Hisense
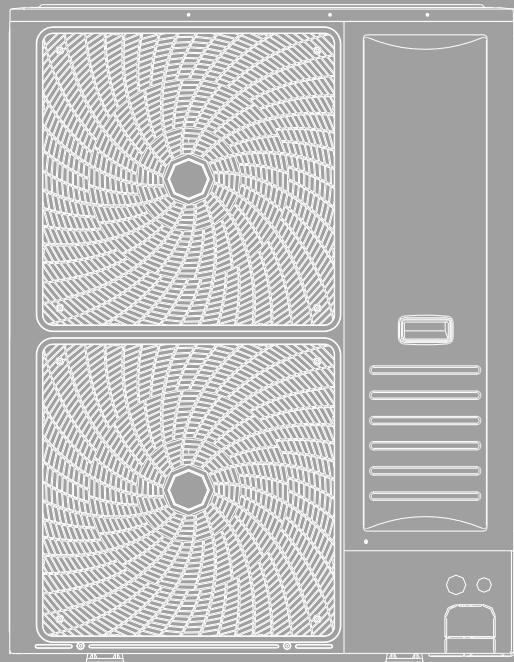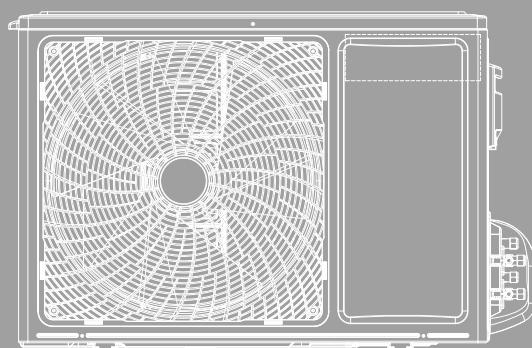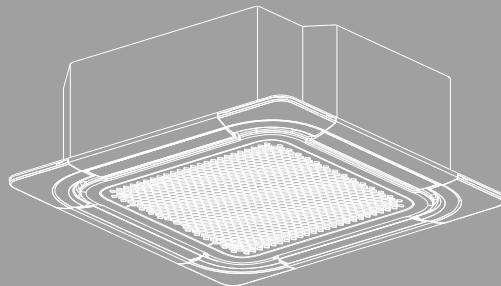
TECHNICAL & SERVICE MANUAL V 1.0

—TURBO INVERTER 32

Models

DC-Inverter Split Air Conditioner(Heat pump type)

AUC-18UR4RXJC1

AUC-24UR4RBJC1

AUC-36UR4RKKC1

AUC-42UR4RNKC1

AUC-48UR4RNKC1

< **Indoor Units** >	< **Outdoor Units** >
Cassette	
AUC-18UR4RJC1	AUW-18U4RX1
AUC-24UR4RJC1	AUW-24U4RB1
AUC-36UR4RKC1	AUW-36U4RK1
AUC-42UR4RKC1	AUW-42U4RN1
AUC-48UR4RKC1	AUW-48U4RN1

NOTE:
Heating function is not available for cooling only models.

SAFETY SUMMARY

IMPORTANT NOTICE

● We pursue a policy of continuing improvement in design and performance of products. The right is therefore reserved to vary specifications without notice.

● We cannot anticipate every possible circumstance that might involve a potential hazard.

● This air conditioner is designed for standard air conditioning only. Do not use this air conditioner for other purposes such as drying clothes, refrigerating foods or for any other cooling or heating process. Do not let the air-out face animals or plants, it might have an adverse effect on them.

● The installer and system specialist shall secure safety against leakage according to local regulations or standards.

● Signal words (DANGER, WARNING and CAUTION) are used to identify levels of hazard seriousness. Definitions for identifying hazard levels are provided below with their respective signal words.

⚠DANGER	: Immediate hazards which WILL result in severe personal injury or death.
⚠WARNING	: Hazards or unsafe practices which COULD result in severe personal injury or death.
⚠CAUTION	: Hazards or unsafe practices which COULD result in minor personal injury or product or property damage.
NOTE	: Useful information for operation and/or maintenance.

● Installation should be performed by the dealer or other professional personnel. Improper installation may cause water leakage, electrical shock, or fire.

⚠DANGER

● Do not perform installation work, refrigerant piping work, drain piping and electrical wiring connection without referring to our installation manual. If the instructions are not followed, it may result in a water leakage, electric shock or a fire.

● Use refrigerant R32 in the refrigerant cycle.

● Do not pour water into the indoor or outdoor unit. These products are equipped with electrical parts. If poured, it will cause a serious electrical shock.

● Do not open the service cover or access panel for the indoor or outdoor units without turning OFF the main power supply.

● Do not touch or adjust safety devices inside the indoor or outdoor units. If these devices are touched or readjusted, it may cause a serious accident.

● Refrigerant leakage can cause difficulty in breathing due to insufficient air. Turn OFF the main switch, extinguish any naked flames and contact your service contractor, if refrigerant leakage occurs.

● Do perform air-tight test. Do not charge oxygen, acetylene or other flammable and poisonous gases into the refrigerant cycle when performing a leakage test or an air-tight test. These types of gases are extremely dangerous and can cause an explosion. It is recommended that nitrogen be used for this test.

● The installer and system specialist shall secure safety against refrigerant leakage according to local regulations or standards.

● Use an ELB (Electric Leakage Breaker). In the event of a fault, there is danger of an electric shock or a fire if it is not used.

⚠WARNING

● Do not use any sprays such as insecticide, lacquer, hair spray or other flammable gases within approximately one (1) meter from the system.

● If circuit breaker or fuse is often activated, stop the system and contact your service contractor.
● Check that the ground wire is securely connected. If the unit is not correctly grounded, it will lead to electric shock. Do not connect the ground wiring to gas piping, water piping, lightning conductor or ground wiring for telephone.
● Before performing any brazing work, check to ensure that there is no flammable material around when using refrigerant. Be sure to wear leather gloves to prevent cold injuries.
● Protect the wires, electrical parts, etc. from rats or other small animals.
  If not protected, rats may gnaw at unprotected parts, which may lead to fire.
● Fix the cables securely. External forces on the terminals could lead to a fire.
● Install the air conditioner on a solid base that can support the unit weight. An inadequate base or incomplete installation may cause injury in the event the unit falls off the base. Incomplete connections or clamping may cause terminal overheating or fire.
● Make sure that the outdoor unit is not covered with snow or ice, before operation.

⚠CAUTION

● Do not step or put any material on the product.
● Do not put any foreign material on the unit or inside the unit.

NOTE

● It is recommended that the room be ventilated every 3 to 4 hours.
● The air conditioner may not work properly under the following circumstances.
  The power transformer provides the same power or power as the air conditioner. The electrical equipment is too close to the power supply of the air conditioner. With the sharp change of power consumption and switching action, the power supply of the air conditioner will generate a large induction surge voltage.

CHECKING PRODUCT RECEIVED

● Upon receiving this product, inspect it for any shipping damage. Claims for damage, either apparent or concealed, should be filed immediately with the shipping company.
● Check the model number, electrical characteristics (power supply, voltage and frequency) and accessories to determine if they are correct.
  The standard utilization of the unit shall be explained in these instructions.
  Therefore, the utilization of the unit other than those indicated in these instructions is not recommended.
  Please contact your local agent, as the occasion arises.

📝 • *The figures in this manual are based on the external view of a standard model. Consequently, the shape may differ from that of the air conditioner you have selected.*
  • *Letter K in the manual stands for kBtu/h, for example 36K,48K,60K,which means model size, not real capacity.*

Table of Contents

1. General

1.1 Features

Cassette Type Air Conditioner
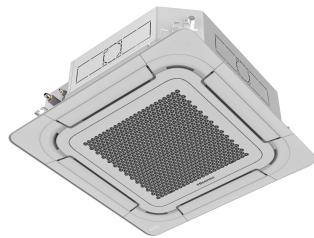
Features

➢ **Saving Installation Space**

The indoor unit can be installed inside the ceiling conveniently.

➢ **24-hour Timer ON and OFF**

This Timer can be set to automatically turn the unit on or off within a 24-hour period.

➢ **Mute Operation**

The excellent fan design enables smooth airflow with minimum noise.

➢ **Auto re-start from Power Break**

When the power supply is recovered after power break, all presets are still effective

and the air-conditioner will run according to the previous setting.

➢ **Fault Self-diagnosis Function**

When there is a problem in the air-conditioner, the microcomputer can diagnose the faults,

which can be read from the display and is convenient for maintenance.

1. GENERAL

1.2 Product lineup

Type \ Model(Btu/h)	18K	24K	36K	42K	48K
Cassette	●	●	●	●	●

● : available model
○ : in developement

1.3 Nomenclature

A U C- 42 U R 4 R N K C1

Series Number

Panel Code

Indoor Unit Code

Outdoor Unit Code

Refrigerant Type: R-R32,S-R410A,F: R22

Power Supply
2: 220-230V ~/60Hz 4: 220-240V ~/50Hz
5: 230V ~/60Hz 6: 380-415V 3N~/50Hz

Type of Controller
X: Wired Controller, R: Wireless Remote Controller

Type of Mode:
U: DC-Invert HP, H: Fixed Speed HP,
C: Fixed Speed CO, E: Heat Pump with electric heater

Cooling Capacity: 42×10^3 Btu/h

Type of Product
D: Duct, C: Cassette, V: Ceiling & Floor, F: Floor-standing, W: Outdoor Unit

Unit

Air Conditioner

1. GENERAL

1.4 Unit installation

1:1 system is the only compatible combination.

(Only one indoor unit can be connected with one outdoor unit.)

1.5 Working range

Power supply

Working Voltage	176V ~ 253V(18K~48K)
Voltage Imbalance	Within a 3% deviation from each voltage at the main terminal of outdoor unit
Starting Voltage	Higher than 85% of the Rated Voltage

For more product information, please refer to the catalog and other technical files.

Operating temperature range

This air conditioner is designed for the following outdoor operating temperatures.

Model(Btu/h)	Mode	Outdoor operating temperature (℃)	
		Maximum	Minimum
18K/24K/36K/42K/48K	Cooling Operation	46	-10
	Heating Operation	24	-15

Storage condition: Temperature: -13~140°F（-25~60℃）
                    Humidity: 30%~80%

1. GENERAL

1.6 Product appearance

Cassette type

Series	Model (Cooling Capacity:Btu/h)	Indoor unit	Outdoor unit
Cassette	18K		
	24K		
	36K		
	42K/48K		
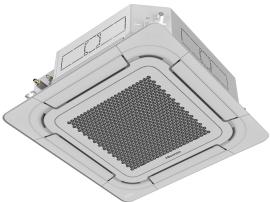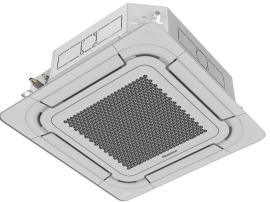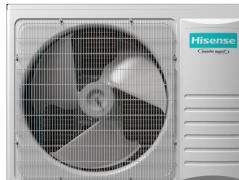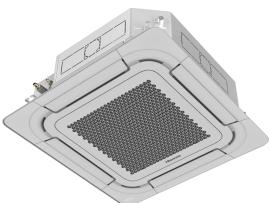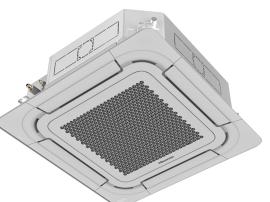
1. GENERAL

Display panel

Cassette type
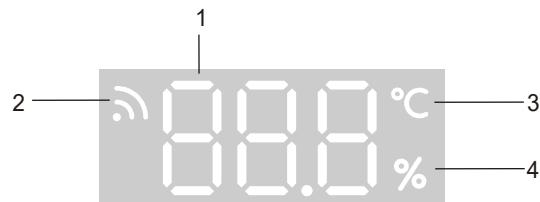
Cassette

Description

Cassette

1 Temperature/humidity indicator
Display indoor set temperature or indoor temperature; Display indoor set humidity or indoor humidity .
2 Wi-Fi receiver
It lights up when Wi-Fi is connected. It stops lighting when Wi-Fi is disconnected.
3 Temperature Unit (℃) indicator
It lights up when the air conditioner displays with Celsius temperature, and stops lighting when it is displays with Fahrenheit temperature.
4 Humidity indicator
It lights up when display humidity. It stops lighting when humidity display is completed.

2. Outlines and dimensions

2.1 Indoor units

Cassette type

18K/24K

Unit: (mm)

PANEL

Electric box

950
550
487

950
559

Display panel

840

Liquid pipe   Gas pipe

760
860~910(Dimension of opening)

760
860~910(Dimension of opening)

209
182

101
149

841

12

148
203

30   H+28

Drain pipe
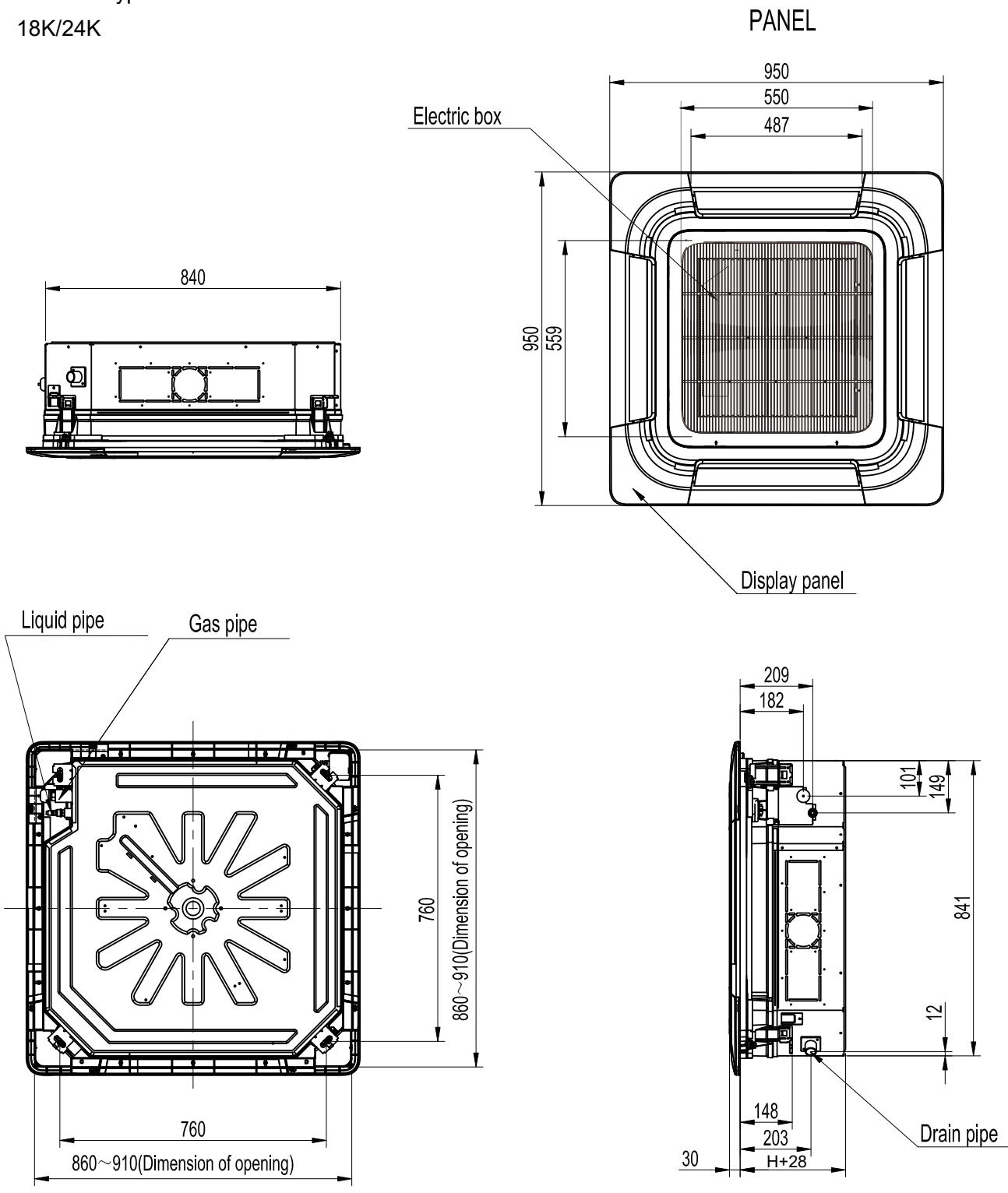
Model	a
18K/24K	236

2. OUTLINES AND DIMENSIONS

Cassette type

36K/42K/48K

Unit: (mm)

PANEL

Electric box

950
550
487

950
559

Display panel

840

Liquid pipe   Gas pipe

760
860~910(Dimension of opening)

760
860~910(Dimension of opening)

209
182

101
149

841

12

148
203

30   H+28

Drain pipe
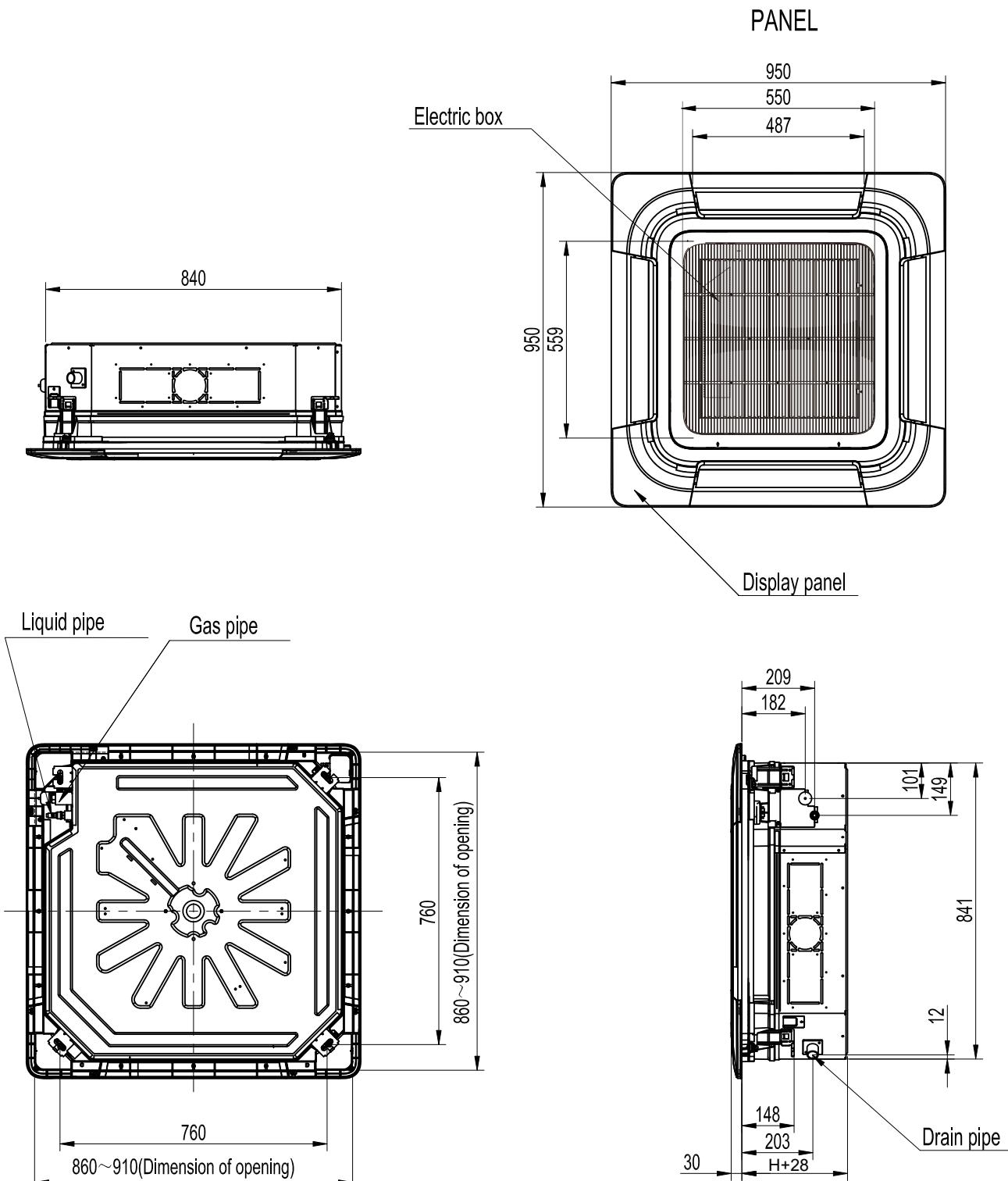
Model	a
36K/42K/48K	272

2. OUTLINES AND DIMENSIONS

2.2 Outdoor units

18K

Gas pipe

Liquid pipe

285

Electric box

584

297

159

101

127

186

87

150

510

810

83

314

Drain pipe

Air inlet

50

37

338

310

280

Air outlet

4-11×17 Hole

2. OUTLINES AND DIMENSIONS

24K

Electric box

Liquid pipe

Gas pipe

312

670

327

542

168

76

860

164

109

123

125

Drain pipe

Air inlet

309

50

50

310

368

341

Air outlet

4–11×17Hole

2. OUTLINES AND DIMENSIONS

36K

Electric box

344

750

375

Liquid pipe

Gas pipe

109
164

123
125

608

146

76

900

Drain pipe

Air inlet

4-10x20 Hole

359

38

398

368

340

Air outlet
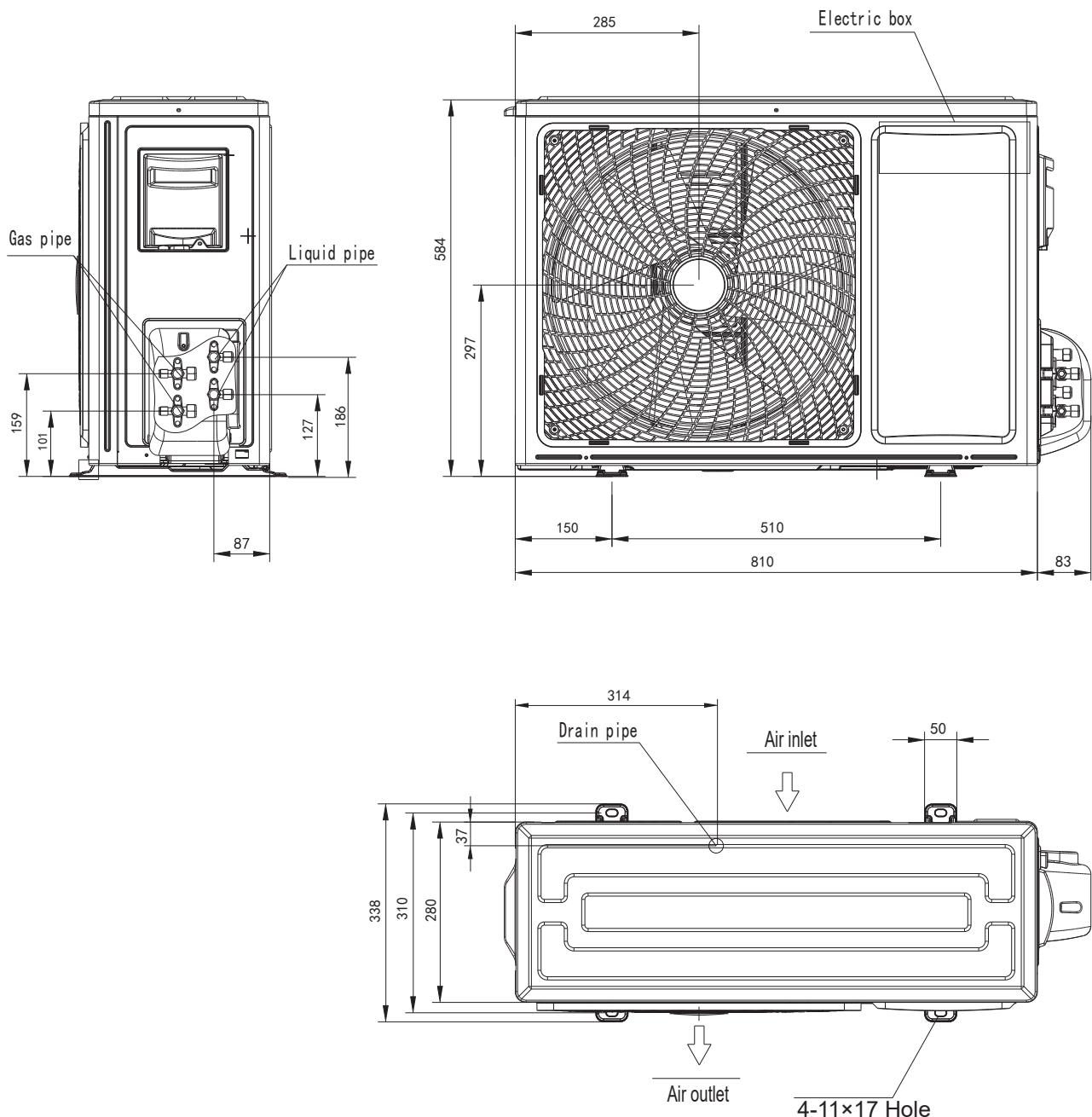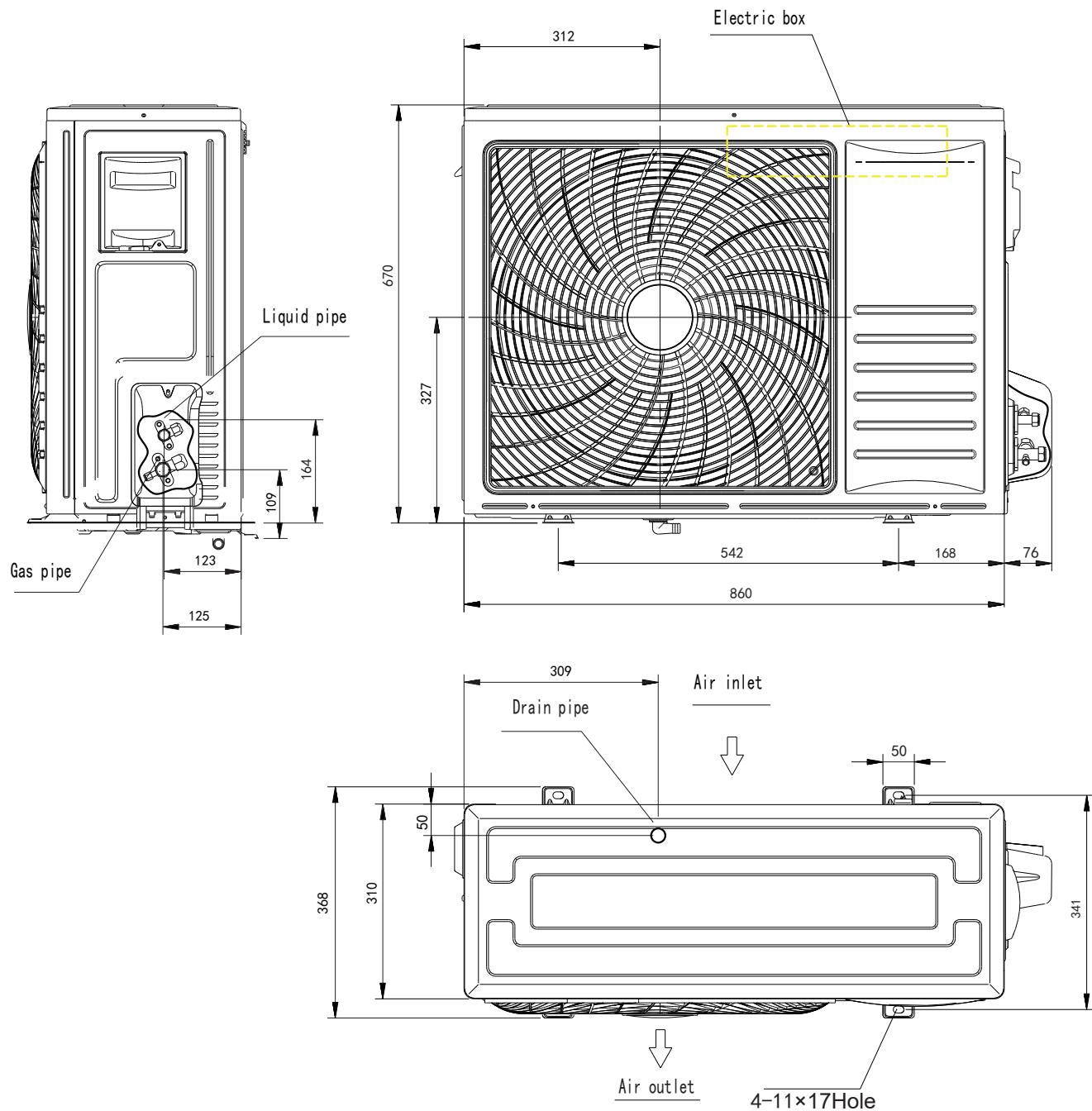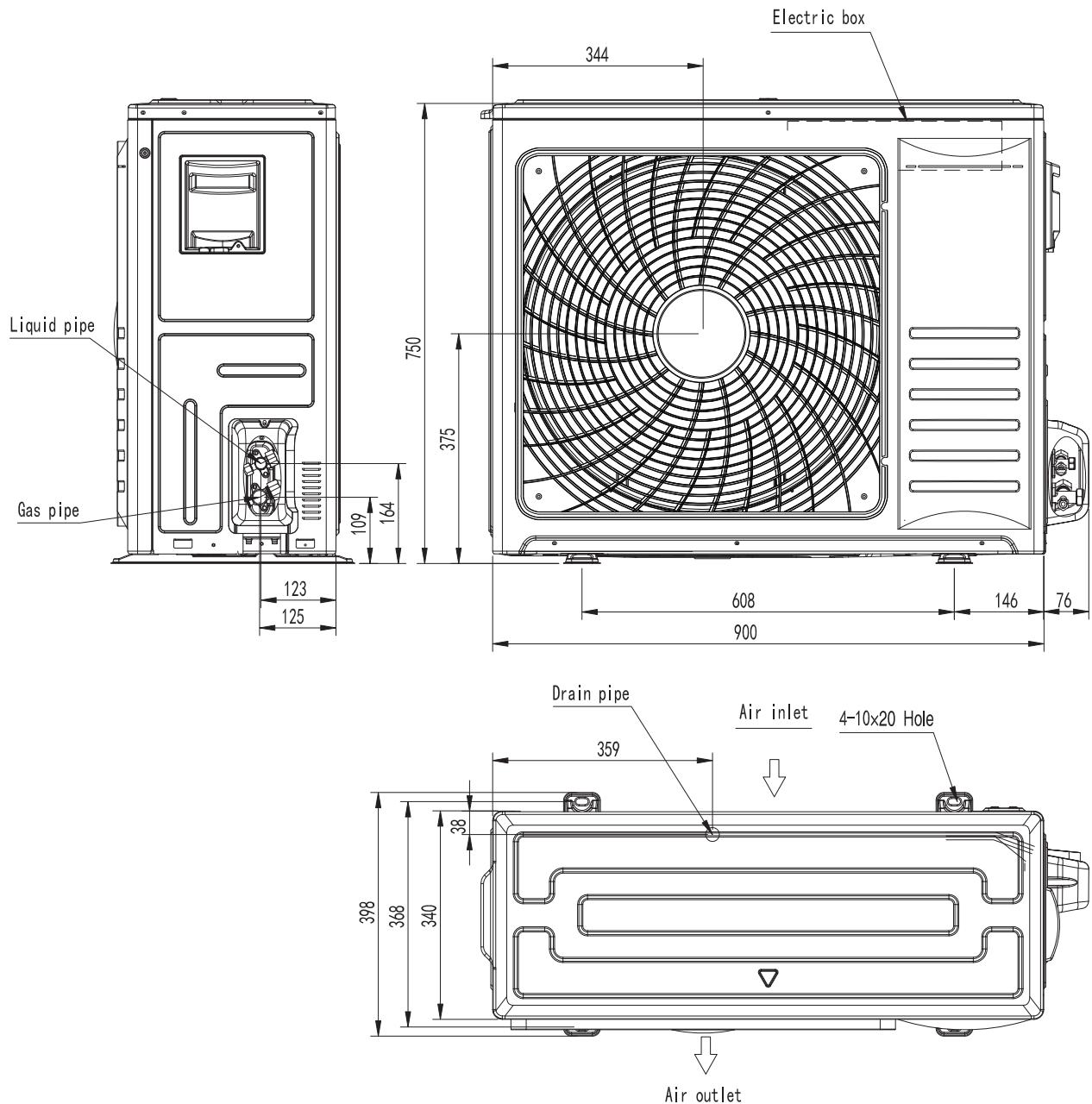
2. OUTLINES AND DIMENSIONS

42K/48K

Unit: (mm)

Electric box

17

1170

555

15

308

17

319

900

170

535

Drain pipe

Air inlet

26

2×R6

336

320

357

385

2×φ12

20

70

Air outlet

35

30
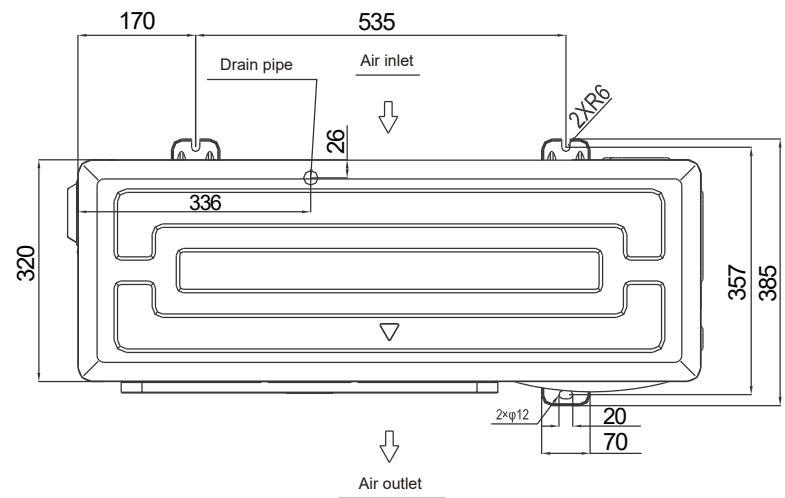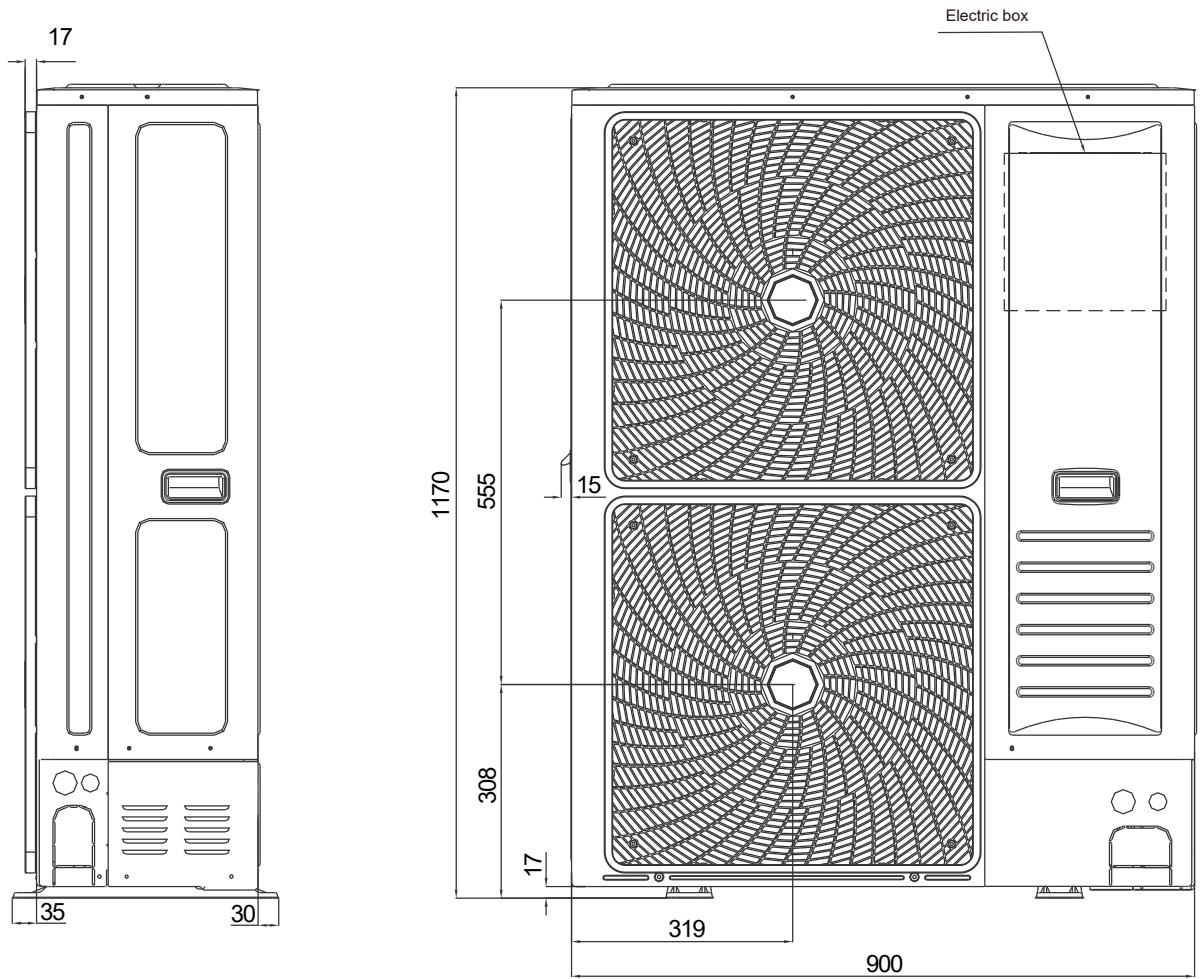
3. ELECTRICAL DATA

3. Electrical data

Model	Power supply			Applicable voltage		ELB	
	Voltage(V)	PH	Frequency	Umin(V)	Umax(V)	Nominal Current(A)	Nominal Sensitive Current(mA)
18K	220-240~	1	50	176	253	20	30
24K/36K	220-240~	1	50	176	253	32	30
42K/48K	220-240~	1	50	176	253	40	30

NOTE:

1. The above compressor data is based on 100% capacity combination of indoor units at the rated operating frequency.

2. This data is based on the same conditions as the nominal cooling capacities.

4. Capacities and selection data

4.1 Capacity characteristic charts

The following charts show the characteristics of outdoor unit capacity, which corresponds with the operating ambient temperature of outdoor unit.

Conditions:

① Pipe length/height difference: 5m/0m

② Compressor at rated inverter frequency

③ Indoor fan speed at high fan speed

④ Capacity loss due to white frost and defrost operation is not included.

