 | Screw Cover | 242520053 | 242520053 | 242520053 | 3 |
| 5 | Swing Louver | 10512030 | 10512030 | 10512030 | 15 |
| 6 | Swing Link | 10582040 | 10582040 | 10582040 | 3 |
| 7 | Water Tray | 20182043 | 20182043 | 20182043 | 1 |
| 8 | Guide Louver(up) | 10512062 | 10512062 | 10512062 | 1 |
| 9 | Guide Louver(down) | 10512063 | 10512063 | 10512063 | 1 |
| 10 | Cross Flow Fan | 10352420 | 10352420 | 10352420 | 1 |
| 11 | Evaporator Assy | 010041291 | 010041291 | 0100412910 | 1 |
| 12 | Drainage Pipe | 05232411 | 05232411 | 05232411 | 1 |
| 13 | Evaporator Support(left) | 24212041 | 24212041 | 24212041 | 1 |
| 14 | Filter | 11122051 | 11122051 | 11122051 | 2 |
| 15 | Front Case | 20002572 | 20002572 | 20002572 | 1 |
| 16 | Front Panel | 20002375 | 20002375 | 20002375 | 1 |
| 17 | Remote Controller Y512 | 305125063 | 305125063 | 305125063 | 1 |
| 18 | Receiver Board JD | 30046093 | 30046093 | 30046093 | 1 |
| 19 | Electric Box Cover | 20102252 | 20102252 | 20102252 | 1 |
| 20 | Switch Lever | 10582007 | 10582007 | 10582007 | 1 |
| 21 | Wire Clamp | 71010103 | 71010103 | 71010103 | 1 |
| 22 | Terminal Board T4B3A | 42011233 | 42011233 | 42011233 | 1 |
| 23 | Electric Box Cover | 20102251 | 20102251 | 20102251 | 1 |
| 24 | Main PCB | 30035302 | 30030303 | 30030303 | 1 |
| 25 | Transformer 48X26G | 43110233 | 43110233 | 43110233 | 1 |
| 26 | Fuse 3.15A 250VAC | 46010014 | 46010014 | 46010014 | 1 |
| 27 | Room Sensor | 390000451 | 390000451 | 390000451 | 1 |
| 28 | Tube Sensor | 390000591 | 390000591 | 390000591 | 1 |
| 29 | Sensor Insert | 42020063 | 42020063 | 42020063 | 1 |
| 30 | Electric Box | 20102250 | 20102250 | 20102250 | 1 |
| 31 | Lower Shield of Electric Box | 01592034 | 01592034 | 01592034 | 1 |
| 32 | Upper Shield of Electric Box | 01592033 | 01592033 | 01592033 | 1 |
| 33 | Stepping Motor MP24GA | 15212102 | 15212102 | 15212102 | 1 |
| 34 | Evaporator Support(right) | 24212042 | 24212042 | 24212042 | 1 |
| 35 | Motor Clamp | 26112069 | 26112069 | 26112069 | 1 |
| 36 | Motor FN25C | 15012107 | 15012107 | 15012105 | 1 |
| 37 | Fixer(evaporator) | 02112009 | 02112009 | 02112009 | 1 |
| 38 | Pipe Clamp | 26112071 | 26112071 | 26112071 | 1 |
| 39 | Connecting Cable | 400205235 | 400205235 | 400205235 | 1 |
| 40 | Connecting Cable | 400205405 | 400205405 | 40020318 | 1 |

The above data are subject to change without notice.

| No | Description | Part Code | Qty |
|----|------------------------------|----------------|-----|
| | | GWCN24C1NK3AAI | |
| 1 | Wall-Mounting Frame | 01252398 | 1 |
| 2 | Rear Case | 22202040 | 1 |
| 3 | Fan Bearing | 76512203 | 1 |
| 4 | Screw Cover | 242520053 | 3 |
| 5 | Swing Louver | 10512030 | 15 |
| 6 | Swing Link | 10582040 | 3 |
| 7 | Water Tray | 20182043 | 1 |
| 8 | Guide Louver(up) | 10512062 | 1 |
| 9 | Guide Louver(down) | 10512063 | 1 |
| 10 | Cross Flow Fan | 10352420 | 1 |
| 11 | Evaporator Assy | 010041299 | 1 |
| 12 | Drainage Pipe | 0523001401 | 1 |
| 13 | Evaporator Support(left) | 24212041 | 1 |
| 14 | Filter | 11122051 | 2 |
| 15 | Front Case | 20002923 | 1 |
| 16 | Front Panel | 20002375 | 1 |
| 17 | Remote Controller Y512 | 305125063 | 1 |
| 18 | Receiver Board JD | 30046093 | 1 |
| 19 | Electric Box Cover | 20102252 | 1 |
| 20 | Switch Lever | 10582007 | 1 |
| 21 | Wire Clamp | 71010103 | 1 |
| 22 | Terminal Board T4B3A | 42011233 | 1 |
| 23 | Electric Box Cover | 20102251 | 1 |
| 24 | Main PCB | 30035302 | 1 |
| 25 | Transformer 48X26G | 43110233 | 1 |
| 26 | Fuse 3.15A 250VAC | 46010014 | 1 |
| 27 | Room Sensor | 390000451 | 1 |
| 28 | Tube Sensor | 390000591 | 1 |
| 29 | Sensor Insert | 42020063 | 1 |
| 30 | Electric Box | 20102250 | 1 |
| 31 | Lower Shield of Electric Box | 01592034 | 1 |
| 32 | Upper Shield of Electric Box | 01592033 | 1 |
| 33 | Stepping Motor MP24GA | 15212102 | 1 |
| 34 | Evaporator Support(right) | 24212042 | 1 |
| 35 | Motor Clamp | 26112069 | 1 |
| 36 | Motor FN25C | 15012105 | 1 |
| 37 | Fixer(evaporator) | 02112009 | 1 |
| 38 | Pipe Clamp | 26112071 | 1 |
| 39 | Connecting Cable | 400205235 | 1 |
| 40 | Connecting Cable | 40020318 | 1 |

The above data are subject to change without notice.

8.5 Exploded View of Components and Parts of Indoor Unit



8. 6 Components and Parts List of Indoor Unit

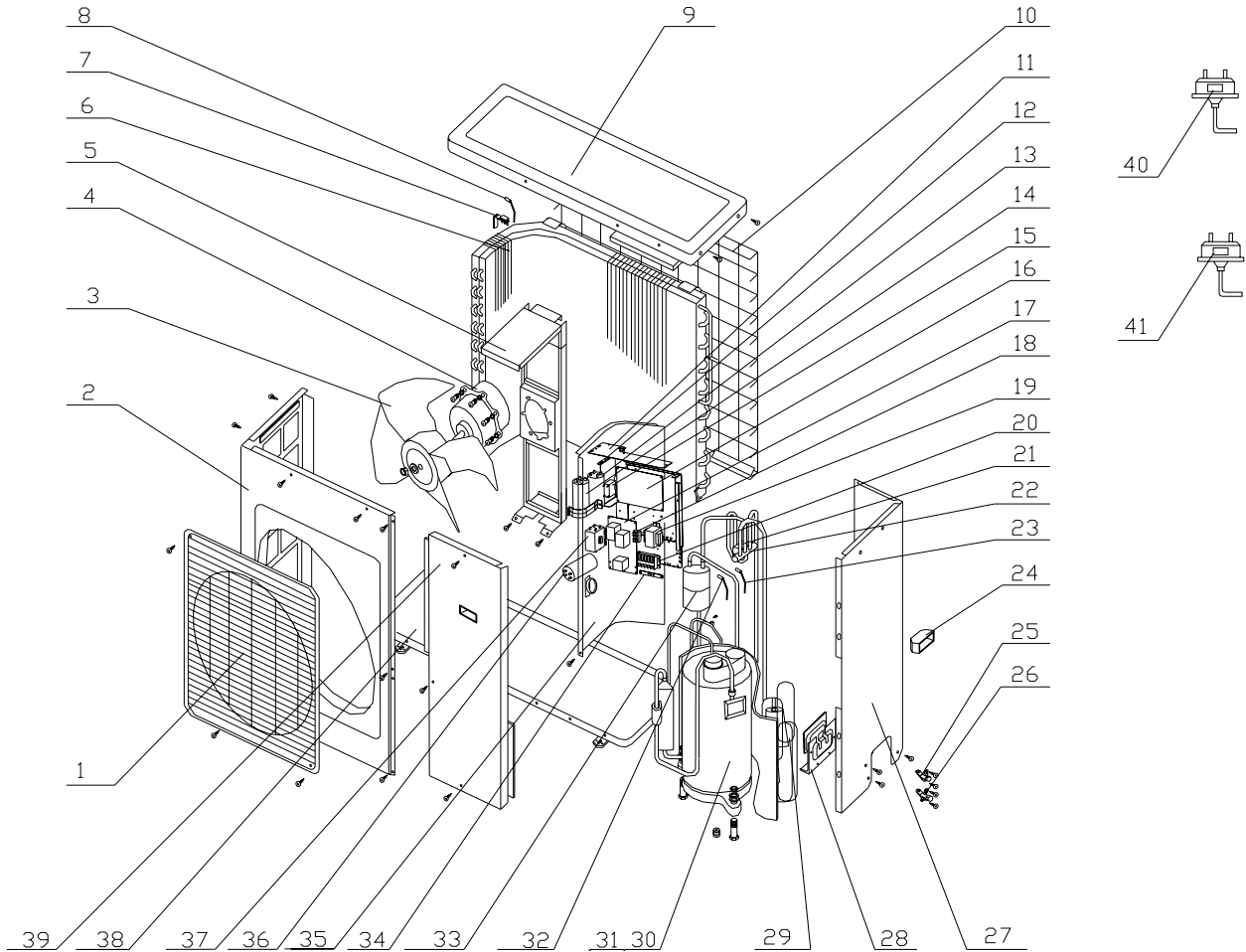
| No | Description | Part Code | | | Qty |
|----|------------------------------|-----------------|-----------------|-----------------|-----|
| | | GWCN24C1ND1AA/I | GWHN24C1ND1AA/I | GWCN24C1NK1AA/I | |
| 1 | Wall-Mounting Frame | 01252398 | 01252398 | 01252398 | 1 |
| 2 | Rear Case | 22202040 | 22202040 | 22202040 | 1 |
| 3 | Fan Bearing | 76512203 | 76512203 | 76512203 | 1 |
| 4 | Screw Cover | 242520053 | 242520053 | 242520053 | 3 |
| 5 | Swing Louver | 10512030 | 10512030 | 10512030 | 15 |
| 6 | Swing Link | 10582040 | 10582040 | 10582040 | 3 |
| 7 | Water Tray | 20182043 | 20182043 | 20182043 | 1 |
| 8 | Guide Louver (up) | 10512062 | 10512062 | 10512062 | 1 |
| 9 | Guide Louver (down) | 10512063 | 10512063 | 10512063 | 1 |
| 10 | Cross Flow Fan | 10352420 | 10352420 | 10352420 | 1 |
| 11 | Evaporator Assy | 010041291 | 010041291 | 010041291 | 1 |
| 12 | Drainage Pipe | 05232411 | 05232411 | 05232411 | 1 |
| 13 | Evaporator Support (left) | 24212041 | 24212041 | 24212041 | 1 |
| 14 | Filter | 11122051 | 11122051 | 11122051 | 2 |
| 15 | Front Case | 20002572 | 20002572 | 20002923 | 1 |
| 16 | Front Panel | 20002375 | 20002375 | 20002375 | 1 |
| 17 | Remote Controller Y512 | 30512506 | 30512506 | 30512506 | 1 |
| 18 | Receiver Board JD | 30046093 | 30046093 | 30046093 | 1 |
| 19 | Electric Box Cover | 20102252 | 20102252 | 20102252 | 1 |
| 20 | Switch Lever | 10582007 | 10582007 | 10582007 | 1 |
| 21 | Wire Clamp | 71010103 | 71010103 | 71010103 | 1 |
| 22 | Terminal Board T4B3A | 42011233 | 42011233 | 42011233 | 1 |
| 23 | Electric Box Cover | 20102357 | 20102357 | 20102357 | 1 |
| 24 | Main PCB | 30035302 | 30030302 | 30035302 | 1 |
| 25 | Transformer 48X26G | 43110233 | 43110233 | 43110233 | 1 |
| 26 | Fuse T5AL 250V | 46010013 | 6010014 | 46010014 | 1 |
| 27 | Room Sensor | 390000451 | 390000451 | 390000451 | 1 |
| 28 | Tube Sensor | 390000591 | 390000591 | 390000591 | 1 |
| 29 | Sensor Insert | 42020063 | 42020063 | 42020063 | 1 |
| 30 | Electric Box | 20102250 | 20102250 | 20102250 | 1 |
| 31 | Lower Shield of Electric Box | 01592034 | 01592034 | 01592034 | 1 |
| 32 | Upper Shield of Electric Box | 01592033 | 01592033 | 01592033 | 1 |
| 33 | Stepping Motor MP24GA | 15212102 | 15212102 | 15212102 | 1 |
| 34 | Evaporator Support (rihgt) | 24212042 | 24212042 | 24212042 | 1 |
| 35 | Motor Clamp | 26112069 | 26112069 | 26112069 | 1 |
| 36 | Motor FN26C | 150121072 | 150121072 | 150121053 | 1 |
| 37 | Fixer(evaporator) | 02112009 | 02112009 | 02112009 | 1 |
| 38 | Pipe Clamp | 26112071 | 26112071 | 26112071 | 1 |
| 39 | Connecting Cable | 400205237 | 400205237 | 400205235 | 1 |