4. CAPACITIES AND SELECTION DATA

AUC-18UR4RXJC1

PERFORMANCE DATA (Cooling Operation at Rated Frequency)

AUC-18UR4RXJC1

CAPACITY: 5.3kW   SHF: 0.78   INPUT: 1452 W

ID DB (°C)	IN WB (°C)	-15 Q	SHC	SHF	IPT	-5 Q	SHC	SHF	IPT	0 Q	SHC	SHF	IPT	5 Q	SHC	SHF	IPT	10 Q	SHC	SHF	IPT	15 Q	SHC	SHF	IPT	20 Q	SHC	SHF	IPT	25 Q	SHC	SHF	IPT	30 Q	SHC	SHF	IPT	35 Q	SHC	SHF	IPT	40 Q	SHC	SHF	IPT	45 Q	SHC	SHF	IPT
21	18	4.86	2.91	0.60	1121	4.79	2.87	0.60	1171	4.71	2.82	0.60	1250	4.60	2.76	0.60	1308	4.46	2.68	0.60	1358	4.10	2.46	0.60	1442	3.38	2.03	0.60	1498	4.86	2.91	0.60	1121	4.79	2.87	0.60	1171	4.71	2.82	0.60	1250	4.60	2.76	0.60	1308	4.46	2.68	0.60	1358
21	20	5.06	2.43	0.48	1145	4.99	2.39	0.48	1195	4.90	2.35	0.48	1274	4.79	2.30	0.48	1332	4.65	2.23	0.48	1381	4.26	2.05	0.48	1466	3.52	1.69	0.48	1521	5.06	2.43	0.48	1145	4.99	2.39	0.48	1195	4.90	2.35	0.48	1274	4.79	2.30	0.48	1332	4.65	2.23	0.48	1381
22	18	5.01	3.20	0.64	1133	4.94	3.16	0.64	1183	4.85	3.10	0.64	1263	4.74	3.03	0.64	1322	4.60	2.94	0.64	1371	4.22	2.70	0.64	1457	3.48	2.23	0.64	1513	5.01	3.20	0.64	1133	4.94	3.16	0.64	1183	4.85	3.10	0.64	1263	4.74	3.03	0.64	1322	4.60	2.94	0.64	1371
22	20	5.16	2.68	0.52	1157	5.09	2.65	0.52	1207	5.00	2.60	0.52	1287	4.88	2.54	0.52	1345	4.74	2.47	0.52	1395	4.35	2.26	0.52	1481	3.59	1.87	0.52	1536	5.16	2.68	0.52	1157	5.09	2.65	0.52	1207	5.00	2.60	0.52	1287	4.88	2.54	0.52	1345	4.74	2.47	0.52	1395
22	22	5.25	2.10	0.40	1173	5.18	2.07	0.40	1223	5.08	2.03	0.40	1303	4.97	1.99	0.40	1362	4.82	1.93	0.40	1411	4.43	1.77	0.40	1497	3.65	1.46	0.40	1553	5.25	2.10	0.40	1173	5.18	2.07	0.40	1223	5.08	2.03	0.40	1303	4.97	1.99	0.40	1362	4.82	1.93	0.40	1411
23	18	5.11	3.47	0.68	1144	5.04	3.43	0.68	1195	4.95	3.37	0.68	1276	4.83	3.29	0.68	1335	4.69	3.19	0.68	1385	4.31	2.93	0.68	1472	3.55	2.42	0.68	1528	5.11	3.47	0.68	1144	5.04	3.43	0.68	1195	4.95	3.37	0.68	1276	4.83	3.29	0.68	1335	4.69	3.19	0.68	1385
23	20	5.27	2.95	0.56	1168	5.19	2.91	0.56	1219	5.10	2.86	0.56	1300	4.98	2.79	0.56	1359	4.84	2.71	0.56	1409	4.44	2.49	0.56	1496	3.66	2.05	0.56	1552	5.27	2.95	0.56	1168	5.19	2.91	0.56	1219	5.10	2.86	0.56	1300	4.98	2.79	0.56	1359	4.84	2.71	0.56	1409
23	22	5.36	2.36	0.44	1185	5.28	2.32	0.44	1235	5.19	2.28	0.44	1316	5.07	2.23	0.44	1375	4.92	2.16	0.44	1426	4.52	1.99	0.44	1512	3.73	1.64	0.44	1568	5.36	2.36	0.44	1185	5.28	2.32	0.44	1235	5.19	2.28	0.44	1316	5.07	2.23	0.44	1375	4.92	2.16	0.44	1426
24	18	5.21	3.75	0.72	1156	5.14	3.70	0.72	1207	5.05	3.64	0.72	1289	4.93	3.55	0.72	1348	4.79	3.45	0.72	1399	4.40	3.17	0.72	1487	3.63	2.61	0.72	1543	5.21	3.75	0.72	1156	5.14	3.70	0.72	1207	5.05	3.64	0.72	1289	4.93	3.55	0.72	1348	4.79	3.45	0.72	1399
24	20	5.37	3.22	0.60	1180	5.30	3.18	0.60	1231	5.21	3.12	0.60	1313	5.08	3.05	0.60	1373	4.94	2.96	0.60	1423	4.53	2.72	0.60	1511	3.74	2.24	0.60	1568	5.37	3.22	0.60	1180	5.30	3.18	0.60	1231	5.21	3.12	0.60	1313	5.08	3.05	0.60	1373	4.94	2.96	0.60	1423
24	22	5.47	2.62	0.48	1197	5.39	2.59	0.48	1248	5.29	2.54	0.48	1329	5.17	2.48	0.48	1389	5.02	2.41	0.48	1440	4.61	2.21	0.48	1527	3.80	1.82	0.48	1584	5.47	2.62	0.48	1197	5.39	2.59	0.48	1248	5.29	2.54	0.48	1329	5.17	2.48	0.48	1389	5.02	2.41	0.48	1440
24	24	5.54	2.00	0.36	1216	5.47	1.97	0.36	1267	5.37	1.93	0.36	1349	5.24	1.89	0.36	1409	5.09	1.83	0.36	1459	4.67	1.68	0.36	1547	3.85	1.39	0.36	1604	5.54	2.00	0.36	1216	5.47	1.97	0.36	1267	5.37	1.93	0.36	1349	5.24	1.89	0.36	1409	5.09	1.83	0.36	1459
25	18	5.38	4.09	0.76	1167	5.30	4.03	0.76	1219	5.21	3.96	0.76	1302	5.09	3.87	0.76	1362	4.94	3.75	0.76	1413	4.53	3.44	0.76	1502	3.74	2.84	0.76	1559	5.38	4.09	0.76	1167	5.30	4.03	0.76	1219	5.21	3.96	0.76	1302	5.09	3.87	0.76	1362	4.94	3.75	0.76	1413
25	20	5.54	3.55	0.64	1192	5.46	3.50	0.64	1244	5.37	3.43	0.64	1326	5.24	3.35	0.64	1387	5.09	3.26	0.64	1438	4.67	2.99	0.64	1526	3.85	2.47	0.64	1583	5.54	3.55	0.64	1192	5.46	3.50	0.64	1244	5.37	3.43	0.64	1326	5.24	3.35	0.64	1387	5.09	3.26	0.64	1438
25	22	5.63	2.93	0.52	1209	5.56	2.89	0.52	1260	5.46	2.84	0.52	1343	5.33	2.77	0.52	1403	5.18	2.69	0.52	1454	4.75	2.47	0.52	1543	3.92	2.04	0.52	1600	5.63	2.93	0.52	1209	5.56	2.89	0.52	1260	5.46	2.84	0.52	1343	5.33	2.77	0.52	1403	5.18	2.69	0.52	1454
25	24	5.71	2.29	0.40	1228	5.63	2.25	0.40	1280	5.53	2.21	0.40	1362	5.40	2.16	0.40	1423	5.25	2.10	0.40	1474	4.82	1.93	0.40	1562	3.97	1.59	0.40	1620	5.71	2.29	0.40	1228	5.63	2.25	0.40	1280	5.53	2.21	0.40	1362	5.40	2.16	0.40	1423	5.25	2.10	0.40	1474
26	18	5.54	4.43	0.80	1179	5.47	4.37	0.80	1231	5.37	4.29	0.80	1315	5.24	4.19	0.80	1376	5.09	4.07	0.80	1428	4.67	3.74	0.80	1517	3.86	3.08	0.80	1575	5.54	4.43	0.80	1179	5.47	4.37	0.80	1231	5.37	4.29	0.80	1315	5.24	4.19	0.80	1376	5.09	4.07	0.80	1428
26	20	5.71	3.88	0.68	1204	5.63	3.83	0.68	1256	5.53	3.76	0.68	1340	5.40	3.67	0.68	1401	5.25	3.57	0.68	1452	4.82	3.27	0.68	1541	3.97	2.70	0.68	1599	5.71	3.88	0.68	1204	5.63	3.83	0.68	1256	5.53	3.76	0.68	1340	5.40	3.67	0.68	1401	5.25	3.57	0.68	1452
26	22	5.81	3.25	0.56	1221	5.73	3.21	0.56	1273	5.63	3.15	0.56	1356	5.50	3.08	0.56	1417	5.34	2.99	0.56	1469	4.90	2.74	0.56	1558	4.04	2.26	0.56	1616	5.81	3.25	0.56	1221	5.73	3.21	0.56	1273	5.63	3.15	0.56	1356	5.50	3.08	0.56	1417	5.34	2.99	0.56	1469
26	24	5.89	2.59	0.44	1241	5.81	2.56	0.44	1293	5.71	2.51	0.44	1376	5.57	2.45	0.44	1437	5.41	2.38	0.44	1489	4.97	2.19	0.44	1578	4.10	1.80	0.44	1636	5.89	2.59	0.44	1241	5.81	2.56	0.44	1293	5.71	2.51	0.44	1376	5.57	2.45	0.44	1437	5.41	2.38	0.44	1489
26	26	5.98	1.91	0.32	1263	5.90	1.89	0.32	1316	5.80	1.86	0.32	1399	5.66	1.81	0.32	1460	5.50	1.76	0.32	1512	5.05	1.61	0.32	1601	4.16	1.33	0.32	1659	5.98	1.91	0.32	1263	5.90	1.89	0.32	1316	5.80	1.86	0.32	1399	5.66	1.81	0.32	1460	5.50	1.76	0.32	1512
27	18	5.65	4.75	0.84	1191	5.58	4.68	0.84	1244	5.48	4.60	0.84	1328	5.35	4.49	0.84	1390	5.19	4.36	0.84	1442	4.77	4.01	0.84	1532	3.93	3.30	0.84	1591	5.65	4.75	0.84	1191	5.58	4.68	0.84	1244	5.48	4.60	0.84	1328	5.35	4.49	0.84	1390	5.19	4.36	0.84	1442
27	19	5.77	4.50	0.78	1201	5.69	4.44	0.78	1254	5.59	4.36	0.78	1338	5.46	4.26	0.78	1400	5.30	4.13	0.78	1452	4.87	3.80	0.78	1542	4.01	3.13	0.78	1601	5.77	4.50	0.78	1201	5.69	4.44	0.78	1254	5.59	4.36	0.78	1338	5.46	4.26	0.78	1400	5.30	4.13	0.78	1452
27	20	5.83	4.20	0.72	1216	5.75	4.14	0.72	1269	5.65	4.07	0.72	1353	5.51	3.97	0.72	1415	5.35	3.85	0.72	1467	4.91	3.54	0.72	1557	4.05	2.92	0.72	1616	5.83	4.20	0.72	1216	5.75	4.14	0.72	1269	5.65	4.07	0.72	1353	5.51	3.97	0.72	1415	5.35	3.85	0.72	1467
27	22	5.93	3.56	0.60	1233	5.85	3.51	0.60	1286	5.74	3.45	0.60	1370	5.61	3.36	0.60	1432	5.44	3.27	0.60	1484	5.00	3.00	0.60	1574	4.12	2.47	0.60	1633	5.93	3.56	0.60	1233	5.85	3.51	0.60	1286	5.74	3.45	0.60	1370	5.61	3.36	0.60	1432	5.44	3.27	0.60	1484
27	24	6.01	2.88	0.48	1253	5.93	2.85	0.48	1306	5.82	2.79	0.48	1390	5.69	2.73	0.48	1452	5.52	2.65	0.48	1504	5.07	2.43	0.48	1594	4.18	2.01	0.48	1653	6.01	2.88	0.48	1253	5.93	2.85	0.48	1306	5.82	2.79	0.48	1390	5.69	2.73	0.48	1452	5.52	2.65	0.48	1504
27	26	6.11	2.20	0.36	1276	6.02	2.17	0.36	1329	5.92	2.13	0.36	1413	5.78	2.08	0.36	1475	5.61	2.02	0.36	1527	5.15	1.85	0.36	1617	4.25	1.53	0.36	1676	6.11	2.20	0.36	1276	6.02	2.17	0.36	1329	5.92	2.13	0.36	1413	5.78	2.08	0.36	1475	5.61	2.02	0.36	1527
28	18	5.71	5.03	0.88	1203	5.63	4.96	0.88	1256	5.53	4.87	0.88	1341	5.40	4.75	0.88	1404	5.25	4.62	0.88	1456	4.82	4.24	0.88	1547	3.97	3.50	0.88	1607	5.71	5.03	0.88	1203	5.63	4.96	0.88	1256	5.53	4.87	0.88	1341	5.40	4.75	0.88	1404	5.25	4.62	0.88	1456
28	20	5.83	4.43	0.76	1228	5.75	4.37	0.76	1282	5.65	4.29	0.76	1367	5.51	4.19	0.76	1429	5.35	4.07	0.76	1482	4.91	3.73	0.76	1573	4.05	3.08	0.76	1632	5.83	4.43	0.76	1228	5.75	4.37	0.76	1282	5.65	4.29	0.76	1367	5.51	4.19	0.76	1429	5.35	4.07	0.76	1482
28	22	5.89	3.77	0.64	1246	5.81	3.72	0.64	1299	5.70	3.65	0.64	1384	5.57	3.56	0.64	1446	5.41	3.46	0.64	1499	4.96	3.18	0.64	1590	4.09	2.62	0.64	1649	5.89	3.77	0.64	1246	5.81	3.72	0.64	1299	5.70	3.65	0.64	1384	5.57	3.56	0.64	1446	5.41	3.46	0.64	1499
28	24	5.99	3.11	0.52	1266	5.90	3.07	0.52	1319	5.80	3.02	0.52	1404	5.66	2.94	0.52	1466	5.50	2.86	0.52	1519	5.05	2.62	0.52	1610	4.16	2.17	0.52	1669	5.99	3.11	0.52	1266	5.90	3.07	0.52	1319	5.80	3.02	0.52	1404	5.66	2.94	0.52	1466	5.50	2.86	0.52	1519
28	26	6.07	2.43	0.40	1289	5.99	2.39	0.40	1342	5.88	2.35	0.40	1427	5.74	2.30	0.40	1489	5.58	2.23	0.40	1542	5.12	2.05	0.40	1633	4.22	1.69	0.40	1692	6.07	2.43	0.40	1289	5.99	2.39	0.40	1342	5.88	2.35	0.40	1427	5.74	2.30	0.40	1489	5.58	2.23	0.40	1542
29	18	5.77	5.19	0.90	1215	5.69	5.12	0.90	1269	5.59	5.03	0.90	1355	5.46	4.91	0.90	1418	5.30	4.77	0.90	1471	4.86	4.38	0.90	1563	4.01	3.61	0.90	1623	5.77	5.19	0.90	1215	5.69	5.12	0.90	1269	5.59	5.03	0.90	1355	5.46	4.91	0.90	1418	5.30	4.77	0.90	1471
29	20	5.89	4.71	0.80	1241	5.81	4.64	0.80	1294	5.70	4.56	0.80	1380	5.57	4.45	0.80	1443	5.41	4.33	0.80	1496	4.96	3.97	0.80	1588	4.09	3.28	0.80	1648	5.89	4.71	0.80	1241	5.81	4.64	0.80	1294	5.70	4.56	0.80	1380	5.57	4.45	0.80	1443	5.41	4.33	0.80	1496

4. CAPACITIES AND SELECTION DATA

PERFORMANCE DATA (Cooling Operation at Rated Frequency)

AUC-18UR4RXJC1

CAPACITY: 5.3kW SHF: 0.78 INPUT: 1452 W

ID DB (°C)	IN WB (°C)	-15				-5				0				5				10				15				20				25				30				35				40				45			
		Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
29	22	6.00	4.08	0.68	1258	5.92	4.03	0.68	1312	5.82	3.96	0.68	1398	5.68	3.86	0.68	1461	5.51	3.75	0.68	1514	5.06	3.44	0.68	1606	4.18	2.84	0.68	1665	6.00	4.08	0.68	1258	5.92	4.03	0.68	1312	5.82	3.96	0.68	1398	5.68	3.86	0.68	1461	5.51	3.75	0.68	1514
29	24	6.05	3.39	0.56	1278	5.96	3.34	0.56	1332	5.86	3.28	0.56	1418	5.72	3.20	0.56	1481	5.55	3.11	0.56	1534	5.10	2.85	0.56	1626	4.21	2.36	0.56	1686	6.05	3.39	0.56	1278	5.96	3.34	0.56	1332	5.86	3.28	0.56	1418	5.72	3.20	0.56	1481	5.55	3.11	0.56	1534
29	26	6.13	2.70	0.44	1302	6.05	2.66	0.44	1356	5.94	2.61	0.44	1442	5.80	2.55	0.44	1504	5.63	2.48	0.44	1558	5.17	2.27	0.44	1650	4.26	1.88	0.44	1709	6.13	2.70	0.44	1302	6.05	2.66	0.44	1356	5.94	2.61	0.44	1442	5.80	2.55	0.44	1504	5.63	2.48	0.44	1558
30	18	5.83	5.24	0.90	1227	5.75	5.17	0.90	1282	5.64	5.08	0.90	1368	5.51	4.96	0.90	1432	5.35	4.82	0.90	1486	4.91	4.42	0.90	1578	4.05	3.65	0.90	1639	5.83	5.24	0.90	1227	5.75	5.17	0.90	1282	5.64	5.08	0.90	1368	5.51	4.96	0.90	1432	5.35	4.82	0.90	1486
30	20	5.95	4.99	0.84	1253	5.86	4.92	0.84	1307	5.76	4.84	0.84	1394	5.62	4.72	0.84	1458	5.46	4.59	0.84	1511	5.01	4.21	0.84	1604	4.14	3.47	0.84	1665	5.95	4.99	0.84	1253	5.86	4.92	0.84	1307	5.76	4.84	0.84	1394	5.62	4.72	0.84	1458	5.46	4.59	0.84	1511
30	22	6.06	4.37	0.72	1271	5.98	4.31	0.72	1325	5.87	4.23	0.72	1412	5.74	4.13	0.72	1475	5.57	4.01	0.72	1529	5.11	3.68	0.72	1622	4.22	3.04	0.72	1682	6.06	4.37	0.72	1271	5.98	4.31	0.72	1325	5.87	4.23	0.72	1412	5.74	4.13	0.72	1475	5.57	4.01	0.72	1529
30	24	6.11	3.66	0.60	1291	6.02	3.61	0.60	1345	5.92	3.55	0.60	1432	5.78	3.47	0.60	1496	5.61	3.37	0.60	1550	5.15	3.09	0.60	1642	4.25	2.55	0.60	1703	6.11	3.66	0.60	1291	6.02	3.61	0.60	1345	5.92	3.55	0.60	1432	5.78	3.47	0.60	1496	5.61	3.37	0.60	1550
30	26	6.19	2.97	0.48	1315	6.11	2.93	0.48	1369	6.00	2.88	0.48	1456	5.86	2.81	0.48	1519	5.69	2.73	0.48	1573	5.22	2.51	0.48	1666	4.31	2.07	0.48	1726	6.19	2.97	0.48	1315	6.11	2.93	0.48	1369	6.00	2.88	0.48	1456	5.86	2.81	0.48	1519	5.69	2.73	0.48	1573
31	18	5.88	5.30	0.90	1240	5.80	5.22	0.90	1294	5.70	5.13	0.90	1382	5.57	5.01	0.90	1446	5.40	4.86	0.90	1501	4.96	4.47	0.90	1594	4.09	3.68	0.90	1655	5.88	5.30	0.90	1240	5.80	5.22	0.90	1294	5.70	5.13	0.90	1382	5.57	5.01	0.90	1446	5.40	4.86	0.90	1501
31	20	6.00	5.28	0.88	1266	5.92	5.21	0.88	1320	5.82	5.12	0.88	1408	5.68	5.00	0.88	1472	5.52	4.85	0.88	1527	5.06	4.46	0.88	1620	4.18	3.68	0.88	1681	6.00	5.28	0.88	1266	5.92	5.21	0.88	1320	5.82	5.12	0.88	1408	5.68	5.00	0.88	1472	5.52	4.85	0.88	1527
31	22	6.12	4.65	0.76	1283	6.04	4.59	0.76	1338	5.93	4.51	0.76	1426	5.79	4.40	0.76	1490	5.63	4.28	0.76	1544	5.16	3.92	0.76	1638	4.26	3.24	0.76	1699	6.12	4.65	0.76	1283	6.04	4.59	0.76	1338	5.93	4.51	0.76	1426	5.79	4.40	0.76	1490	5.63	4.28	0.76	1544
31	24	6.17	3.95	0.64	1304	6.08	3.89	0.64	1359	5.98	3.82	0.64	1447	5.84	3.73	0.64	1511	5.67	3.63	0.64	1565	5.20	3.33	0.64	1659	4.29	2.75	0.64	1720	6.17	3.95	0.64	1304	6.08	3.89	0.64	1359	5.98	3.82	0.64	1447	5.84	3.73	0.64	1511	5.67	3.63	0.64	1565
31	26	6.25	3.25	0.52	1328	6.17	3.21	0.52	1383	6.06	3.15	0.52	1471	5.92	3.08	0.52	1535	5.74	2.99	0.52	1589	5.27	2.74	0.52	1683	4.35	2.26	0.52	1744	6.25	3.25	0.52	1328	6.17	3.21	0.52	1383	6.06	3.15	0.52	1471	5.92	3.08	0.52	1535	5.74	2.99	0.52	1589
32	18	5.94	5.35	0.90	1252	5.86	5.28	0.90	1307	5.76	5.18	0.90	1396	5.62	5.06	0.90	1461	5.46	4.91	0.90	1516	5.01	4.51	0.90	1610	4.13	3.72	0.90	1672	5.94	5.35	0.90	1252	5.86	5.28	0.90	1307	5.76	5.18	0.90	1396	5.62	5.06	0.90	1461	5.46	4.91	0.90	1516
32	20	6.06	5.46	0.90	1278	5.98	5.38	0.90	1334	5.88	5.29	0.90	1422	5.74	5.16	0.90	1487	5.57	5.01	0.90	1542	5.11	4.60	0.90	1636	4.22	3.80	0.90	1698	6.06	5.46	0.90	1278	5.98	5.38	0.90	1334	5.88	5.29	0.90	1422	5.74	5.16	0.90	1487	5.57	5.01	0.90	1542
32	22	6.19	4.95	0.80	1296	6.10	4.88	0.80	1351	5.99	4.79	0.80	1440	5.85	4.68	0.80	1505	5.68	4.55	0.80	1560	5.22	4.17	0.80	1654	4.30	3.44	0.80	1716	6.19	4.95	0.80	1296	6.10	4.88	0.80	1351	5.99	4.79	0.80	1440	5.85	4.68	0.80	1505	5.68	4.55	0.80	1560
32	24	6.23	4.24	0.68	1317	6.14	4.18	0.68	1372	6.03	4.10	0.68	1461	5.89	4.01	0.68	1526	5.72	3.89	0.68	1581	5.25	3.57	0.68	1675	4.33	2.95	0.68	1737	6.23	4.24	0.68	1317	6.14	4.18	0.68	1372	6.03	4.10	0.68	1461	5.89	4.01	0.68	1526	5.72	3.89	0.68	1581
32	26	6.32	3.54	0.56	1341	6.23	3.49	0.56	1397	6.12	3.43	0.56	1485	5.98	3.35	0.56	1550	5.80	3.25	0.56	1605	5.33	2.98	0.56	1700	4.39	2.46	0.56	1761	6.32	3.54	0.56	1341	6.23	3.49	0.56	1397	6.12	3.43	0.56	1485	5.98	3.35	0.56	1550	5.80	3.25	0.56	1605

PERFORMANCE DATA (Heating Operation at Rated Frequency)

AUC-18UR4RXJC1

CAPACITY: 6.0kW   INPUT: 1622W

INDOOR DB (°C)	-15		-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
10	5.28	1364	6.53	1397	6.60	1437	6.67	1471	6.75	1573	6.82	1622	6.90	1655	5.28	1364
12	5.14	1394	6.21	1426	6.46	1463	6.53	1497	6.61	1596	6.68	1645	6.76	1681	5.14	1394
14	5.00	1423	5.60	1456	6.32	1490	6.40	1523	6.47	1619	6.55	1669	6.62	1708	5.00	1423
16	4.87	1452	5.47	1485	6.19	1517	6.26	1550	6.34	1643	6.41	1692	6.49	1733	4.87	1452
18	4.73	1482	5.33	1514	5.94	1544	6.00	1576	6.20	1667	6.27	1715	6.35	1760	4.73	1482
20	4.59	1511	5.19	1543	5.91	1570	5.98	1602	6.17	1690	6.13	1739	6.21	1786	4.59	1511
22	4.45	1540	5.05	1573	5.77	1597	5.84	1628	5.92	1713	6.05	1762	6.07	1813	4.45	1540
24	4.31	1570	4.91	1602	5.63	1624	5.71	1655	5.78	1736	5.86	1786	5.93	1839	4.31	1570
26	4.18	1599	4.78	1632	5.50	1651	5.57	1681	5.65	1759	5.72	1810	5.80	1866	4.18	1599
28	4.04	1629	4.64	1661	5.36	1677	5.43	1707	5.51	1783	5.58	1833	5.66	1892	4.04	1629
30	3.90	1658	4.50	1690	5.22	1704	5.29	1734	5.37	1806	5.44	1857	5.52	1919	3.90	1658

4. CAPACITIES AND SELECTION DATA

AUC-24UR4RBJC1

PERFORMANCE DATA (Cooling Operation at Rated Frequency)

AUC-24UR4RBJC1

CAPACITY: 10.2 kW   SHF: 0.77   INPUT: 3090 W

ID DB (°C)	IN WB (°C)	-15 Q	SHC	SHF	IPT	-5 Q	SHC	SHF	IPT	0 Q	SHC	SHF	IPT	5 Q	SHC	SHF	IPT	10 Q	SHC	SHF	IPT	15 Q	SHC	SHF	IPT	20 Q	SHC	SHF	IPT	25 Q	SHC	SHF	IPT	30 Q	SHC	SHF	IPT	35 Q	SHC	SHF	IPT	40 Q	SHC	SHF	IPT	45 Q	SHC	SHF	IPT
21	18	6.69	3.68	0.55	1712	6.60	3.63	0.55	1787	6.48	3.56	0.55	1908	6.33	3.48	0.55	1996	6.15	3.38	0.55	2071	5.64	3.10	0.55	2200	4.65	2.56	0.55	2284	6.69	3.68	0.55	1712	6.60	3.63	0.55	1787	6.48	3.56	0.55	1908	6.33	3.48	0.55	1996	6.15	3.38	0.55	2071
21	20	6.97	3.00	0.43	1735	6.87	2.95	0.43	1811	6.75	2.90	0.43	1932	6.59	2.83	0.43	2020	6.40	2.75	0.43	2095	5.87	2.53	0.43	2224	4.85	2.08	0.43	2308	6.97	3.00	0.43	1735	6.87	2.95	0.43	1811	6.75	2.90	0.43	1932	6.59	2.83	0.43	2020	6.40	2.75	0.43	2095
22	18	6.90	4.07	0.59	1729	6.80	4.01	0.59	1805	6.68	3.94	0.59	1927	6.53	3.85	0.59	2017	6.34	3.74	0.59	2092	5.82	3.43	0.59	2222	4.80	2.83	0.59	2307	6.90	4.07	0.59	1729	6.80	4.01	0.59	1805	6.68	3.94	0.59	1927	6.53	3.85	0.59	2017	6.34	3.74	0.59	2092
22	20	7.11	3.34	0.47	1753	7.01	3.29	0.47	1829	6.89	3.24	0.47	1951	6.73	3.16	0.47	2040	6.53	3.07	0.47	2116	5.99	2.82	0.47	2246	4.94	2.32	0.47	2331	7.11	3.34	0.47	1753	7.01	3.29	0.47	1829	6.89	3.24	0.47	1951	6.73	3.16	0.47	2040	6.53	3.07	0.47	2116
22	22	7.23	2.53	0.35	1769	7.13	2.50	0.35	1845	7.00	2.45	0.35	1967	6.84	2.39	0.35	2056	6.64	2.32	0.35	2132	6.10	2.13	0.35	2262	5.03	1.76	0.35	2347	7.23	2.53	0.35	1769	7.13	2.50	0.35	1845	7.00	2.45	0.35	1967	6.84	2.39	0.35	2056	6.64	2.32	0.35	2132
23	18	7.04	4.43	0.63	1747	6.94	4.37	0.63	1824	6.82	4.30	0.63	1947	6.66	4.19	0.63	2037	6.46	4.07	0.63	2113	5.93	3.74	0.63	2245	4.90	3.08	0.63	2331	7.04	4.43	0.63	1747	6.94	4.37	0.63	1824	6.82	4.30	0.63	1947	6.66	4.19	0.63	2037	6.46	4.07	0.63	2113
23	20	7.25	3.70	0.51	1771	7.15	3.65	0.51	1848	7.03	3.58	0.51	1971	6.86	3.50	0.51	2061	6.66	3.40	0.51	2137	6.12	3.12	0.51	2269	5.05	2.57	0.51	2355	7.25	3.70	0.51	1771	7.15	3.65	0.51	1848	7.03	3.58	0.51	1971	6.86	3.50	0.51	2061	6.66	3.40	0.51	2137
23	22	7.38	2.88	0.39	1787	7.28	2.84	0.39	1864	7.15	2.79	0.39	1987	6.98	2.72	0.39	2077	6.78	2.64	0.39	2154	6.22	2.43	0.39	2285	5.13	2.00	0.39	2371	7.38	2.88	0.39	1787	7.28	2.84	0.39	1864	7.15	2.79	0.39	1987	6.98	2.72	0.39	2077	6.78	2.64	0.39	2154
24	18	7.18	4.81	0.67	1764	7.08	4.75	0.67	1842	6.96	4.66	0.67	1967	6.79	4.55	0.67	2057	6.60	4.42	0.67	2135	6.06	4.06	0.67	2268	5.00	3.35	0.67	2354	7.18	4.81	0.67	1764	7.08	4.75	0.67	1842	6.96	4.66	0.67	1967	6.79	4.55	0.67	2057	6.60	4.42	0.67	2135
24	20	7.40	4.07	0.55	1788	7.30	4.01	0.55	1866	7.17	3.94	0.55	1991	7.00	3.85	0.55	2082	6.80	3.74	0.55	2159	6.24	3.43	0.55	2292	5.15	2.83	0.55	2378	7.40	4.07	0.55	1788	7.30	4.01	0.55	1866	7.17	3.94	0.55	1991	7.00	3.85	0.55	2082	6.80	3.74	0.55	2159
24	22	7.53	3.24	0.43	1805	7.42	3.19	0.43	1883	7.29	3.14	0.43	2007	7.12	3.06	0.43	2098	6.91	2.97	0.43	2175	6.35	2.73	0.43	2308	5.24	2.25	0.43	2395	7.53	3.24	0.43	1805	7.42	3.19	0.43	1883	7.29	3.14	0.43	2007	7.12	3.06	0.43	2098	6.91	2.97	0.43	2175
24	24	7.63	2.37	0.31	1824	7.53	2.33	0.31	1902	7.39	2.29	0.31	2027	7.22	2.24	0.31	2118	7.01	2.17	0.31	2195	6.44	2.00	0.31	2328	5.31	1.65	0.31	2414	7.63	2.37	0.31	1824	7.53	2.33	0.31	1902	7.39	2.29	0.31	2027	7.22	2.24	0.31	2118	7.01	2.17	0.31	2195
25	18	7.40	5.26	0.71	1782	7.30	5.18	0.71	1861	7.17	5.09	0.71	1986	7.00	4.97	0.71	2078	6.80	4.83	0.71	2156	6.24	4.43	0.71	2291	5.15	3.66	0.71	2378	7.40	5.26	0.71	1782	7.30	5.18	0.71	1861	7.17	5.09	0.71	1986	7.00	4.97	0.71	2078	6.80	4.83	0.71	2156
25	20	7.63	4.50	0.59	1807	7.53	4.44	0.59	1885	7.39	4.36	0.59	2011	7.22	4.26	0.59	2103	7.01	4.14	0.59	2181	6.43	3.80	0.59	2315	5.31	3.13	0.59	2402	7.63	4.50	0.59	1807	7.53	4.44	0.59	1885	7.39	4.36	0.59	2011	7.22	4.26	0.59	2103	7.01	4.14	0.59	2181
25	22	7.76	3.65	0.47	1823	7.65	3.60	0.47	1902	7.52	3.53	0.47	2028	7.34	3.45	0.47	2119	7.13	3.35	0.47	2197	6.54	3.08	0.47	2332	5.40	2.54	0.47	2419	7.76	3.65	0.47	1823	7.65	3.60	0.47	1902	7.52	3.53	0.47	2028	7.34	3.45	0.47	2119	7.13	3.35	0.47	2197
25	24	7.87	2.75	0.35	1843	7.76	2.72	0.35	1921	7.62	2.67	0.35	2047	7.44	2.61	0.35	2139	7.23	2.53	0.35	2217	6.64	2.32	0.35	2351	5.47	1.92	0.35	2439	7.87	2.75	0.35	1843	7.76	2.72	0.35	1921	7.62	2.67	0.35	2047	7.44	2.61	0.35	2139	7.23	2.53	0.35	2217
26	18	7.63	5.72	0.75	1800	7.53	5.65	0.75	1879	7.39	5.55	0.75	2006	7.22	5.42	0.75	2099	7.01	5.26	0.75	2178	6.44	4.83	0.75	2314	5.31	3.98	0.75	2402	7.63	5.72	0.75	1800	7.53	5.65	0.75	1879	7.39	5.55	0.75	2006	7.22	5.42	0.75	2099	7.01	5.26	0.75	2178
26	20	7.87	4.96	0.63	1825	7.76	4.89	0.63	1904	7.62	4.80	0.63	2031	7.44	4.69	0.63	2124	7.23	4.55	0.63	2203	6.63	4.18	0.63	2338	5.47	3.45	0.63	2427	7.87	4.96	0.63	1825	7.76	4.89	0.63	1904	7.62	4.80	0.63	2031	7.44	4.69	0.63	2124	7.23	4.55	0.63	2203
26	22	8.00	4.08	0.51	1842	7.89	4.02	0.51	1921	7.75	3.95	0.51	2048	7.57	3.86	0.51	2141	7.35	3.75	0.51	2220	6.75	3.44	0.51	2355	5.57	2.84	0.51	2444	8.00	4.08	0.51	1842	7.89	4.02	0.51	1921	7.75	3.95	0.51	2048	7.57	3.86	0.51	2141	7.35	3.75	0.51	2220
26	24	8.11	3.16	0.39	1861	8.00	3.12	0.39	1941	7.86	3.07	0.39	2068	7.67	2.99	0.39	2161	7.45	2.91	0.39	2239	6.84	2.67	0.39	2375	5.64	2.20	0.39	2463	8.11	3.16	0.39	1861	8.00	3.12	0.39	1941	7.86	3.07	0.39	2068	7.67	2.99	0.39	2161	7.45	2.91	0.39	2239
26	26	8.24	2.23	0.27	1884	8.13	2.19	0.27	1964	7.98	2.16	0.27	2091	7.80	2.11	0.27	2183	7.57	2.04	0.27	2262	6.95	1.88	0.27	2398	5.73	1.55	0.27	2486	8.24	2.23	0.27	1884	8.13	2.19	0.27	1964	7.98	2.16	0.27	2091	7.80	2.11	0.27	2183	7.57	2.04	0.27	2262
27	18	7.79	6.15	0.79	1818	7.68	6.07	0.79	1898	7.55	5.96	0.79	2027	7.37	5.82	0.79	2120	7.15	5.65	0.79	2200	6.57	5.19	0.79	2337	5.42	4.28	0.79	2426	7.79	6.15	0.79	1818	7.68	6.07	0.79	1898	7.55	5.96	0.79	2027	7.37	5.82	0.79	2120	7.15	5.65	0.79	2200
27	19	7.95	5.80	0.73	1828	7.84	5.72	0.73	1908	7.70	5.62	0.73	2037	7.52	5.49	0.73	2130	7.30	5.33	0.73	2210	6.70	4.89	0.73	2347	5.53	4.04	0.73	2436	7.95	5.80	0.73	1828	7.84	5.72	0.73	1908	7.70	5.62	0.73	2037	7.52	5.49	0.73	2130	7.30	5.33	0.73	2210
27	20	8.03	5.38	0.67	1843	7.92	5.30	0.67	1923	7.78	5.21	0.67	2052	7.59	5.09	0.67	2145	7.37	4.94	0.67	2225	6.77	4.53	0.67	2362	5.58	3.74	0.67	2451	8.03	5.38	0.67	1843	7.92	5.30	0.67	1923	7.78	5.21	0.67	2052	7.59	5.09	0.67	2145	7.37	4.94	0.67	2225
27	22	8.16	4.49	0.55	1860	8.05	4.43	0.55	1940	7.91	4.35	0.55	2069	7.72	4.25	0.55	2162	7.50	4.12	0.55	2242	6.88	3.79	0.55	2379	5.68	3.12	0.55	2468	8.16	4.49	0.55	1860	8.05	4.43	0.55	1940	7.91	4.35	0.55	2069	7.72	4.25	0.55	2162	7.50	4.12	0.55	2242
27	24	8.28	3.56	0.43	1880	8.16	3.51	0.43	1960	8.02	3.45	0.43	2089	7.83	3.37	0.43	2182	7.60	3.27	0.43	2262	6.98	3.00	0.43	2399	5.76	2.48	0.43	2488	8.28	3.56	0.43	1880	8.16	3.51	0.43	1960	8.02	3.45	0.43	2089	7.83	3.37	0.43	2182	7.60	3.27	0.43	2262
27	26	8.41	2.61	0.31	1903	8.29	2.57	0.31	1983	8.15	2.53	0.31	2112	7.96	2.47	0.31	2205	7.72	2.39	0.31	2285	7.09	2.20	0.31	2422	5.85	1.81	0.31	2511	8.41	2.61	0.31	1903	8.29	2.57	0.31	1983	8.15	2.53	0.31	2112	7.96	2.47	0.31	2205	7.72	2.39	0.31	2285
28	18	7.87	6.53	0.83	1836	7.76	6.44	0.83	1917	7.62	6.33	0.83	2047	7.44	6.18	0.83	2142	7.23	6.00	0.83	2222	6.63	5.51	0.83	2360	5.47	4.54	0.83	2450	7.87	6.53	0.83	1836	7.76	6.44	0.83	1917	7.62	6.33	0.83	2047	7.44	6.18	0.83	2142	7.23	6.00	0.83	2222
28	20	8.03	5.70	0.71	1862	7.92	5.62	0.71	1943	7.78	5.52	0.71	2072	7.59	5.39	0.71	2167	7.37	5.23	0.71	2247	6.77	4.81	0.71	2386	5.58	3.96	0.71	2476	8.03	5.70	0.71	1862	7.92	5.62	0.71	1943	7.78	5.52	0.71	2072	7.59	5.39	0.71	2167	7.37	5.23	0.71	2247
28	22	8.11	4.78	0.59	1879	8.00	4.72	0.59	1960	7.85	4.63	0.59	2089	7.67	4.53	0.59	2184	7.45	4.39	0.59	2264	6.84	4.03	0.59	2403	5.64	3.33	0.59	2493	8.11	4.78	0.59	1879	8.00	4.72	0.59	1960	7.85	4.63	0.59	2089	7.67	4.53	0.59	2184	7.45	4.39	0.59	2264
28	24	8.25	3.88	0.47	1899	8.13	3.82	0.47	1980	7.99	3.75	0.47	2110	7.80	3.67	0.47	2204	7.57	3.56	0.47	2285	6.95	3.27	0.47	2423	5.74	2.70	0.47	2513	8.25	3.88	0.47	1899	8.13	3.82	0.47	1980	7.99	3.75	0.47	2110	7.80	3.67	0.47	2204	7.57	3.56	0.47	2285
28	26	8.36	2.93	0.35	1922	8.25	2.89	0.35	2003	8.10	2.83	0.35	2133	7.91	2.77	0.35	2227	7.68	2.69	0.35	2308	7.05	2.47	0.35	2446	5.82	2.04	0.35	2536	8.36	2.93	0.35	1922	8.25	2.89	0.35	2003	8.10	2.83	0.35	2133	7.91	2.77	0.35	2227	7.68	2.69	0.35	2308
29	18	7.95	6.75	0.85	1855	7.84	6.66	0.85	1937	7.70	6.54	0.85	2067	7.52	6.39	0.85	2163	7.30	6.20	0.85	2244	6.70	5.69	0.85	2384	5.53	4.70	0.85	2475	7.95	6.75	0.85	1855	7.84	6.66	0.85	1937	7.70	6.54	0.85	2067	7.52	6.39	0.85	2163	7.30	6.20	0.85	2244
29	20	8.11	6.08	0.75	1880	8.00	6.00	0.75	1962	7.85	5.89	0.75	2093	7.67	5.75	0.75	2189	7.45	5.59	0.75	2270	6.84	5.13	0.75	2409	5.64	4.23	0.75	2500	8.11	6.08	0.75	1880	8.00	6.00	0.75	1962	7.85	5.89	0.75	2093	7.67	5.75	0.75	2189	7.45	5.59	0.75	2270

4. CAPACITIES AND SELECTION DATA

PERFORMANCE DATA (Cooling Operation at Rated Frequency)