Fengyun Series

| No | Description | Part Code | | | Qty |
|----|------------------------------|----------------|----------------|----------------|-----|
| | | GWCN28C1ND1AAI | GWHN28C1ND1AAI | GWHN24C1NK1AAI | |
| 1 | Wall-Mounting Frame | 01252398 | 01252398 | 01252398 | 1 |
| 2 | Rear Case | 22202040 | 22202040 | 22202040 | 1 |
| 3 | Fan Bearing | 76512203 | 76512203 | 76512203 | 1 |
| 4 | Screw Cover | 242520053 | 242520053 | 242520053 | 3 |
| 5 | Swing Louver | 10512030 | 10512030 | 10512030 | 15 |
| 6 | Swing Link | 10582040 | 10582040 | 10582040 | 3 |
| 7 | Water Tray | 20182043 | 20182043 | 20182043 | 1 |
| 8 | Guide Louver (up) | 10512062 | 10512062 | 10512062 | 1 |
| 9 | Guide Louver (down) | 10512063 | 10512063 | 10512063 | 1 |
| 10 | Cross Flow Fan | 10352420 | 10352420 | 10352420 | 1 |
| 10 | Cross Flow Fan | 10352420 | 10352420 | 10352420 | 1 |
| 11 | Evaporator Assy | 010041293 | 010041293 | 010027302 | 1 |
| 12 | Drainage Pipe | 05232411 | 05232411 | 0523001401 | 1 |
| 13 | Evaporator Support (left) | 24212041 | 24212041 | 24212041 | 1 |
| 14 | Filter | 11122051 | 11122051 | 11122051 | 2 |
| 15 | Front Case | 20002923 | 20002923 | 20002923 | 1 |
| 16 | Front Panel | 20002375 | 20002370 | 20002375 | 1 |
| 17 | Remote Controller Y512 | 30512506 | 30512506 | 30512506 | 1 |
| 18 | Receiver Board JD | 30046093 | 30046093 | 30046093 | 1 |
| 19 | Electric Box Cover | 20102252 | 20102252 | 20102252 | 1 |
| 20 | Switch Lever | 10582007 | 10582007 | 10582007 | 1 |
| 21 | Wire Clamp | 71010103 | 71010103 | 71010103 | 1 |
| 22 | Terminal Board T4B3A | 42011233 | 42011233 | 42011233 | 1 |
| 23 | Electric Box Cover | 20102357 | 20102357 | 20102357 | 1 |
| 24 | Main PCB | 30035302 | 30055015 | 30030303 | 1 |
| 24 | Main PCB | 30055016 | | | 1 |
| 25 | Transformer 48X26G | 43110233 | 43110233 | 43110233 | 1 |
| 26 | Fuse T5AL 250V | 46010013 | 46010014 | 46010014 | 1 |
| 27 | Room Sensor | 390000451 | 390000451 | 390000451 | |
| 28 | Tube Sensor | 390000591 | 390000591 | 390000591 | 1 |
| 29 | Sensor Insert | 42020063 | 42020063 | 42020063 | 1 |
| 30 | Electric Box | 20102250 | 20102250 | 20102250 | 1 |
| 31 | Lower Shield of Electric Box | 01592034 | 01592034 | 01592034 | 1 |
| 32 | Upper Shield of Electric Box | 01592033 | 01592033 | 01592033 | 1 |
| 33 | Stepping Motor MP24GA | 15212102 | 15212102 | 15212102 | 1 |
| 34 | Evaporator Support | 24212042 | 24212042 | 24212042 | 1 |
| 35 | Motor Clamp | 26112069 | 26112069 | 26112069 | 1 |
| 36 | Motor FN25C | 15012107 | 15012107 | 150121053 | 1 |
| 37 | Fixer(evaporator) | 02112009 | 02112009 | 02112009 | 1 |
| 38 | Pipe Clamp | 26112071 | 26112071 | 26112071 | 1 |
| 39 | Connecting Cable | 400205237 | 400205237 | 400205235 | 1 |

The above data are subject to change without notice.

8.7 Exploded View of Components and Parts of Outdoor Unit



8.8 Components and Parts List of Outdoor Unit

| No | Description | Part Code | | | Qty |
|----|----------------------------|-----------------|-----------------|-----------------|-----|
| | | GWCN24C1ND1BA/O | GWCN24C1NK1BA/O | GWHN24C1NK1BA/I | |
| 1 | Front Grill | 22415001 | 22265251 | 22265251 | 1 |
| 2 | Front Plate | 01433031 | 01435254 | 01435254 | 1 |
| 3 | Axial Flow Fan | 10335257 | 10335253 | 10335253 | 1 |
| 4 | Motor LW80C | 15013062 | 15013106 | 15013106 | 1 |
| 5 | Motor Support | 01703027 | 01705253 | 01705253 | 1 |
| 6 | Condenser Assy | 01103811 | 01103792 | 01103904 | 1 |
| 7 | Temp Sensor Support | 24215101 | 24215101 | 24215101 | 1 |
| 8 | Ambient Sensor | 390002065 | 390002065 | 390002065 | 1 |
| 9 | Top Cover | 01255262 | 01255262 | 01255262 | 1 |
| 10 | Rear Grill | 01473028 | 01475252 | 01475252 | 1 |
| 11 | upper Electric box cover | 01413076 | 01413076 | 01413076 | 1 |
| 12 | Electric Plate | 0140337610 | 0140337610 | 0140337612 | 1 |
| 13 | Capacitor CBB65 50uF/450V | 33000001 | 33000001 | 33000001 | 1 |
| 14 | Capacitor CBB65 60uF/450V | | | 33000039 | 1 |
| 15 | Capacitor CBB61 3.5uF/450V | 33010010 | 33010010 | 33010010 | 1 |
| 16 | Main PCB | 30035303 | 30035303 | 30030302 | 1 |
| 17 | Soft Start Device | | | 30116036 | 1 |
| 18 | Terminal Board 2-8 | 42011103 | 42011103 | 42011103 | 1 |
| 19 | Transformer 57X30G | 43110232 | 43110232 | 43110204 | 1 |
| 20 | Terminal Board | 42010258 | 42010258 | 42010258 | 1 |
| 21 | 4-way Valve Coil | / | / | 430004002 | 1 |
| 22 | 4-way Valve | / | / | 43000404 | 1 |
| 23 | Temp Sensor | 3900012128 | 390001921 | 390001921 | 1 |
| 24 | Handle | 26235253 | 26235253 | 26235253 | 1 |
| 25 | Gas Valve Assy 5/8" | 071052521 | 07105252 | 07105252 | 1 |
| 26 | Liquid Valve Assy 3/8" | 07105256 | 07105256 | 07105256 | 1 |
| 27 | Rear Side Plate | 01305026 | 01305260 | 01305260 | 1 |
| 28 | Valve Support | 01715256 | 01715256 | 01715256 | 1 |
| 29 | Capillary Assy | 03103317 | 03103300 | 03103334 | 1 |
| 30 | Compressor SHV33YE6UU | 00100150 | 00100144 | 00100144 | 1 |
| 31 | Overload Protector | / | / | / | 1 |
| 32 | Temp Sensor | / | / | / | 1 |
| 33 | Gas-liquid Separator | | | 07255251 | 1 |
| 34 | Isolation Washer C | 70410523 | 70410523 | 70410523 | 1 |
| 35 | Clapboard | 01233024 | 01233019 | 01233019 | 1 |
| 36 | Capacitor | | | 33010603 | 1 |
| 37 | AC Contactor CJX9B-25S/D | 44010245 | 44010245 | 44010245 | 1 |
| 38 | Metal Base | 01203558 | 01205105 | 01205105 | 1 |
| 39 | Front Side Plate | 01303092 | 01305247 | 01305247 | 1 |
| 40 | Low Pressure Switch | / | / | / | 1 |
| 41 | Pressure Switch | 46020003 | 46020011 | 46020011 | 1 |

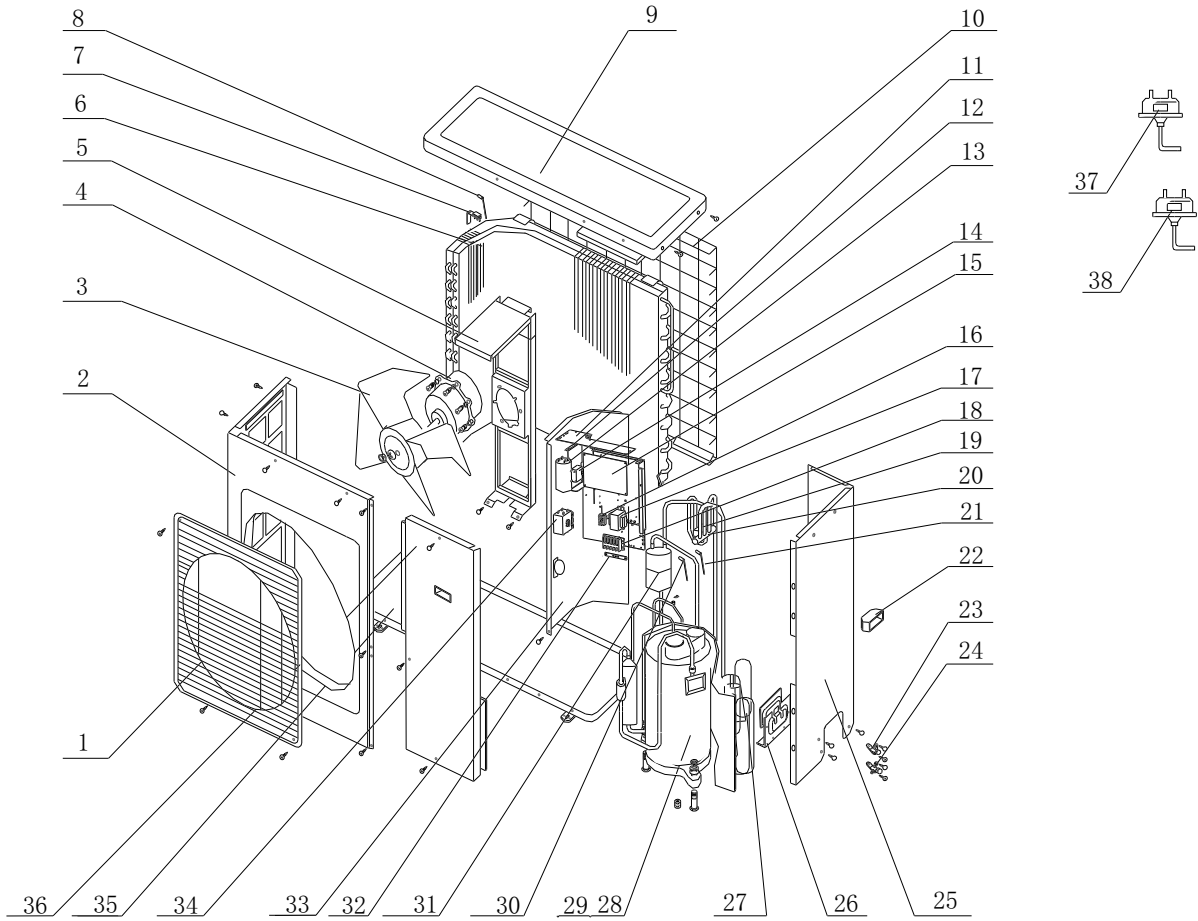
| No | Description | Part Code | | | Qty |
|----|------------------------------------|----------------|----------------|----------------|-----|
| | | GWCN24C1ND1AAO | GWHN24C1ND1AAO | GWCN24C1NK1AAO | |
| 1 | Front Grill | 22265251 | 22265251 | 22265251 | 1 |
| 2 | Front Plate | 01435401 | 01435251 | 01435254 | 1 |
| 3 | Axial Flow Fan | 10335254 | 10335254 | 10335253 | 1 |
| 4 | Motor FW60L | 15013063 | 15013063 | 15013106 | 1 |
| 5 | Motor Support | 01705253 | 01705253 | 01705253 | 1 |
| 6 | Condenser Assy | 011036793 | 011036792 | 011036795 | 1 |
| 7 | Temp Sensor Support | 24215101 | 24215101 | 24215101 | 1 |
| 8 | Ambient Sensor | 390002065 | 390002065 | 390002064 | 1 |
| 9 | Top Cover | 01255262 | 01255262 | 01255262 | 1 |
| 10 | Rear Grill | 01475252 | 01475252 | 01475252 | 1 |
| 11 | upper Electric box cover | 01413076 | 01413076 | 01413076 | 1 |
| 12 | Electric Plate | 014033763 | 014033762 | 01403377 | 1 |
| 13 | Capacitor CBB65 40uF/450V | 33000022 | 33000022 | 33000039 | 1 |
| 14 | Capacitor CBB65 50uF/450V | / | / | 33000039 | 1 |
| 15 | Capacitor CBB61 3.5uF/450V | 33010010 | 33010010 | 33010010 | 1 |
| 16 | Main PCB | 30035303 | 30035303 | 30035303 | 1 |
| 17 | Soft Start Device | / | / | 30116036 | 1 |
| 18 | Terminal Board 2-8 | 42011103 | 42011103 | 42011103 | 1 |
| 19 | Transformer 57X30G | 43110232 | 43110232 | 43110232 | 1 |
| 20 | Terminal Board | 42010258 | 42010258 | 42010258 | 1 |
| 21 | 4-way Valve Coil | / | 430004002 | / | 1 |
| 22 | 4-way Valve | / | 43000404 | / | 1 |
| 23 | Temp Sensor | 390001921 | 390001921 | 390001921 | 1 |
| 24 | Handle | 26235253 | 26235253 | 26235253 | 1 |
| 25 | Gas Valve Assy 5/8" | 07105252 | 07105252 | 07105252 | 1 |
| 26 | Liquid Valve Assy 3/8" | 07105256 | 07105256 | 07105256 | 1 |
| 27 | Rear Side Plate | 01305260 | 01305260 | 01305260 | 1 |
| 28 | Valve Support | 01715256 | 01715256 | 01715256 | 1 |
| 29 | Capillary Assy | 03103220 | 03103219 | 031032021 | 1 |
| 30 | Compressor C-2R170H6S | 00103001 | 00103001 | 00100417 | 1 |
| 31 | Overload Protector | / | / | / | 1 |
| 32 | Temp Sensor | / | / | / | 1 |
| 33 | Gas-liquid Separator | 07255251 | 07255251 | 07255251 | 1 |
| 34 | Isolation Washer C | 70410523 | 70410523 | 70410523 | 1 |
| 35 | Clapboard | 01235254 | 01235254 | 01235254 | 1 |
| 36 | Capacitor 88- 108uF/98uF/330VAC | / | / | 33010603 | 1 |
| 37 | AC Contactor CJX9B-25S/D | 44010245 | 44010245 | 44010245 | 1 |
| 38 | Metal Base | 01203059 | 01203059 | 01205203 | 1 |
| 39 | Front Side Plate | 01305247 | 01305247 | 01305247 | 1 |
| 40 | Low Pressure Switch | / | / | / | 1 |
| 41 | Pressure Switch | 46020011 | 46020011 | 46020011 | 1 |