AUC-24UR4RBJC1

CAPACITY: 10.2 kW   SHF: 0.77   INPUT: 3090 W

ID DB (°C)	IN WB (°C)	-15				-5				0				5				10				15				20				25				30				35				40				45			
		Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
29	22	8.27	5.21	0.63	1898	8.16	5.14	0.63	1979	8.01	5.05	0.63	2110	7.82	4.93	0.63	2206	7.60	4.79	0.63	2287	6.97	4.39	0.63	2427	5.75	3.62	0.63	2518	8.27	5.21	0.63	1898	8.16	5.14	0.63	1979	8.01	5.05	0.63	2110	7.82	4.93	0.63	2206	7.60	4.79	0.63	2287
29	24	8.33	4.25	0.51	1918	8.21	4.19	0.51	2000	8.07	4.11	0.51	2131	7.88	4.02	0.51	2226	7.65	3.90	0.51	2307	7.02	3.58	0.51	2447	5.79	2.95	0.51	2538	8.33	4.25	0.51	1918	8.21	4.19	0.51	2000	8.07	4.11	0.51	2131	7.88	4.02	0.51	2226	7.65	3.90	0.51	2307
29	26	8.44	3.29	0.39	1941	8.33	3.25	0.39	2023	8.18	3.19	0.39	2154	7.99	3.12	0.39	2250	7.76	3.02	0.39	2331	7.12	2.78	0.39	2471	5.87	2.29	0.39	2562	8.44	3.29	0.39	1941	8.33	3.25	0.39	2023	8.18	3.19	0.39	2154	7.99	3.12	0.39	2250	7.76	3.02	0.39	2331
30	18	8.02	6.82	0.85	1873	7.91	6.73	0.85	1956	7.77	6.61	0.85	2088	7.59	6.45	0.85	2185	7.37	6.27	0.85	2267	6.77	5.75	0.85	2408	5.58	4.74	0.85	2500	8.02	6.82	0.85	1873	7.91	6.73	0.85	1956	7.77	6.61	0.85	2088	7.59	6.45	0.85	2185	7.37	6.27	0.85	2267
30	20	8.19	6.47	0.79	1899	8.08	6.38	0.79	1982	7.93	6.27	0.79	2114	7.75	6.12	0.79	2210	7.52	5.94	0.79	2292	6.90	5.45	0.79	2434	5.70	4.50	0.79	2525	8.19	6.47	0.79	1899	8.08	6.38	0.79	1982	7.93	6.27	0.79	2114	7.75	6.12	0.79	2210	7.52	5.94	0.79	2292
30	22	8.35	5.60	0.67	1917	8.24	5.52	0.67	1999	8.09	5.42	0.67	2131	7.90	5.29	0.67	2228	7.67	5.14	0.67	2310	7.04	4.72	0.67	2451	5.81	3.89	0.67	2543	8.35	5.60	0.67	1917	8.24	5.52	0.67	1999	8.09	5.42	0.67	2131	7.90	5.29	0.67	2228	7.67	5.14	0.67	2310
30	24	8.41	4.63	0.55	1937	8.29	4.56	0.55	2020	8.15	4.48	0.55	2152	7.96	4.38	0.55	2249	7.73	4.25	0.55	2331	7.09	3.90	0.55	2472	5.85	3.22	0.55	2564	8.41	4.63	0.55	1937	8.29	4.56	0.55	2020	8.15	4.48	0.55	2152	7.96	4.38	0.55	2249	7.73	4.25	0.55	2331
30	26	8.53	3.67	0.43	1961	8.41	3.62	0.43	2043	8.26	3.55	0.43	2176	8.07	3.47	0.43	2272	7.83	3.37	0.43	2354	7.19	3.09	0.43	2495	5.93	2.55	0.43	2587	8.53	3.67	0.43	1961	8.41	3.62	0.43	2043	8.26	3.55	0.43	2176	8.07	3.47	0.43	2272	7.83	3.37	0.43	2354
31	18	8.11	6.89	0.85	1892	7.99	6.79	0.85	1975	7.85	6.67	0.85	2109	7.67	6.52	0.85	2207	7.44	6.33	0.85	2289	6.83	5.81	0.85	2432	5.64	4.79	0.85	2525	8.11	6.89	0.85	1892	7.99	6.79	0.85	1975	7.85	6.67	0.85	2109	7.67	6.52	0.85	2207	7.44	6.33	0.85	2289
31	20	8.27	6.86	0.83	1918	8.16	6.77	0.83	2001	8.01	6.65	0.83	2135	7.82	6.49	0.83	2233	7.60	6.31	0.83	2315	6.97	5.79	0.83	2458	5.75	4.78	0.83	2551	8.27	6.86	0.83	1918	8.16	6.77	0.83	2001	8.01	6.65	0.83	2135	7.82	6.49	0.83	2233	7.60	6.31	0.83	2315
31	22	8.44	5.99	0.71	1936	8.32	5.91	0.71	2019	8.17	5.80	0.71	2153	7.98	5.67	0.71	2250	7.75	5.50	0.71	2333	7.11	5.05	0.71	2476	5.87	4.17	0.71	2568	8.44	5.99	0.71	1936	8.32	5.91	0.71	2019	8.17	5.80	0.71	2153	7.98	5.67	0.71	2250	7.75	5.50	0.71	2333
31	24	8.50	5.01	0.59	1957	8.38	4.94	0.59	2040	8.23	4.86	0.59	2174	8.04	4.74	0.59	2271	7.80	4.60	0.59	2354	7.16	4.23	0.59	2496	5.91	3.49	0.59	2589	8.50	5.01	0.59	1957	8.38	4.94	0.59	2040	8.23	4.86	0.59	2174	8.04	4.74	0.59	2271	7.80	4.60	0.59	2354
31	26	8.61	4.05	0.47	1981	8.50	3.99	0.47	2064	8.34	3.92	0.47	2197	8.15	3.83	0.47	2295	7.91	3.72	0.47	2378	7.26	3.41	0.47	2520	5.99	2.82	0.47	2613	8.61	4.05	0.47	1981	8.50	3.99	0.47	2064	8.34	3.92	0.47	2197	8.15	3.83	0.47	2295	7.91	3.72	0.47	2378
32	18	8.19	6.96	0.85	1911	8.07	6.86	0.85	1995	7.93	6.74	0.85	2130	7.74	6.58	0.85	2229	7.52	6.39	0.85	2312	6.90	5.87	0.85	2456	5.69	4.84	0.85	2550	8.19	6.96	0.85	1911	8.07	6.86	0.85	1995	7.93	6.74	0.85	2130	7.74	6.58	0.85	2229	7.52	6.39	0.85	2312
32	20	8.35	7.10	0.85	1937	8.24	7.00	0.85	2022	8.09	6.88	0.85	2156	7.90	6.72	0.85	2255	7.67	6.52	0.85	2338	7.04	5.99	0.85	2483	5.81	4.94	0.85	2576	8.35	7.10	0.85	1937	8.24	7.00	0.85	2022	8.09	6.88	0.85	2156	7.90	6.72	0.85	2255	7.67	6.52	0.85	2338
32	22	8.52	6.39	0.75	1955	8.40	6.30	0.75	2039	8.25	6.19	0.75	2174	8.06	6.05	0.75	2273	7.83	5.87	0.75	2356	7.18	5.39	0.75	2500	5.93	4.45	0.75	2594	8.52	6.39	0.75	1955	8.40	6.30	0.75	2039	8.25	6.19	0.75	2174	8.06	6.05	0.75	2273	7.83	5.87	0.75	2356
32	24	8.58	5.41	0.63	1976	8.46	5.33	0.63	2060	8.31	5.24	0.63	2195	8.12	5.11	0.63	2294	7.88	4.96	0.63	2377	7.23	4.56	0.63	2521	5.97	3.76	0.63	2615	8.58	5.41	0.63	1976	8.46	5.33	0.63	2060	8.31	5.24	0.63	2195	8.12	5.11	0.63	2294	7.88	4.96	0.63	2377
32	26	8.70	4.44	0.51	2000	8.58	4.38	0.51	2085	8.43	4.30	0.51	2219	8.23	4.20	0.51	2318	7.99	4.08	0.51	2402	7.34	3.74	0.51	2546	6.05	3.09	0.51	2639	8.70	4.44	0.51	2000	8.58	4.38	0.51	2085	8.43	4.30	0.51	2219	8.23	4.20	0.51	2318	7.99	4.08	0.51	2402

PERFORMANCE DATA (Heating Operation at Rated Frequency)

AUC-24UR4RBJC1

CAPACITY: 8.3 kW   INPUT: 2500 W

INDOOR DB(℃)	-15		-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
10	7.30	2103	9.04	2153	9.13	2214	9.23	2267	9.34	2425	9.44	2499	9.55	2550	7.30	2103
12	7.11	2149	8.59	2199	8.94	2255	9.04	2307	9.15	2460	9.25	2536	9.35	2591	7.11	2149
14	6.92	2194	7.75	2244	8.75	2296	8.85	2348	8.96	2496	9.06	2572	9.16	2632	6.92	2194
16	6.73	2238	7.56	2288	8.56	2338	8.66	2388	8.76	2533	8.86	2607	8.97	2672	6.73	2238
18	6.54	2284	7.37	2334	8.22	2379	8.30	2429	8.57	2569	8.67	2644	8.78	2713	6.54	2284
20	6.35	2329	7.18	2379	8.18	2421	8.28	2469	8.53	2605	8.48	2680	8.59	2753	6.35	2329
22	6.16	2374	6.99	2424	7.98	2462	8.08	2510	8.19	2640	8.37	2717	8.40	2794	6.16	2374
24	5.97	2420	6.80	2470	7.79	2503	7.89	2550	8.00	2676	8.10	2753	8.21	2835	5.97	2420
26	5.78	2465	6.61	2515	7.60	2544	7.70	2591	7.81	2712	7.91	2789	8.02	2876	5.78	2465
28	5.59	2510	6.42	2560	7.41	2585	7.51	2632	7.62	2748	7.72	2826	7.83	2917	5.59	2510
30	5.40	2556	6.23	2606	7.22	2626	7.32	2672	7.43	2783	7.53	2862	7.64	2958	5.40	2556

4. CAPACITIES AND SELECTION DATA

AUC-36UR4RKKC1

PERFORMANCE DATA (Cooling Operation at Rated Frequency)

AUC-36UR4RKKC1

CAPACITY: 10.2 kW   SHF: 0.77   INPUT: 3090 W

ID IN DB (°C)	WB (°C)	OUTDOOR DB (°C) -15				-5				0				5				10				15				20				25				30				35				40				45			
		Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
21	18	9.35	5.52	0.59	2397	9.22	5.44	0.59	2503	9.06	5.34	0.59	2672	8.84	5.22	0.59	2795	8.59	5.07	0.59	2900	7.88	4.65	0.59	3080	6.50	3.84	0.59	3198	9.35	5.52	0.59	2397	9.22	5.44	0.59	2503	9.06	5.34	0.59	2672	8.84	5.22	0.59	2795	8.59	5.07	0.59	2900
21	20	9.73	4.57	0.47	2421	9.60	4.51	0.47	2526	9.43	4.43	0.47	2695	9.21	4.33	0.47	2819	8.94	4.20	0.47	2923	8.21	3.86	0.47	3104	6.77	3.18	0.47	3221	9.73	4.57	0.47	2421	9.60	4.51	0.47	2526	9.43	4.43	0.47	2695	9.21	4.33	0.47	2819	8.94	4.20	0.47	2923
22	18	9.64	6.07	0.63	2421	9.50	5.99	0.63	2528	9.34	5.88	0.63	2699	9.12	5.74	0.63	2823	8.85	5.58	0.63	2929	8.13	5.12	0.63	3111	6.70	4.22	0.63	3230	9.64	6.07	0.63	2421	9.50	5.99	0.63	2528	9.34	5.88	0.63	2699	9.12	5.74	0.63	2823	8.85	5.58	0.63	2929
22	20	9.93	5.07	0.51	2445	9.80	5.00	0.51	2552	9.62	4.91	0.51	2722	9.40	4.79	0.51	2847	9.12	4.65	0.51	2953	8.38	4.27	0.51	3135	6.91	3.52	0.51	3254	9.93	5.07	0.51	2445	9.80	5.00	0.51	2552	9.62	4.91	0.51	2722	9.40	4.79	0.51	2847	9.12	4.65	0.51	2953
22	22	10.10	3.94	0.39	2461	9.96	3.89	0.39	2568	9.79	3.82	0.39	2739	9.56	3.73	0.39	2863	9.28	3.62	0.39	2969	8.52	3.32	0.39	3151	7.03	2.74	0.39	3270	10.10	3.94	0.39	2461	9.96	3.89	0.39	2568	9.79	3.82	0.39	2739	9.56	3.73	0.39	2863	9.28	3.62	0.39	2969
23	18	9.83	6.59	0.67	2446	9.70	6.50	0.67	2554	9.53	6.38	0.67	2726	9.30	6.23	0.67	2852	9.03	6.05	0.67	2959	8.29	5.56	0.67	3143	6.84	4.58	0.67	3262	9.83	6.59	0.67	2446	9.70	6.50	0.67	2554	9.53	6.38	0.67	2726	9.30	6.23	0.67	2852	9.03	6.05	0.67	2959
23	20	10.14	5.57	0.55	2470	10.00	5.50	0.55	2578	9.82	5.40	0.55	2750	9.59	5.27	0.55	2876	9.31	5.12	0.55	2983	8.55	4.70	0.55	3167	7.05	3.88	0.55	3286	10.14	5.57	0.55	2470	10.00	5.50	0.55	2578	9.82	5.40	0.55	2750	9.59	5.27	0.55	2876	9.31	5.12	0.55	2983
23	22	10.31	4.43	0.43	2486	10.17	4.37	0.43	2594	9.99	4.29	0.43	2766	9.75	4.19	0.43	2892	9.47	4.07	0.43	2999	8.69	3.74	0.43	3183	7.17	3.08	0.43	3303	10.31	4.43	0.43	2486	10.17	4.37	0.43	2594	9.99	4.29	0.43	2766	9.75	4.19	0.43	2892	9.47	4.07	0.43	2999
24	18	10.04	7.12	0.71	2471	9.90	7.03	0.71	2579	9.72	6.90	0.71	2753	9.49	6.74	0.71	2881	9.22	6.54	0.71	2989	8.46	6.01	0.71	3174	6.98	4.96	0.71	3295	10.04	7.12	0.71	2471	9.90	7.03	0.71	2579	9.72	6.90	0.71	2753	9.49	6.74	0.71	2881	9.22	6.54	0.71	2989
24	20	10.34	6.10	0.59	2495	10.20	6.02	0.59	2604	10.02	5.91	0.59	2778	9.78	5.77	0.59	2905	9.50	5.60	0.59	3013	8.72	5.15	0.59	3199	7.19	4.24	0.59	3320	10.34	6.10	0.59	2495	10.20	6.02	0.59	2604	10.02	5.91	0.59	2778	9.78	5.77	0.59	2905	9.50	5.60	0.59	3013
24	22	10.52	4.94	0.47	2511	10.37	4.88	0.47	2620	10.19	4.79	0.47	2794	9.95	4.68	0.47	2921	9.66	4.54	0.47	3029	8.87	4.17	0.47	3215	7.32	3.44	0.47	3336	10.52	4.94	0.47	2511	10.37	4.88	0.47	2620	10.19	4.79	0.47	2794	9.95	4.68	0.47	2921	9.66	4.54	0.47	3029
24	24	10.67	3.73	0.35	2531	10.52	3.68	0.35	2639	10.33	3.62	0.35	2814	10.09	3.53	0.35	2941	9.80	3.43	0.35	3049	8.99	3.15	0.35	3235	7.42	2.60	0.35	3356	10.67	3.73	0.35	2531	10.52	3.68	0.35	2639	10.33	3.62	0.35	2814	10.09	3.53	0.35	2941	9.80	3.43	0.35	3049
25	18	10.35	7.76	0.75	2496	10.20	7.65	0.75	2605	10.02	7.52	0.75	2781	9.79	7.34	0.75	2910	9.50	7.13	0.75	3019	8.72	6.54	0.75	3206	7.20	5.40	0.75	3329	10.35	7.76	0.75	2496	10.20	7.65	0.75	2605	10.02	7.52	0.75	2781	9.79	7.34	0.75	2910	9.50	7.13	0.75	3019
25	20	10.66	6.72	0.63	2520	10.51	6.62	0.63	2630	10.33	6.51	0.63	2806	10.09	6.35	0.63	2934	9.79	6.17	0.63	3043	8.99	5.66	0.63	3231	7.42	4.67	0.63	3353	10.66	6.72	0.63	2520	10.51	6.62	0.63	2630	10.33	6.51	0.63	2806	10.09	6.35	0.63	2934	9.79	6.17	0.63	3043
25	22	10.84	5.53	0.51	2537	10.69	5.45	0.51	2647	10.50	5.36	0.51	2822	10.26	5.23	0.51	2951	9.96	5.08	0.51	3060	9.14	4.66	0.51	3248	7.54	3.85	0.51	3370	10.84	5.53	0.51	2537	10.69	5.45	0.51	2647	10.50	5.36	0.51	2822	10.26	5.23	0.51	2951	9.96	5.08	0.51	3060
25	24	11.00	4.29	0.39	2556	10.84	4.23	0.39	2666	10.65	4.15	0.39	2842	10.40	4.06	0.39	2970	10.10	3.94	0.39	3079	9.27	3.62	0.39	3267	7.65	2.98	0.39	3389	11.00	4.29	0.39	2556	10.84	4.23	0.39	2666	10.65	4.15	0.39	2842	10.40	4.06	0.39	2970	10.10	3.94	0.39	3079
26	18	10.67	8.43	0.79	2521	10.52	8.31	0.79	2632	10.33	8.16	0.79	2809	10.09	7.97	0.79	2939	9.80	7.74	0.79	3049	8.99	7.10	0.79	3239	7.42	5.86	0.79	3362	10.67	8.43	0.79	2521	10.52	8.31	0.79	2632	10.33	8.16	0.79	2809	10.09	7.97	0.79	2939	9.80	7.74	0.79	3049
26	20	10.99	7.36	0.67	2546	10.84	7.26	0.67	2656	10.65	7.13	0.67	2834	10.40	6.97	0.67	2964	10.10	6.76	0.67	3074	9.27	6.21	0.67	3264	7.65	5.12	0.67	3387	10.99	7.36	0.67	2546	10.84	7.26	0.67	2656	10.65	7.13	0.67	2834	10.40	6.97	0.67	2964	10.10	6.76	0.67	3074
26	22	11.18	6.15	0.55	2562	11.02	6.06	0.55	2673	10.83	5.96	0.55	2851	10.58	5.82	0.55	2981	10.27	5.65	0.55	3091	9.43	5.18	0.55	3280	7.78	4.28	0.55	3404	11.18	6.15	0.55	2562	11.02	6.06	0.55	2673	10.83	5.96	0.55	2851	10.58	5.82	0.55	2981	10.27	5.65	0.55	3091
26	24	11.34	4.87	0.43	2582	11.18	4.81	0.43	2693	10.98	4.72	0.43	2871	10.72	4.61	0.43	3000	10.41	4.48	0.43	3111	9.56	4.11	0.43	3300	7.89	3.39	0.43	3424	11.34	4.87	0.43	2582	11.18	4.81	0.43	2693	10.98	4.72	0.43	2871	10.72	4.61	0.43	3000	10.41	4.48	0.43	3111
26	26	11.52	3.57	0.31	2605	11.36	3.52	0.31	2716	11.16	3.46	0.31	2893	10.90	3.38	0.31	3023	10.58	3.28	0.31	3133	9.71	3.01	0.31	3323	8.01	2.48	0.31	3446	11.52	3.57	0.31	2605	11.36	3.52	0.31	2716	11.16	3.46	0.31	2893	10.90	3.38	0.31	3023	10.58	3.28	0.31	3133
27	18	10.88	9.03	0.83	2546	10.73	8.91	0.83	2658	10.54	8.75	0.83	2838	10.30	8.55	0.83	2969	10.00	8.30	0.83	3080	9.18	7.62	0.83	3272	7.57	6.28	0.83	3396	10.88	9.03	0.83	2546	10.73	8.91	0.83	2658	10.54	8.75	0.83	2838	10.30	8.55	0.83	2969	10.00	8.30	0.83	3080
27	19	11.11	8.55	0.77	2556	10.95	8.43	0.77	2668	10.76	8.28	0.77	2848	10.51	8.09	0.77	2979	10.20	7.85	0.77	3090	9.36	7.21	0.77	3282	7.72	5.95	0.77	3406	11.11	8.55	0.77	2556	10.95	8.43	0.77	2668	10.76	8.28	0.77	2848	10.51	8.09	0.77	2979	10.20	7.85	0.77	3090
27	20	11.22	7.96	0.71	2571	11.06	7.85	0.71	2683	10.87	7.71	0.71	2863	10.61	7.53	0.71	2994	10.30	7.31	0.71	3105	9.46	6.71	0.71	3297	7.80	5.54	0.71	3421	11.22	7.96	0.71	2571	11.06	7.85	0.71	2683	10.87	7.71	0.71	2863	10.61	7.53	0.71	2994	10.30	7.31	0.71	3105
27	22	11.41	6.73	0.59	2588	11.25	6.64	0.59	2700	11.05	6.52	0.59	2880	10.79	6.37	0.59	3011	10.48	6.18	0.59	3122	9.62	5.67	0.59	3314	7.93	4.68	0.59	3438	11.41	6.73	0.59	2588	11.25	6.64	0.59	2700	11.05	6.52	0.59	2880	10.79	6.37	0.59	3011	10.48	6.18	0.59	3122
27	24	11.57	5.44	0.47	2608	11.41	5.36	0.47	2720	11.21	5.27	0.47	2900	10.94	5.14	0.47	3031	10.62	4.99	0.47	3142	9.75	4.58	0.47	3334	8.05	3.78	0.47	3458	11.57	5.44	0.47	2608	11.41	5.36	0.47	2720	11.21	5.27	0.47	2900	10.94	5.14	0.47	3031	10.62	4.99	0.47	3142
27	26	11.75	4.11	0.35	2631	11.59	4.06	0.35	2743	11.38	3.98	0.35	2923	11.12	3.89	0.35	3054	10.79	3.78	0.35	3165	9.91	3.47	0.35	3357	8.17	2.86	0.35	3481	11.75	4.11	0.35	2631	11.59	4.06	0.35	2743	11.38	3.98	0.35	2923	11.12	3.89	0.35	3054	10.79	3.78	0.35	3165
28	18	10.99	9.56	0.87	2572	10.84	9.43	0.87	2685	10.65	9.26	0.87	2866	10.40	9.05	0.87	2998	10.10	8.78	0.87	3111	9.27	8.06	0.87	3304	7.65	6.65	0.87	3430	10.99	9.56	0.87	2572	10.84	9.43	0.87	2685	10.65	9.26	0.87	2866	10.40	9.05	0.87	2998	10.10	8.78	0.87	3111
28	20	11.22	8.41	0.75	2597	11.06	8.30	0.75	2710	10.87	8.15	0.75	2891	10.61	7.96	0.75	3024	10.30	7.73	0.75	3136	9.46	7.09	0.75	3330	7.80	5.85	0.75	3455	11.22	8.41	0.75	2597	11.06	8.30	0.75	2710	10.87	8.15	0.75	2891	10.61	7.96	0.75	3024	10.30	7.73	0.75	3136
28	22	11.33	7.14	0.63	2614	11.17	7.04	0.63	2727	10.97	6.91	0.63	2908	10.72	6.75	0.63	3041	10.41	6.56	0.63	3153	9.55	6.02	0.63	3347	7.88	4.96	0.63	3473	11.33	7.14	0.63	2614	11.17	7.04	0.63	2727	10.97	6.91	0.63	2908	10.72	6.75	0.63	3041	10.41	6.56	0.63	3153
28	24	11.52	5.88	0.51	2634	11.36	5.79	0.51	2747	11.16	5.69	0.51	2929	10.90	5.56	0.51	3061	10.58	5.40	0.51	3173	9.71	4.95	0.51	3367	8.01	4.09	0.51	3493	11.52	5.88	0.51	2634	11.36	5.79	0.51	2747	11.16	5.69	0.51	2929	10.90	5.56	0.51	3061	10.58	5.40	0.51	3173
28	26	11.68	4.56	0.39	2658	11.52	4.49	0.39	2771	11.32	4.41	0.39	2952	11.05	4.31	0.39	3084	10.73	4.18	0.39	3197	9.85	3.84	0.39	3390	8.13	3.17	0.39	3516	11.68	4.56	0.39	2658	11.52	4.49	0.39	2771	11.32	4.41	0.39	2952	11.05	4.31	0.39	3084	10.73	4.18	0.39	3197
29	18	11.10	9.88	0.89	2597	10.95	9.74	0.89	2712	10.75	9.57	0.89	2895	10.50	9.35	0.89	3028	10.20	9.08	0.89	3142	9.36	8.33	0.89	3337	7.72	6.87	0.89	3465	11.10	9.88	0.89	2597	10.95	9.74	0.89	2712	10.75	9.57	0.89	2895	10.50	9.35	0.89	3028	10.20	9.08	0.89	3142
29	20	11.33	8.95	0.79	2623	11.17	8.83	0.79	2737	10.97	8.67	0.79	2920	10.72	8.47	0.79	3054	10.41	8.22	0.79	3167	9.55	7.55	0.79	3363	7.88	6.23	0.79	3490	11.33	8.95	0.79	2623	11.17	8.83	0.79	2737	10.97	8.67	0.79	2920	10.72	8.47	0.79	3054	10.41	8.22	0.79	3167

4. CAPACITIES AND SELECTION DATA

PERFORMANCE DATA (Cooling Operation at Rated Frequency)

AUC-36UR4RKKC1

CAPACITY: 10.2 kW   SHF: 0.77   INPUT: 3090 W

ID IN DB (°C)	WB (°C)	-15 Q	SHC	SHF	IPT	-5 Q	SHC	SHF	IPT	0 Q	SHC	SHF	IPT	5 Q	SHC	SHF	IPT	10 Q	SHC	SHF	IPT	15 Q	SHC	SHF	IPT	20 Q	SHC	SHF	IPT	25 Q	SHC	SHF	IPT	30 Q	SHC	SHF	IPT	35 Q	SHC	SHF	IPT	40 Q	SHC	SHF	IPT	45 Q	SHC	SHF	IPT
29	22	11.55	7.74	0.67	2640	11.40	7.63	0.67	2755	11.19	7.50	0.67	2938	10.93	7.32	0.67	3071	10.61	7.11	0.67	3185	9.74	6.53	0.67	3380	8.04	5.39	0.67	3507	11.55	7.74	0.67	2640	11.40	7.63	0.67	2755	11.19	7.50	0.67	2938	10.93	7.32	0.67	3071	10.61	7.11	0.67	3185
29	24	11.64	6.40	0.55	2661	11.48	6.31	0.55	2775	11.27	6.20	0.55	2958	11.01	6.05	0.55	3092	10.69	5.88	0.55	3205	9.81	5.40	0.55	3401	8.09	4.45	0.55	3528	11.64	6.40	0.55	2661	11.48	6.31	0.55	2775	11.27	6.20	0.55	2958	11.01	6.05	0.55	3092	10.69	5.88	0.55	3205
29	26	11.80	5.07	0.43	2684	11.64	5.00	0.43	2798	11.43	4.92	0.43	2981	11.16	4.80	0.43	3115	10.84	4.66	0.43	3229	9.95	4.28	0.43	3424	8.21	3.53	0.43	3551	11.80	5.07	0.43	2684	11.64	5.00	0.43	2798	11.43	4.92	0.43	2981	11.16	4.80	0.43	3115	10.84	4.66	0.43	3229
30	18	11.21	9.98	0.89	2623	11.06	9.84	0.89	2739	10.86	9.67	0.89	2924	10.61	9.44	0.89	3059	10.30	9.17	0.89	3173	9.45	8.41	0.89	3371	7.80	6.94	0.89	3499	11.21	9.98	0.89	2623	11.06	9.84	0.89	2739	10.86	9.67	0.89	2924	10.61	9.44	0.89	3059	10.30	9.17	0.89	3173
30	20	11.44	9.50	0.83	2649	11.28	9.37	0.83	2765	11.08	9.20	0.83	2949	10.82	8.98	0.83	3084	10.51	8.72	0.83	3199	9.65	8.01	0.83	3396	7.96	6.61	0.83	3525	11.44	9.50	0.83	2649	11.28	9.37	0.83	2765	11.08	9.20	0.83	2949	10.82	8.98	0.83	3084	10.51	8.72	0.83	3199
30	22	11.67	8.29	0.71	2667	11.51	8.17	0.71	2782	11.31	8.03	0.71	2967	11.04	7.84	0.71	3102	10.72	7.61	0.71	3217	9.84	6.99	0.71	3414	8.12	5.76	0.71	3542	11.67	8.29	0.71	2667	11.51	8.17	0.71	2782	11.31	8.03	0.71	2967	11.04	7.84	0.71	3102	10.72	7.61	0.71	3217
30	24	11.75	6.93	0.59	2687	11.59	6.84	0.59	2803	11.39	6.72	0.59	2988	11.12	6.56	0.59	3123	10.79	6.37	0.59	3237	9.91	5.85	0.59	3435	8.18	4.82	0.59	3563	11.75	6.93	0.59	2687	11.59	6.84	0.59	2803	11.39	6.72	0.59	2988	11.12	6.56	0.59	3123	10.79	6.37	0.59	3237
30	26	11.92	5.60	0.47	2711	11.75	5.52	0.47	2826	11.54	5.43	0.47	3011	11.27	5.30	0.47	3146	10.95	5.14	0.47	3261	10.05	4.72	0.47	3458	8.29	3.90	0.47	3587	11.92	5.60	0.47	2711	11.75	5.52	0.47	2826	11.54	5.43	0.47	3011	11.27	5.30	0.47	3146	10.95	5.14	0.47	3261
31	18	11.32	10.08	0.89	2650	11.17	9.94	0.89	2766	10.97	9.76	0.89	2953	10.71	9.54	0.89	3089	10.40	9.26	0.89	3205	9.55	8.50	0.89	3404	7.88	7.01	0.89	3534	11.32	10.08	0.89	2650	11.17	9.94	0.89	2766	10.97	9.76	0.89	2953	10.71	9.54	0.89	3089	10.40	9.26	0.89	3205
31	20	11.56	10.05	0.87	2676	11.40	9.91	0.87	2792	11.19	9.74	0.87	2979	10.93	9.51	0.87	3115	10.61	9.23	0.87	3231	9.74	8.48	0.87	3430	8.04	6.99	0.87	3560	11.56	10.05	0.87	2676	11.40	9.91	0.87	2792	11.19	9.74	0.87	2979	10.93	9.51	0.87	3115	10.61	9.23	0.87	3231
31	22	11.79	8.84	0.75	2693	11.62	8.72	0.75	2810	11.42	8.56	0.75	2997	11.15	8.36	0.75	3133	10.83	8.12	0.75	3249	9.94	7.45	0.75	3448	8.20	6.15	0.75	3578	11.79	8.84	0.75	2693	11.62	8.72	0.75	2810	11.42	8.56	0.75	2997	11.15	8.36	0.75	3133	10.83	8.12	0.75	3249
31	24	11.87	7.48	0.63	2714	11.71	7.37	0.63	2831	11.50	7.24	0.63	3017	11.23	7.07	0.63	3154	10.90	6.87	0.63	3270	10.01	6.31	0.63	3469	8.26	5.20	0.63	3599	11.87	7.48	0.63	2714	11.71	7.37	0.63	2831	11.50	7.24	0.63	3017	11.23	7.07	0.63	3154	10.90	6.87	0.63	3270
31	26	12.04	6.14	0.51	2738	11.87	6.05	0.51	2855	11.66	5.95	0.51	3041	11.39	5.81	0.51	3178	11.06	5.64	0.51	3294	10.15	5.18	0.51	3493	8.37	4.27	0.51	3623	12.04	6.14	0.51	2738	11.87	6.05	0.51	2855	11.66	5.95	0.51	3041	11.39	5.81	0.51	3178	11.06	5.64	0.51	3294
32	18	11.44	10.18	0.89	2676	11.28	10.04	0.89	2794	11.08	9.86	0.89	2982	10.82	9.63	0.89	3120	10.51	9.35	0.89	3237	9.64	8.58	0.89	3438	7.96	7.08	0.89	3570	11.44	10.18	0.89	2676	11.28	10.04	0.89	2794	11.08	9.86	0.89	2982	10.82	9.63	0.89	3120	10.51	9.35	0.89	3237
32	20	11.67	10.39	0.89	2702	11.51	10.24	0.89	2820	11.31	10.06	0.89	3009	11.04	9.83	0.89	3146	10.72	9.54	0.89	3263	9.84	8.76	0.89	3465	8.12	7.23	0.89	3596	11.67	10.39	0.89	2702	11.51	10.24	0.89	2820	11.31	10.06	0.89	3009	11.04	9.83	0.89	3146	10.72	9.54	0.89	3263
32	22	11.91	9.40	0.79	2720	11.74	9.28	0.79	2838	11.53	9.11	0.79	3027	11.26	8.90	0.79	3164	10.93	8.64	0.79	3281	10.04	7.93	0.79	3483	8.28	6.54	0.79	3614	11.91	9.40	0.79	2720	11.74	9.28	0.79	2838	11.53	9.11	0.79	3027	11.26	8.90	0.79	3164	10.93	8.64	0.79	3281
32	24	11.99	8.03	0.67	2741	11.82	7.92	0.67	2859	11.61	7.78	0.67	3048	11.34	7.60	0.67	3185	11.01	7.38	0.67	3302	10.11	6.77	0.67	3504	8.34	5.59	0.67	3635	11.99	8.03	0.67	2741	11.82	7.92	0.67	2859	11.61	7.78	0.67	3048	11.34	7.60	0.67	3185	11.01	7.38	0.67	3302
32	26	12.16	6.69	0.55	2765	11.99	6.59	0.55	2883	11.78	6.48	0.55	3072	11.50	6.33	0.55	3210	11.17	6.14	0.55	3326	10.25	5.64	0.55	3528	8.46	4.65	0.55	3659	12.16	6.69	0.55	2765	11.99	6.59	0.55	2883	11.78	6.48	0.55	3072	11.50	6.33	0.55	3210	11.17	6.14	0.55	3326

PERFORMANCE DATA (Heating Operation at Rated Frequency)

AUC-36UR4RKKC1

CAPACITY: 11.0 kW   INPUT: 2970 W

INDOOR DB(°C)	-15 Q	INPUT	-10 Q	INPUT	-5 Q	INPUT	0 Q	INPUT	5 Q	INPUT	10 Q	INPUT	15 Q	INPUT	20 Q	INPUT
10	9.68	2498	11.98	2558	12.10	2631	12.23	2693	12.38	2880	12.51	2969	12.65	3030	9.68	2498
12	9.43	2552	11.39	2612	11.85	2679	11.98	2741	12.12	2922	12.25	3012	12.40	3078	9.43	2552
14	9.17	2606	10.27	2666	11.59	2728	11.73	2789	11.87	2965	12.00	3056	12.14	3127	9.17	2606
16	8.92	2659	10.02	2718	11.34	2778	11.47	2837	11.62	3009	11.75	3098	11.89	3174	8.92	2659
18	8.67	2713	9.77	2772	10.89	2827	11.00	2885	11.36	3052	11.50	3141	11.64	3223	8.67	2713
20	8.42	2767	9.52	2826	10.84	2876	10.97	2934	11.31	3094	11.24	3184	11.39	3271	8.42	2767
22	8.16	2821	9.26	2880	10.58	2924	10.71	2982	10.86	3137	11.10	3227	11.13	3320	8.16	2821
24	7.91	2874	9.01	2934	10.33	2973	10.46	3030	10.60	3179	10.74	3270	10.88	3368	7.91	2874
26	7.66	2928	8.76	2988	10.08	3022	10.21	3078	10.35	3222	10.48	3314	10.63	3417	7.66	2928
28	7.40	2982	8.50	3041	9.82	3071	9.96	3126	10.10	3264	10.23	3357	10.37	3465	7.40	2982
30	7.15	3036	8.25	3095	9.57	3120	9.70	3174	9.85	3307	9.98	3400	10.12	3514	7.15	3036

4. CAPACITIES AND SELECTION DATA

AUC-42UR4RNKC1

PERFORMANCE DATA (Cooling Operation at Rated Frequency)
AUC-42UR4RNKC1
CAPACITY: 12.5 kW   SHF: 0.70   INPUT: 3788W

| ID DB (°C)	IN WB (°C)	-15 Q	SHC	SHF	IPT	-5 Q	SHC	SHF	IPT	0 Q	SHC	SHF	IPT	5 Q	SHC	SHF	IPT	10 Q	SHC	SHF	IPT	15 Q	SHC	SHF	IPT	20 Q	SHC	SHF	IPT	25 Q	SHC	SHF	IPT	30 Q	SHC	SHF	IPT	35 Q	SHC	SHF	IPT	40 Q	SHC	SHF	IPT	45 Q	SHC	SHF	IPT
21	18	12.10	6.29	0.52	2759	11.98	6.23	0.52	2784	11.85	6.16	0.52	2809	11.70	6.08	0.52	2832	11.58	6.02	0.52	2846	11.46	5.96	0.52	2941	11.30	5.88	0.52	3070	11.10	5.77	0.52	3277	10.84	5.64	0.52	3429	10.52	5.47	0.52	3557	9.66	5.02	0.52	3778	7.97	4.14	0.52	3922
21	20	12.60	5.04	0.40	2782	12.47	4.99	0.40	2808	12.34	4.94	0.40	2833	12.18	4.87	0.40	2856	12.06	4.82	0.40	2870	11.93	4.77	0.40	2964	11.76	4.71	0.40	3094	11.56	4.62	0.40	3301	11.29	4.51	0.40	3452	10.96	4.38	0.40	3580	10.06	4.02	0.40	3802	8.30	3.32	0.40	3945
22	18	12.47	6.99	0.56	2787	12.35	6.92	0.56	2812	12.22	6.84	0.56	2838	12.06	6.75	0.56	2861	11.94	6.69	0.56	2875	11.81	6.61	0.56	2971	11.65	6.52	0.56	3101	11.44	6.41	0.56	3310	11.17	6.26	0.56	3463	10.85	6.07	0.56	3593	9.96	5.58	0.56	3816	8.22	4.60	0.56	3962
22	20	12.86	5.66	0.44	2811	12.73	5.60	0.44	2836	12.59	5.54	0.44	2862	12.43	5.47	0.44	2885	12.31	5.41	0.44	2899	12.17	5.36	0.44	2994	12.00	5.28	0.44	3125	11.79	5.19	0.44	3334	11.52	5.07	0.44	3487	11.18	4.92	0.44	3617	10.26	4.52	0.44	3840	8.47	3.73	0.44	3985
22	22	13.08	4.18	0.32	2827	12.95	4.14	0.32	2852	12.80	4.10	0.32	2878	12.64	4.05	0.32	2901	12.52	4.00	0.32	2915	12.38	3.96	0.32	3010	12.21	3.91	0.32	3141	11.99	3.84	0.32	3350	11.71	3.75	0.32	3503	11.37	3.64	0.32	3633	10.44	3.34	0.32	3856	8.61	2.76	0.32	4002
23	18	12.73	7.64	0.60	2815	12.60	7.56	0.60	2841	12.47	7.48	0.60	2866	12.31	7.38	0.60	2890	12.18	7.31	0.60	2904	12.05	7.23	0.60	3001	11.89	7.13	0.60	3133	11.68	7.01	0.60	3344	11.40	6.84	0.60	3498	11.07	6.64	0.60	3629	10.16	6.10	0.60	3855	8.38	5.03	0.60	4002
23	20	13.12	6.30	0.48	2839	12.99	6.23	0.48	2865	12.85	6.17	0.48	2890	12.68	6.09	0.48	2914	12.56	6.03	0.48	2928	12.42	5.96	0.48	3025	12.25	5.88	0.48	3157	12.03	5.78	0.48	3368	11.75	5.64	0.48	3522	11.41	5.48	0.48	3653	10.47	5.03	0.48	3879	8.64	4.15	0.48	4026
23	22	13.34	4.80	0.36	2855	13.21	4.76	0.36	2881	13.07	4.70	0.36	2907	12.90	4.64	0.36	2930	12.77	4.60	0.36	2945	12.63	4.55	0.36	3041	12.46	4.48	0.36	3173	12.24	4.41	0.36	3384	11.95	4.30	0.36	3538	11.60	4.18	0.36	3669	10.65	3.83	0.36	3895	8.79	3.16	0.36	4042
24	18	12.99	8.31	0.64	2843	12.86	8.23	0.64	2869	12.72	8.14	0.64	2895	12.56	8.04	0.64	2919	12.43	7.96	0.64	2934	12.30	7.87	0.64	3031	12.13	7.76	0.64	3164	11.91	7.62	0.64	3378	11.63	7.45	0.64	3533	11.30	7.23	0.64	3666	10.37	6.64	0.64	3894	8.55	5.47	0.64	4042
24	20	13.39	6.96	0.52	2868	13.25	6.89	0.52	2894	13.11	6.82	0.52	2920	12.94	6.73	0.52	2943	12.81	6.66	0.52	2958	12.67	6.59	0.52	3055	12.50	6.50	0.52	3188	12.28	6.38	0.52	3402	11.99	6.24	0.52	3558	11.64	6.05	0.52	3690	10.69	5.56	0.52	3918	8.82	4.58	0.52	4066
24	22	13.61	5.45	0.40	2884	13.48	5.39	0.40	2910	13.33	5.33	0.40	2936	13.16	5.26	0.40	2960	13.03	5.21	0.40	2974	12.89	5.16	0.40	3072	12.71	5.08	0.40	3205	12.49	4.99	0.40	3418	12.19	4.88	0.40	3574	11.84	4.74	0.40	3707	10.87	4.35	0.40	3934	8.97	3.59	0.40	4083
24	24	13.81	3.87	0.28	2904	13.67	3.83	0.28	2929	13.52	3.79	0.28	2956	13.35	3.74	0.28	2979	13.21	3.70	0.28	2994	13.07	3.66	0.28	3091	12.89	3.61	0.28	3224	12.66	3.55	0.28	3438	12.37	3.46	0.28	3594	12.00	3.36	0.28	3726	11.02	3.09	0.28	3954	9.09	2.55	0.28	4102
25	18	13.39	9.11	0.68	2872	13.26	9.02	0.68	2898	13.11	8.92	0.68	2925	12.95	8.80	0.68	2948	12.82	8.72	0.68	2963	12.68	8.62	0.68	3061	12.50	8.50	0.68	3196	12.28	8.35	0.68	3412	11.99	8.16	0.68	3569	11.64	7.92	0.68	3703	10.69	7.27	0.68	3933	8.82	6.00	0.68	4083
25	20	13.80	7.73	0.56	2897	13.66	7.65	0.56	2923	13.52	7.57	0.56	2949	13.34	7.47	0.56	2973	13.21	7.40	0.56	2988	13.07	7.32	0.56	3086	12.89	7.22	0.56	3221	12.66	7.09	0.56	3436	12.36	6.92	0.56	3594	12.00	6.72	0.56	3727	11.02	6.17	0.56	3958	9.09	5.09	0.56	4107
25	22	14.04	6.18	0.44	2913	13.90	6.11	0.44	2939	13.75	6.05	0.44	2966	13.57	5.97	0.44	2990	13.43	5.91	0.44	3004	13.29	5.85	0.44	3103	13.10	5.77	0.44	3237	12.87	5.66	0.44	3453	12.57	5.53	0.44	3610	12.21	5.37	0.44	3744	11.20	4.93	0.44	3974	9.24	4.07	0.44	4124
25	24	14.23	4.55	0.32	2933	14.09	4.51	0.32	2959	13.94	4.46	0.32	2985	13.76	4.40	0.32	3009	13.62	4.36	0.32	3024	13.47	4.31	0.32	3122	13.29	4.25	0.32	3257	13.05	4.18	0.32	3472	12.75	4.08	0.32	3630	12.38	3.96	0.32	3764	11.36	3.64	0.32	3994	9.37	3.00	0.32	4144
26	18	13.81	9.94	0.72	2901	13.67	9.84	0.72	2928	13.52	9.73	0.72	2954	13.35	9.61	0.72	2978	13.21	9.51	0.72	2993	13.07	9.41	0.72	3092	12.89	9.28	0.72	3228	12.66	9.12	0.72	3446	12.37	8.90	0.72	3605	12.01	8.64	0.72	3740	11.02	7.93	0.72	3973	9.09	6.55	0.72	4124
26	20	14.23	8.54	0.60	2926	14.09	8.45	0.60	2952	13.93	8.36	0.60	2979	13.75	8.25	0.60	3003	13.62	8.17	0.60	3018	13.47	8.08	0.60	3117	13.28	7.97	0.60	3253	13.05	7.83	0.60	3471	12.74	7.65	0.60	3630	12.37	7.42	0.60	3765	11.36	6.81	0.60	3997	9.37	5.62	0.60	4149
26	22	14.47	6.95	0.48	2943	14.33	6.88	0.48	2969	14.17	6.80	0.48	2996	13.99	6.71	0.48	3020	13.85	6.65	0.48	3035	13.70	6.58	0.48	3134	13.51	6.48	0.48	3270	13.27	6.37	0.48	3488	12.96	6.22	0.48	3647	12.58	6.04	0.48	3782	11.55	5.54	0.48	4014	9.53	4.57	0.48	4166
26	24	14.67	5.28	0.36	2962	14.53	5.23	0.36	2989	14.37	5.17	0.36	3016	14.18	5.11	0.36	3040	14.04	5.06	0.36	3055	13.89	5.00	0.36	3154	13.70	4.93	0.36	3290	13.46	4.84	0.36	3508	13.14	4.73	0.36	3667	12.76	4.59	0.36	3802	11.71	4.22	0.36	4034	9.66	3.48	0.36	4185
26	26	14.91	3.58	0.24	2985	14.76	3.54	0.24	3012	14.60	3.50	0.24	3038	14.41	3.46	0.24	3062	14.27	3.42	0.24	3077	14.11	3.39	0.24	3177	13.92	3.34	0.24	3313	13.67	3.28	0.24	3530	13.35	3.20	0.24	3689	12.96	3.11	0.24	3824	11.90	2.86	0.24	4057	9.82	2.36	0.24	4208
27	18	14.09	10.71	0.76	2930	13.95	10.60	0.76	2957	13.80	10.48	0.76	2984	13.62	10.35	0.76	3008	13.48	10.25	0.76	3023	13.34	10.14	0.76	3124	13.15	10.00	0.76	3261	12.92	9.82	0.76	3481	12.62	9.59	0.76	3642	12.25	9.31	0.76	3778	11.25	8.55	0.76	4013	9.28	7.05	0.76	4166
27	19	14.37	10.06	0.70	2940	14.23	9.96	0.70	2967	14.08	9.85	0.70	2994	13.90	9.73	0.70	3018	13.76	9.63	0.70	3033	13.61	9.53	0.70	3134	13.42	9.39	0.70	3271	13.18	9.23	0.70	3491	12.88	9.01	0.70	3652	12.50	8.75	0.70	3788	11.48	8.03	0.70	4023	9.47	6.63	0.70	4176
27	20	14.52	9.29	0.64	2955	14.37	9.20	0.64	2982	14.22	9.10	0.64	3009	14.04	8.98	0.64	3033	13.90	8.89	0.64	3048	13.75	8.80	0.64	3149	13.56	8.68	0.64	3286	13.32	8.52	0.64	3506	13.00	8.32	0.64	3667	12.63	8.08	0.64	3803	11.59	7.42	0.64	4038	9.56	6.12	0.64	4191
27	22	14.76	7.68	0.52	2972	14.62	7.60	0.52	2999	14.46	7.52	0.52	3026	14.27	7.42	0.52	3050	14.13	7.35	0.52	3065	13.98	7.27	0.52	3166	13.79	7.17	0.52	3303	13.54	7.04	0.52	3523	13.22	6.88	0.52	3684	12.84	6.68	0.52	3820	11.79	6.13	0.52	4055	9.72	5.06	0.52	4208
27	24	14.97	5.99	0.40	2992	14.82	5.93	0.40	3019	14.66	5.86	0.40	3046	14.47	5.79	0.40	3070	14.33	5.73	0.40	3085	14.17	5.67	0.40	3186	13.98	5.59	0.40	3323	13.73	5.49	0.40	3543	13.41	5.36	0.40	3704	13.02	5.21	0.40	3840	11.95	4.78	0.40	4075	9.86	3.94	0.40	4228
27	26	15.21	4.26	0.28	3015	15.06	4.22	0.28	3042	14.90	4.17	0.28	3069	14.71	4.12	0.28	3093	14.56	4.08	0.28	3108	14.40	4.03	0.28	3209	14.20	3.98	0.28	3346	13.95	3.91	0.28	3566	13.62	3.81	0.28	3727	13.23	3.70	0.28	3863	12.14	3.40	0.28	4098	10.02	2.81	0.28	4251
28	18	14.23	11.38	0.80	2960	14.09	11.27	0.80	2987	13.93	11.15	0.80	3014	13.75	11.00	0.80	3038	13.62	10.89	0.80	3054	13.47	10.78	0.80	3155	13.28	10.63	0.80	3294	13.05	10.44	0.80	3516	12.74	10.19	0.80	3678	12.37	9.90	0.80	3816	11.36	9.09	0.80	4053	9.37	7.50	0.80	4207
28	20	14.52	9.87	0.68	2985	14.37	9.77	0.68	3012	14.22	9.67	0.68	3039	14.04	9.54	0.68	3064	13.90	9.45	0.68	3079	13.75	9.35	0.68	3180	13.56	9.22	0.68	3319	13.32	9.05	0.68	3541	13.00	8.84	0.68	3703	12.63	8.59	0.68	3841	11.59	7.88	0.68	4078	9.56	6.50	0.68	4233
28	22	14.66	8.21	0.56	3002	14.52	8.13	0.56	3029	14.36	8.04	0.56	3056	14.18	7.94	0.56	3081	14.04	7.86	0.56	3096	13.88	7.77	0.56	3197	13.69	7.67	0.56	3336	13.45	7.53	0.56	3558	13.13	7.35	0.56	3720	12.75	7.14	0.56	3858	11.71	6.56	0.56	4095	9.66	5.41	0.56	4250
28	24	14.91	6.56	0.44	3022	14.76	6.50	0.44	3049	14.60	6.43	0.44	3077	14.42	6.34	0.44	3101	14.27	6.28	0.44	3116	14.12	6.21	0.44	3218	13.92	6.13	0.44	3356	13.68	6.02	0.44	3578	13.36	5.88	0.44	3741	12.97	5.71	0.44	3878	11.90	5.24	0.44	4116	9.82	4.32	0.44	4270
28	26	15.12	4.84	0.32	3046	14.97	4.79	0.32	3073	14.81	4.74	0.32	3100	14.62	4.68	0.32	3124	14.47	4.63	0.32	3139	14.32	4.58	0.32	3241	14.12	4.52	0.32	3379	13.87	4.44	0.32	3602	13.54	4.33	0.32	3764	13.15	4.21	0.32	3902	12.07	3.86	0.32	4139	9.96	3.19	0.32	4293
29	18	14.37	11.78	0.82	2989	14.23	11.67	0.82	3017	14.07	11.54	0.82	3044	13.89	11.39	0.82	3069	13.75	11.28	0.82	3084	13.61	11.16	0.82	3186	13.42	11.00	0.82	3327	13.18	10.81	0.82	3551	12.87	10.55	0.82	3715	12.50	10.25	0.82	3854	11.47	9.41	0.82	4094	9.46	7.76	0.82	4249
29	20	14.66	10.56	0.72	3015	14.52	10.45	0.72	3042	14.36	10.34	0.72	3070	14.18	10.21	0.72	3094	14.04	10.11	0.72	3110	13.88	10.00	0.72	3212	13.69	9.86	0.72	3352	13.45	9.68	0.72	3576	13.13	9.46	0.72	3740	12.75	9.18	0.72	3879	11.71	8.43	0.72	4119	9.66	6.95	0.72	4275

4. CAPACITIES AND SELECTION DATA

PERFORMANCE DATA (Cooling Operation at Rated Frequency)

AUC-42UR4RNKC1

CAPACITY: 12.5 kW   SHF: 0.70   INPUT: 3788W

OUTDOOR DB (°C)

ID DB (°C)	IN WB (°C)	-15 Q	SHC	SHF	IPT	-5 Q	SHC	SHF	IPT	0 Q	SHC	SHF	IPT	5 Q	SHC	SHF	IPT	10 Q	SHC	SHF	IPT	15 Q	SHC	SHF	IPT	20 Q	SHC	SHF	IPT	25 Q	SHC	SHF	IPT	30 Q	SHC	SHF	IPT	35 Q	SHC	SHF	IPT	40 Q	SHC	SHF	IPT	45 Q	SHC	SHF	IPT
29	22	14.96	8.97	0.60	3032	14.81	8.89	0.60	3059	14.65	8.79	0.60	3087	14.46	8.68	0.60	3112	14.32	8.59	0.60	3127	14.16	8.50	0.60	3229	13.96	8.38	0.60	3369	13.72	8.23	0.60	3594	13.40	8.04	0.60	3758	13.01	7.80	0.60	3897	11.94	7.16	0.60	4136	9.85	5.91	0.60	4292
29	24	15.06	7.23	0.48	3053	14.91	7.16	0.48	3080	14.75	7.08	0.48	3107	14.56	6.99	0.48	3132	14.42	6.92	0.48	3147	14.26	6.84	0.48	3250	14.06	6.75	0.48	3390	13.81	6.63	0.48	3614	13.49	6.48	0.48	3778	13.10	6.29	0.48	3917	12.02	5.77	0.48	4157	9.92	4.76	0.48	4313
29	26	15.27	5.50	0.36	3076	15.12	5.44	0.36	3103	14.96	5.38	0.36	3131	14.76	5.32	0.36	3155	14.62	5.26	0.36	3171	14.46	5.21	0.36	3273	14.26	5.13	0.36	3413	14.01	5.04	0.36	3638	13.68	4.92	0.36	3802	13.28	4.78	0.36	3941	12.19	4.39	0.36	4180	10.06	3.62	0.36	4336
30	18	14.51	11.90	0.82	3019	14.37	11.78	0.82	3047	14.21	11.66	0.82	3074	14.03	11.51	0.82	3099	13.89	11.39	0.82	3115	13.74	11.27	0.82	3218	13.55	11.11	0.82	3360	13.31	10.92	0.82	3586	13.00	10.66	0.82	3752	12.62	10.35	0.82	3892	11.59	9.50	0.82	4134	9.56	7.84	0.82	4292
30	20	14.81	11.26	0.76	3045	14.66	11.14	0.76	3072	14.50	11.02	0.76	3100	14.32	10.88	0.76	3125	14.18	10.77	0.76	3141	14.02	10.66	0.76	3244	13.83	10.51	0.76	3386	13.58	10.32	0.76	3612	13.27	10.08	0.76	3778	12.88	9.79	0.76	3918	11.82	8.99	0.76	4160	9.75	7.41	0.76	4318
30	22	15.11	9.67	0.64	3062	14.96	9.57	0.64	3090	14.79	9.47	0.64	3118	14.60	9.35	0.64	3143	14.46	9.25	0.64	3158	14.30	9.15	0.64	3262	14.10	9.03	0.64	3403	13.86	8.87	0.64	3630	13.53	8.66	0.64	3795	13.14	8.41	0.64	3936	12.06	7.72	0.64	4178	9.95	6.37	0.64	4335
30	24	15.21	7.91	0.52	3083	15.06	7.83	0.52	3111	14.90	7.75	0.52	3138	14.71	7.65	0.52	3163	14.56	7.57	0.52	3179	14.40	7.49	0.52	3282	14.20	7.39	0.52	3424	13.95	7.26	0.52	3650	13.63	7.09	0.52	3816	13.23	6.88	0.52	3956	12.14	6.31	0.52	4198	10.02	5.21	0.52	4356
30	26	15.43	6.17	0.40	3107	15.27	6.11	0.40	3134	15.11	6.04	0.40	3162	14.91	5.96	0.40	3187	14.76	5.91	0.40	3203	14.60	5.84	0.40	3306	14.40	5.76	0.40	3447	14.15	5.66	0.40	3674	13.82	5.53	0.40	3840	13.41	5.37	0.40	3980	12.31	4.93	0.40	4222	10.16	4.06	0.40	4380
31	18	14.66	12.02	0.82	3049	14.51	11.90	0.82	3077	14.36	11.77	0.82	3105	14.17	11.62	0.82	3130	14.03	11.51	0.82	3146	13.88	11.38	0.82	3250	13.69	11.22	0.82	3393	13.44	11.02	0.82	3622	13.13	10.77	0.82	3789	12.75	10.45	0.82	3931	11.70	9.60	0.82	4176	9.65	7.92	0.82	4335
31	20	14.96	11.97	0.80	3075	14.81	11.85	0.80	3103	14.65	11.72	0.80	3131	14.46	11.57	0.80	3156	14.32	11.45	0.80	3172	14.16	11.33	0.80	3276	13.97	11.17	0.80	3419	13.72	10.98	0.80	3648	13.40	10.72	0.80	3816	13.01	10.41	0.80	3957	11.94	9.55	0.80	4202	9.85	7.88	0.80	4361
31	22	15.26	10.37	0.68	3093	15.11	10.27	0.68	3121	14.94	10.16	0.68	3149	14.75	10.03	0.68	3174	14.60	9.93	0.68	3190	14.45	9.82	0.68	3294	14.25	9.69	0.68	3437	13.99	9.52	0.68	3666	13.67	9.29	0.68	3833	13.27	9.02	0.68	3975	12.18	8.28	0.68	4219	10.05	6.83	0.68	4379
31	24	15.36	8.60	0.56	3114	15.21	8.52	0.56	3142	15.05	8.43	0.56	3170	14.85	8.32	0.56	3195	14.71	8.24	0.56	3211	14.55	8.15	0.56	3315	14.35	8.03	0.56	3458	14.09	7.89	0.56	3687	13.76	7.71	0.56	3854	13.36	7.48	0.56	3996	12.27	6.87	0.56	4240	10.12	5.67	0.56	4399
31	26	15.58	6.85	0.44	3138	15.43	6.79	0.44	3166	15.26	6.71	0.44	3194	15.06	6.63	0.44	3219	14.91	6.56	0.44	3235	14.75	6.49	0.44	3339	14.55	6.40	0.44	3482	14.29	6.29	0.44	3711	13.95	6.14	0.44	3878	13.55	5.96	0.44	4020	12.44	5.47	0.44	4264	10.26	4.51	0.44	4423
32	18	14.81	12.14	0.82	3080	14.66	12.02	0.82	3108	14.50	11.89	0.82	3136	14.31	11.74	0.82	3162	14.17	11.62	0.82	3178	14.02	11.49	0.82	3283	13.82	11.34	0.82	3427	13.58	11.14	0.82	3659	13.26	10.87	0.82	3827	12.87	10.56	0.82	3971	11.82	9.69	0.82	4218	9.75	8.00	0.82	4378
32	20	15.11	12.39	0.82	3106	14.96	12.27	0.82	3134	14.80	12.13	0.82	3163	14.61	11.98	0.82	3188	14.46	11.86	0.82	3204	14.30	11.73	0.82	3309	14.11	11.57	0.82	3454	13.86	11.36	0.82	3685	13.53	11.10	0.82	3854	13.14	10.77	0.82	3997	12.06	9.89	0.82	4244	9.95	8.16	0.82	4404
32	22	15.41	11.09	0.72	3124	15.26	10.99	0.72	3152	15.09	10.87	0.72	3180	14.90	10.73	0.72	3206	14.75	10.62	0.72	3222	14.59	10.50	0.72	3327	14.39	10.36	0.72	3472	14.13	10.18	0.72	3703	13.80	9.94	0.72	3872	13.40	9.65	0.72	4015	12.30	8.86	0.72	4262	10.15	7.31	0.72	4422
32	24	15.52	9.31	0.60	3145	15.36	9.22	0.60	3173	15.20	9.12	0.60	3201	15.00	9.00	0.60	3227	14.85	8.91	0.60	3243	14.69	8.82	0.60	3348	14.49	8.69	0.60	3493	14.23	8.54	0.60	3724	13.90	8.34	0.60	3893	13.49	8.10	0.60	4036	12.39	7.43	0.60	4283	10.22	6.13	0.60	4443
32	26	15.74	7.55	0.48	3169	15.58	7.48	0.48	3197	15.41	7.40	0.48	3226	15.21	7.30	0.48	3251	15.06	7.23	0.48	3267	14.90	7.15	0.48	3372	14.69	7.05	0.48	3517	14.43	6.93	0.48	3748	14.09	6.77	0.48	3917	13.68	6.57	0.48	4060	12.56	6.03	0.48	4307	10.36	4.97	0.48	4468

PERFORMANCE DATA (Heating Operation at Rated Frequency)

AUC-42UR4RNKC1

CAPACITY: 14.0 kW   INPUT: 4240 W

INDOOR DB(°C)	-15 Q	INPUT	-10 Q	INPUT	-5 Q	INPUT	0 Q	INPUT	5 Q	INPUT	10 Q	INPUT	15 Q	INPUT	20 Q	INPUT
10	12.32	3567	15.25	3651	15.40	3755	15.57	3844	15.75	4112	15.92	4239	16.10	4325	12.32	3567
12	12.00	3644	14.49	3729	15.08	3825	15.25	3913	15.43	4172	15.60	4301	15.78	4395	12.00	3644
14	11.68	3721	13.08	3806	14.76	3894	14.92	3981	15.11	4232	15.27	4363	15.46	4464	11.68	3721
16	11.35	3796	12.75	3881	14.43	3966	14.60	4051	14.78	4296	14.95	4422	15.13	4531	11.35	3796
18	11.03	3873	12.43	3958	13.86	4035	14.00	4119	14.46	4357	14.63	4484	14.81	4601	11.03	3873
20	10.71	3950	12.11	4035	13.79	4105	13.96	4188	14.39	4417	14.31	4546	14.49	4670	10.71	3950
22	10.39	4027	11.79	4111	13.47	4175	13.64	4257	13.82	4478	14.13	4607	14.17	4739	10.39	4027
24	10.07	4104	11.47	4188	13.15	4245	13.31	4326	13.50	4539	13.66	4669	13.85	4808	10.07	4104
26	9.74	4180	11.14	4265	12.82	4315	12.99	4394	13.17	4599	13.34	4731	13.52	4878	9.74	4180
28	9.42	4257	10.82	4342	12.50	4384	12.67	4463	12.85	4660	13.02	4792	13.20	4947	9.42	4257
30	9.10	4334	10.50	4419	12.18	4454	12.35	4532	12.53	4720	12.70	4854	12.88	5016	9.10	4334

4. CAPACITIES AND SELECTION DATA

AUC-48UR4RNKC1

		PERFORMANCE DATA (Cooling Operation at Rated Frequency)																																														
		AUC-48UR4RNKC1																																															
		CAPACITY: 13.5 kW SHF: 0.70 INPUT: 4219W																																															
ID IN		OUTDOOR DB (°C)																																															
DB WB		-15				-5				0				5				10				15				20				25				30				35				40				45			
(°C) (°C)		Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
21	18	13.07	6.80	0.52	3074	12.94	6.73	0.52	3102	12.80	6.66	0.52	3130	12.63	6.57	0.52	3155	12.51	6.50	0.52	3171	12.37	6.43	0.52	3277	12.20	6.35	0.52	3421	11.99	6.23	0.52	3651	11.71	6.09	0.52	3820	11.36	5.91	0.52	3963	10.43	5.42	0.52	4209	8.61	4.48	0.52	4369
21	20	13.61	5.44	0.40	3097	13.47	5.39	0.40	3125	13.33	5.33	0.40	3154	13.16	5.26	0.40	3179	13.02	5.21	0.40	3195	12.88	5.15	0.40	3300	12.71	5.08	0.40	3444	12.48	4.99	0.40	3675	12.19	4.88	0.40	3843	11.83	4.73	0.40	3986	10.86	4.35	0.40	4232	8.96	3.58	0.40	4393
22	18	13.47	7.54	0.56	3105	13.34	7.47	0.56	3133	13.19	7.39	0.56	3162	13.02	7.29	0.56	3187	12.90	7.22	0.56	3203	12.76	7.14	0.56	3310	12.58	7.04	0.56	3455	12.36	6.92	0.56	3688	12.07	6.76	0.56	3858	11.72	6.56	0.56	4003	10.76	6.02	0.56	4251	8.87	4.97	0.56	4413
22	20	13.89	6.11	0.44	3129	13.75	6.05	0.44	3157	13.60	5.98	0.44	3186	13.42	5.91	0.44	3211	13.29	5.85	0.44	3227	13.15	5.78	0.44	3333	12.96	5.70	0.44	3479	12.74	5.60	0.44	3712	12.44	5.47	0.44	3882	12.07	5.31	0.44	4026	11.08	4.88	0.44	4275	9.14	4.02	0.44	4437
22	22	14.12	4.52	0.32	3145	13.98	4.47	0.32	3173	13.83	4.43	0.32	3202	13.65	4.37	0.32	3227	13.52	4.33	0.32	3243	13.37	4.28	0.32	3350	13.19	4.22	0.32	3495	12.95	4.14	0.32	3728	12.65	4.05	0.32	3898	12.28	3.93	0.32	4043	11.27	3.61	0.32	4291	9.30	2.98	0.32	4453
23	18	13.75	8.25	0.60	3136	13.61	8.17	0.60	3165	13.46	8.08	0.60	3194	13.29	7.97	0.60	3220	13.16	7.90	0.60	3236	13.02	7.81	0.60	3343	12.84	7.70	0.60	3490	12.61	7.57	0.60	3725	12.31	7.39	0.60	3897	11.96	7.17	0.60	4043	10.97	6.58	0.60	4294	9.05	5.43	0.60	4458
23	20	14.17	6.80	0.48	3160	14.03	6.73	0.48	3189	13.88	6.66	0.48	3218	13.70	6.57	0.48	3244	13.56	6.51	0.48	3260	13.41	6.44	0.48	3367	13.23	6.35	0.48	3514	13.00	6.24	0.48	3749	12.69	6.09	0.48	3921	12.32	5.91	0.48	4067	11.31	5.43	0.48	4318	9.33	4.48	0.48	4482
23	22	14.41	5.19	0.36	3177	14.27	5.14	0.36	3205	14.11	5.08	0.36	3234	13.93	5.01	0.36	3260	13.79	4.97	0.36	3276	13.64	4.91	0.36	3383	13.45	4.84	0.36	3530	13.22	4.76	0.36	3766	12.91	4.65	0.36	3938	12.53	4.51	0.36	4083	11.50	4.14	0.36	4335	9.49	3.42	0.36	4498
24	18	14.03	8.98	0.64	3168	13.89	8.89	0.64	3197	13.74	8.79	0.64	3226	13.56	8.68	0.64	3252	13.43	8.59	0.64	3268	13.28	8.50	0.64	3377	13.10	8.38	0.64	3525	12.87	8.23	0.64	3763	12.57	8.04	0.64	3937	12.20	7.81	0.64	4084	11.20	7.17	0.64	4338	9.24	5.91	0.64	4503
24	20	14.46	7.52	0.52	3192	14.31	7.44	0.52	3221	14.16	7.36	0.52	3250	13.98	7.27	0.52	3276	13.84	7.20	0.52	3293	13.69	7.12	0.52	3401	13.50	7.02	0.52	3550	13.26	6.90	0.52	3787	12.95	6.73	0.52	3961	12.57	6.54	0.52	4108	11.54	6.00	0.52	4362	9.52	4.95	0.52	4527
24	22	14.70	5.88	0.40	3209	14.56	5.82	0.40	3238	14.40	5.76	0.40	3267	14.21	5.69	0.40	3293	14.07	5.63	0.40	3309	13.92	5.57	0.40	3418	13.73	5.49	0.40	3566	13.49	5.39	0.40	3804	13.17	5.27	0.40	3977	12.79	5.11	0.40	4125	11.74	4.70	0.40	4379	9.68	3.87	0.40	4544
24	24	14.91	4.17	0.28	3228	14.76	4.13	0.28	3257	14.60	4.09	0.28	3286	14.41	4.04	0.28	3312	14.27	4.00	0.28	3329	14.12	3.95	0.28	3437	13.92	3.90	0.28	3585	13.67	3.83	0.28	3823	13.35	3.74	0.28	3997	12.97	3.63	0.28	4144	11.90	3.33	0.28	4398	9.82	2.75	0.28	4563
25	18	14.46	9.83	0.68	3200	14.32	9.74	0.68	3229	14.16	9.63	0.68	3259	13.98	9.51	0.68	3285	13.84	9.41	0.68	3301	13.69	9.31	0.68	3411	13.50	9.18	0.68	3561	13.26	9.02	0.68	3801	12.95	8.81	0.68	3976	12.58	8.55	0.68	4125	11.55	7.85	0.68	4382	9.52	6.48	0.68	4548
25	20	14.90	8.35	0.56	3224	14.76	8.26	0.56	3254	14.60	8.17	0.56	3283	14.41	8.07	0.56	3309	14.27	7.99	0.56	3326	14.11	7.90	0.56	3435	13.92	7.79	0.56	3585	13.67	7.66	0.56	3825	13.35	7.48	0.56	4001	12.96	7.26	0.56	4150	11.90	6.66	0.56	4406	9.82	5.50	0.56	4573
25	22	15.16	6.67	0.44	3241	15.01	6.60	0.44	3270	14.84	6.53	0.44	3300	14.65	6.45	0.44	3326	14.51	6.38	0.44	3343	14.35	6.31	0.44	3452	14.15	6.23	0.44	3602	13.90	6.12	0.44	3842	13.58	5.97	0.44	4018	13.18	5.80	0.44	4166	12.10	5.32	0.44	4423	9.98	4.39	0.44	4590
25	24	15.37	4.92	0.32	3261	15.22	4.87	0.32	3290	15.05	4.82	0.32	3319	14.86	4.76	0.32	3346	14.71	4.71	0.32	3362	14.55	4.66	0.32	3472	14.35	4.59	0.32	3622	14.10	4.51	0.32	3862	13.77	4.41	0.32	4037	13.37	4.28	0.32	4186	12.27	3.93	0.32	4442	10.12	3.24	0.32	4609
26	18	14.91	10.73	0.72	3232	14.76	10.63	0.72	3262	14.60	10.51	0.72	3291	14.41	10.38	0.72	3318	14.27	10.28	0.72	3335	14.12	10.16	0.72	3445	13.92	10.02	0.72	3597	13.67	9.85	0.72	3839	13.35	9.62	0.72	4017	12.97	9.34	0.72	4167	11.90	8.57	0.72	4426	9.82	7.07	0.72	4594
26	20	15.37	9.22	0.60	3257	15.21	9.13	0.60	3287	15.05	9.03	0.60	3316	14.86	8.91	0.60	3343	14.71	8.82	0.60	3360	14.55	8.73	0.60	3470	14.35	8.61	0.60	3622	14.09	8.46	0.60	3864	13.76	8.26	0.60	4041	13.36	8.02	0.60	4192	12.27	7.36	0.60	4451	10.12	6.07	0.60	4619
26	22	15.63	7.50	0.48	3274	15.47	7.43	0.48	3303	15.30	7.35	0.48	3333	15.11	7.25	0.48	3360	14.96	7.18	0.48	3376	14.80	7.10	0.48	3487	14.59	7.00	0.48	3638	14.33	6.88	0.48	3881	14.00	6.72	0.48	4058	13.59	6.52	0.48	4208	12.48	5.99	0.48	4467	10.29	4.94	0.48	4636
26	24	15.85	5.70	0.36	3294	15.69	5.65	0.36	3323	15.52	5.59	0.36	3353	15.32	5.51	0.36	3379	15.17	5.46	0.36	3396	15.00	5.40	0.36	3507	14.80	5.33	0.36	3658	14.53	5.23	0.36	3901	14.19	5.11	0.36	4078	13.78	4.96	0.36	4228	12.65	4.55	0.36	4487	10.44	3.76	0.36	4656
26	26	16.10	3.86	0.24	3316	15.94	3.83	0.24	3346	15.77	3.78	0.24	3376	15.56	3.74	0.24	3402	15.41	3.70	0.24	3419	15.24	3.66	0.24	3530	15.03	3.61	0.24	3681	14.77	3.54	0.24	3924	14.42	3.46	0.24	4101	14.00	3.36	0.24	4251	12.85	3.08	0.24	4510	10.60	2.54	0.24	4679
27	18	15.21	11.56	0.76	3265	15.06	11.45	0.76	3295	14.90	11.32	0.76	3325	14.71	11.18	0.76	3352	14.56	11.07	0.76	3369	14.40	10.95	0.76	3480	14.21	10.80	0.76	3633	13.95	10.60	0.76	3878	13.63	10.36	0.76	4057	13.23	10.05	0.76	4209	12.15	9.23	0.76	4471	10.02	7.62	0.76	4641
27	19	15.52	10.87	0.70	3275	15.37	10.76	0.70	3305	15.20	10.64	0.70	3335	15.01	10.51	0.70	3362	14.86	10.40	0.70	3379	14.70	10.29	0.70	3490	14.50	10.15	0.70	3643	14.24	9.97	0.70	3888	13.91	9.73	0.70	4067	13.50	9.45	0.70	4219	12.39	8.68	0.70	4481	10.22	7.16	0.70	4651
27	20	15.68	10.03	0.64	3290	15.52	9.94	0.64	3320	15.36	9.83	0.64	3350	15.16	9.70	0.64	3377	15.01	9.61	0.64	3394	14.84	9.50	0.64	3505	14.64	9.37	0.64	3658	14.38	9.20	0.64	3903	14.04	8.99	0.64	4082	13.64	8.73	0.64	4234	12.52	8.01	0.64	4496	10.33	6.61	0.64	4666
27	22	15.95	8.29	0.52	3307	15.79	8.21	0.52	3337	15.62	8.12	0.52	3367	15.42	8.02	0.52	3394	15.26	7.94	0.52	3411	15.10	7.85	0.52	3522	14.89	7.74	0.52	3675	14.63	7.61	0.52	3920	14.28	7.43	0.52	4099	13.87	7.21	0.52	4251	12.73	6.62	0.52	4513	10.50	5.46	0.52	4683
27	24	16.17	6.47	0.40	3327	16.01	6.40	0.40	3357	15.84	6.33	0.40	3387	15.63	6.25	0.40	3414	15.48	6.19	0.40	3431	15.31	6.12	0.40	3542	15.10	6.04	0.40	3695	14.83	5.93	0.40	3940	14.48	5.79	0.40	4119	14.06	5.62	0.40	4271	12.91	5.16	0.40	4533	10.65	4.26	0.40	4703
27	26	16.43	4.60	0.28	3350	16.27	4.55	0.28	3380	16.09	4.50	0.28	3410	15.88	4.45	0.28	3437	15.72	4.40	0.28	3454	15.55	4.36	0.28	3565	15.34	4.29	0.28	3718	15.07	4.22	0.28	3963	14.71	4.12	0.28	4142	14.29	4.00	0.28	4294	13.11	3.67	0.28	4556	10.82	3.03	0.28	4726
28	18	15.37	12.29	0.80	3298	15.21	12.17	0.80	3328	15.05	12.04	0.80	3358	14.86	11.88	0.80	3385	14.71	11.77	0.80	3402	14.55	11.64	0.80	3515	14.35	11.48	0.80	3670	14.09	11.27	0.80	3917	13.76	11.01	0.80	4098	13.36	10.69	0.80	4251	12.27	9.81	0.80	4515	10.12	8.10	0.80	4687
28	20	15.68	10.66	0.68	3323	15.52	10.56	0.68	3353	15.36	10.44	0.68	3383	15.16	10.31	0.68	3410	15.01	10.21	0.68	3427	14.84	10.09	0.68	3540	14.64	9.96	0.68	3695	14.38	9.78	0.68	3942	14.04	9.55	0.68	4123	13.64	9.27	0.68	4276	12.52	8.51	0.68	4541	10.33	7.02	0.68	4712
28	22	15.84	8.87	0.56	3340	15.68	8.78	0.56	3370	15.51	8.68	0.56	3400	15.31	8.57	0.56	3428	15.16	8.49	0.56	3445	14.99	8.40	0.56	3557	14.79	8.28	0.56	3712	14.52	8.13	0.56	3959	14.18	7.94	0.56	4140	13.77	7.71	0.56	4294	12.64	7.08	0.56	4558	10.43	5.84	0.56	4730
28	24	16.11	7.09	0.44	3360	15.95	7.02	0.44	3390	15.77	6.94	0.44	3421	15.57	6.85	0.44	3448	15.42	6.78	0.44	3465	15.25	6.71	0.44	3578	15.04	6.62	0.44	3732	14.77	6.50	0.44	3980	14.43	6.35	0.44	4160	14.01	6.16	0.44	4314	12.86	5.66	0.44	4578	10.61	4.67	0.44	4750
28	26	16.33	5.23	0.32	3383	16.17	5.17	0.32	3414	15.99	5.12	0.32	3444	15.79	5.05	0.32	3471	15.63	5.00	0.32	3488	15.46	4.95	0.32	3601	15.25	4.88	0.32	3755	14.98	4.79	0.32	4003	14.63	4.68	0.32	4184	14.20	4.54	0.32	4337	13.04	4.17	0.32	4601	10.76	3.44	0.32	4773
29	18	15.52	12.73	0.82	3331	15.37	12.60	0.82	3361	15.20	12.46	0.82	3392	15.00	12.30	0.82	3419	14.86	12.18	0.82	3436	14.69	12.05	0.82	3550	14.49	11.88	0.82	3706	14.23	11.67	0.82	3956	13.90	11.40	0.82	4139	13.50	11.07	0.82	4294	12.39	10.16	0.82	4560	10.22	8.38	0.82	4734
29	20	15.84	11.40	0.72	3356	15.68	11.29	0.72	3386	15.51	11.17	0.72	3417	15.31	11.02	0.72	3444	15.16	10.91	0.72	3462	14.99	10.80	0.72	3576	14.79	10.65	0.72	3732	14.52	10.46	0.72	3982	14.18	10.21	0.72	4164	13.77	9.92	0.72	4319	12.64	9.10	0.72	4586	10.43	7.51	0.72	4760

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4. CAPACITIES AND SELECTION DATA

PERFORMANCE DATA (Cooling Operation at Rated Frequency)

AUC-48UR4RNKC1

CAPACITY: 13.5 kW   SHF: 0.70   INPUT: 4219W

ID DB (°C)	IN WB (°C)	-15				-5				0				5				10				15				20				25				30				35				40				45			
		Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
29	22	16.15	9.69	0.60	3373	15.99	9.60	0.60	3404	15.82	9.49	0.60	3434	15.62	9.37	0.60	3462	15.46	9.28	0.60	3479	15.29	9.18	0.60	3593	15.08	9.05	0.60	3749	14.82	8.89	0.60	3999	14.47	8.68	0.60	4182	14.05	8.43	0.60	4336	12.89	7.74	0.60	4603	10.64	6.38	0.60	4777
29	24	16.27	7.81	0.48	3394	16.11	7.73	0.48	3424	15.93	7.65	0.48	3455	15.73	7.55	0.48	3482	15.57	7.47	0.48	3499	15.40	7.39	0.48	3613	15.19	7.29	0.48	3769	14.92	7.16	0.48	4019	14.57	6.99	0.48	4202	14.15	6.79	0.48	4357	12.99	6.23	0.48	4624	10.71	5.14	0.48	4797
29	26	16.49	5.94	0.36	3417	16.33	5.88	0.36	3448	16.15	5.82	0.36	3478	15.95	5.74	0.36	3506	15.79	5.68	0.36	3523	15.62	5.62	0.36	3637	15.40	5.54	0.36	3793	15.13	5.45	0.36	4043	14.77	5.32	0.36	4225	14.34	5.16	0.36	4380	13.17	4.74	0.36	4647	10.86	3.91	0.36	4821
30	18	15.67	12.85	0.82	3364	15.52	12.73	0.82	3395	15.35	12.59	0.82	3425	15.15	12.43	0.82	3453	15.00	12.30	0.82	3471	14.84	12.17	0.82	3586	14.64	12.00	0.82	3743	14.38	11.79	0.82	3996	14.04	11.51	0.82	4180	13.63	11.18	0.82	4337	12.51	10.26	0.82	4606	10.32	8.47	0.82	4781
30	20	15.99	12.16	0.76	3390	15.84	12.04	0.76	3420	15.66	11.90	0.76	3451	15.46	11.75	0.76	3479	15.31	11.64	0.76	3496	15.14	11.51	0.76	3611	14.93	11.35	0.76	3769	14.67	11.15	0.76	4021	14.33	10.89	0.76	4206	13.91	10.57	0.76	4362	12.77	9.70	0.76	4632	10.53	8.01	0.76	4807
30	22	16.31	10.44	0.64	3407	16.15	10.34	0.64	3438	15.98	10.23	0.64	3469	15.77	10.09	0.64	3496	15.62	9.99	0.64	3514	15.45	9.89	0.64	3629	15.23	9.75	0.64	3787	14.96	9.58	0.64	4039	14.61	9.35	0.64	4223	14.19	9.08	0.64	4380	13.02	8.34	0.64	4649	10.74	6.88	0.64	4825
30	24	16.43	8.54	0.52	3428	16.27	8.46	0.52	3458	16.09	8.37	0.52	3489	15.88	8.26	0.52	3517	15.73	8.18	0.52	3534	15.55	8.09	0.52	3650	15.34	7.98	0.52	3807	15.07	7.84	0.52	4060	14.72	7.65	0.52	4244	14.29	7.43	0.52	4400	13.12	6.82	0.52	4670	10.82	5.63	0.52	4845
30	26	16.66	6.66	0.40	3451	16.49	6.60	0.40	3482	16.31	6.53	0.40	3513	16.11	6.44	0.40	3541	15.95	6.38	0.40	3558	15.77	6.31	0.40	3673	15.55	6.22	0.40	3831	15.28	6.11	0.40	4083	14.92	5.97	0.40	4268	14.49	5.79	0.40	4424	13.30	5.32	0.40	4694	10.97	4.39	0.40	4869
31	18	15.83	12.98	0.82	3398	15.67	12.85	0.82	3428	15.50	12.71	0.82	3460	15.31	12.55	0.82	3488	15.15	12.43	0.82	3505	14.99	12.29	0.82	3622	14.78	12.12	0.82	3781	14.52	11.91	0.82	4036	14.18	11.63	0.82	4222	13.77	11.29	0.82	4380	12.64	10.36	0.82	4652	10.43	8.55	0.82	4829
31	20	16.15	12.92	0.80	3424	15.99	12.80	0.80	3455	15.82	12.66	0.80	3486	15.62	12.49	0.80	3514	15.46	12.37	0.80	3531	15.29	12.24	0.80	3648	15.08	12.07	0.80	3807	14.82	11.85	0.80	4062	14.47	11.58	0.80	4248	14.05	11.24	0.80	4406	12.90	10.32	0.80	4678	10.64	8.51	0.80	4855
31	22	16.48	11.20	0.68	3441	16.31	11.09	0.68	3472	16.14	10.97	0.68	3503	15.93	10.83	0.68	3531	15.77	10.73	0.68	3549	15.60	10.61	0.68	3665	15.39	10.46	0.68	3824	15.11	10.28	0.68	4079	14.76	10.04	0.68	4266	14.33	9.74	0.68	4424	13.15	8.94	0.68	4696	10.85	7.38	0.68	4873
31	24	16.59	9.29	0.56	3462	16.43	9.20	0.56	3493	16.25	9.10	0.56	3524	16.04	8.98	0.56	3552	15.88	8.89	0.56	3570	15.71	8.80	0.56	3686	15.49	8.68	0.56	3845	15.22	8.52	0.56	4100	14.86	8.32	0.56	4286	14.43	8.08	0.56	4444	13.25	7.42	0.56	4717	10.93	6.12	0.56	4894
31	26	16.83	7.40	0.44	3486	16.66	7.33	0.44	3517	16.48	7.25	0.44	3548	16.27	7.16	0.44	3576	16.11	7.09	0.44	3594	15.93	7.01	0.44	3710	15.71	6.91	0.44	3869	15.43	6.79	0.44	4124	15.07	6.63	0.44	4310	14.63	6.44	0.44	4468	13.43	5.91	0.44	4741	11.08	4.88	0.44	4918
32	18	15.99	13.11	0.82	3432	15.83	12.98	0.82	3463	15.66	12.84	0.82	3494	15.46	12.68	0.82	3523	15.31	12.55	0.82	3540	15.14	12.41	0.82	3658	14.93	12.24	0.82	3819	14.67	12.03	0.82	4076	14.32	11.74	0.82	4264	13.90	11.40	0.82	4424	12.76	10.47	0.82	4699	10.53	8.64	0.82	4878
32	20	16.32	13.38	0.82	3458	16.15	13.25	0.82	3489	15.98	13.10	0.82	3521	15.77	12.93	0.82	3549	15.62	12.81	0.82	3567	15.45	12.67	0.82	3684	15.23	12.49	0.82	3845	14.97	12.27	0.82	4102	14.61	11.98	0.82	4290	14.19	11.63	0.82	4450	13.03	10.68	0.82	4725	10.75	8.81	0.82	4904
32	22	16.64	11.98	0.72	3476	16.48	11.86	0.72	3507	16.30	11.73	0.72	3538	16.09	11.58	0.72	3567	15.93	11.47	0.72	3584	15.76	11.34	0.72	3702	15.54	11.19	0.72	3863	15.26	10.99	0.72	4120	14.91	10.73	0.72	4308	14.47	10.42	0.72	4468	13.29	9.57	0.72	4743	10.96	7.89	0.72	4922
32	24	16.76	10.06	0.60	3497	16.59	9.96	0.60	3528	16.41	9.85	0.60	3559	16.20	9.72	0.60	3588	16.04	9.63	0.60	3605	15.87	9.52	0.60	3723	15.65	9.39	0.60	3884	15.37	9.22	0.60	4141	15.01	9.01	0.60	4329	14.57	8.74	0.60	4489	13.38	8.03	0.60	4764	11.04	6.62	0.60	4943
32	26	16.99	8.16	0.48	3521	16.83	8.08	0.48	3552	16.64	7.99	0.48	3584	16.43	7.89	0.48	3612	16.27	7.81	0.48	3630	16.09	7.72	0.48	3747	15.87	7.62	0.48	3908	15.59	7.48	0.48	4165	15.22	7.31	0.48	4353	14.78	7.09	0.48	4513	13.57	6.51	0.48	4788	11.19	5.37	0.48	4967

PERFORMANCE DATA (Heating Operation at Rated Frequency)

AUC-48UR4RNKC1

CAPACITY: 15.0 kW   INPUT: 4545 W

INDOOR DB (°C)	-15		-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
10	13.20	3823	16.34	3914	16.50	4026	16.68	4120	16.88	4408	17.06	4544	17.25	4636	13.20	3823
12	12.86	3906	15.53	3997	16.16	4100	16.34	4194	16.53	4472	16.71	4610	16.91	4711	12.86	3906
14	12.51	3989	14.01	4080	15.81	4175	15.99	4268	16.19	4537	16.37	4676	16.56	4785	12.51	3989
16	12.17	4069	13.67	4160	15.47	4251	15.65	4342	15.84	4605	16.02	4740	16.22	4857	12.17	4069
18	11.82	4152	13.32	4242	14.85	4326	15.00	4416	15.50	4670	15.68	4806	15.87	4932	11.82	4152
20	11.48	4234	12.98	4325	14.78	4401	14.96	4489	15.42	4735	15.33	4873	15.53	5006	11.48	4234
22	11.13	4316	12.63	4407	14.43	4475	14.61	4563	14.81	4800	15.14	4939	15.18	5080	11.13	4316
24	10.79	4399	12.29	4490	14.09	4550	14.27	4637	14.46	4865	14.64	5005	14.84	5154	10.79	4399
26	10.44	4481	11.94	4572	13.74	4625	13.92	4710	14.12	4930	14.30	5071	14.49	5228	10.44	4481
28	10.10	4564	11.60	4654	13.40	4700	13.58	4784	13.77	4995	13.95	5137	14.15	5303	10.10	4564
30	9.75	4646	11.25	4737	13.05	4774	13.23	4858	13.43	5060	13.61	5203	13.80	5377	9.75	4646

4. CAPACITIES AND SELECTION DATA

4.2 Piping length correction factor
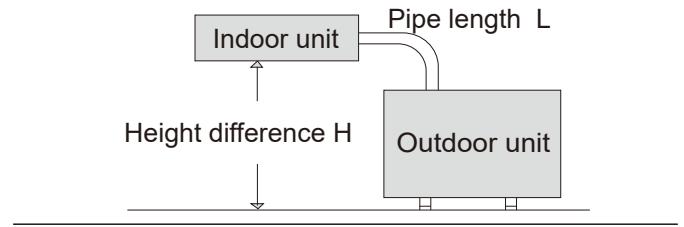
Model	Max. pipe length (L)	Max. height difference (H)	Add. refrigerant (exceed 5m)
18K/24K	30(m)	20(m)	15(g/m)
36K/42K/48K	50(m)	30(m)	35(g/m)

The correction factor is based on the equivalent piping length in meters (EL) and the height between outdoor and indoor units in meters (H).