Fengyun Series

| No | Description | Part Code | | | Qty |
|----|------------------------------------|-----------------|-----------------|-----------------|-----|
| | | GWHN28C1ND1AA/O | GWCN28C1ND1AA/O | GWHN24C1NK1AA/O | |
| 1 | Front Grill | 22265401 | 22265401 | 22265251 | 1 |
| 2 | Front Plate | 01435401 | 01435402 | 01435251 | 1 |
| 3 | Axial Flow Fan | 10335401 | 10335401 | 10335254 | 1 |
| 4 | Motor LW92F | 150154012 | 150154012 | 15013106 | 1 |
| 5 | Motor Support | 01705401 | 01705403 | 01705253 | 1 |
| 6 | Condenser Assy | 011032345 | 01103830 | 011036794 | 1 |
| 7 | Temp Sensor Support | 24215101 | 24215101 | 24215101 | 1 |
| 8 | Ambient Sensor | 390002064 | 390002064 | 390002064 | 1 |
| 9 | Top Cover | 01255402 | 01255402 | 01255262 | 1 |
| 10 | Rear Grill | 01475401 | 01475401 | 01475252 | 1 |
| 11 | upper Electric box cover | 01413075 | 01413075 | 01413076 | 1 |
| 12 | Electric Plate | 014033593 | 01403360 | 014033764 | 1 |
| 13 | Capacitor CBB65 55uF/450V | / | / | 33000039 | 1 |
| 14 | Capacitor CBB65 50uF/450V | 33000001 | 33000001 | 33000039 | 1 |
| 15 | Capacitor CBB61 3.5uF/450V | 3301010 | 33010010 | 33010010 | 1 |
| 16 | Main PCB | 30055017 | 30055018 | 30030302 | 1 |
| 17 | Soft Start Device | / | / | / | 1 |
| 18 | Terminal Board 2-8 | 42011103 | 42011103 | 42011103 | 1 |
| 19 | Transformer 57X30G | 43110232 | 43110232 | 43110232 | 1 |
| 20 | Terminal Board | 42010258 | 42010258 | 42010258 | 1 |
| 21 | 4-way Valve Coil | 430004002 | / | 430004002 | 1 |
| 22 | 4-way Valve | 43000404 | / | 43000404 | 1 |
| 23 | Temp Sensor | 390001921 | 390001921 | 390001921 | 1 |
| 24 | Handle | 26235253 | 26235253 | 26235253 | 1 |
| 25 | Gas Valve Assy 5/8" | 07105252 | 07105252 | 07105251 | 1 |
| 26 | Liquid Valve Assy 3/8" | 071302232 | 071302232 | 07105255 | 1 |
| 27 | Rear Side Plate | 01305401 | 01305401 | 01305260 | 1 |
| 28 | Valve Support | 01715256 | 01715256 | 01715256 | 1 |
| 29 | Capillary Assy | 03103188 | 03103354 | 03103198 | 1 |
| 30 | Compressor SQ034KBA | 00108140 | 00202102 | 00100417 | 1 |
| 31 | Overload Protector | / | / | / | 1 |
| 32 | Temp Sensor | / | / | / | 1 |
| 33 | Gas-liquid Separator | 07255251 | 07255251 | 07255251 | 1 |
| 34 | Isolation Washer C | 70410523 | 70410523 | 70410523 | 1 |
| 35 | Clapboard | 01235404 | 01235404 | 01235254 | 1 |
| 36 | Capacitor 88- 108uF/98uF/330VAC | / | / | 33010603 | 1 |
| 37 | AC Contactor GC6- 45S/01C3A | 44010265 | 44010265 | 44010245 | 1 |
| 38 | Metal Base | 012054012 | 01203583P | 01205203 | 1 |
| 39 | Front Side Plate | 01305403 | 01305403 | 01305247 | 1 |
| 40 | Low Pressure Switch | 46020007 | 46020007 | / | 1 |
| 41 | Pressure Switch | 46020011 | 46020011 | 46020011 | 1 |

The above data are subject to change without notice.

8.9 Exploded View of Components and Parts of Outdoor Unit



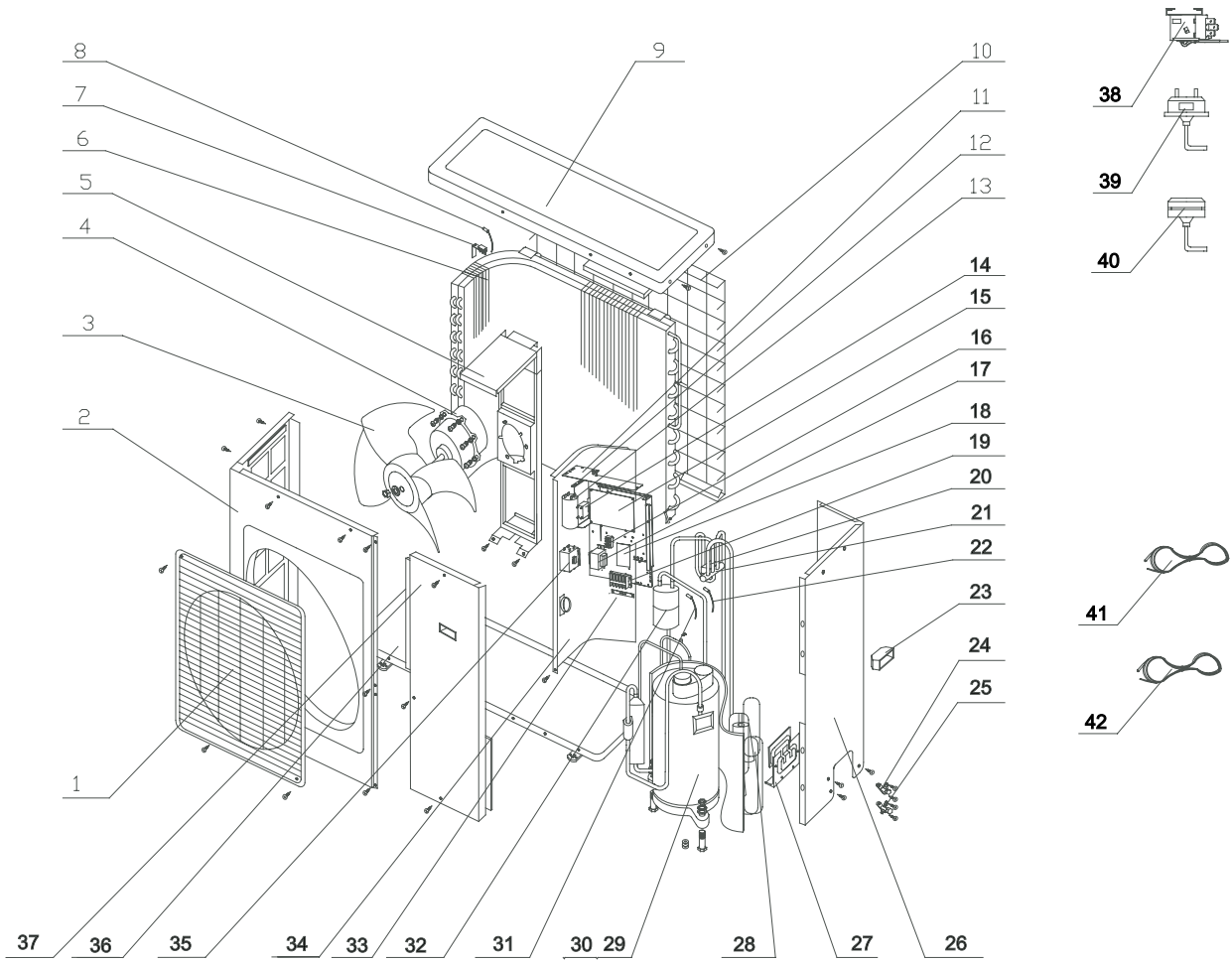
8. 10 Components and Parts List of Outdoor Unit

| No | Description | Part Code | | | Qty |
|----|----------------------------|-----------------|-----------------|-----------------|-----|
| | | GWCN28C1TK1AA/O | GWCN28C1NK3AA/O | GWHN28C1NK3AA/O | |
| 1 | Front Grill | 22265401 | 22265401 | 22265401 | 1 |
| 2 | Front Plate | 01435402 | 01435402 | 01435402 | 1 |
| 3 | Axial Flow Fan | 10335253 | 10335401 | 10335401 | 1 |
| 4 | Motor LW80C | 15015401 | 15015401 | 15015401 | 1 |
| 5 | Motor Support | 01705401 | 01705401 | 01705401 | 1 |
| 6 | Condenser Assy | 011032341 | 011032344 | 011032344 | 1 |
| 7 | Temp Sensor Support | 24215101 | 24215101 | 24215101 | 1 |
| 8 | Ambient Sensor | 390002064 | 390002064 | 390002064 | 1 |
| 9 | Top Cover | 01255402 | 01255402 | 01255402 | 1 |
| 10 | Rear Grill | 01475401 | 01475401 | 01475401 | 1 |
| 11 | upper Electric box cover | 01413075 | 01413075 | 01413075 | 1 |
| 12 | Electric Plate | 01413074 | 01413074 | 01413074 | 1 |
| 13 | Capacitor CBB65 50uF/450V | 33000001 | 33010743 | 33010743 | 1 |
| 14 | Capacitor CBB61 3.5uF/450V | 33010010 | 33010010 | 33010010 | 1 |
| 15 | Main PCB | 30055018 | 30035303 | 30030302 | 1 |
| 16 | Terminal Board 2-8 | 42011103 | 42011103 | 42011103 | 1 |
| 17 | Transformer 57X30G | 43110232 | 43110232 | 43110232 | 1 |
| 18 | Terminal Board | 42010258 | 42010258 | 42010258 | 1 |
| 19 | 4-way Valve Coil | / | / | 430004002 | 1 |
| 20 | 4-way Valve | / | / | 43000411 | 1 |
| 21 | Temp Sensor | 390001921 | 390001921 | 390001921 | 1 |
| 22 | Handle | 26235253 | 26235253 | 26235253 | 1 |
| 23 | Gas Valve Assy 5/8" | 07105252 | 07103030 | 07103030 | 1 |
| 24 | Liquid Valve Assy 3/8" | 071302232 | 07130209 | 07130209 | 1 |
| 25 | Rear Side Plate | 01305401 | 01308748 | 01308748 | 1 |
| 26 | Valve Support | 01715256 | 01715256 | 01715256 | 1 |
| 27 | Capillary Assy | 03103141 | 03103305 | 03103305 | 1 |
| 28 | Compressor AWR5538EXC | 00103011 | 00100399 | 00103010 | 1 |
| 29 | Overload Protector | in set | in set | in set | 1 |
| 30 | Temp Sensor | / | / | / | 1 |
| 31 | Gas-liquid Separator | 07255251 | 07255251 | 07255251 | 1 |
| 32 | Isolation Washer C | 70410523 | 70410523 | 70410523 | 1 |
| 33 | Clapboard | 01235403 | 01235403 | 01235403 | 1 |
| 34 | AC Contactor GC6-45S/01C3A | 44010265 | 44010263 | 44010263 | 1 |
| 35 | Metal Base | 01215401 | 01215401 | 01215401 | 1 |
| 36 | Front Side Plate | 01305403 | 01305403 | 01305403 | 1 |
| 37 | Pressure Switch | / | 46020007 | 46020007 | 1 |
| 38 | High Pressure Switch | 46025201 | 460200061 | 460200061 | 1 |