H:

Height difference between indoor unit and outdoor unit (m).

• H>0: Position of outdoor unit is higher than that of the indoor unit (m).

• H<0: Position of outdoor unit is lower than that of the indoor unit (m).

L:

Actual one-way piping length between indoor unit and outdoor unit (m).

EL:

Equivalent one-way piping length between indoor unit and outdoor unit (m).

Gas Diameter (mm/inch)	9.52 (3/8')	12.7 (1/2')	15.88 (5/8')	19.05 (3/4')	22.22 (7/8')
90°Elbow	0.15	0.20	0.25	0.35	0.40

Cooling

EL \ Model	7.5m	15m	20m	25m	30m	35m	40m	45m	50m
18K	1.00	0.95	0.93	0.92	0.91	_	_	_	_
24K	1.00	0.96	0.94	0.92	0.91	_	_	_	_
36K	1.00	0.96	0.94	0.92	0.91	0.87	0.86	0.84	0.83
42K/48K	1.00	0.97	0.95	0.93	0.91	0.89	0.87	0.85	0.82

4. CAPACITIES AND SELECTION DATA

Heating

EL / Model	7.5m	15m	20m	25m	30m	35m	40m	45m	50m
18K	1.00	0.94	0.93	0.90	0.88	_	_	_	_
24K	1.00	0.95	0.90	0.88	0.86	_	_	_	_
36K	1.00	0.95	0.90	0.88	0.86	0.84	0.82	0.80	0.78
42K/48K	1.00	0.95	0.92	0.90	0.88	0.86	0.82	0.80	0.76

The correction factor of height between indoor unit and outdoor unit

Height difference	5m	10m	20m	30m
Factor	0.010	0.015	0.020	0.025

To ensure correct unit selection, consider the farthest indoor unit.

NOTE:

1. Above data is assuming that the height difference between indoor unit and outdoor unit is 0m.

2. Be sure to minimize length of connection pipes to optimize performance. If the outdoor unit is installed higher or lower than the indoor unit, it is necessary to apply height correction factor additionally to length correction factor to calculate cooling.

   If outdoor unit is higher, correction should be applied to cooling capacity, if outdoor unit is lower, correction should be applied to heating capacity.

4.3 Correction factors according to defrosting operation

The heating capacity in the preceding paragraph, excludes the condition of defrosting operation period. In consideration of defrosting operation, the heating capacity is corrected by the equation below.

Corrected heating capacity = Defrost Correction factor x unit capacity

Outdoor temperature (℃ DB) — Correction factor (humidity rate 85% RH）	-15	-7	-5	0	7	10
18K	0.50	0.62	0.65	0.73	1.00	1.00
24K	0.45	0.55	0.58	0.64	1.00	1.00
42K/48K	0.55	0.65	0.69	0.75	1.00	1.00

Correction Factor
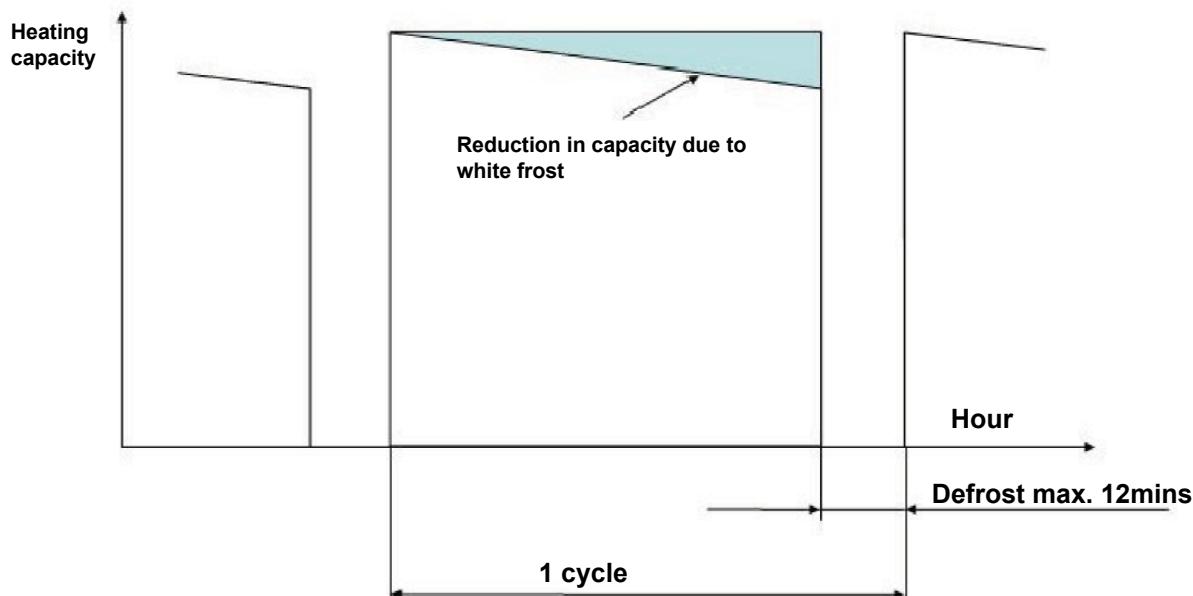
NOTE:
The correction factor is not valid for special conditions such as snowfall or operation in a transitional period.

5. Sound pressure data

Indoor unit

Model	AUC-18UR4RJC1
Test condition	1.4m in front of the unit; 1.0m above the ground

Model	AUC-24UR4RJC1
Test condition	1.4m in front of the unit; 1.0m above the ground

Model	AUC-36UR4RKC1
Test condition	1.4m in front of the unit; 1.0m above the ground

Model	AUC-42UR4RKC1，AUC-48UR4RKC1
Test condition	1.4m in front of the unit; 1.0m above the ground

27
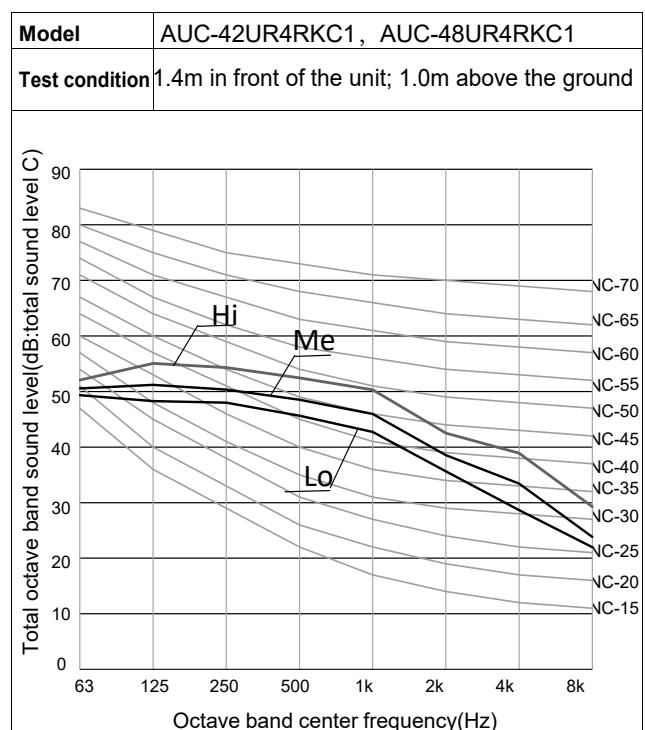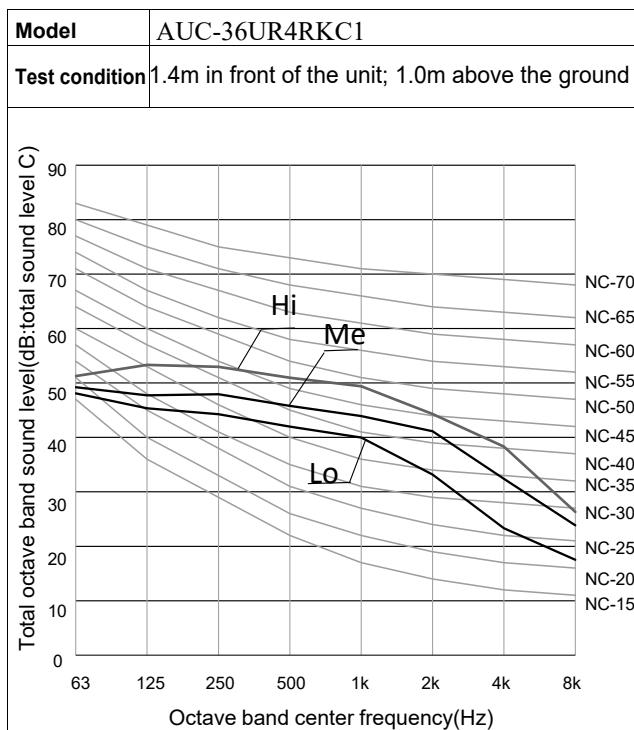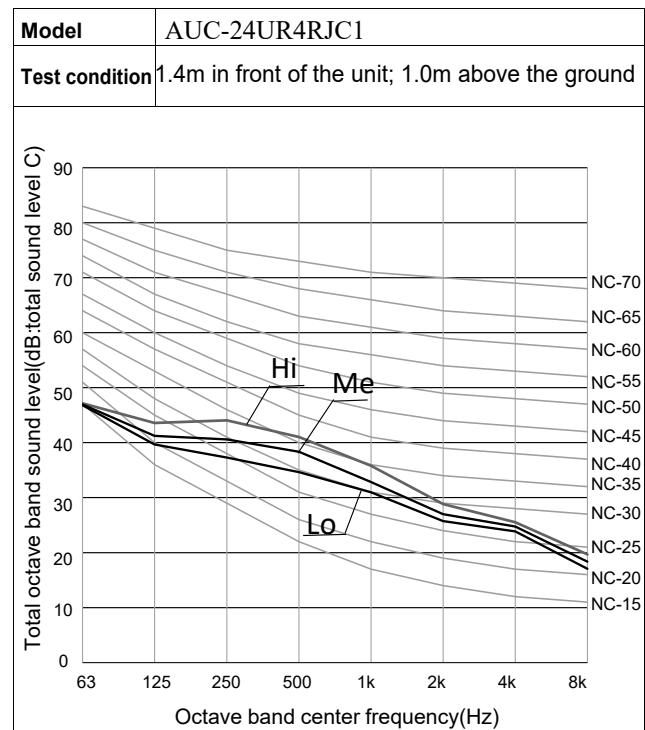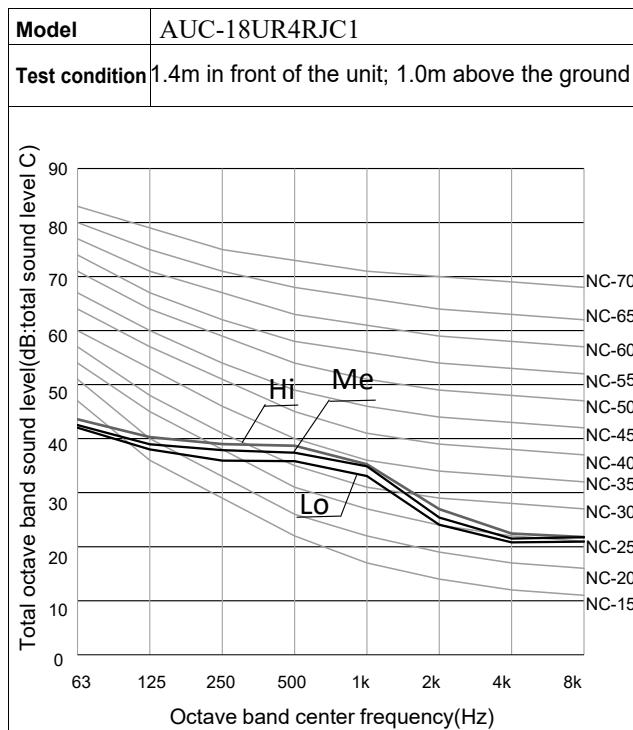
5. SOUND PRESSURE DATA

Outdoor unit

Model	AUW-18U4RX1
Test condition	1.0m ahead of the unit;0.375m high from the bottom of the unit

Total octave band sound level(dB:total sound level C)

90
80
70 — NC-70
65 — NC-65
60 — NC-60
55 — NC-55
50 — NC-50
45 — NC-45
40 — NC-40
35 — NC-35
30 — NC-30
25 — NC-25
20 — NC-20
15 — NC-15
0

63 125 250 500 1k 2k 4k 8k

Octave band center frequency(Hz)

Model	AUW-24U4RB1
Test condition	1.0m ahead of the unit;0.375m high from the bottom of the unit

Total octave band sound level(dB:total sound level C)

90
80
70 — NC-70
60 — NC-65
— NC-60
— NC-55
50 — NC-50
— NC-45
40 — NC-40
— NC-35
30 — NC-30
— NC-25
20 — NC-20
10 — NC-15
0

63 125 250 500 1k 2k 4k 8k

Octave band center frequency(Hz)

Model	AUW-36U4RK1
Test condition	1.0m ahead of the unit;0.375m high from the bottom of the unit

Total octave band sound level(dB:total sound level C)

90
80
70 — NC-70
— NC-65
60 — NC-60
— NC-55
50 — NC-50
— NC-45
40 — NC-40
— NC-35
30 — NC-30
— NC-25
20 — NC-20
10 — NC-15
0

63 125 250 500 1k 2k 4k 8k

Octave band center frequency(Hz)

Model	AUW-42U4RN1，AUW-48U4RN1
Test condition	1.0m ahead of the unit;0.375m high from the bottom of the unit

Total octave band sound level(dB:total sound level C)

90
80
70 — NC-70
— NC-65
60 — NC-60
— NC-55
50 — NC-50
— NC-45
40 — NC-40
— NC-35
30 — NC-30
— NC-25
20 — NC-20
10 — NC-15
0

63 125 250 500 1k 2k 4k 8k

Octave band center frequency(Hz)

6. AIR FLOW DISTRIBUTION

18K
1) Cooling/ Air Velocity Distribution
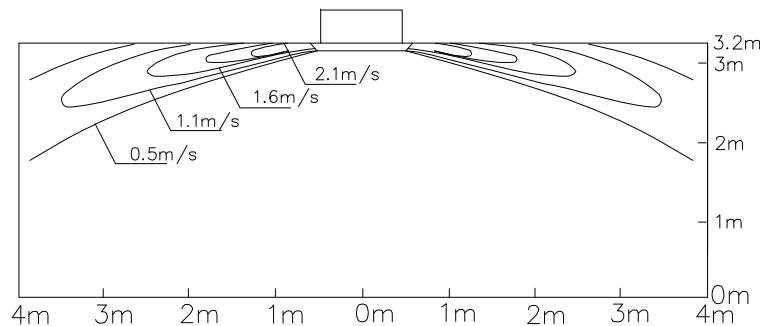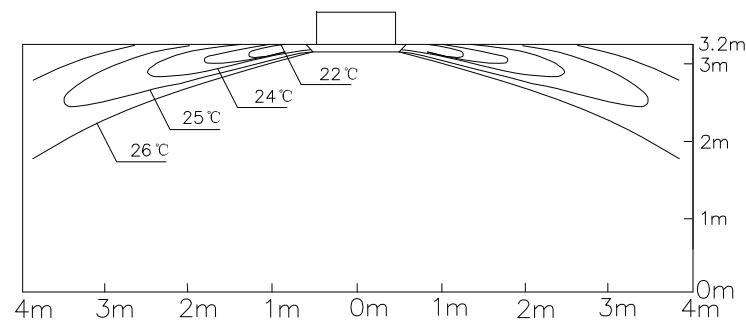
2) Cooling/ Air Temperature Distribution

3) Heating/ Air Velocity Distribution
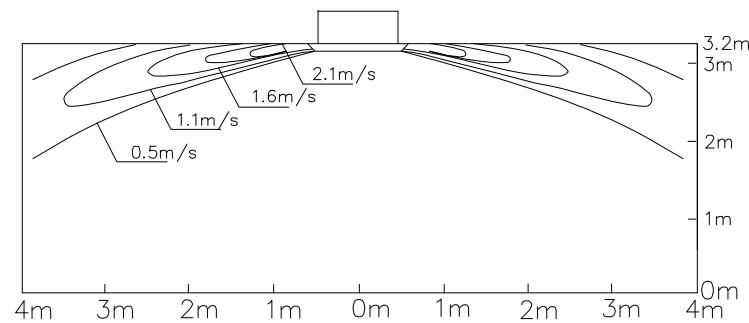
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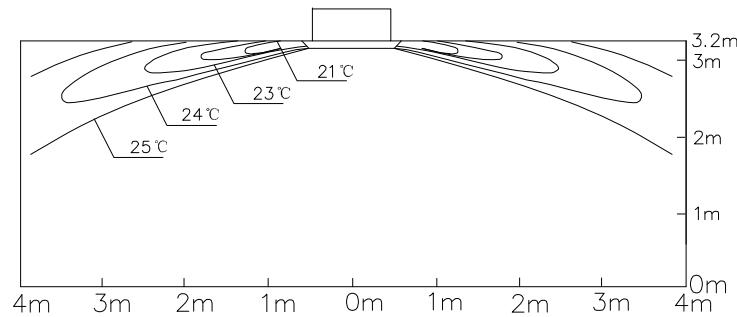
6. AIR FLOW DISTRIBUTION

24K
1) Cooling/ Air Velocity Distribution
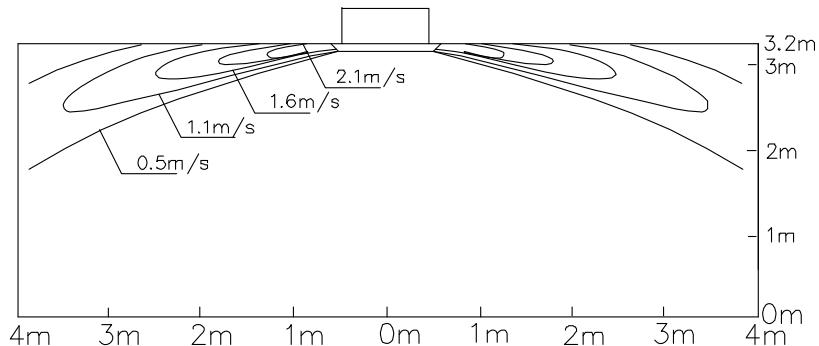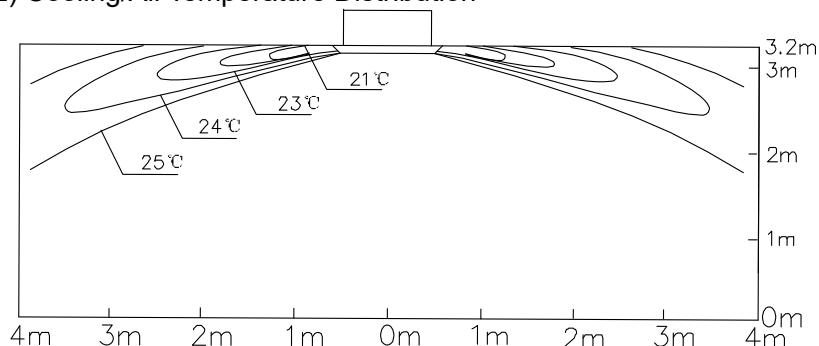
2) Cooling/Air Temperature Distribution

3) Heating/Air Velocity Distribution
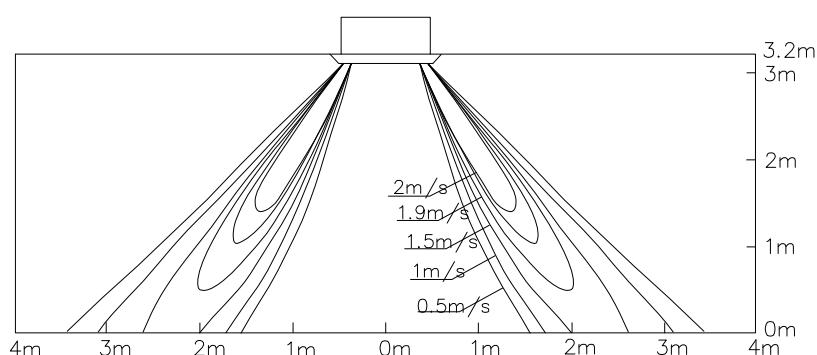
4) Heating/Air Temperature Distribution
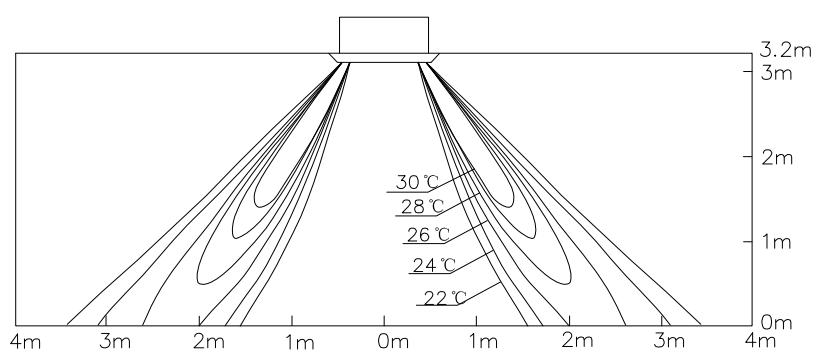
6. AIR FLOW DISTRIBUTION

36K

1) Cooling/Air Velocity Distribution
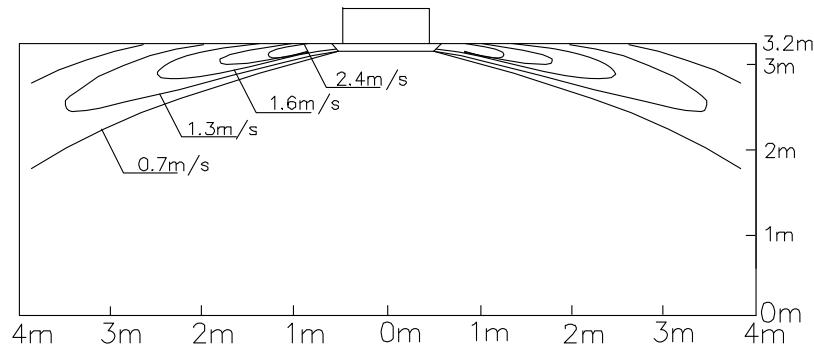
2) Cooling/Air Temperature Distribution
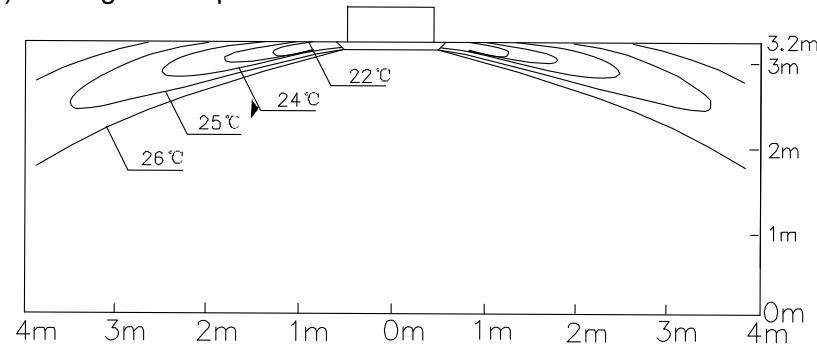
3) Heating/Air Velocity Distribution
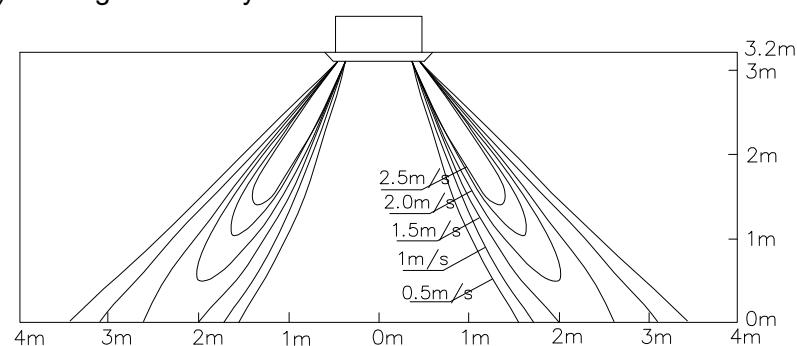
4) Heatling/Air Temperature Distribution
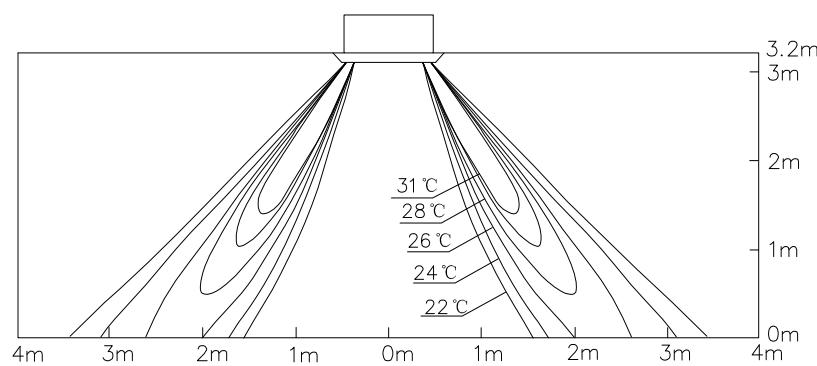
6. AIR FLOW DISTRIBUTION

42K/48K
1) Cooling/ Air Velocity Distribution
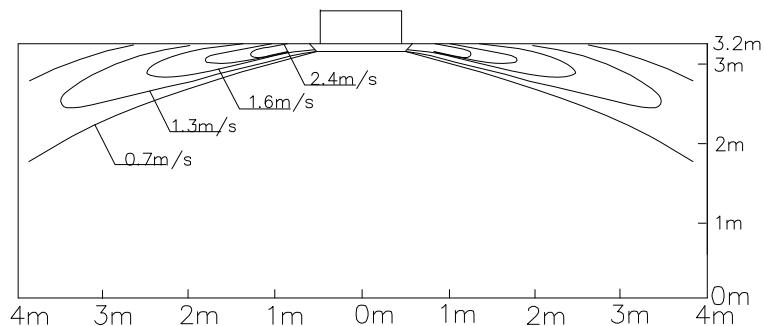
2) Cooling/Air Temperature Distribution
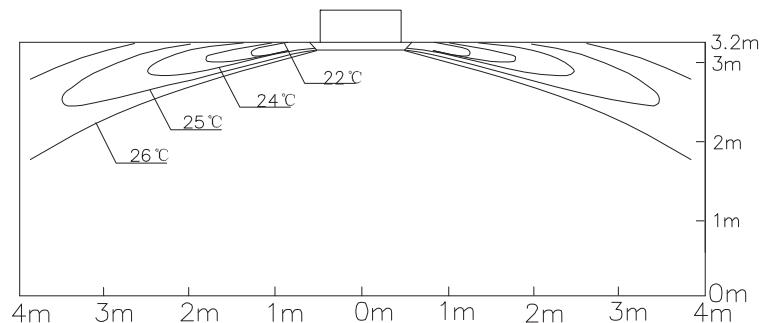
3) Heating/Air Velocity Distribution
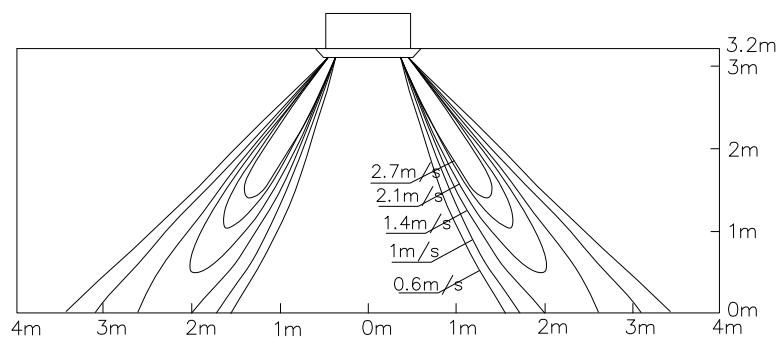
4) Heating/Air Temperature Distribution
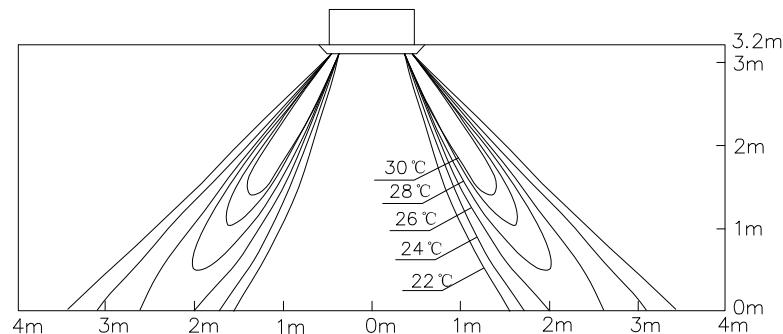
7. Fresh air intake function

Cassette

It is possible to inhale fresh air to indoor unit from the reserved fresh air intake, the size of the fresh air intake is Φ125mm.

Please follow the steps below when need:

1）Cut off the reserved metal circular hole on the side board；

2）There is reserved fresh air tunnel between the foam and the water drain part；

3）Connect air duct with the fresh air intake.

Reserved Fresh Air Intake
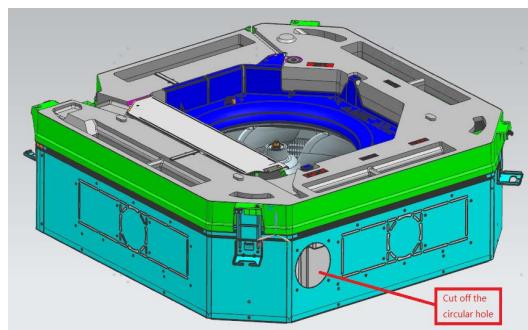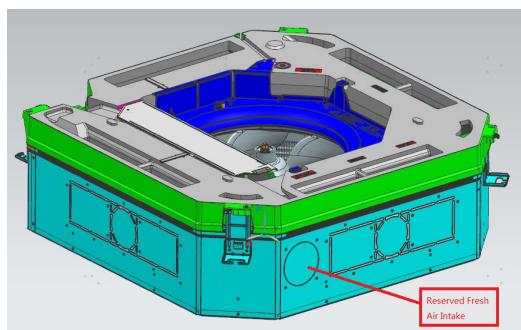
Cut off the circular hole

8. Refrigerant cycle

Indoor unit
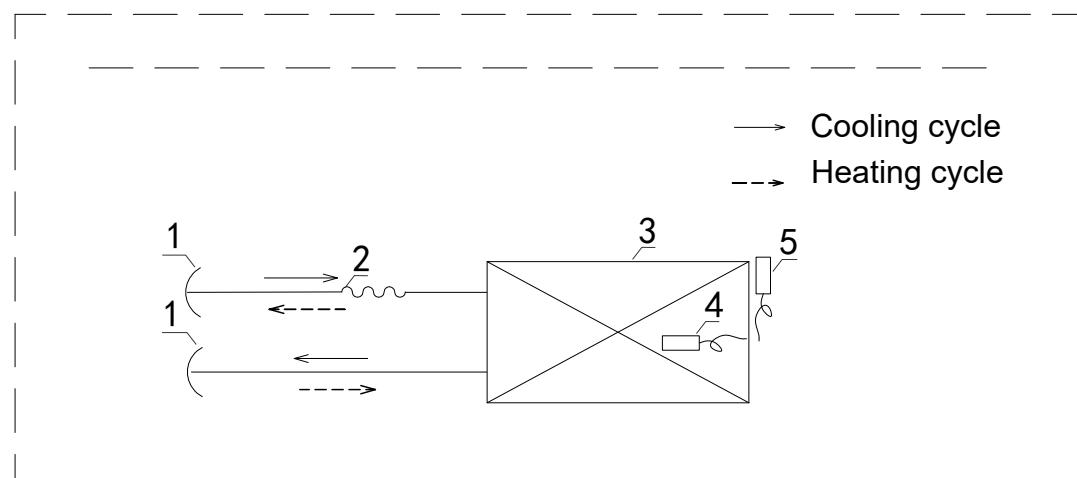
INDOOR UNIT

List of Components			
No.	Name	No.	Name
1	Hexagon nut	4	Ambient temperature sensor
2	Split capillary	5	Coil temperature sensor
3	Indoor heat exchanger		

8. REFRIGERANT CYCLE

Outdoor unit

18K/24K /36K
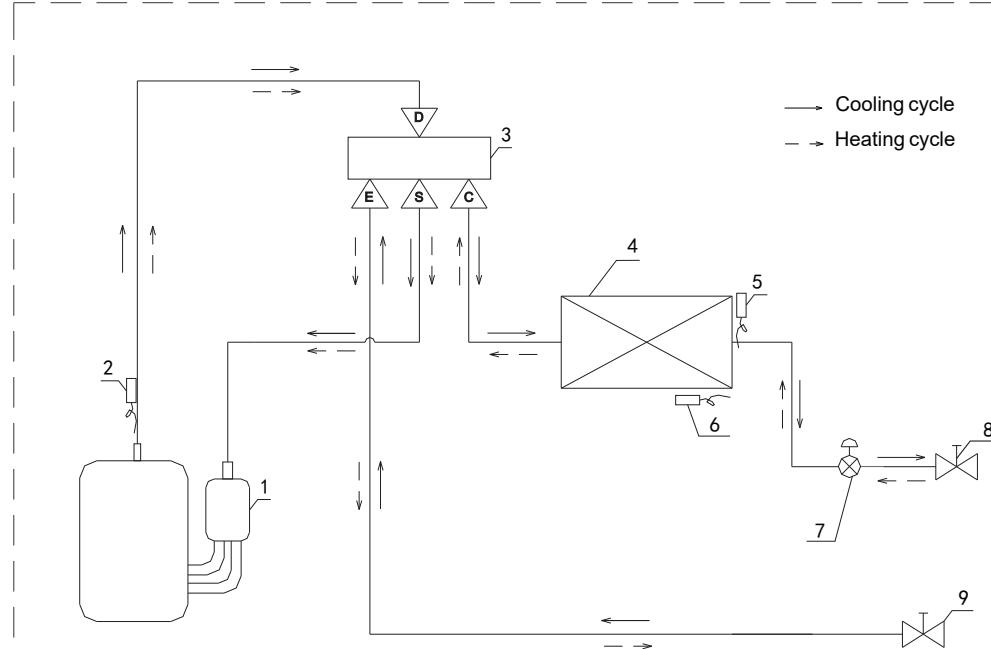
Cooling cycle
Heating cycle

OUTDOOR UNIT

List of Components					
No.	Name	No.	Name	No.	Name
1	Compressor	5	Outdoor heat exchanger	9	Electronic expansion valve
2	Discharge temp. sensor	6	Ambient temp. sensor	10	Stop valve (gas)
3	High pressure switch	7	Coil temperature sensor	11	Stop valve (liquid)
4	4-way valve	8	Throttle valve	12	Low pressure switch

8. REFRIGERANT CYCLE

Outdoor unit

42K/48K
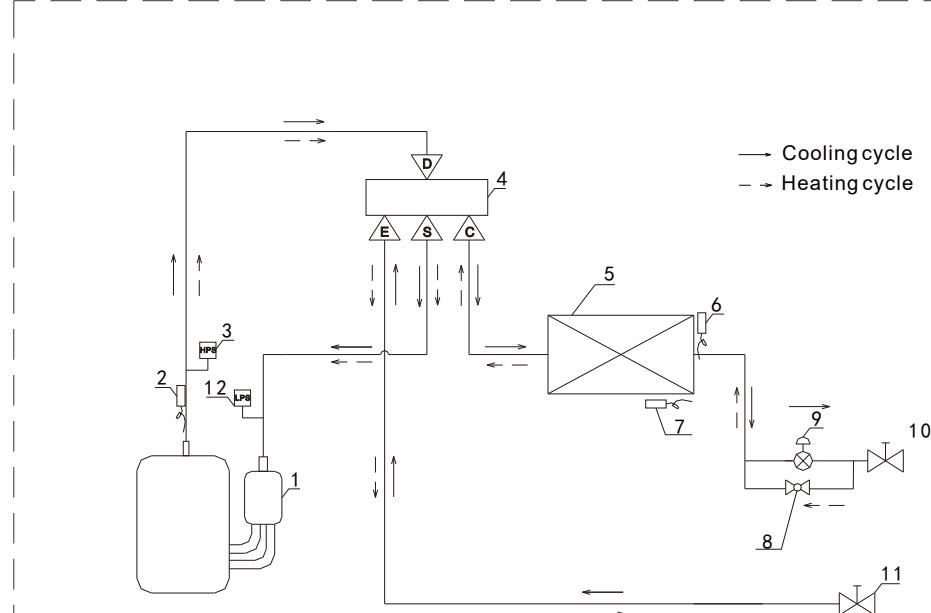
OUTDOOR UNIT

		List of Components				
No.	Name		No.	Name	No.	Name
1	Compressor		5	Outdoor heat exchanger	9	Electronic expansion valve
2	Discharge temp. sensor		6	Ambient temp. sensor	10	Stop valve (gas)
3	High pressure switch		7	Coil temperature sensor	11	Stop valve (liquid)
4	4-way valve		8	Throttle valve	12	Low pressure switch

9. WIRING DIAGRAM

9. Wiring diagram

9.1 Electrical wiring diagrams

Indoor unit

18K/24K/36K/42K/48K
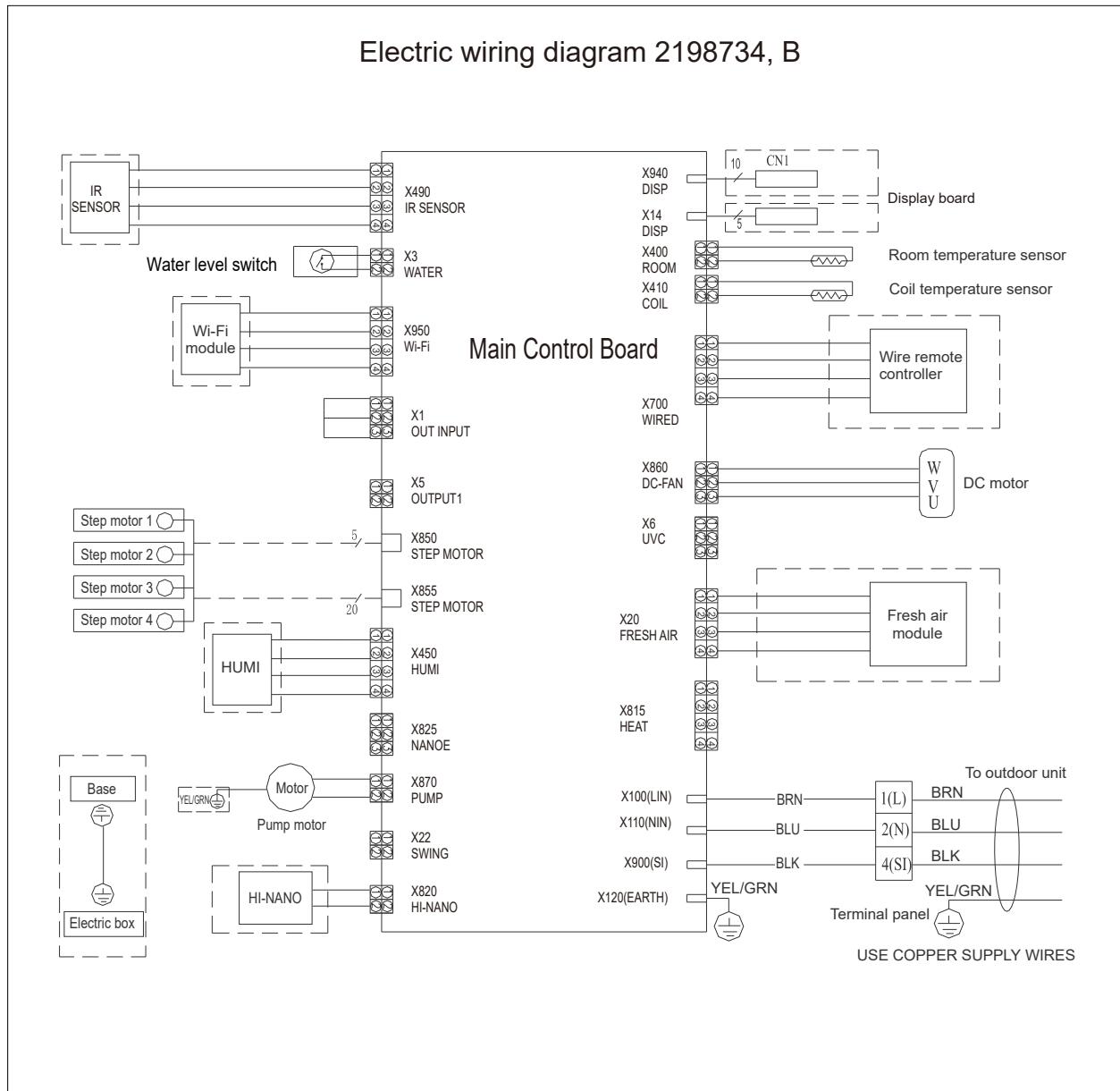
Electric wiring diagram 2198734, B

Remark:
Dashed parts are not available in some models.
Details see the table below.