| No | Description | Part Code | | Qty |
|----|------------------------------------|----------------|----------------|-----|
| | | GWCN28C1TD1AAO | GWHN28C1TD1AAO | |
| 1 | Front Grill | 22265401 | 22265401 | 1 |
| 2 | Front Plate | 01435402 | 01435402 | 1 |
| 3 | Axial Flow Fan | 10335253 | 10335253 | 1 |
| 4 | Motor LW92P | 15015452 | 15015452 | 1 |
| 5 | Motor Support | 01705401 | 01705401 | 1 |
| 6 | Condenser Assy | 011032341 | 011032341 | 1 |
| 7 | Temp Sensor Support | 24215101 | 24215101 | 1 |
| 8 | Ambient Sensor | 390002064 | 390002064 | 1 |
| 9 | Top Cover | 01255402 | 01255402 | 1 |
| 10 | Rear Grill | 01475401 | 01475401 | 1 |
| 11 | upper Electric box cover | 01413075 | 01413075 | 1 |
| 12 | Electric Plate | 01413074 | 01413074 | 1 |
| 13 | Capacitor CBB65 45uF/440V(450V) | 33000012 | 33000012 | 1 |
| 14 | Capacitor CBB61 4uF/500V | 33010013 | 33010013 | 1 |
| 15 | Main PCB | 30055018 | 30055017 | 1 |
| 16 | Terminal Board 2-8 | 42011103 | 42011103 | 1 |
| 17 | Transformer 57X30G | 43110232 | 43110232 | 1 |
| 18 | Terminal Board | 42010258 | 42010258 | 1 |
| 19 | 4-way Valve Coil | / | 430004002 | 1 |
| 20 | 4-way Valve | / | 43000404 | 1 |
| 21 | Temp Sensor | 390001921 | 390001921 | 1 |
| 22 | Handle | 26235253 | 26235253 | 1 |
| 23 | Gas Valve Assy 5/8" | 07105252 | 07105252 | 1 |
| 24 | Liquid Valve Assy 3/8" | 071302232 | 071302232 | 1 |
| 25 | Rear Side Plate | 01305401 | 01305401 | 1 |
| 26 | Valve Support | 01715256 | 01715256 | 1 |
| 27 | Capillary Assy | 03103141 | 03103141 | 1 |
| 28 | Compressor AWZ5532EXN | 00103010 | 00103010 | 1 |
| 29 | Overload Protector | in set | in set | 1 |
| 30 | Temp Sensor | / | / | 1 |
| 31 | Gas-liquid Separator | 07255251 | 07255251 | 1 |
| 32 | Isolation Washer C | 70410523 | 70410523 | 1 |
| 33 | Clapboard | 01235403 | 01235403 | 1 |
| 34 | AC Contactor GC6- | 44010265 | 44010265 | 1 |
| 35 | Metal Base | 01215401 | 01215401 | 1 |
| 36 | Front Side Plate | 01305403 | 01305403 | 1 |
| 37 | Pressure Switch | / | / | 1 |
| 38 | High Pressure Switch | 46025201 | 46025201 | 1 |

The above data are subject to change without notice.

8. 11 Exploded View of Components and Parts of Outdoor Unit

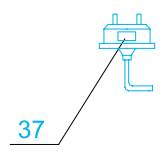
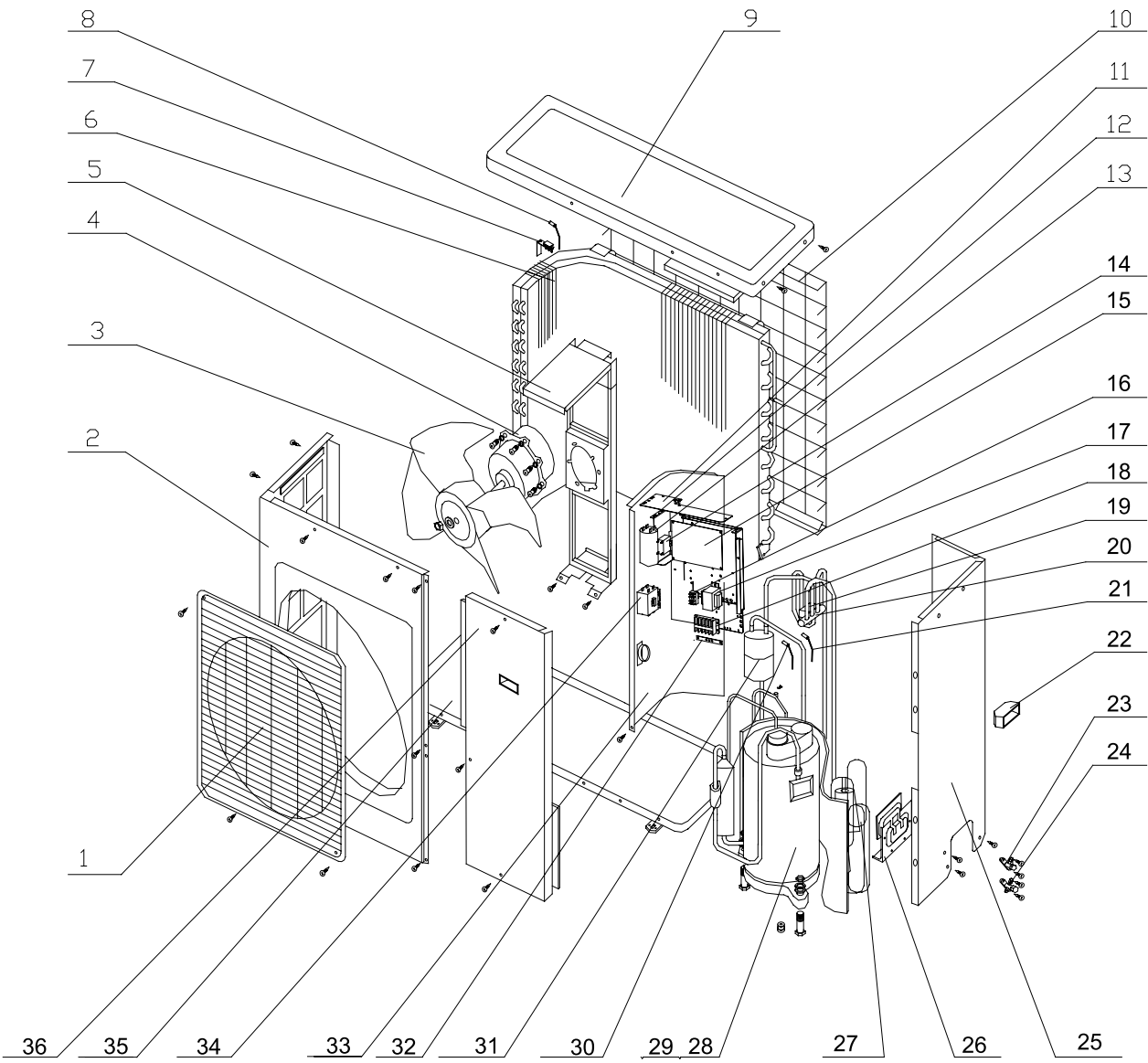


8. 12 Components and Parts List of Outdoor Unit

| No | Description | Part Code | Qty |
|----|------------------------------|-----------------|-----|
| | | GWHN24C1NK3AB/O | |
| 1 | Front Grill | 01473001 | 1 |
| 2 | Front Plate | 01433011 | 1 |
| 3 | Axial Flow Fan | 10335253 | 1 |
| 4 | Motor LW80C | 15013106 | 1 |
| 5 | Motor Support | 01705253 | 1 |
| 6 | Condenser Assy | 011036796 | 1 |
| 7 | Temp Sensor Support | 24215101 | 1 |
| 8 | Ambient Sensor | 390002065 | 1 |
| 9 | Top Cover | 01255262 | 1 |
| 10 | Rear Grill | 01475252 | 1 |
| 11 | upper Electric box cover | 01413076 | 1 |
| 12 | Electric Plate | 01403391 | 1 |
| 13 | Capacitor CBB65 40uF/450V | 33000022 | 1 |
| 14 | Capacitor CBB61 3.5uF/450V | 33010010 | 1 |
| 15 | Main PCB | 30030302 | 1 |
| 16 | Terminal Board 2-8 | 42011103 | 1 |
| 17 | Transformer 57X30G | 43110232 | 1 |
| 18 | low temperature Start Device | 30116041 | 1 |
| 19 | Terminal Board | 42010258 | 1 |
| 20 | 4-way Valve Coil | 430004002 | 1 |
| 21 | 4-way Valve | 43000411 | 1 |
| 22 | Temp Sensor | 390001921 | 1 |
| 23 | Handle | 26235253 | 1 |
| 24 | Gas Valve Assy 5/8" | 07103030 | 1 |
| 25 | Liquid Valve Assy 3/8" | 07130209 | 1 |
| 26 | Rear Side Plate | 01303709 | 1 |
| 27 | Valve Support | 01715256 | 1 |
| 28 | Capillary Assy | 03103281 | 1 |
| 29 | Compressor C-3RV322H1AAF | 00103703 | 1 |
| 30 | Overload Protector | in set | 1 |
| 31 | Temp Sensor | / | 1 |
| 32 | Gas-liquid Separator | 07255251 | 1 |
| 33 | Isolation Washer C | 70410523 | 1 |
| 34 | Clapboard | 01235254 | 1 |
| 35 | AC Contactor CJX9B-25S/DL | 44010263 | 1 |
| 36 | Metal Base | 01205117 | 1 |
| 37 | Front Side Plate | 01305247 | 1 |
| 38 | Temperature control | 45040026 | 1 |
| 39 | Pressure Switch | 460200061 | 1 |
| 40 | Pressure sensor | 32210034 | 1 |
| 41 | electrical heater for base | 765100041 | 1 |
| 42 | electrical heater for | 76518731 | 1 |

The above data are subject to change without notice.

8. 13 Exploded View of Components and Parts of Outdoor Unit



8. 14 Components and Parts List of Outdoor Unit

| No | Description | Part Code | | Qty |
|----|-------------------------------|-----------------|-----------------|-----|
| | | GWHN24C1NK3AA/O | GWCN24C1NK3AA/O | |
| 1 | Front Grill | 22265251 | 22265251 | 1 |
| 2 | Front Plate | 01433011 | 01433011 | 1 |
| 3 | Axial Flow Fan | 10335253 | 10335253 | 1 |
| 4 | Motor LW80C | 15013106 | 15013106 | 1 |
| 5 | Motor Support | 01705253 | 01705253 | 1 |
| 6 | Condenser Assy | 011036796 | 011036797 | 1 |
| 7 | Temp Sensor Support | 24215101 | 24215101 | 1 |
| 8 | Ambient Sensor | 390002064 | 390002064 | 1 |
| 9 | Top Cover | 01255262 | 01255262 | 1 |
| 10 | Rear Grill | 01475252 | 01475252 | 1 |
| 11 | upper Electric box cover | 01413076 | 01413076 | 1 |
| 12 | Electric Plate | 01403377 | 01403377 | 1 |
| 13 | Capacitor CBB65 40uF/450V | 33000022 | 33000022 | 1 |
| 14 | Capacitor CBB61 3.5uF/450V | 33010010 | 33010010 | 1 |
| 15 | Main PCB | 30030302 | 30035303 | 1 |
| 16 | Terminal Board 2-8 | 42011103 | 42011103 | 1 |
| 17 | Transformer 57X30G | 43110232 | 43110232 | 1 |
| 18 | Terminal Board | 42010258 | 42010258 | 1 |
| 19 | 4-way Valve Coil | 430004002 | / | 1 |
| 20 | 4-way Valve | 43000411 | / | 1 |
| 21 | Temp Sensor | 390001921 | 390001921 | 1 |
| 21 | Temp Sensor | 390001921 | | 1 |
| 22 | Handle | 26235253 | 26235253 | 1 |
| 23 | Gas Valve Assy 5/8" | 07103030 | 07103030 | 1 |
| 24 | Liquid Valve Assy 3/8" | 07130209 | 07130209 | 1 |
| 25 | Rear Side Plate | 01305260 | 01303709 | 1 |
| 26 | Valve Support | 01715256 | 01715256 | 1 |
| 27 | Capillary Assy | 03103281 | 03103281 | 1 |
| 28 | Compressor C- 3RV322H1AAF | 00103703 | 00103703 | 1 |
| 29 | Overload Protector | in set | in set | 1 |
| 30 | Temp Sensor | 390002064 | / | 1 |
| 31 | Gas-liquid Separator | 07255251 | 07255251 | 1 |
| 32 | Isolation Washer C | 70410523 | 70410523 | 1 |
| 33 | Clapboard | 01235254 | 01235254 | 1 |
| 34 | AC Contactor CJX9B-25S/D | 44010245 | 44010245 | 1 |
| 35 | Metal Base | 01203568 | 01203568 | 1 |
| 36 | Front Side Plate | 01305247 | 01305247 | 1 |
| 37 | Pressure Switch | 460200061 | 460200061 | 1 |

The above data are subject to change without notice.

9 Trouble-Shooting