Series	Indoor units model	IR SENSOR	WIFI	Step motor X850	Step motor X855	Humi	Pump motor earth	Earth between base and Electric box	Hi-Nano	Fresh air module	Wire remote controller	Swing motor earth	Display board X14	Display board X940
Cassette	18K/24K/36 K/42K /48K				●		●	●				●	●	

●--available part

9. WIRING DIAGRAM

Outdoor unit
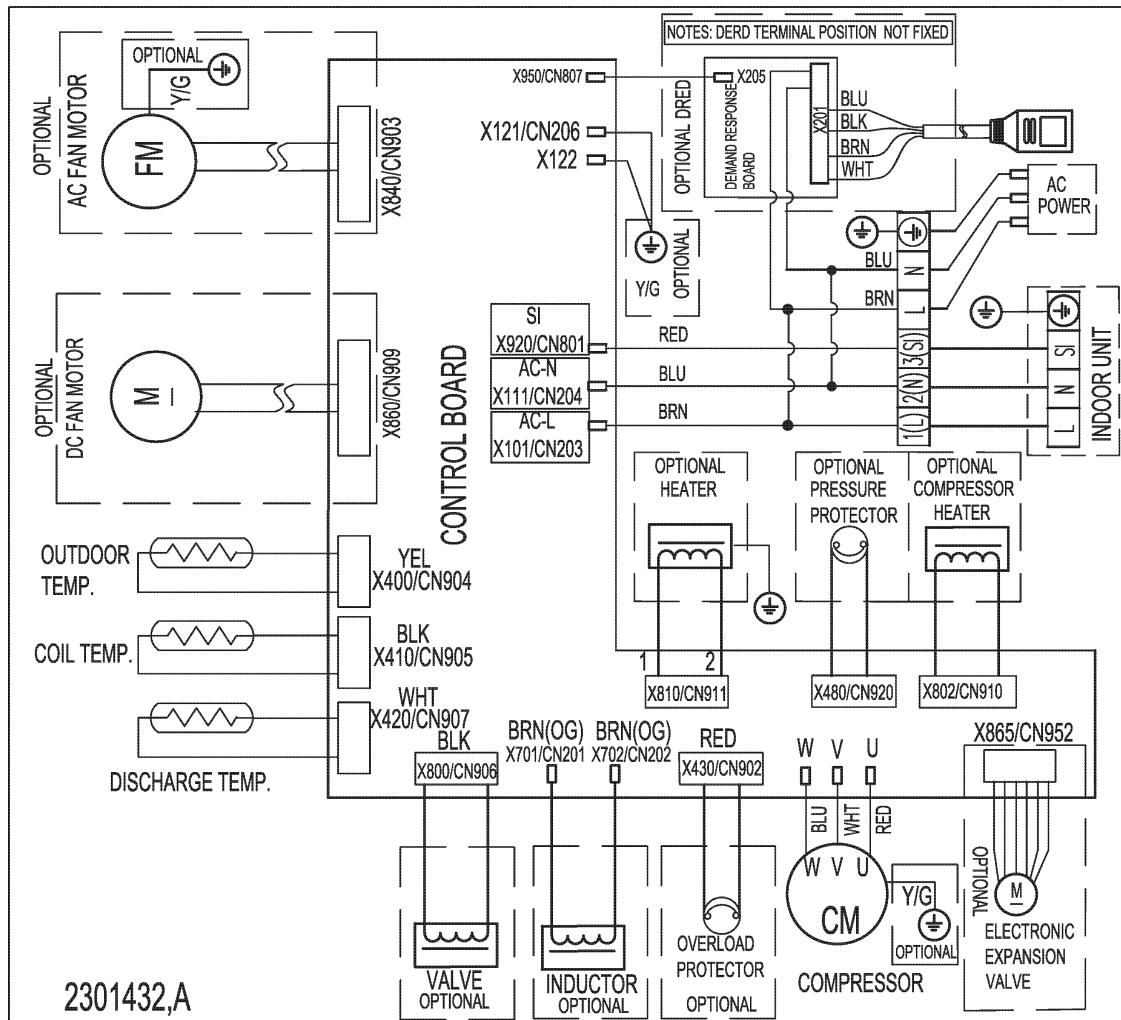
18K/24K/36K

2301432,A

Remark:
Dashed parts are not available in some models.
Details see the table below.

Series	Indoor units model	AC Fan motor	DC Fan motor	4 WAY VALVE	Inductor	Overload Protector	Compressor earth	Electronic expansion valve	Compressor Heater	Pressure protector	Heater	X121 & X122 earth	Dred board
Outdoor unit	18K/24K /36K		●	●	●		●	●				●	●

●--available part

38

9. WIRING DIAGRAM

42K/48K

Electric Wiring Diagram 2298128.A

Terminal panel

TO INDOOR
- 1(L) — BRN
- 2(N) — WHT — SI-N (X902)
- 4(SI) — RED — SI (X901)

YEL/GRN

BLU

Terminal panel
- 1(L) — BRN — L-IN (X100)
- 2(N) — BLU — N-IN (X110)
- 3 — YEL/GRN — GRAND (X120)

POWER

BLU
BRN

COMPRESSOR

CM
- U/R — RED — U(X200)
- V/S — WHT — V(X201)
- W/C — BLU — W(X202)

YEL/GRN

X201
X205
X950 DRED
X560 COMPUTER
Service Window
X310
DRED BOARD

ELECTRONIC EXPANSION VALVE — M — X304

OUTDOOR TEMP. — X305

COIL TEMP. — X306

DISCHARGE TEMP. — X307

REFRIGERANT TEMP. — X308

OVERHEAT PROTECTOR — X309

Control Board

UPPER DC FAN MOTOR

X101
- FG
- Vsp
- Vcc
- GND
- +310V
- EARTH

YEL/GRN

DOWN DC FAN MOTOR

X102
- FG
- Vsp
- Vcc
- GND
- +310V
- EARTH

YEL/GRN

X401 — VA — 4 WAY VALVE

X402 — HEATING BELT

X403-1
X403-2 — HEATER

X312 — HIGH PRESSURE SWITCH

X313 — LOW PRESSURE SWITCH

☐ :OPTIONAL PARTS,PLEASE SEE THE REAL PRODUCT

Remark:
Dashed parts are not available in some models.
Details see the table below.

Series	Indoor units model	HEATER (X403-1 X403-2)	HEATING BELT (X402)	4 WAY VALVE (X401)	EARTH (X101 X102)	Display board (X310)	Electronic expansion valve (X304)	Referigerant temp. (X308)	Overheat protector (X309)
Outdoor unit	42K/48K	●		●			●	●	

●--available part

9. WIRING DIAGRAM

9.2 Control board picture

Indoor unit

18K/24K/36K/42K/48K
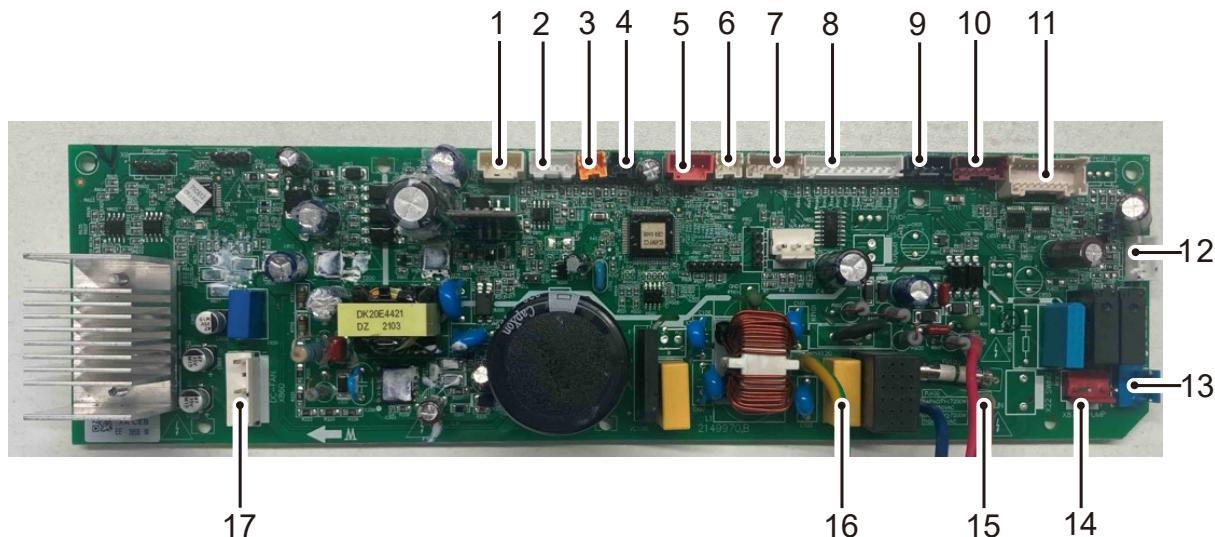
NO.	Description	NO.	Description
1	Wi-Fi	10	STEP
2	IR SENSOR	11	STEP
3	Ambient temp. sensor	12	HI-Nanoe
4	Coil temp. sensor	13	Wired controller
5	Humidity sensor	14	Pump
6	Water level	15	L/N/Si
7	DISP	16	Earth
8	DISP	17	DC Fan motor
9	Heater		

9. WIRING DIAGRAM

Outdoor unit

18K/24K
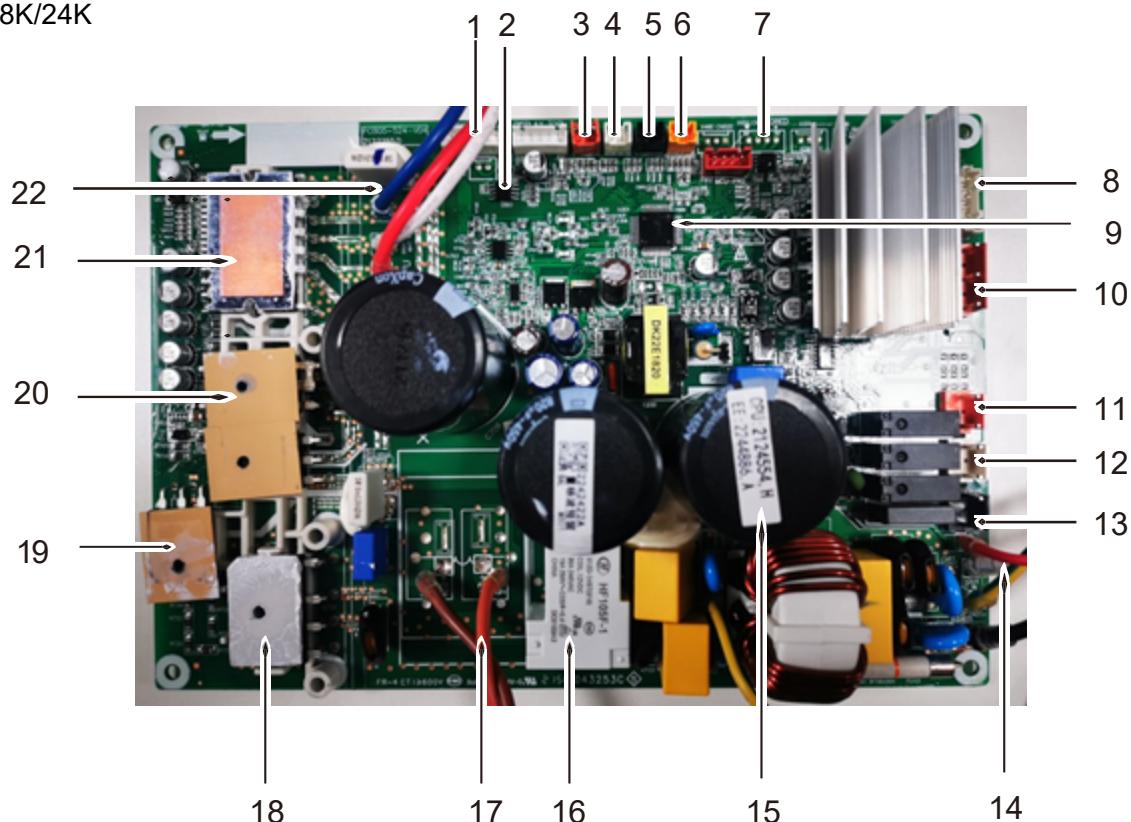
NO.	Description	NO.	Description
1	EEPROM Flashing	12	Compressor heater
2	EE	13	4-way value
3	Compressor overheat protector	14	L/N Power input
4	Discharge Temp Sensor	15	Filter Electrolytic Capacitor
5	Coil Temp Sensor	16	Main realy
6	Ambient Temp Sensor	17	Electric Reactor wire
7	To DRED board	18	Bridge Rectifier
8	Electronic Expansion Valve	19	IGBT
9	MCU	20	Power Diode
10	DC Fan motor	21	IPM Module circuit
11	Heater	22	Compressor U,V,W wire

9. WIRING DIAGRAM

36K
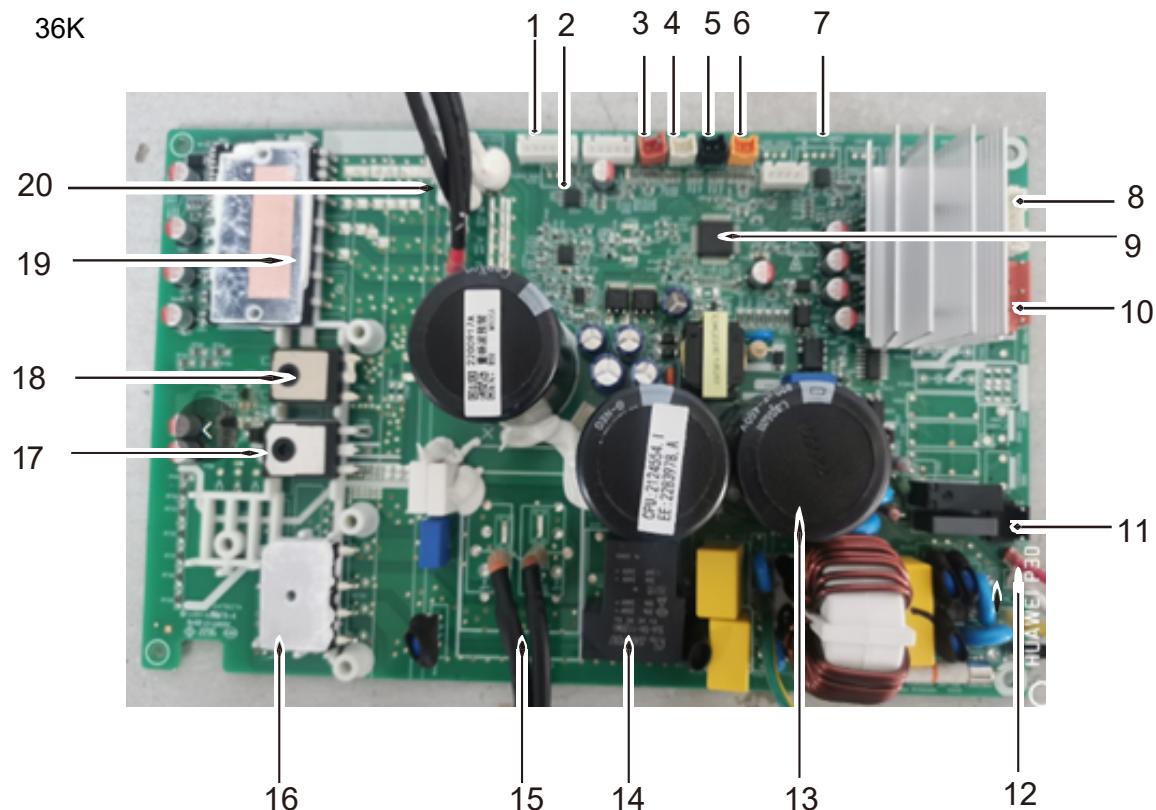
NO.	Description	NO.	Description
1	EEPROM Flashing	11	4-way value
2	EE	12	L/N Power input
3	Compressor overheat protector	13	Filter Electrolytic Capacitor
4	Discharge Temp Sensor	14	Main realy
5	Coil Temp Sensor	15	Electric Reactor wire
6	Ambient Temp Sensor	16	Bridge Rectifier
7	To DRED board	17	IGBT
8	Electronic Expansion Valve	18	Power Diode
9	MCU	19	IPM Module circuit
10	DC Fan motor	20	Compressor U,V,W wire

18K/24K/36K : DRED board

To main control board

L、N power input+
DRED Wire
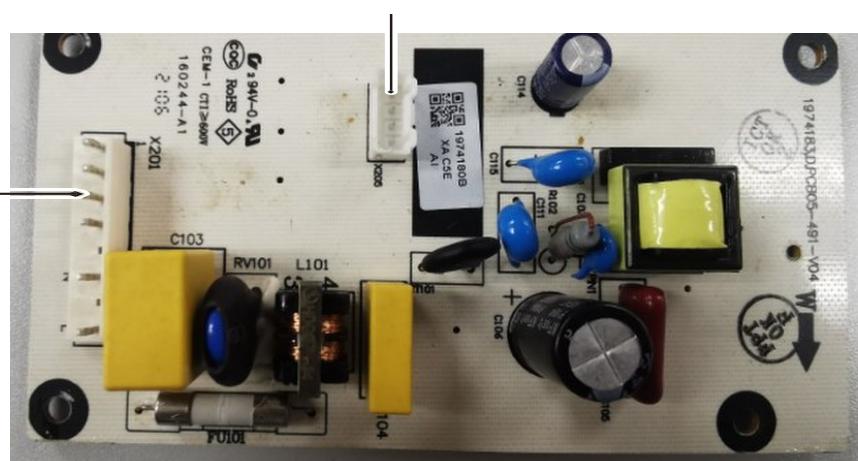
9.WIRING DIAGRAM

Outdoor unit

42K/48K
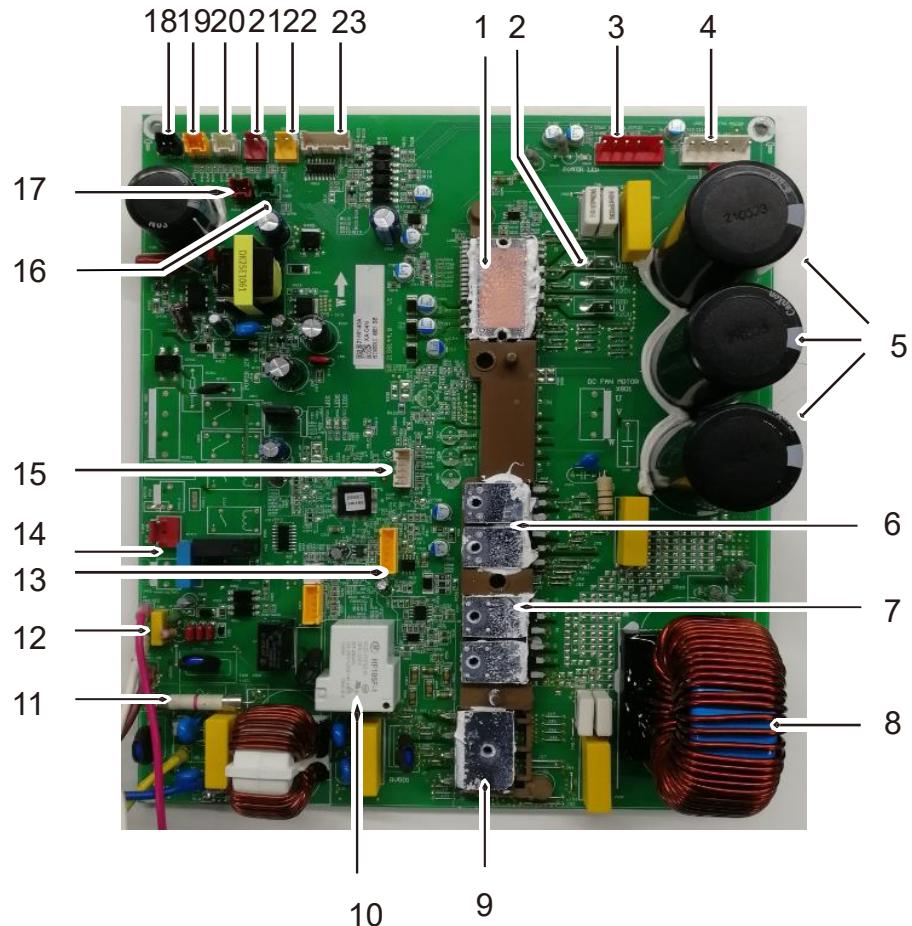
NO.	Description	NO.	Description
1	IPM Module	13	EEPROM Flashing
2	Compressor U,V,W wire terminal	14	Four Way Valve Circuit and Interface
3	Down DC Fan motor	15	Check board interface
4	Upper DC Fan motor	16	Refrigerant Temp Sensor
5	Filter Electrolytic Capacitor	17	Overheat Protector
6	Power Diode	18	Coil Temp Sensor
7	IGBT	19	Ambient Temp Sensor
8	PFC Inductance Coil	20	Discharge Temp Sensor
9	Bridge Rectifier	21	High Pressure Switch
10	Main Relay	22	Low Pressure Switch
11	Fuse	23	Electronic Expansion Valve
12	Communication circuit（to indoor unit）		

9. WIRING DIAGRAM

9.3 Common wiring

18K/24K/36K

Outdoor unit Terminal

Indoor unit Terminal

Transmission Cable

1(L)
2(N)
3(SI)
L
N

L
N
SI

Power supply

42K/48K

Outdoor unit Terminal

Indoor unit Terminal

Power connecting cord

1(L)
2(N)
4(SI)
(L)
(N)

1(L)
2(N)
4(SI)
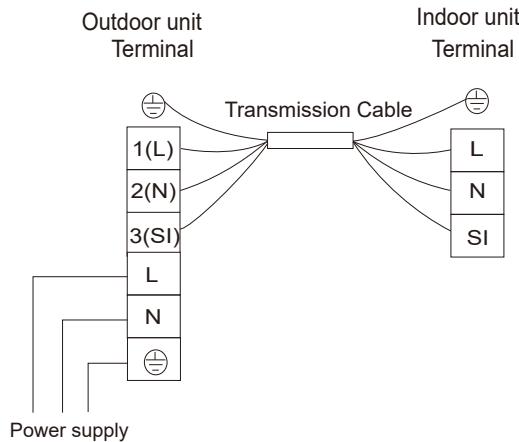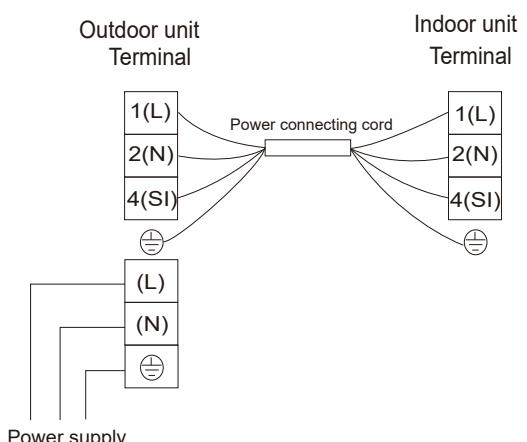
Power supply

NOTE:there is no number in some models

Recommend Wire Size

Model	Power Supply	ELB		Power Source Cable Size	Transmission Cable Size	Circuit Breaker(A)
		Rated Current (A)	Nominal Sensitive Current (mA)			
18K	220-240V~/50Hz	20	30	3×1.5mm^2	4×1.5mm^2	20
24K/36K	220-240V~/50Hz	32	30	3×2.5mm^2	4×1.5mm^2	32
42K/48K	220-240V~/50Hz	40	30	3×4.0mm^2	4×1.5mm^2	40

Max. Running Current(A): REFER TO NAMEPLATE

● Use an ELB (Electric Leakage Breaker).

● Do not operate the system until all the check points have been cleared.

(A) Check to ensure that the insulation resistance is more than 2 Mega Ohm,by measuring the resistance between ground and the terminal of the electrical parts. If not, do not operate the system until the electrical leakage is found and repaired.

(B) Check to ensure that the stop valves of the outdoor unit are fully opened and then start the system.

● Pay attention to the following items while the system is running.

Do not touch any of the parts by hand at the discharge gas side, since the compressor chamber and the pipes at the discharge side are heated higher than 90℃.

9. WIRING DIAGRAM

Note：

(1) Follow local codes and regulations when select field wires, and all the aboveare the minimum wire size.

(2) Use the wires which are not lighter than the ordinary polychloroprene sheathed flexible cord. (Cord designation H07RN-F).

(3) The wire sizes marked with *1 in the above table are selected at the maximum current of the unit according to the National Standard, EN60335-1.

(4) When transmitting cable length is more than 15 meters, a larger wire size should be selected.

(5) Install main switch and ELB for each system separately. Select the high response type ELB that is acted within 0.1second. Recommended capacity to see table above.

(6) In the case that power cables are connected in series, add each unit maximum current and select wires below.

Selection According to EN60335-1

Current i(A)	Wire Size (mm^2)
i≤6	0.75
6＜i≤10	1
10＜i≤16	1.5
16＜i≤25	2.5
25＜i≤32	4
32＜i≤40	6
40＜i≤63	10
63＜i	*

*In the case that current exceeds 63A, do not connect cables in series.

10. Field setting

10.1 DIP setting

DIP Switch Setting of Outdoor Unit（42K/48K）

TURN ON all power sources before setting.

Mark of "▪" indicates the position of DIP switches.

S4 Dip switch setting		S5 Dip switch setting	
Factory setting	ON OFF 1 2 3 4	Factory setting	ON OFF 1 2 3 4
Pump Down Switch	ON OFF 1 2 3 4	Silence mode	ON OFF 1 2 3 4
Forced defrosting	ON OFF 1 2 3 4	Cooling Only	ON OFF 1 2 3 4
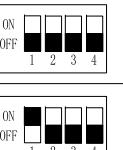
1. Force defrosting mode

By default setting is OFF.

OFF --   Automatic defrosting mode

ON   ---- Manual defrosting mode

Operation is valid when the dial is switched from OFF to ON state.

OPERATION:

When the outdoor unit runs in heating mode, and the dial is switched from OFF to ON, then it will run the manual defrosting mode once.

2. Silence mode

By default setting is OFF.

OFF ----Normal mode.

ON---- Silence mode

Operation is valid when the dial is ON.

Silence mode:

Under the silence mode, the outdoor unit fan will run in medium fan speed at most. Under the silence mode state, if there is high pressure protection, discharge temp. protection or cooling overload protection, then it will not enter silence mode within 30 minutes.

10.FIELD SETTING

3. Pump down mode (Refrigerant cycle recover)

By default setting is OFF.

OFF ----Normal mode.

ON----Refrigerant recovery mode

Operation is valid when dial is switched from OFF to ON state.

OPERATION: When the outdoor unit runs in cooling mode, the dial is switched from OFF to ON, then it will start the refrigerant recovery mode at once.

Refrigerant recovery mode:

During refrigerant recovery mode, system low pressure protection will not occur, and compressor will stop after 3 minutes, and will turn to normal state when power is on again.

4. Forced cooling mo

By default setting is OFF.

OFF ----Normal cooling mode.

ON---- Forced cooling mode

Operation is valid when dial is switched from OFF to ON state before power on.

Forced cooling mode

The outdoor unit will run cooling mode no matter temperature satisfies ON condition or not.

Forced cooling mode will run 10 minutes at most, and will cancel automatically after 10 minutes.

10.FIELD SETTING

10.2 Indoor unit parameter revision

Internal control parameter adjustment can be performed using wired controller HCWA21NEHH.

1) Connecting wired controller with the indoor unit

Step 1: Remove the lower cover of the wired controller

Insert the slotted screwdriver in the slots, and rotate gently to remove the upper cover.
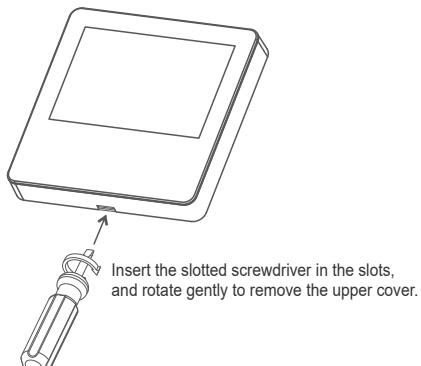
NOTE:

Control board of the remote controller is placed on upper cover. Please protect it from being scratched during removal and installation!

Step 2: Connect the wired controller with the indoor unit

Indoor unit control board   **Marked with: wired**   **Wired remote controller**
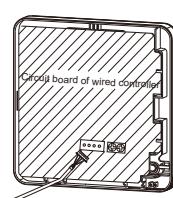
Connection cord of wired controller(to indoor unit)

2) Changing system parameter

Function Code

Root Address

Sub-address

MODE   FAN   ⌃   FUNCT

TIMER   LOU   ⌄   ⏻
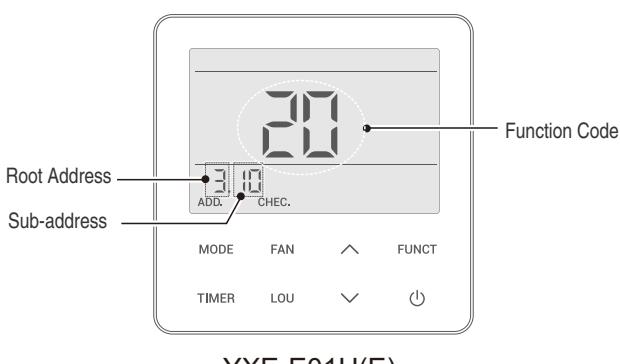
YXE-E01U(E)

Static pressure setting:

1 Press both " FUNCT " button and " MODE " button for 3 seconds, to enter the parameter self-setting state. Then, icon "ADD." and "CHEC." will be always on.

2 Press "MODE /TIMER" button to set root address as "3" .

3 Press the " FAN "/" LOU " button to increase or decrease the sub-address, and select the desired sub-address value 10.

4 Press the " ⌃ "/" ⌄ " button to select desired parameters, and press "FUNCT" button to confirm.

5 Press ⏻ button to quit.

If you still have any trouble, please contact local technical service center of our company for further information.

10.FIELD SETTING

PARAMETER CODE	PARAMETER DESCRIPTION	PARAMETER VALUE&REPRESENTATION		NOTE
		DATA TYPE	REPRESENTATION (FUNCTION CODE)	
1	Self Recovery of Power Break	Integer	0：Cancel Self Recovery of Power Break function； 1：Self Recovery of Power Break； others：invalid	
2	Temperature Type	Integer	0：Centigrade Temperature； 1：Fahrenheit Temperature； others：invalid	
3	Temperature Display Type	Integer	0：Default display set temperature； 1：Default display room temperature； others：invalid	
4	Ratio of ambient temperature sensed by indoor temperature sensor(cooling mode)	Integer	0~10valid，more than 10 default is10 0：0%；1：10%；…；10：100%	0-entirely use. temperature.sensed by wired.remote controller;.10-entirely use.temperature. sensed by indoor.unit
5	Filter Clean Indication	Integer	0：Cancel Filter Clean prompt function； 1：Set Filter Clean prompt function； others：invalid	
6	Filter Clean Time Set	Integer	0~32，more than 32 default is 32*1000h	
7	Installation Height Compensation	Integer	0~10m，more than 10m default is 10. =0,1,2 :no fan speed compensation; =3: increase fan speed; =4~10: increase more fan speed.	
8	Cooling Temperature Compensation（indoor unit temperature sensor）	Integer	0 : 0℃ ; 1 : -0.5℃ ; 2 : -1℃ ; 3 : -1.5℃ ; 4 : -2℃ ; 5 : -2.5℃ ; 6 : -3℃ ; 7 : -3.5℃ ; 8 : -4℃ ;9 : -4.5℃ ; 10 : -5℃.（the wired controller displays integer with the symbol)	
9	Heating Temperature Compensation（indoor unit temperature sensor）	Integer	0 : 0℃ ; 1 : -0.5℃ ; 2 : -1℃ ; 3 : -1.5℃ ; 4 : -2℃ ; 5 : -2.5℃ ; 6 : -3℃ ; 7 : -3.5℃ ; 8 : -4℃ ;9 : -4.5℃ ; 10 : -5℃.（the wired controller displays integer with the symbol)	
10	Static Pressure Set	Integer	1~240，function code=static pressure more than the limit static pressure default the limit static pressure，Default is 0(default static pressure, related to models)	Duct type (DC motor)
12	Ratio of temperature sensed by indoor temperature sensor((Heating mode)	Integer	0~10valid，more than 10 default is10 0：0%；1：10%；…；10：100%	0-entirely use. temperature sensed by wired remote controller; 10-entirely use temperature sensed by indoor unit
13	Temperature Adjustment-Cooling	Character	-10~10℃（Single Character with symbol）	Temperature displayed on wired controller
14	Temperature Adjustment-Heating	Character	-10~10℃（Single Character with symbol）	Temperature displayed on wired controller
25	Access control, fire protection, ON/OFF function set	Integer	=0，Access control, fire protection functions are all invalid； =1，Access control function is valid； =2，fire protection function is valid； =3，Access control, fire protection are all valid； =4，ON/OFF function is valid.	
29	Linkage function	Integer	0：Default fault alarm function 1：Linkage function	

10.3 Running Parameter Query

Running parameter can be referred to by 7 segment display or specified wired remote controller.

Query by wired controller

Operation:

1. Connect wired controller with indoor unit (same method with Indoor unit parameter revision)
2. Change the system parameter
MODEL: YXE-E01U(E)
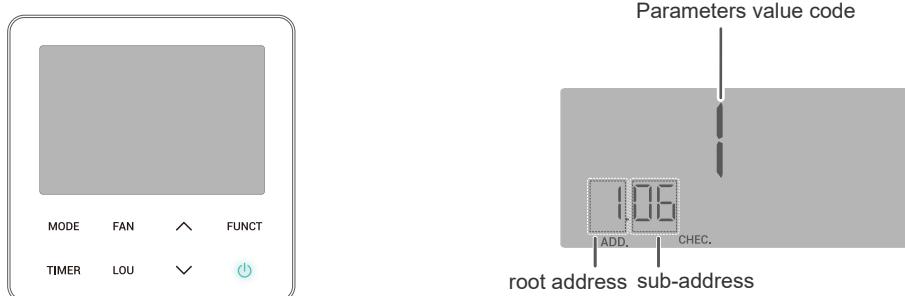
OPERATION:

⑴ Hold down both "MODE" button and "FUNC" button for 3 seconds, then the"CHEC." and "ADD." icon will be always on.

⑵ Press "MODE" / "TIMER" button to increase/decrease the root address as 2.

⑶ Press "FAN" / "LOU" button to increase/decrease the sub-address, and select the desired sub-address value.

(4) Press the " $\wedge$ "/ " $\vee$ " button to set parameters, and press "FUNC"button to confirm.

(5) Press the " ⏻ " button to exit without settings.

The catalogue of custom-setting parameters is shown as follows:

Self-setting parameter code	Implication of code display	Description	Remarks
03	boot	When " boot " flicker, press "FUNC" to restore to factory state and	
06	Temperature display setting	1-Display the set temperature; 2-Display the indoor temperature	The factory setting defaults to O
07	Fahrenheit degree display setting	1-Display in degree centigrade; 2-Display in Fahrenheit degree	The factory setting defaults to O
08	Cooling-only setting	1-Heat pump type air conditioner; 2-Cooling-only air conditioner	The factory setting defaults to O
10	Temperature limits revision setting	0-Not permitted; 1-Permitted	The factory setting defaults to O
11	Environment temperature revision setting	0-Not permitted; 1-Permitted	The factory setting defaults to O

10.4 Instructions for the function setting of access control, fire protection, ON/OFF

10.4.1Factory setting

In case of using or canceling the access control / fire protection function, use the wired controller to modify the parameters of indoor unit.

NOTE: please refer to "Site Setting" section in TC Manual for how to use the wired controller to modify the parameters of indoor unit.

10.4.2 Function introduction

(1) Access control: a kind of control mode to control the machine startup & shutdown based on the on & off state of the access control port.

(2) Fire protection: a kind of control mode to control the machine startup & shutdown based on the on & off state of the fire protection port.

10.4.3. Function setting

(1) Hardware connection

Figure 1 short wiring
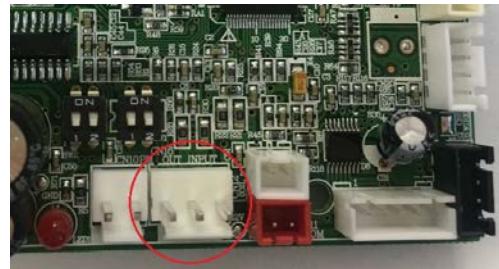
Figure 2 main control board

3 pins of the OUT INPUT （CN16 or according to the wiring diagram）socket shown in the electrical wiring diagram are tacitly approved to be in short circuit state under the factory state (an external short circuit plug shown as Figure 1), and the OUT INPUT CN16 socket of main control board is shown as Figure2 (illustration: the socket number in circuit is subject to the actual serial number of PCB.)

1) When using the door lock function, the user cuts off the red short wire shown in Figure 1 and accesses the door lock control switch (supplied by user), and the connecting wire should be 22AWG or above specification. The door lock switch is closed under normal conditions and off under abnormal conditions.

2) When using the fire protection function, the user cuts off the white short wire shown in Figure 1 and accesses the fire protection control switch (supplied by user), and the connecting wire should be 22AWG or above specification. The protection control switch is closed under normal conditions and off under abnormal conditions.

(2) Timing sequence description:

10.FIELD SETTING

● Access control

    Access control1:

1) Control of entrance card disconnection:

    The air conditioner shall be shut down after the access control signal is disconnected for 30 seconds. In this state, the indoor unit can't be started. If the user performs starting operation, the wired controller shall not respond and displays power-off.

2) Control of entrance card connection: After the short circuit of entrance card interface, release power-on restrictions, the wire controller maintains power-off and the startup & shutdown control is effective.

    Access control2:

1) Control of entrance card disconnection:

    The air conditioner shall be shut down after the access control signal is disconnected for 30 seconds. In this state, the indoor unit can't be started. If the user performs starting operation, the wired controller shall not respond and displays power-off.

2) Control of entrance card connection: After the short circuit of entrance card interface, release power-on restrictions, the air conditioner shall return to its previous state, and the controllers maintains power-off and the startup & shutdown control is effective.

    Access control3:

1) Control of entrance card disconnection:

    The air conditioner shall be shut down after the access control signal is disconnected for 30 seconds if it was on shutdown state before, otherwise, the indoor unit will be set as low fan speed mode, and the temperature shall be set to 22℃ in heating mode or 26℃ in other modes.

2) Control of entrance card connection: after the short circuit of entrance card interface, release power-on restrictions, the air conditioner shall return to its previous state, and the controllers maintains power-off and the startup & shutdown control is effective.

● Fire protection

    1) Access to fire protection: the air conditioner shall be shut down and not blow waste cold or warm air after the access control signal is disconnected for 3 seconds. In this state, the indoor unit can't be started. If the user performs starting operation, the wire controller shall not respond and displays power-off.

    2) Cancellation of fire protection: after the short circuit of fire protection signal, release power-on restrictions, the wire controller maintains power-off and the startup & shutdown control is effective.

(3) Relative priorities of instructions

    Access control and fire prevention functions shall not affect each other.

10.FIELD SETTING

- ON/OFF1
1) In the situation where ON/OFF1 function is enabled, the port is closed and in short circuit, the indoor unit starts; the indoor unit shuts down once the port is disconnected;
2) Other operation information (such as mode, air speed, air door, and so on.) except for startup & shutdown can be set through the wired controller, remote-controller and WIFI module, priority is given to the latest command received.
3) In the mode of ON/OFF1 function, wired controller, remote-controller, WIFI module and access control cannot control the unit startup & shutdown, neither the operation mode, timer or sleeping mode.
4) Relative priorities of instructions:
   ON/OFF1 has the highest priority. The access control function shall be disabled when ON/OFF1 is enabled.
5) The linkage function can be set through the wired controller,

- ON/OFF2
1) In the situation where ON/OFF2 function is enabled, the indoor unit starts with the action of the port is from closed(in short circuit) to disconnected; the indoor unit shuts down with the action of the port is from disconnected to closed;
2) In the mode of ON/OFF2 function, startup & shutdown is the same as other operation(such as mode, air speed, air door, and so on.) can be set through the wired controller, remote-controller and WIFI module, priority is given to the latest command received.

Notes:There will be 12V signal output when machine fault occurs.
Output the external load current cannot exceed 100mA.

Output   Input

Output

Input
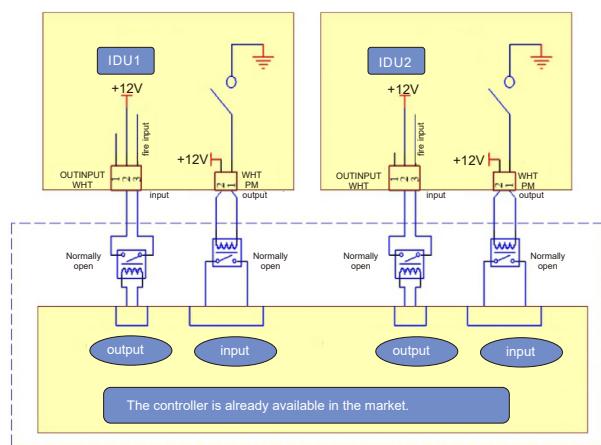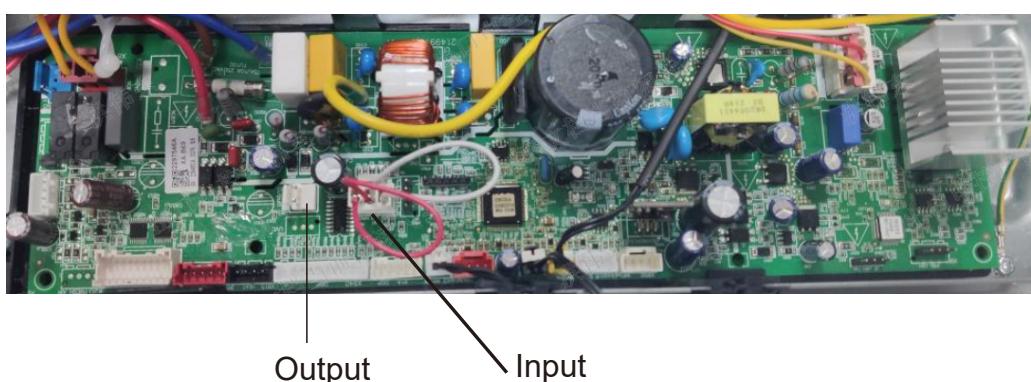
11. Piping work and refrigerant charge

11.1 MAX. length allowed

Model	Max. Pipe length (L)	Max. height difference (H)	Add. Refrigerant [exceed 5m)]
18K	30(m)	20(m)	15(g/m)
24K	30(m)	20(m)	35(g/m)
36K/42K/48K	50(m)	30(m)	35(g/m)
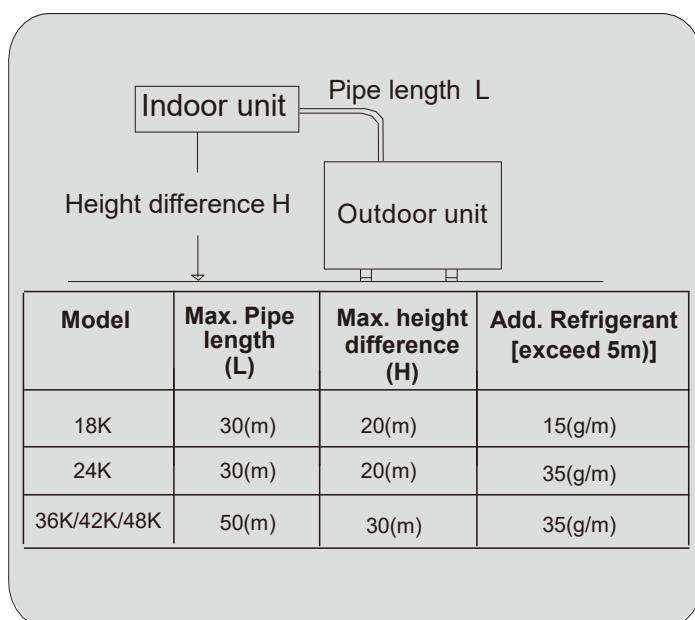
*Do your best to reduce the pipe length. Long pipe may cause capacity of the indoor unit incline.

Refrigerant suitable for a piping length of 5m is charged in the outdoor unit at the factory. When the piping is longer than 5m, additional charging is necessary.

Refrigerant Additional Charge

The unit has been filled with refrigerant, but if exceeds 5m, additional refrigerant (R32) change is required.

For18K : Additional refrigerant charge=(L-5)×15g/m

For24K/36K/42K/48K : Additional refrigerant charge=(L-5)×35g/m

11.2 Oil trap

When the indoor unit is lower than outdoor unit and height is larger than 5m, install an oil trap for every 5m (suction piping).

Slope：1/200~1/250

Oil trap

Slope：1/200~1/250
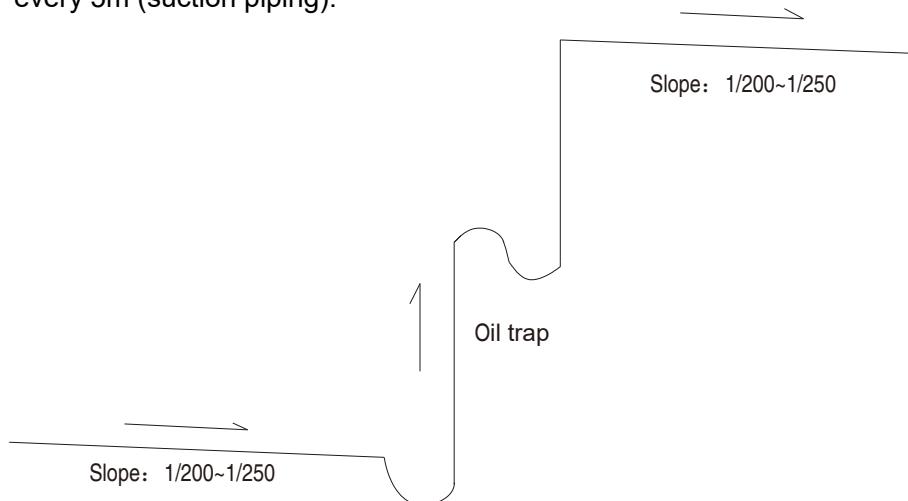
11. PIPING WORK AND REFRIGERANT CHARGE

NOTE:

1. To avoid storing too much oil in the oil trap, the oil bend should be as short as possible.

2. The horizontal piping should be slop down along the refrigerant flow direction, to bring the oil back to compressor, the slop is about 1/200 to1/250.

3. In order to ensure cooling/heating performance better, the refrigerant piping should be as short and straight as possible.

11.3 Air tight test

Do use nitrogen when performing air-tight test.

Connect the gauge manifold using charging hoses with a nitrogen cylinder to the check joints of the liquid line and the gas line stop valves. Perform the air-tight test. Don't open the gas line stop valves. Apply nitrogen gas pressure of 4.3MPa. Check for any gas leakage at the flare nut connections, or brazed parts by gas leak detector or foaming agent. It is OK if gas pressure does not decrease. After the air tight test, release nitrogen gas.
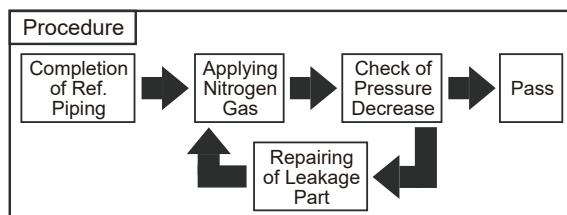
Air tight procedure

11.4 Additional refrigerant charge

Although refrigerant has been charged into this unit, additional refrigerant charge is required according to the piping length.

• The additional refrigerant precharge quantity should be determined and charged into the system according to the following procedure.

• Record the additional refrigerant quantity in order to facilitate maintenance and servicing activities.

Refrigerant charge before shipment (W0 (kg))

W0 is the outdoor unit refrigerant charge before shipment;

Xg is additional refrigerant outdoor unit needed to charge according to piping length during installation.

Model	Refrigerant precharged before shipment(W0(g))	Total refrigerant pipe length	
		0m～5m	5m～MAX. Pipe length allowed
18K	1H€€	0g	Xg = 15g / m×(Total pipe length(m) -5
24K	1630	0g	Xg = 35g / m×(Total pipe length(m) -5
36K	2050		
42K/48K	3700		

12. Installation tools and installation flow chart

12.1 Necessary tools and instrument list for installation

No.	Tool	No.	Tool	No.	Tool	No.	Tool
1	Handsaw	6	Copper Pipe Bender	11	Spanner	16	Leveler
2	Phillips Screwdriver	7	Manual Water Pump	12	Charging Cylinder	17	Clamper for Solder-less Terminals
3	Vacuum Pump	8	Pipe Cutter	13	Gauge Manifold	18	Hoist (for Indoor Unit)
4	Refrigerant Gas Hose	9	Brazing Kit	14	Cutter for Wires	19	Ammeter
5	Megohmmeter	10	Hexagon Wrench	15	Gas Leak Detector	20	Voltage Meter

Use specified tools and measuring instruments only for the new refrigerant.

◇ : Interchangeability is available with R410A   ● : Only for Refrigerant R32
✕ : Prohibited   ✦ : Only for Refrigerant R22

Measuring Instrument and Tool for R410A		R32	R22	Reason of Non-Interchangeability and Attention (*: Strictly Required)	Use
Refrigerant Pipe	Pipe Cutter Chamfering Reamer	◇	◇	-	Cutting Pipe Removing Burrs
	Flaring Tool	◇	◇	* The flaring tools for R32 are applicable to R22/R410A. * If using flaring tube, make dimension of tube larger for R410A. * In case of material 1/2H, flaring is not available.	Flaring for Tubes
	Pipe Bender	◇	◇	* In case of material 1/2H, bending is not available. Use elbow for bend and braze.	Bending
	Expanding Tool	◇	◇	* In case of material 1/2H, expanding of tube is not available. Use socket for connecting tube.	Expanding Tubes
	Torque Wrench	◇	✕	* For φ1/2, φ5/8, spanner size is up 2mm.	Connection of Flare Nut
		◇	◇	* For φ1/4, φ3/8, φ3/4, spanner size is the same.	
	Brazing Tool	◇	◇	* Perform correct brazing work.	Brazing for Tubes
	Nitrogen Gas	◇	◇	* Strict Control against Contamin (Blow nitrogen during brazing.)	Prevention from Oxidation during
	Lubrication Oil (for Flare Surface)	●	✦	* Use a synthetic oil which is equivalent to the oil used in the refrigeration cycle. * Synthetic oil absorbs moisture quickly.	Prevention from Oxidation during Brazing
Vacuum Drying & Refrigerant Charge	Refrigerant Cylinder	✕	✕	* Check refrigerant cylinder color. * Liquid refrigerant charging is required regarding zeotoropic refrigerant. * Use the weight scale.	Refrigerant Charging
	Vacuum Pump	◇	◇	* The current ones are applicable. However, it is required to mount a vacuum pump adapter which can prevent from reverse flow when a vacuum pump stops, resulting in no reverse oil flow.	Vacuum Pumping
	Adapter for Vacuum Pump	◇	✦		
	Manifold Valve	◇	✦	* No interchangeability is available due to higher pressures when compared with R22. * Do not use current ones to the different refrigerant. If used, mineral oil will flow into the cycle and cause sludges, resulting in clogging or compressor failure.	Vacuum Pumping, Vacuum Holding, Refrigerant Charging and Check of Pressures
	Charging Hose	◇	✕	* Connection diameter is different; R32/R410A: UNF1/2, R22: UNF7/16.	
	Weight Scale	◇	◇		Measuring Instrument for Refrigerant Charging
	Refrigerant Gas Leakage Detector	✕	✕	* The current gas leakage detector (R22) is not applicable due to different detecting method.	Gas Leakage Check

12. INSTALLATION TOOLS AND INSTALLATION FLOW CHART

12.2 Installation flow chart

```
┌─────────────────────────────┐
│        Drawing audit        │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│ Preparation before installation │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│ Confirm installation location of indoor │
│     unit and outdoor unit   │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│    Indoor unit installation │
└─────────────────────────────┘
```

Refrigerant piping installation	Duct installation	Drain piping installation	Electrical wiring

```
┌─────────────────────────────┐
│       Heat insultation      │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│   Outdoor unit installation │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────────────┐
│ Vacuum pumping and leakage detection │
└─────────────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│ Additional refrigerant charge │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│           Test run          │
└─────────────────────────────┘
```
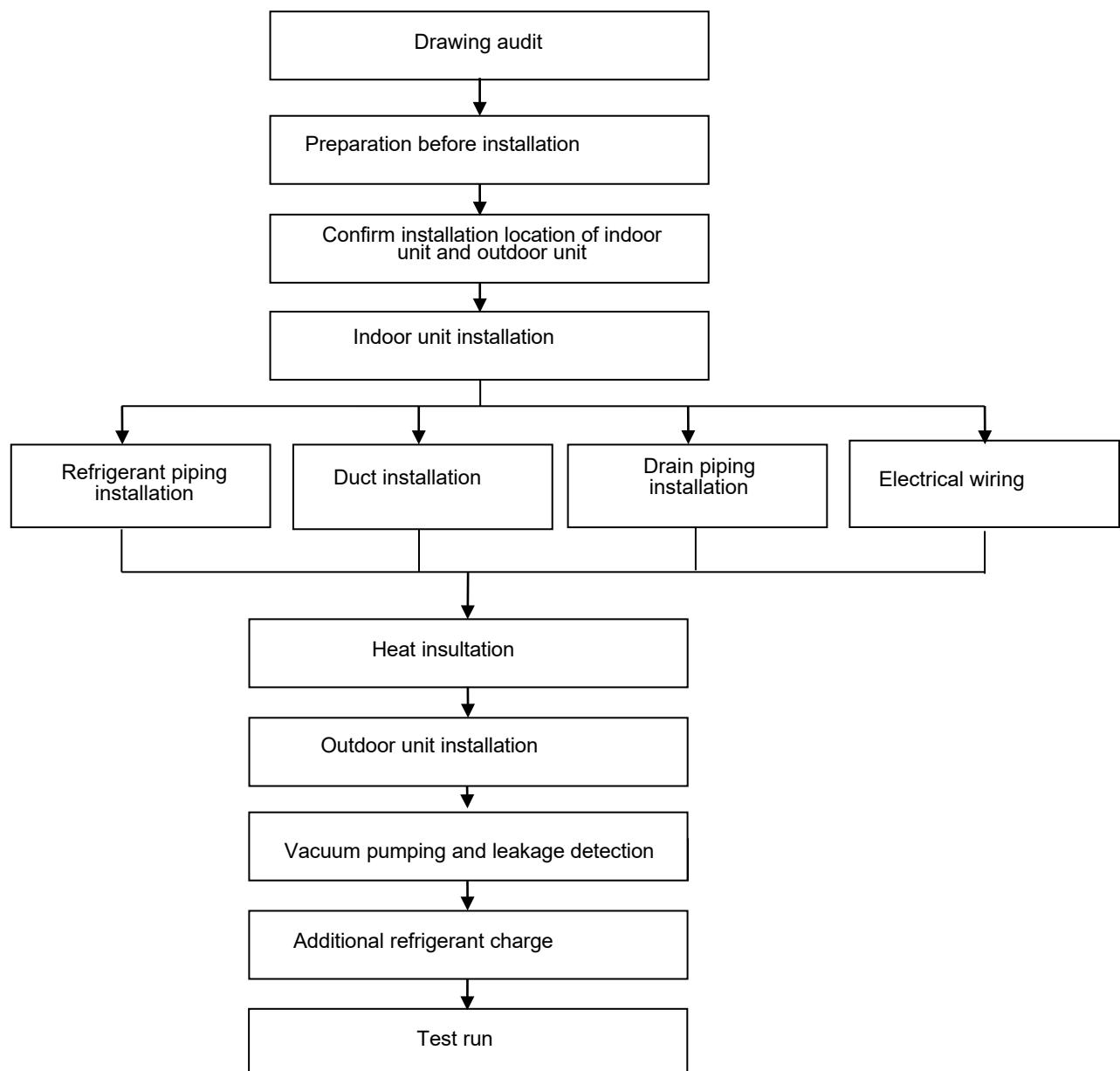
Note: this flow is only for reference; detailed see installation manual section.

13. **Control mode**

13.1 Indoor unit mode control

1.   Main general technical parameters

 (1) Remote receiver distance: 8 m.

 (2) Remote receiver angle: Less than 80 degrees.

 (3) Temperature control accuracy: ±1℃.

 (4) Time error: Less than 1%.

2.   Functions of the control function

2.1 Operator-machine communication

   Air conditioning and remote controller is provided with a temperature sensor. The remote controller on the temperature sensor to detect the default settings of room temperature at room temperature. If the indoor control unit for long time have not received remote control signal, will automatically switch to the air conditioner body temperature sensor.

2.2   Timer function

 (1) Timer on

   When set to start in a time by the remote controller, the air conditioner starts in the timer on condition. When the set time is up, the air conditioner will turn on and operates in the preset conditions after receiving a signal from the remote controller. If the air conditioner has not received a signal from the remote controller when the set time is up, it will automatically start and operate in the preset conditions.

 (2) Timer off

   When set to stop in a set time by the remote controller, the air conditioner will start in the timer off condition. When the set time is up, the air conditioner will turn off after receiving a signal from the remote controller. If the air conditioner has not received a signal from the remote controller when the set time is up, it will turn off automatically.

 (3) Neither the turning on nor turning off operation will cancel the timer function.

 2.3   Sleep

 (1) In the cooling or dehumidifying mode, press the "Sleep" button on the remote controller to start or cancel the sleep function in turn, and at the same time the sleep icon on the display screen will be on or off accordingly.

 (2) In the cooling mode, the set temperature will rise automatically after the sleep function is started.

 (3) In default, the setting is to cancel the sleep function. Turning off the unit will also cancel the sleep function.

13. CONTROL MODE

2.4   Highly efficient run function (only for some remote controller)

In Cooling, Dehumidification, Fan mode, press the "HIGH POWER " to enter the refrigeration mode, set the temperature automatically adjust to lowest temp; the Fan speed is powerful speed; frequency of high frequency operation.

2.5   Mute function (only for some remote controller)

In the indoor unit operation mode, you may turn on or turn off mute function with mute key. The air conditioner will run with mute fan speed in mute mode.

2.6   Blow waste cooling function

Cool and dehumidification mode, after the compressor stops, indoor unit will continue to set the speed of operation for a period of time.

2.7   Automatically model

This model does not automatically model function, emergency button cannot set the automatic mode of operation, can use the emergency switch shutdown, remote setting the automatic mode of indoor machine with remote signal. （emergency button only for cassette type）

2.8   Dehumidifying method:

If remote control setting is in dehumidifying mode, indoor unit is forced to run at low speed (high power key or a strong bond also maintains a low wind speed), and the outdoor unit runs according to the refrigeration mode operation.

2.9   Auto re-start from of Power Break

When the power supply is recovered after a break, all presets are still effective and the air-conditioner can run according to the previous setting.

How to set/cancel:

It can be set /cancel with wired remote controller.

For details, see internal control parameter adjustment.

2.10   Fault code

The fault code can be shown by digital tube on the indoor panel or wired controller.

2.11   Filter clean

Filer clean led will light up when air filter is clogged with dust.

How to reset:

Press high power button for 5s.

13. CONTROL MODE

13.2 Outdoor unit mode control

Control function

1. Cooling Anti-Freeze Protection

The indoor coil sensor functions as real time temperature detector of evaporator. It prevents the indoor unit evaporator temperature becoming too low. If the indoor coil temperature is too low, the compressor will provide automatic protection.

2. Overload Protection

To prevent system overload caused by excessive pressure, the machine will implement real-time detection when outdoor coil temperature is too high during cooling mode.

3. Exhaust temperature protection

To prevent deterioration due to high exhaust temperature of compressor, the machine will realize the real-time detection of the exhaust gas temperature. If the temperature is too high, then the compressor will provide automatic protection.

4. Oil-return Control

When the compressor runs at low frequencies for a long time, control system will start the oil-return mechanism. The oil in the system returns to the compressor.

5. Operation Mode

Air conditioning mode is the operation mode set by users through remote controller, four modes are available: cooling, heating, dehumidification, and fan mode.

6. Start-up Protection

To prevent compressor from restarting frequently when the system pressure has not been completely balanced, it cannot be restarted within 3 minutes.

7. Pressure Protection

When the pressure increases to a preset value, the pressure switch will automatically protect. Compressor will stop and report the fault code protection.

14. Sensor parameter

1. THE PARAMETER OF OUTDOOR COMPRESSOR DISCHARGE TEMPERATURE SENSOR:
    (R_0=187.25K±6.3%；R_{100}=3.77K±2.5K；B0/100=3979K±1%）
    DR: Deviation Rate
    DR(MIN)%=（Rmin-Rnom）/Rnom*100%
    DR(MAX)%=（Rmax-Rnom）/Rnom*100%

T [℃]	Rmin [KΩ]	Rnom [KΩ]	Rmax [KΩ]	DR(MIN)%	DR(MAX)%
-30	908.2603	985.5274	1065.1210	-7.84	7.47
-29	855.3955	927.6043	1001.9150	-7.78	7.42
-28	805.9244	873.4324	924.8368	-7.73	5.56
-27	759.6097	822.7471	887.5944	-7.67	7.31
-26	716.2320	775.3041	835.9165	-7.62	7.25
-25	675.5881	730.8775	787.5529	-7.56	7.20
-24	637.4902	689.2583	742.2720	-7.51	7.14
-23	601.7645	650.2533	699.8601	-7.46	7.09
-22	568.2499	613.6835	660.1191	-7.40	7.03
-21	536.7970	579.3832	622.8658	-7.35	6.98
-20	507.2676	547.1989	587.9307	-7.30	6.93
-19	497.5332	516.9882	555.1565	-3.76	6.88
-18	453.4748	488.6192	524.3977	-7.19	6.82
-17	428.9819	461.9693	495.5191	-7.14	6.77
-16	405.9517	436.9251	486.3954	-7.09	10.17
-15	384.2888	413.3808	442.9105	-7.04	6.67
-14	363.9047	391.2386	418.9563	-6.99	6.62
-13	344.7169	370.4072	396.4325	-6.94	6.56
-12	326.6497	350.8019	375.2461	-6.88	6.51
-11	309.6286	332.3441	355.3104	-6.83	6.46
-10	293.5903	314.9620	336.5448	-6.79	6.41
-9	278.4719	298.5822	318.3744	-6.74	6.22
-8	264.2156	283.1464	302.2294	-6.69	6.31
-7	250.7678	268.5936	286.5448	-6.64	6.26
-6	238.0783	254.8686	271.7603	-6.59	6.22
-5	226.1003	241.9200	257.8193	-6.54	6.17
-4	214.7903	229.6997	244.6593	-6.49	6.11
-3	204.1073	218.1630	232.2612	-6.44	6.07
-2	194.0135	207.2681	220.5495	-6.39	6.02
-1	184.4732	196.9759	209.4913	-6.35	5.97
0	175.4533	187.2500	199.0468	-6.30	5.93
1	166.8952	178.0255	189.1529	-6.25	5.88
2	158.8023	169.3067	179.8058	-6.20	5.84
3	151.1467	161.0633	170.9724	-6.16	5.80
4	143.9026	153.2667	162.6216	-6.11	5.75
5	137.0455	145.8905	154.7246	-6.06	5.71
6	130.5528	138.9097	147.2544	-6.02	5.67
7	124.4033	132.3011	140.1856	-5.97	5.62
8	118.5769	126.0429	133.4946	-5.92	5.58
9	113.0550	120.1146	127.1591	-5.88	5.54
10	107.8202	114.4973	121.1586	-5.83	5.50
11	102.8560	109.1728	115.4734	-5.79	5.46
12	98.1470	104.1246	110.0855	-5.74	5.41
13	93.6787	99.3367	104.9778	-5.70	5.37
14	89.4378	94.7946	100.1342	-5.65	5.33
15	85.4114	90.4842	95.5398	-5.61	5.29
16	81.5875	86.3926	91.1805	-5.56	5.25
17	77.9551	82.5076	87.0430	-5.52	5.21
18	74.5034	78.8177	83.1150	-5.47	5.17

14. SENSOR PARAMETER

T [℃]	Rmin [KΩ]	Rnom [KΩ]	Rmax [KΩ]	DR(MIN)%	DR(MAX)%
19	71.2227	75.3122	79.3848	-5.43	5.13
20	68.1036	71.9808	75.8414	-5.39	5.09
21	65.1373	68.8141	72.4746	-5.34	5.05
22	62.3155	65.8032	69.2746	-5.30	5.01
23	59.6306	62.9395	66.2324	-5.26	4.97
24	57.0752	60.2152	63.3395	-5.21	4.93
25	54.6424	57.6227	60.5877	-5.17	4.89
26	52.3258	55.1551	57.9695	-5.13	4.85
27	50.1192	52.8058	55.4778	-5.09	4.82
28	48.0168	50.5684	53.1058	-5.05	4.78
29	46.0133	48.4371	50.8472	-5.00	4.74
30	44.1034	46.4046	48.6960	-4.96	4.71
31	42.2825	44.4711	46.6466	-4.92	4.66
32	40.5458	42.6261	44.6937	-4.88	4.63
33	38.8891	40.8668	42.8323	-4.84	4.59
34	37.3084	39.1890	41.0576	-4.80	4.55
35	35.7998	37.5883	39.3653	-4.76	4.51
36	34.3596	36.0609	37.7511	-4.72	4.48
37	32.9844	34.6030	36.2109	-4.68	4.44
38	31.6710	33.2113	34.7412	-4.64	4.40
39	30.4164	31.8823	33.3383	-4.60	4.37
40	29.2176	30.6130	31.9988	-4.56	4.33
41	28.0718	29.4004	30.7197	-4.52	4.29
42	26.9765	28.2417	29.4979	-4.48	4.26
43	25.9293	27.1342	28.3306	-4.44	4.22
44	24.9277	26.0755	27.2150	-4.40	4.19
45	23.9697	25.0632	26.1488	-4.36	4.15
46	23.0530	24.0950	25.1293	-4.32	4.12
47	22.1757	23.1688	24.1545	-4.29	4.08
48	21.3360	22.2826	23.2221	-4.25	4.05
49	20.5321	21.4345	22.3301	-4.21	4.01
50	19.7623	20.6226	21.4766	-4.17	3.98
51	19.0261	19.8468	20.6612	-4.14	3.94
52	18.3211	19.1040	19.8808	-4.10	3.91
53	17.6458	18.3926	19.1338	-4.06	3.87
54	16.9986	17.7113	18.4185	-4.02	3.84
55	16.3784	17.0537	17.7335	-3.96	3.83
56	15.7839	16.4332	17.0774	-3.95	3.77
57	15.2139	15.8338	16.4488	-3.92	3.74
58	14.6673	15.2592	15.8464	-3.88	3.71
59	14.1430	14.7083	15.2690	-3.84	3.67
60	13.6400	14.1799	14.7154	-3.81	3.64
61	13.1573	13.6730	14.1846	-3.77	3.61
62	12.6941	13.1868	13.6756	-3.74	3.57
63	12.2494	12.7202	13.1872	-3.70	3.54
64	11.8224	12.2723	12.7186	-3.67	3.51
65	11.4124	11.8424	12.2690	-3.63	3.48
66	11.0185	11.4295	11.8373	-3.60	3.45
67	10.6401	11.0331	11.4230	-3.56	3.41
68	10.2765	10.6522	11.0251	-3.53	3.38
69	9.9271	10.2863	10.6429	-3.49	3.35
70	9.5912	9.9348	10.2756	-3.46	3.32
71	9.2682	9.5968	9.9231	-3.42	3.29
72	8.9576	9.2720	9.5841	-3.39	3.26
73	8.6589	8.9597	9.2583	-3.36	3.23
74	8.3716	8.6594	8.9451	-3.32	3.19

14. SENSOR PARAMETER

T [℃]	Rmin [KΩ]	Rnom [KΩ]	Rmax [KΩ]	DR(MIN)%	DR(MAX)%
75	8.0951	8.3705	8.6440	-3.29	3.16
76	7.8290	8.0926	8.3544	-3.26	3.13
77	7.5730	7.8252	8.0758	-3.22	3.10
78	7.3264	7.5679	7.8078	-3.19	3.07
79	7.0891	7.3202	7.5499	-3.16	3.04
80	6.8605	7.0818	7.3018	-3.12	3.01
81	6.6403	6.8522	7.0629	-3.09	2.98
82	6.4282	6.6311	6.8329	-3.06	2.95
83	6.2239	6.4182	6.6115	-3.03	2.92
84	6.0269	6.2131	6.3982	-3.00	2.89
85	5.8371	6.0154	6.1928	-2.96	2.86
86	5.6542	5.8249	5.9949	-2.93	2.84
87	5.4777	5.6413	5.8042	-2.90	2.81
88	5.3076	5.4644	5.6205	-2.87	2.78
89	5.1435	5.2937	5.4433	-2.84	2.75
90	4.9853	5.1292	5.2726	-2.81	2.72
91	4.8326	4.9705	5.1079	-2.77	2.69
92	4.6852	4.8174	4.9492	-2.74	2.66
93	4.5430	4.6697	4.7960	-2.71	2.63
94	4.4058	4.5272	4.6483	-2.68	2.61
95	4.2733	4.3896	4.5058	-2.65	2.58
96	4.1453	4.2568	4.3683	-2.62	2.55
97	4.0218	4.1287	4.2355	-2.59	2.52
98	3.9024	4.0049	4.1074	-2.56	2.50
99	3.7872	3.8854	3.9837	-2.53	2.47
100	3.6758	3.7700	3.8643	-2.50	2.44
101	3.5661	3.6585	3.7512	-2.53	2.47
102	3.4601	3.5509	3.6419	-2.56	2.50
103	3.3577	3.4468	3.5362	-2.59	2.53
104	3.2588	3.3463	3.4341	-2.61	2.56
105	3.1632	3.2491	3.3353	-2.64	2.58
106	3.0708	3.1551	3.2398	-2.67	2.61
107	2.9816	3.0643	3.1475	-2.70	2.64
108	2.8953	2.9765	3.0582	-2.73	2.67
109	2.8118	2.8915	2.9717	-2.76	2.70
110	2.7311	2.8093	2.8881	-2.78	2.73
111	2.6531	2.7299	2.8072	-2.81	2.75
112	2.5776	2.6530	2.7289	-2.84	2.78
113	2.5046	2.5785	2.6531	-2.87	2.81
114	2.4340	2.5065	2.5798	-2.89	2.84
115	2.3656	2.4368	2.5087	-2.92	2.87
116	2.2995	2.3693	2.4400	-2.95	2.90
117	2.2354	2.3040	2.3733	-2.98	2.92
118	2.1734	2.2407	2.3088	-3.00	2.95
119	2.1134	2.1795	2.2463	-3.03	2.97
120	2.0553	2.1201	2.1858	-3.06	3.01
121	1.9991	2.0626	2.1271	-3.08	3.03
122	1.9446	2.0070	2.0702	-3.11	3.05
123	1.8918	1.9530	2.0151	-3.13	3.08
124	1.8406	1.9007	1.9617	-3.16	3.11
125	1.7911	1.8500	1.9099	-3.18	3.14
126	1.7430	1.8009	1.8597	-3.22	3.16
127	1.6965	1.7533	1.8110	-3.24	3.19
128	1.6514	1.7071	1.7638	-3.26	3.21
129	1.6076	1.6623	1.7180	-3.29	3.24
130	1.5652	1.6189	1.6736	-3.32	3.27

14. SENSOR PARAMETER

2. THE PARAMETER OF THE OTHER SENSOR IN INDOOR AND OUTDOOR UNIT：

（R_0=15K±2%；B0/100=3450K±2%）

T [℃]	Rmin [KΩ]	Rnom [KΩ]	Rmax [KΩ]	DR(MIN)%	DR(MAX)%
-30	60.78	64.77	68.99	-6.16	6.12
-29	57.75	61.36	65.16	-5.88	5.83
-28	54.89	58.15	61.58	-5.61	5.57
-27	52.19	55.14	58.23	-5.35	5.31
-26	49.63	52.30	55.08	-5.11	5.05
-25	47.21	49.62	52.13	-4.86	4.81
-24	44.92	47.10	49.37	-4.63	4.60
-23	42.76	44.73	46.78	-4.40	4.38
-22	40.71	42.49	44.34	-4.19	4.17
-21	38.77	40.38	42.05	-3.99	3.97
-20	36.93	38.39	39.90	-3.80	3.78
-19	35.18	36.51	37.87	-3.64	3.59
-18	33.53	34.74	35.97	-3.48	3.42
-17	31.96	33.06	34.17	-3.33	3.25
-16	30.48	31.47	32.49	-3.15	3.14
-15	29.07	29.97	30.89	-3.00	2.98
-14	27.73	28.56	29.39	-2.91	2.82
-13	26.46	27.22	27.98	-2.79	2.72
-12	25.26	25.95	26.64	-2.66	2.59
-11	24.11	24.75	25.38	-2.59	2.48
-10	23.03	23.61	24.19	-2.46	2.40
-9	21.99	22.53	23.06	-2.40	2.30
-8	21.01	21.51	22.00	-2.32	2.23
-7	20.08	20.54	20.99	-2.24	2.14
-6	19.19	19.62	20.04	-2.19	2.10
-5	18.35	18.74	19.14	-2.08	2.09
-4	17.55	17.92	18.29	-2.06	2.02
-3	16.78	17.13	17.48	-2.04	2.00
-2	16.06	16.38	16.71	-1.95	1.97
-1	15.36	15.67	15.98	-1.98	1.94
0	14.70	15.00	15.29	-2.00	1.90
1	14.08	14.36	14.64	-1.95	1.91
2	13.48	13.75	14.02	-1.96	1.93
3	12.91	13.17	13.43	-1.97	1.94
4	12.36	12.62	12.87	-2.06	1.94
5	11.85	12.09	12.34	-1.99	2.03
6	11.35	11.59	11.83	-2.07	2.03
7	10.88	11.11	11.35	-2.07	2.11
8	10.43	10.66	10.89	-2.16	2.11
9	9.999	10.230	10.450	-2.26	2.11
10	9.590	9.816	10.040	-2.30	2.23
11	9.199	9.422	9.647	-2.37	2.33
12	8.826	9.047	9.269	-2.44	2.40
13	8.470	8.689	8.910	-2.52	2.48
14	8.129	8.347	8.567	-2.61	2.57
15	7.804	8.021	8.240	-2.71	2.66
16	7.493	7.709	7.928	-2.80	2.76
17	7.196	7.412	7.630	-2.91	2.86
18	6.912	7.127	7.346	-3.02	2.98
19	6.640	6.855	7.074	-3.14	3.10
20	6.381	6.595	6.815	-3.24	3.23
21	6.132	6.347	6.567	-3.39	3.35
22	5.894	6.109	6.330	-3.52	3.49

14. SENSOR PARAMETER

T [℃]	Rmin [KΩ]	Rnom [KΩ]	Rmax [KΩ]	DR(MIN)%	DR(MAX)%
23	5.667	5.882	6.103	-3.66	3.62
24	5.449	5.664	5.886	-3.80	3.77
25	5.240	5.456	5.678	-3.96	3.91
26	5.048	5.260	5.478	-4.03	3.98
27	4.864	5.072	5.286	-4.10	4.05
28	4.687	4.891	5.101	-4.17	4.12
29	4.517	4.717	4.924	-4.24	4.20
30	4.355	4.550	4.753	-4.29	4.27
31	4.198	4.390	4.589	-4.37	4.34
32	4.048	4.236	4.431	-4.44	4.40
33	3.904	4.089	4.280	-4.52	4.46
34	3.766	3.946	4.134	-4.56	4.55
35	3.663	3.810	3.994	-3.86	4.61
36	3.506	3.679	3.859	-4.70	4.66
37	3.383	3.552	3.729	-4.76	4.75
38	3.265	3.431	3.604	-4.84	4.80
39	3.152	3.314	3.484	-4.89	4.88
40	3.043	3.202	3.368	-4.97	4.93
41	2.938	3.094	3.257	-5.04	5.00
42	2.838	2.990	3.149	-5.08	5.05
43	2.741	2.890	3.046	-5.16	5.12
44	2.648	2.793	2.946	-5.19	5.19
45	2.558	2.701	2.850	-5.29	5.23
46	2.472	2.611	2.758	-5.32	5.33
47	2.389	2.525	2.669	-5.39	5.40
48	2.309	2.443	2.583	-5.49	5.42
49	2.232	2.363	2.500	-5.54	5.48
50	2.158	2.286	2.421	-5.60	5.58
51	2.087	2.212	2.344	-5.65	5.63
52	2.018	2.140	2.269	-5.70	5.69
53	1.952	2.072	2.198	-5.79	5.73
54	1.888	2.005	2.129	-5.84	5.82
55	1.827	1.941	2.062	-5.87	5.87
56	1.767	1.880	1.998	-6.01	5.91
57	1.710	1.820	1.936	-6.04	5.99
58	1.655	1.763	1.876	-6.13	6.02
59	1.602	1.707	1.818	-6.15	6.11
60	1.551	1.654	1.762	-6.23	6.13
61	1.502	1.602	1.709	-6.24	6.26
62	1.452	1.553	1.657	-6.50	6.28
63	1.409	1.505	1.606	-6.38	6.29
64	1.364	1.458	1.558	-6.45	6.42
65	1.322	1.413	1.511	-6.44	6.49
66	1.280	1.370	1.466	-6.57	6.55
67	1.241	1.328	1.422	-6.55	6.61
68	1.202	1.288	1.379	-6.68	6.60
69	1.165	1.249	1.339	-6.73	6.72
70	1.129	1.211	1.299	-6.77	6.77
71	1.095	1.175	1.261	-6.81	6.82
72	1.061	1.140	1.224	-6.93	6.86
73	1.029	1.106	1.188	-6.96	6.90
74	0.9977	1.073	1.153	-7.02	6.94
75	0.9676	1.041	1.120	-7.05	7.05
76	0.9385	1.011	1.088	-7.17	7.08
77	0.9104	0.9810	1.056	-7.20	7.10
78	0.8833	0.9523	1.026	-7.25	7.18

14. SENSOR PARAMETER

T [℃]	Rmin [KΩ]	Rnom [KΩ]	Rmax [KΩ]	DR(MIN)%	DR(MAX)%
79	0.8570	0.9246	0.9971	-7.31	7.27
80	0.8316	0.8977	0.9687	-7.36	7.33
81	0.8071	0.8717	0.9412	-7.41	7.38
82	0.7834	0.8466	0.9146	-7.47	7.43
83	0.7604	0.8223	0.8888	-7.53	7.48
84	0.7382	0.7987	0.8639	-7.57	7.55
85	0.7167	0.7759	0.8397	-7.63	7.60
86	0.6958	0.7537	0.8161	-7.68	7.65
87	0.6755	0.7322	0.7933	-7.74	7.70
88	0.6560	0.7114	0.7712	-7.79	7.75
89	0.6371	0.6913	0.7498	-7.84	7.80
90	0.6188	0.6718	0.7291	-7.89	7.86
91	0.6011	0.6530	0.7051	-7.95	7.39
92	0.5840	0.6348	0.6897	-8.00	7.96
93	0.5674	0.6171	0.6709	-8.05	8.02
94	0.5514	0.6000	0.6527	-8.10	8.07
95	0.5359	0.5835	0.6350	-8.16	8.11
96	0.5209	0.5675	0.6179	-8.21	8.16
97	0.5064	0.5519	0.6014	-8.24	8.23
98	0.4923	0.5369	0.5853	-8.31	8.27
99	0.4787	0.5224	0.5698	-8.37	8.32
100	0.4655	0.5083	0.5547	-8.42	8.36
101	0.4528	0.4946	0.5401	-8.45	8.42
102	0.4404	0.4814	0.5259	-8.52	8.46
103	0.4284	0.4685	0.5121	-8.56	8.51
104	0.4168	0.4561	0.4988	-8.62	8.56
105	0.4056	0.4440	0.4859	-8.65	8.62
106	0.3947	0.4323	0.4733	-8.70	8.66
107	0.3841	0.4210	0.4611	-8.76	8.70
108	0.3739	0.4100	0.4493	-8.80	8.75
109	0.3640	0.3993	0.4379	-8.84	8.81
110	0.3544	0.3890	0.4267	-8.89	8.84
111	0.3450	0.3789	0.4159	-8.95	8.90
112	0.3360	0.3692	0.4055	-8.99	8.95
113	0.3272	0.3597	0.3953	-9.04	9.01
114	0.3187	0.3505	0.3854	-9.07	9.06
115	0.3104	0.3416	0.3758	-9.13	9.10
116	0.3024	0.3330	0.3665	-9.19	9.14
117	0.2947	0.3246	0.3574	-9.21	9.18
118	0.2871	0.3164	0.3468	-9.26	8.77
119	0.2798	0.3085	0.3401	-9.30	9.29
120	0.2727	0.3008	0.33	-9.34	9.34

14. SENSOR PARAMETER

B25/50=3950K±3%   R25=15KΩ±3%

Temp	Resistance（KΩ）		
（℃）	Rmax	R(t)Normal	Rmin
-30	250.952	230.189	209.426
-29	236.568	217.234	197.900
-28	223.091	205.085	187.078
-27	210.459	193.686	176.913
-26	198.614	182.987	167.360
-25	187.503	172.942	158.380
-24	177.077	163.506	149.935
-23	167.288	154.639	141.989
-22	158.095	146.303	134.511
-21	149.458	138.464	127.470
-20	141.341	131.090	120.839
-19	134.087	124.486	114.885
-18	127.219	118.227	109.235
-17	120.715	112.294	103.873
-16	114.556	106.671	98.786
-15	108.724	101.342	93.960
-14	103.202	96.291	89.380
-13	97.972	91.503	85.034
-12	93.020	86.965	80.910
-11	88.330	82.663	76.996
-10	83.889	78.585	73.281
-9	79.683	74.720	69.757
-8	75.698	71.055	66.412
-7	71.925	67.581	63.237
-6	68.349	64.286	60.223
-5	64.962	61.162	57.362
-4	61.754	58.200	54.646
-3	58.713	55.390	52.067
-2	55.833	52.726	49.619
-1	53.102	50.198	47.294
0	50.514	47.800	45.086
1	48.061	45.525	42.989
2	45.735	43.366	40.997
3	43.530	41.317	39.104
4	41.440	39.373	37.306
5	39.457	37.527	35.597
6	37.576	35.775	33.974
7	35.792	34.111	32.430
8	34.100	32.532	30.964
9	32.494	31.031	29.568
10	30.970	29.606	28.242
11	29.523	28.252	26.981
12	28.150	26.966	25.782
13	26.846	25.743	24.640
14	25.608	24.581	23.554

14. SENSOR PARAMETER

Temp	Resistance（KΩ）		
（℃）	Rmax	R(t)Normal	Rmin
15	24.433	23.477	22.521
16	23.315	22.426	21.537
17	22.254	21.428	20.602
18	21.246	20.478	19.710
19	20.288	19.575	18.862
20	19.377	18.715	18.053
21	18.511	17.897	17.283
22	17.688	17.119	16.550
23	16.903	16.377	15.851
24	16.159	15.672	15.185
25	15.450	15.000	14.550
26	14.802	14.360	13.918
27	14.183	13.750	13.317
28	13.595	13.170	12.745
29	13.033	12.616	12.199
30	12.496	12.088	11.680
31	11.985	11.585	11.185
32	11.498	11.106	10.714
33	11.032	10.648	10.264
34	10.588	10.212	9.836
35	10.163	9.795	9.427
36	9.758	9.398	9.038
37	9.371	9.019	8.667
38	9.001	8.656	8.311
39	8.648	8.311	7.974
40	8.310	7.980	7.650
41	7.988	7.665	7.342
42	7.678	7.363	7.048
43	7.383	7.075	6.767
44	7.102	6.800	6.498
45	6.832	6.537	6.242
46	6.573	6.285	5.997
47	6.326	6.044	5.762
48	6.089	5.814	5.539
49	5.862	5.593	5.324
50	5.645	5.382	5.119
51	5.437	5.180	4.923
52	5.238	4.987	4.736
53	5.047	4.801	4.555
54	4.864	4.624	4.384
55	4.689	4.454	4.219
56	4.520	4.291	4.062
57	4.359	4.135	3.911
58	4.204	3.985	3.766
59	4.055	3.841	3.627
60	3.913	3.704	3.495
61	3.775	3.571	3.367
62	3.645	3.445	3.245

14. SENSOR PARAMETER

Temp	Resistance（KΩ）		
（℃）	Rmax	R(t)Normal	Rmin
63	3.518	3.323	3.128
64	3.397	3.206	3.015
65	3.280	3.094	2.908
66	3.168	2.986	2.804
67	3.061	2.883	2.705
68	2.957	2.783	2.609
69	2.858	2.688	2.518
70	2.762	2.596	2.430
71	2.670	2.508	2.346
72	2.582	2.423	2.264
73	2.496	2.341	2.186
74	2.414	2.262	2.110
75	2.335	2.187	2.039
76	2.259	2.114	1.969
77	2.186	2.044	1.902
78	2.115	1.977	1.839
79	2.047	1.912	1.777
80	1.981	1.849	1.717
81	1.918	1.789	1.660
82	1.857	1.731	1.605
83	1.799	1.675	1.551
84	1.742	1.621	1.500
85	1.687	1.569	1.451
86	1.635	1.519	1.404
87	1.585	1.472	1.359
88	1.536	1.426	1.315
89	1.490	1.381	1.273
90	1.445	1.338	1.232
91	1.401	1.297	1.193
92	1.359	1.257	1.156
93	1.318	1.219	1.119
94	1.279	1.182	1.084
95	1.241	1.146	1.050
96	1.205	1.111	1.018
97	1.169	1.078	0.986
98	1.135	1.046	0.956
99	1.102	1.015	0.927
100	1.070	0.984	0.898
101	1.040	0.955	0.871
102	1.010	0.927	0.845
103	0.981	0.900	0.819
104	0.953	0.874	0.795
105	0.926	0.849	0.771

15. Troubleshooting

15.1 Trouble guide

Troubleshooting for normal malfunction

Troubleshooting	Possible Reasons of Abnormality	How to Deal With
Air conditioner can not start up	1. Power supply failure; 2. Trip of breaker or blow of fuse; 3. Power voltage is too low; 4. Improper setting of remote controller; 5. Remote controller is short of power.	1. Check power supply circuit; 2. Measure insulation resistance to ground to see if there is any leakage; 3. Check if there is a defective contact or leak current in the power supply circuit; 4. Check and set remote controller again; 5. Change batteries.
The compressor starts or stops frequently	The airinlet and outlet have been blocked.	Remove obstacles.
Poor cooling/heating	1. The outdoor heat exchanger is dirty, such as condenser; 2. There are heating devices indoors; 3. The airtightness is not enough, and people come in and out too frequently; 4. Block of outdoor heate xchanger; 5. Improper setting of temperature.	1. Clean the heat exchanger of the outdoor unit, such as condenser; 2. Remove heating devices; 3. Keep certain air tightness indoors; 4. Remove block obstacles; 5. Check and try to set temperature again.
Sound from deforming parts	During system starting or stopping, a sound might be heard.However, this is due to the normal deformation of plastic parts.	It is not abnormal, and the sound will disappear soon.
Waterleakage	1. Drainage pipe is blocked or broken; 2. Wrap of refrigerant pipe joint is not closed completely.	1. Change drainage pipe; 2. Re-wrap and make it tight.

Troubleshooting according to fault codes

When the air conditioner failure occurs, the fault code will display on control board, wired controller or display panel.

How to check fault codes

Indoor unit

(1) Fault codes indicated by wired controller

MODEL:YXE-C01U1(E)
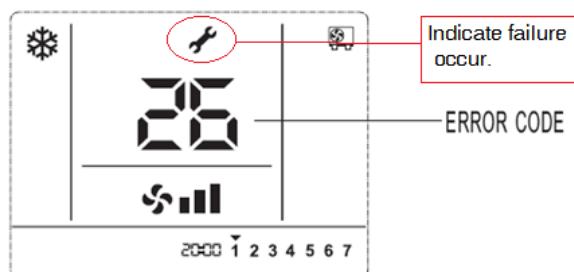
When the airconditioner is malfuction, 🔧 will display on the LCD,and error codes will appear and blink.

Fault code displays on wired controller

15. TROUBLESHOOTING

MODEL: YXE-E01U(E)

Error code
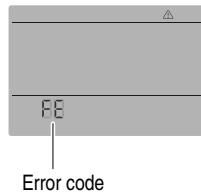
When the air conditioner malfunctions, ⚠ will be displayed on the LCD, indicating that error is occurring, please consult your local dealer or after-sales service.

Fault code displays on wired controller

(2) Fault codes indicated by display panel

Display panel
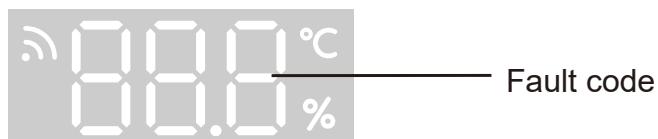
Fault code

15. TROUBLESHOOTING

Outdoor unit

DC-Inverter unitary (Main control board upside-down)

Fault code displayed by LED lamps on outdoor main control board.

There are 3 LED lamps on control board, LED1, LED2 and LED3.

LED1 indicates fault code represented by 2-digit number, LED2 indicates fault code represented by single digit number and LED3 indicates outdoor drive control fault.

When LED3 is off, LED1 and LED 2 indicate main control fault code.

When LED3 is on, LED1 and LED 2 indicate drive control fault code.

When LED3 is flickering and LED1, LED 2 are all off, indicate compressor is preheating.

Failures display with 5s interval. It means LED will be off for 5s to report next fault code.

System protection codes display method is the same with main control fault code.

LED lamps will be off when there is no failure, protection or preheating.

LED1: Ten's place
LED2: Unit's place
LED3: Drive failure indicator
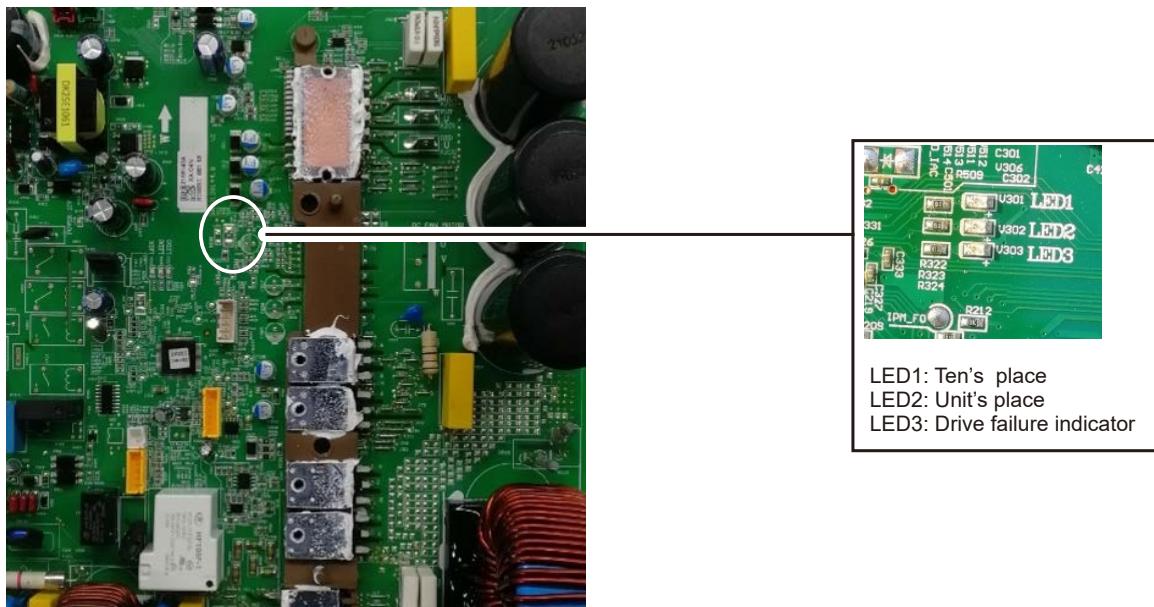
For example, outdoor main control fault 32:
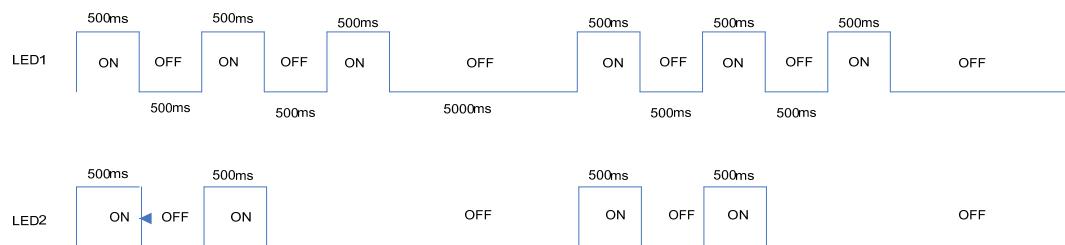
15.TROUBLESHOOTING

15.2 Fault codes

Fault code	Fault description	Possible reasons for abnormality	How to deal with	Remarks
1	Outdoor ambient temperature sensor fault	1.The outdoor ambient temperature sensor is connected loosely; 2.The outdoor ambient temperature sensor fails to work; 3.The sampling circuit fails.	1.Reconnect the outdoor ambient temperature sensor; 2.Replace the outdoor ambient temperature sensor components; 3.Replace the outdoor control board components.	
2	Outdoor coil temperature sensor fault	1.The outdoor coil temperature sensor is connected loosely; 2.The outdoor coil temperature sensor fails to work; 3.The sampling circuit fails.	1.Reconnect the outdoor coil temperature sensor; 2.Replace the outdoor coil temperature sensor components; 3.Replace the outdoor control board components.	
3	The unit over-current turn off fault	1. Control board current sampling circuit fails; 2. The current is over high because the supply voltage is too low; 3. The compressor is blocked; 4. Overload in cooling mode; 5. Overload in heating mode.	1. Replace the electrical control board components; 2. Normal protection; 3. Replace the compressor; 4. Please see NOTE 3; 5. Please see NOTE 4.	
4	EEprom Data error	1.EE components fails; 2.EE components control circuit fails; 3.EE components are inserted incorrectly.	1.Replace the EE components; 2.Replace the outdoor control board components; 3.Reassemble the EE components.	
5	Cooling freezing protection (the indoor coil temperature is too low) or heating overload (indoor coil temperature is too high)	1.The indoor unit can not blow air normally; 2.The room temperature is too low in cooling mode or the room temperature is too high in heating; 3.The filter is dirty; 4.The duct resistance is too high to result in low air flow; 5.The setting fan speed is too low; 6.The indoor unit is not installed in accordance with the installation standards, and the air inlet is too close to the air outlet .	1.Check whether the indoor fan, indoor fan motor and evaporator work normally; 2.Normal protection; 3.Clean the filter; 4.Check the volume control valve, duct length etc.; 5.Set the speed with high speed; 6.Reinstall the indoor unit referring to the user manual to change the distance between the indoor unit and the wall or ceiling.	
7	The communication fault between the indoor unit and outdoor unit	1.The connection cable is connected improperly between the indoor unit and outdoor unit; 2.The communication cable is connected loosely; 3.The communication cable fails; 4.The indoor control board fails; 5.The outdoor control board fails; 6.Communication circuit fuse open; 7.The specification of communication cable is incorrect.	1.Reconnect the connection cable referring to the wiring diagram; 2.Reconnect the communication cable; 3.Replace the communication cable; 4.Replace the indoor control board; 5.Replace the outdoor control board; 6.Check the communication circuit, adjust the DIP switch and the short-circuit fuse. 7.Choose suitable communication cable referring to the user manual	

15.TROUBLESHOOTING

Fault code	Fault description	Possible reasons for abnormality	How to deal with	Remarks
13	Compressor overheat protector device	1. The wiring of the overload protector is connected loosely. 2. The overload protector fails . 3. The refrigerant is not enough; 4. The installation pipe is much longer than the normal one, but extra refrigerant is not added ; 5. The expansion valve fails; 6. The outdoor control board fails.	1. Reconnect the wiring of the overload protector; 2. Replace the overload protector; 3. Check the welding point of the unit to confirm whether it is leakage, and then recharge the refrigerant; 4. Add the refrigerant; 5. Replace expansion valve; 6. Replace the outdoor control board.	
14	The high pressure switch operation or the unit is turned off for high pressure protection	1.The wiring of the high pressure protector is connected loosely; 2.The high pressure protector fails; 3.The outdoor control board is abnormal; 4. Overload in cooling; 5. Overload in heating.	1. Reconnect the wiring of the high pressure protector; 2. Replace the high pressure protector; 3. Replace the outdoor control board; 4. Please refer to NOTE 3; 5. Please refer to NOTE 4.	Applied to models with high pressure switch or pressure sensor
15	The low pressure switch protection or the unit is turned off for low pressure protection	1. The wiring of the low pressure switch is connected loosely; 2. The low pressure switch fails; 3. The refrigerant is not enough; 4. The expansion valve fails in heating mode; 5. The outdoor control board is abnormal.	1. Reconnect the wiring of the low pressure switch; 2. Replace the low pressure switch; 3. Check the welding point to confirm whether the unit leaks, and add some refrigerant; 4. Replace the expansion valve; 5. Replace the outdoor control board.	Applied to models with low pressure switch or pressure sensor
16	Overload protection in cooling mode	System overload	Please refer to NOTE 3.	
17	Discharge temperature sensor fault	1.The wiring of the discharge tempe-rature sensor is connected loosely; 2. The discharge temperature sensor fails; 3.The sampling circuit is abnormal.	1. Reconnect the wiring of the discharge temperature sensor; 2. Replace the discharge temperature sensor; 3. Replace the outdoor control board.	
18	AC voltage is abnormal	1.The AC voltage>275V or <160V; 2.The AC voltage of sampling circuit on the driver board is abnormal.	1. Normal protection, please check the supply power; 2. Replace the driver board.	
19	Suction temperature sensor fault	1.The wiring of the suction tempe-rature sensor is connected loosely; 2.The suction temperature sensor fails; 3.The sampling circuit is abnormal.	1.Reconnect the wiring of the suction temperature sensor; 2.Replace the suction temperature sensor; 3.Replace the outdoor control board.	
45	IPM fault	There are many reasons for this failure. You can check the driver board fault LED to further analyze the fault code of the drive board and to learn about what leads to the fault and how to operate it. Specific information can be seen in table 5, table 6.	See attached "analysis of the driving board fault".	

15.TROUBLESHOOTING

Fault code	Fault description	Possible reasons for abnormality	How to deal with	Remarks
47	Too high discharge temperature fault	1. The refrigerant of the unit is not enough; 2.The refrigerant of the unit is not enough due to that the installation pipe is longer. 3.Throttling service fails; 4.The outdoor ambient temperature is too high.	1.Check the welding point to confirm whether the unit has leakage point, and add some refrigerant; 2.Add some refrigerant referring to the installation user manual; 3.Replace the throttling service (such as capillary, expansion valve); 4.Normally protection.	
48	The outdoor DC fan motor fault (upper fan motor)	1.The connecting wiring of the up DC fan motor is loose; 2.The cord of the upper DC fan motor fails; 3.The upper DC fan motor fails; 4.The drive circuit of the upper DC fan motor fails; 5.The outdoor fan has been blocked.	1.Reconnect the wiring of the up DC fan motor; 2.Replace the upper DC fan motor; 3.Replace the upper DC fan motor; 4.Replace the driver board of the fan motor; 5.Check the outdoor fan and ensure the outdoor fan can run normally.	
49	The outdoor DC fan motor fault (down fan motor)	1.The connecting wiring of the down DC fan motor is loose; 2.The cord of the down DC fan motor fails; 3. The down DC fan motor fails; 4. The drive circuit of the down DC fan motor fails; 5. The outdoor fan has been blocked.	1. Reconnect the wiring of the down DC fan motor; 2. Replace the down DC fan motor; 3. Replace the down DC fan motor; 4. Replace the driver board of the fan motor; 5. Check the outdoor fan and ensure the outdoor fan can run normally.	
58	Coil temperature sensor fault	1.The wiring of the radiator tempe-rature sensor is connected loosely; 2.The Coil temperature sensor fails; 3.The sampling circuit is abnormal.	1.Reconnect the wiring of the coil temperature sensor; 2.Replace the coil temperature sensor; 3.Replace the outdoor control board.	
59	Protection of coil temperature sensor	1. The resistance of temperature sensor is abnormal. 2. The control board circuit is abnormal fails . 3. The refrigerant is not enough.	1. Reconnect the wiring of the overload protector; 2. Replace the overload protector; 3. Check the welding point of the unit to confirm whether it is leakage, and then recharge the refrigerant.	
91	The unit turn off due the IPM board over heating fault	1.The outdoor ambient temp. is too high; 2.The speed of the out fan motor is too low if the fan motor is AC fan motor; 3.The outdoor unit is not installed in accordance with the standard; 4.The supply power is too low.	1. Normal protection; 2. Check the fan capacitor, and replace the fan capacitor if it is failure; 3. Reinstalled the outdoor unit refer to the installation user manual; 4. Normal protection.	
96	Lacking of refrigerant	The refrigerant of the unit is not enough.	Discharge the refrigerant and charge the refrigerant referring to the rating label.	
97	4-way valve commutation failure fault	1.The connecting wiring of the 4-way valve coil is loose; 2.The 4-way valve coil fails; 3.The 4-way valve fails; 4.The driver board of the 4-way valve fails.	1. Reconnect the wiring of the 4-way valve; 2. Replace the 4-way valve coil; 3. Replace the 4-way valve; 4.Replace the driver board of the 4-way valve.	

15.TROUBLESHOOTING

The following is the fault code table of indoor unit.

Table 2 Indoor fault code

Fault code	Fault description	Possible reasons for abnormality	How to deal with	Remarks
37	Humidity sensor failure	1.The cable of the humidity sensor connect loose; 2.The humidity sensor is failure; 3.The indoor control board is failure.	1. Reconnect the cable of the humidity sensor; 2. Replace the humidity sensor; 3.Replace the indoor control board.	
51	Drainage protection	1. The water level of the drain pan exceed safe level; 2. The cable of the water level switch is connected loosely; 3.The water level switch fails; 4.The control board fails.	1.1 Check whether there is something blocking the drain hose or the height of the drain hose is too high; 1.2 Check the water pump and replace the water pump if the water pump fails; 2. Reconnect the cable of the water level switch referring to the wiring diagram; 3. Replace the water level switch; 4. Replace the control board.	
64	Communication between Indoor & Outdoor unit Fault	1. The indoor unit and the outdoor unit are not connected properly; 2. The communication cable is connected loosely; 3. The communication cable between the indoor unit and the outdoor unit is failure or the cable between the indoor control board to terminal fails or the cable between the outdoor control board to the terminal fails; 4. The indoor control board fails; 5. The outdoor control board fails.	1. Reconnect the connection cable referring to the indoor and outdoor wiring diagram; 2. Reconnect the communication cable referring to the indoor and outdoor wiring diagram; 3. Replace the communication cable referring to the indoor and outdoor wiring diagram; 4. Replace the indoor control board; 5. Replace the outdoor control board.	
72	Indoor fan motor fault	1.The cable of the indoor fan motor is connected loosely; 2. The cable of the indoor fan motor fails; 3.The indoor fan motor fails; 4.The indoor control board fails.	1.Reconnect the cable of the fan motor; 2.Replace the cable of the fan motor; 3.Replace the fan motor; 4.Replace the indoor control board; 5.Check the indoor fan and ensure the indoor fan can run normally.	
73	Indoor EEPROM Data 1 fault	1. Indoor EE components fails; 2. The control circuit of the EE components fails; 3. The EE components has been inserted in opposite direction.	1. Replace the EE components; 2. Replace the indoor control board; 3. Reassemble the EE components of the indoor control board.	

15.TROUBLESHOOTING

Fault code	Fault description	Possible reasons for abnormality	How to deal with	Remarks
81	Indoor ambient Temperature Sensor Fault	1. The cable of the room temperature sensor is connected loosely; 2. The room temperature sensor fails; 3. The sampling circuit is abnormal.	1. Reconnect the cable of the room temperature sensor; 2. Replace the room temperature sensor; 3. Replace the indoor control board.	
83	Evaporator Middle Temperature Sensor Fault	1. The cable of the coil temperature sensor of the evaporator fails; 2. The coil temperature sensor of the evaporator fails; 3. The sampling circuit is abnormal.	1. Reconnect the cable of the coil temperature sensor of the evaporator; 2. Replace the coil temperature sensor of the evaporator; 3. Replace the indoor control board.	
FE (254)	Communication between main control board & Wired controller Fault (display on wired controller)	1. The wired controller and the indoor control board are connected loosely. 2. The sequence of the wiring between the wired controller to the indoor control board is wrong; 3. The wiring between the wired controller to the indoor control board fails; 4. The wired controller is fails; 5. The indoor control board is abnormal.	1. Reconnect the wiring between the wired controller to the indoor control board; 2. Replace the wiring between the wired controller to the indoor control board; 3. Replace the wiring between the wired controller to the indoor control board; 4. Replace the wired controller; 5. Replace the indoor control board.	
ER	Communication between main control board & display board Fault (displays on display board)	1. The wiring between the display board to the indoor control board is connected loosely; 2. The sequence of the wiring between the display board to the indoor control board is wrong; 3. The wiring between the display board to the indoor control board fails; 4. The display board fails; 5. The indoor control board fails.	1. Reconnect the wiring between the display board to the indoor control board; 2. Replace the wiring between the display board to the indoor control board; 3. Replace the wiring between the display board to the indoor control board; 4. Replace the display board; 5. Replace the indoor control board.	

15. TROUBLESHOOTING

NOTE 1:

If the indoor unit can not start or the indoor unit stops itself after 30s, at the same time the unit do not display the fault code, please check the fire and the socket of the control board.

NOTE 2:

If the indoor unit displays the 75,76,77,78 fault code after you turn on the unit, please check the TEST seat of the indoor control board or the TEST detection circuit to see whether short circuit occurs.

Table 3: Overload in cooling mode

	Overload in cooling mode	
sr.	The root cause	Corrective measure
1	The refrigerant is excessive.	Discharge the refrigerant, and recharge the refrigerant referring to the rating label.
2	The outdoor ambient temperature is too high.	Please use it within allowable temperature range
3	Short-circuit occurs in the air outlet and air inlet of the outdoor unit.	Adjust the installation of the outdoor unit referring to the user manual.
4	The outdoor heat exchanger is dirty, such as condenser.	Clean the heat exchanger of the outdoor unit, such as condenser.
5	The speed of the outdoor fan motor is too low.	Check the outdoor fan motor and fan capacitor.
6	The outdoor fan is broken or the outdoor fan is blocked.	Check the outdoor fan.
7	The air inlet and outlet have been blocked.	Remove the obstacles.
8	The expansion valve or the capillary fails.	Replace the expansion valve or the capillary.

Table 4: Over load in heating mode

	Overload in heating mode	
sr.	The root cause	Corrective measure
1	The refrigerant is excessive.	Discharge the refrigerant, and recharge the refrigerant referring to the rating label.
2	The indoor ambient temperature is too high.	Please use within allowable temperature range.
3	Short-circuit occurs in the air outlet and air inlet of the indoor unit.	Adjust the installation of the indoor unit referring to the user manual.
4	The indoor filter is dirty.	Clean the indoor filter.
5	The speed of the indoor fan motor is too low.	Check the indoor fan motor and fan capacitor.
6	The indoor fan is broken or the outdoor fan is blocked.	Check the indoor fan.
7	The air inlet and outlet have been blocked.	Remove the obstacles.
8	The expansion valve or the capillary fails.	Replace the expansion valve or the capillary.

15. TROUBLESHOOTING

Table 5 Analysis of the driving board fault

Fault code	Fault description	Possible reasons for abnormality	How to deal with
1	Inverter DC voltage overload fault	1. Power supply input is too high or too low; 2. Driver board fault.	1. Check the power supply; 2. Change the driver board.
2	Inverter DC low voltage fault		
3	Inverter AC current overload fault		
4	Out-of-step detection	1. Compressor phase lost; 2. Bad driver board components; 3. The compressor insulation fault.	1. Check the compressor wire connection; 2. Change the driver board; 3. Change the compressor.
5	Loss phase detection fault (speed pulsation)		
6	Loss phase detection fault (current imbalance)		
7	Inverter IPM fault (edge)	1. System overload or current overload; 2. Driver board fault; 3. Compressor oil shortage, serious wear of crankshaft ; 4. The compressor insulation fault.	1. Check the system; 2. Change the driver board; 3. Change the compressor; 4. Change the compressor.
8	Inverter IPM fault (level)		
9	PFC_IPM IPM fault (edge)		
10	PFC_IPM IPM fault (level)		
11	PFC power detection of failure	1. The power supply is not stable; 2. Instantaneous power failure; 3. Driver board failure.	1. Check the power supply; 2. No need to deal with; 3. Change the driver board.
12	PFC overload current detection of failure.	1. System overloads, and the current is too high; 2. Driver board fails; 3. PFC fails.	1.Check the system; 2.Change the driver board; 3.Change the PFC.
13	DC voltage detected abnormal .	1. Input voltage is too high or too low; 2. Driver board fails.	1. Check the power supply; 2. Change the driver board.
14	PFC LOW voltage detected failure.		
15	AD offset abnormal detected failure.	Driver board fails.	Change the driver board.
16	Inverter PWM logic set fault.		
17	Inverter PWM initialization failure		
18	PFC_PWM logic set fault.		
19	PFC_PWM initialization fault.		
20	Temperature abnormal.		
21	Shunt resistance unbalance adjustment fault		
22	Communication failure.	1. Communication wire connection is not proper; 2. Driver board fails; 3. Control board fails.	1. Check the wiring; 2. Change the driver board; 3. Change the control board.
23	Motor parameters setting of failure	Initialization is abnormal.	Reset the power supply.
25	EE data abnormal	Driver board EEPROM is abnormal.	1. Change EEPROM; 2. Change the driver board.
26	DC voltage mutation error	1. Power input changes suddenly; 2. Driver board fails.	1.Check the power supply, to provide stable power supply; 2.Change the driver board.
27	D axis current control error	1. System overload, phase current is too high; 2. Driver board fails.	1. Check if the system is normal; 2. Check if the stop valve is open; 3. Change the driver board.
28	Q axis current control error	1. System overload, phase current is too high; 2. Driver board fails.	1. Check if the system is normal; 2. Check if the stop valve is open; 3. Change the driver board.
29	Saturation error of D axis current control integral	1. System overloads suddenly; 2. Compressor parameter is not suitable; 3. Driver board fails.	1. Check if the system is normal; 2. Check if the stop valve is open; 3. Change the driver board.
30	Saturation error of Q axis current control integral	1. System overloads suddenly; 2. Compressor parameter is not suitable; 3. Driver board fails.	1. Check if the system is normal; 2. Check if the stop valve is open; 3. Change the driver board.

15. TROUBLESHOOTING

Table 6 Limitation Code

Code	Definitions	Descriptions
101	When overcurrent occurs, stop the frequency from increasing.	Current control
102	When overcurrent occurs, reduce the frequency.	Current control
103	When the temperature of IPM module is too high, stop the frequency from increasing.	Frequency control to keep appropriate temperature of IPM module.
104	When the temperature of IPM module is too high, reduce the frequency.	Frequency control to keep appropriate temperature of IPM module.
105	When the discharge temperature is too high, stop the frequency from increasing.	Frequency control to keep appropriate discharge temperature.
106	When the discharge temperature is too high, reduce the frequency.	Frequency control to keep appropriate discharge temperature.
107	In cooling mode, when the temperature of the outdoor unit coil is too high, stop the frequency from increasing.	Frequency control to keep appropriate temperature of the outdoor unit coil in cooling mode.
108	In cooling mode, when the temperature of the outdoor unit coil is too high, reduce the frequency.	Frequency control to keep appropriate temperature of the outdoor unit coil in cooling mode.
113	To prevent the indoor unit from being frozen or high temperature, stop the frequency from increasing.	Frequency control to keep appropriate temperature of the indoor unit coil.
114	To prevent the indoor unit from being frozen or high temperature, reduce the frequency.	Frequency control to keep appropriate temperature of the indoor unit coil.
119	When DSH exceeds the target value, the valve opening gets wider to adjust the flow.	Control on expansion valve based on DSH.
120	When DSH exceeds the target value, the valve opening gets narrower to adjust the flow.	Control on expansion valve based on DSH.
121	When DSH exceeds the target value, stop the valve opening from getting narrower.	Control on expansion valve based on DSH.
122	When DSH exceeds the target value, stop the valve opening from getting wider.	Control on expansion valve based on DSH.
131	When the temperature of IPM module is too high, stop the frequency from increasing.	Frequency control to keep appropriate temperature of IPM module.
132	When the temperature of IPM module is too high, reduce the frequency.	Frequency control to keep appropriate temperature of IPM module.
134	When the discharge temperature is too high, stop the valve opening getting narrower.	Control on discharge temperature expansion valve.
140	The compressor overloads.	Control on the compressor output.
141	The compressor current overloads.	Control on the output torque of the compressor.

※ DSH: Discharge Super Heat

These codes appearing in the operation process indicate some kind of normal operation state, instead of faults, so they do not need to be dealt with.

16. Checking components

16.1 Check refrigerant system

TEST SYSTEM FLOW

Conditions: ① Compressor is running.
② The air condition should be installed in good ventilation.
Tool: Pressure Gauge
Technique: ① see ② feel ③ test

See ----- Tube defrost.
Feel ----- The difference between tube's temperature.
Test ----- Test pressure.

Pressure gauge

16. CHECKING COMPONENTS

```
┌─────────────────┐
│  Heating mode   │
└────────┬────────┘
         │
         ▼
```

Test system pressure. Is the high pressure normal at service part ?

The pressure on the high side.

The pressure on the low side.

Recharge refrigerant after air purging with the vacuum pump. Is the high pressure normal over again?

NO

Remove the back panel."see"the capillary tube1 and capillary tube2. Is it defrosting?

The system needs refrigerant. The service people must add refrigerant. Does the high pressure rise in heating mode?

yes

Air remains at the refrigerant system.

yes

NO

The capillary tube is blocked.Unsolder the capillary tube ASS'Y. The capillary tube1 and capillary tube2 is blown by N_2.

NO

yes

Recharge refrigerant

If the pressure is close to static pressure?

Check heat exchanger and 4-way valve.

yes

4-way valve collude or compressor exhaust every ebb.

16.2 Check parts unit

1. Indoor unit fan motor

Cassette type

18K/24K	36K/42K/48K
DC Motor model：	DC Motor model：
ZW511B500061	ZW511B500062
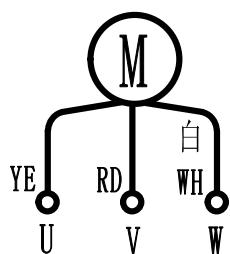
16. CHECKING COMPONENTS

2. Outdoor unit fan motor(DC type)

18K model: ZKFN-40-8-35L
24K model: ZW511A800002
36K model: ZWB278L46A

42K/48K model:
ZWK511A800117 ZWK511A800121
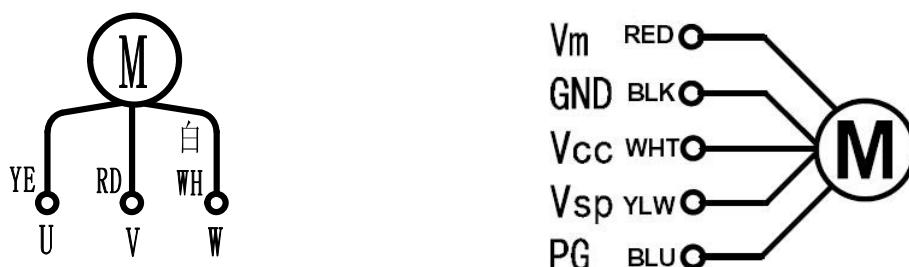
Test in resistance(For AC motor)

TOOL: Multimeter.

Test the resistance of the main winding. The indoor fan motor is fault if the resistance of main winding 0(short circuit)or∞（open circuit）.

Test in voltage(For DC motor)

TOOL: Multimeter.

　　Insert screwdriver to rotate indoor fan motor slowly for 1 revolution or over, and measure voltage "YELLOW" and "GND" on motor. The voltage repeat 0V DC and 5V DC. NOTE: Please don't hold motor by lead wires.

Please don't plug IN/OUT the motor connector while power ON.

Please don't drop hurl or dump motor against hard material. Malfunction may not be observed at early stage after such shock. But it may be found later, this type of mishandling void our warranty.

3. Compressor

Compressor examine and repair

24K: KTM225D43UMT

36K: GTL253UDPC9AUL

42K/48K: HP11600GSKPC8FQC
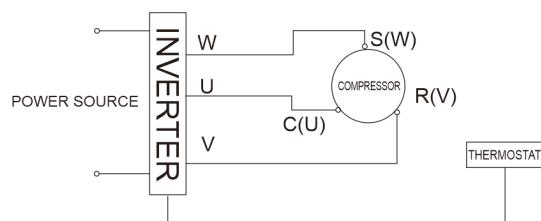
Test in resistance.

TOOL: Multi-meter.

Test the resistance of the winding. The compressor fails if the resistance of winding is 0

(short circuit)or∞(open circuit).

Familiar error:

1) Compressor motor lock.

2) Discharge pressure value approaches static pressure value.

3) Compressor motor winding abnormality.

16. CHECKING COMPONENTS

Notes：

1) Don't put a compressor on its side or turn over.

2) Please assemble the compressor in your air conditioner rapidly after removing the plugs.
   Don't place the comp. in air for a long time.

3) Avoid compressor running in reverse caused by connecting electrical wire incorrectly.

4) Warning! In case AC voltage is impressed to compressor, the compressor performance will
   decrease because of its rotor magnetic force decreasing.

5. Step motor
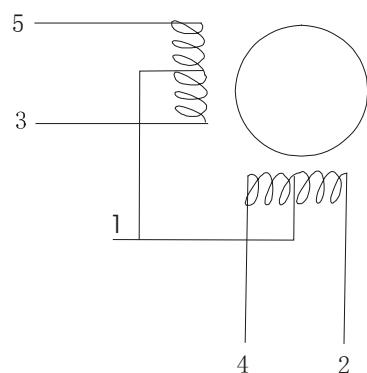
Test in resistance.
TOOL: Multimeter.

Test the resistance of winding. The stepper motor fails if the resistance of winding is
0 (short circuit) or ∞（open circuit）.

6. Fuse

Check for continuity of fuse on PCB ASS'Y.

Remove the PCB ASS'Y from the electrical component box. Then pull out the fuse from the
PCB ASS'Y.Check for continuity by a multimeter as shown below.

17. Disassembly procedure

Outdoor unit

Disassembly and assembly for compressor and motor

The special tools for compressor & motor disassembly and assembly：

	Tool
1	Hexagon Screwdriver
2	Hexagon Socket

18K/24K/36K

Step	Illustration	Handling Instruction
Important: Before disassembly and assembly, make sure that the power to the system has been disconnected and verified as voltage free.		
1. Remove external casing		1. Remove the top cover, handle and valve cover; 2. Remove the outer case and right side plate.
2. Remove motor		1. Remove the blade nut and then remove the blade; 2. Remove the motor from motor supporter
3. Remove compressor		1. Reclaim the refrigerant from the entire system. 2. Unsolder the 4-way valve piping assy from compressor; 3. Remove the compressor mounting bolts; 4. Carefully remove the compressor from chassis.
4. Assemble unit		Assemble the unit in the reverse order of disassembly.
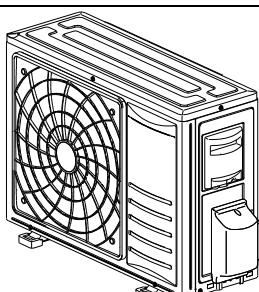
17. DISASSEMBLY PROCEDURE

Disassembly and assembly for compressor, motor and tube type electric heater

42K/48K

Step	Illustration	Handling Instruction
Important: Before disassembly and assembly, make sure that the power to the system has been disconnected and verified as voltage free.		
1. Remove external casing		1. Remove the top cover, handle and valve cover; 2. Remove the outer case and right side plate.
2. Remove motor		1. Remove the blade nut and then remove the blade; 2. Remove the motor from motor supporter.
3. Remove compressor		1. Unsolder the 4-way valve piping assy from compressor; 2. Remove the compressor mounting bolts; 3. Carefully remove the compressor from chassis.
4. Assemble unit		Assemble the unit in the reverse order of disassembly.
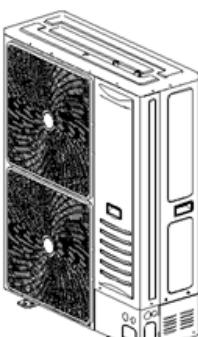
17. DISASSEMBLY PROCEDURE

Disassembly and assembly for motor

Cassette type

Step	Illustration	Handling Instruction
1. Loosen the screws holding the electric box cover and electric box.		Use screwdriver to loosen the electric box.
2. Loosen the screws holding the guard filter and remove the the guard filter.		Use screwdriver to loosen the screws holding the air guiding in place.
3. Loosen the screws holding the air guiding plate and remove the air guiding plate.		Use screwdriver to loosen the screws holding the air guiding in place.
4. Loosen the bolts holding the fan blades in place and remove the fan blade.		Use a wrench or socket to carefully remove the fan blade bolts.
5. Loosen the screws holding the motor in place and remove the motor and replace it.		Use screwdriver to loosen the screws holding the motor.
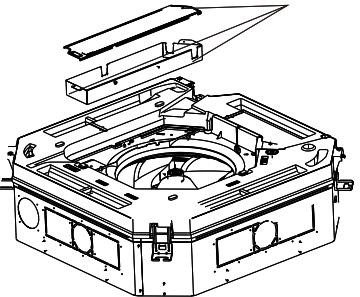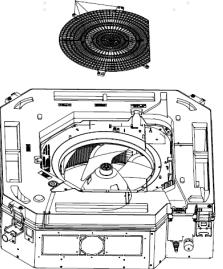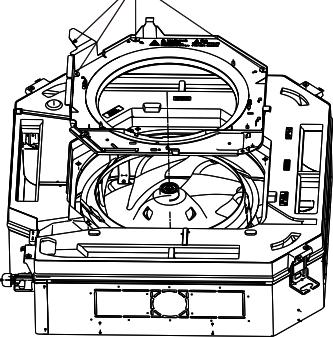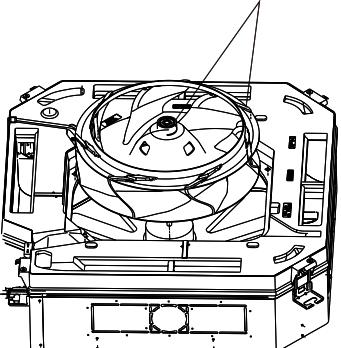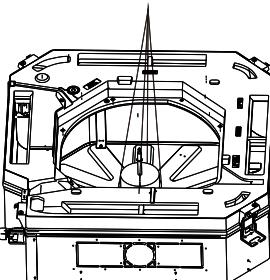
18. Control logic description

18.1 Fan Only Mode

(1) Outdoor fan and compressor stop.
(2) Temperature setting function is disabled, and no setting temperature is displayed.
(3) Indoor fan can be set to high/medium/low, but can not be set to auto.

18.2 Cooling Mode

Indoor fan running rules:
In cooling mode, indoor fan runs all the time and the speed can be selected as high,(medium), low and auto.
The auto fan:
$T1$ is indoor room temperature. Ts is setting temperature.
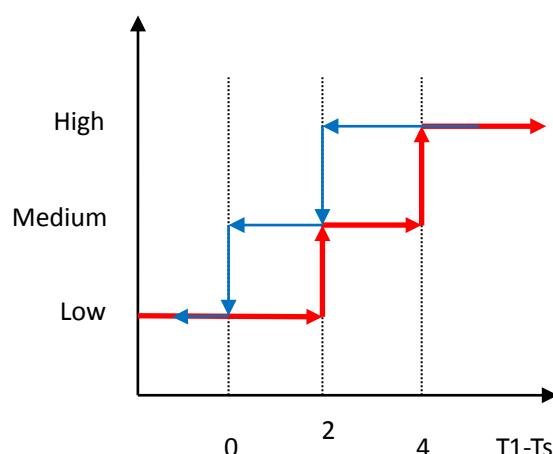
Inverter outdoor unit：
Compressor and outdoor fan running rules:
Once the compressor starts up, it will follow the below rules:
When indoor room temp.$T1$ is lower than Ts, the compressor and outdoor fan will shut off.
When $T1$ is higher than $Ts+1$, the compressor and outdoor fan will start up.
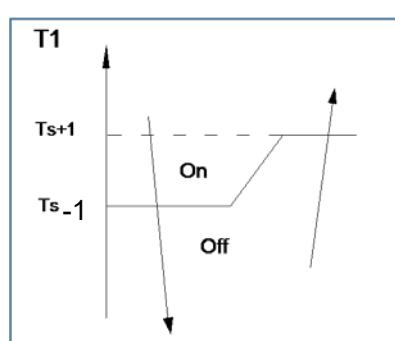
Outdoor fan running rules:
Once the outdoor fan start up, it will follow the below rules:
outdoor fan: First, it will run in an invariable speed for a short time; Then it will regulate the speed by the outdoor-coil temperature.
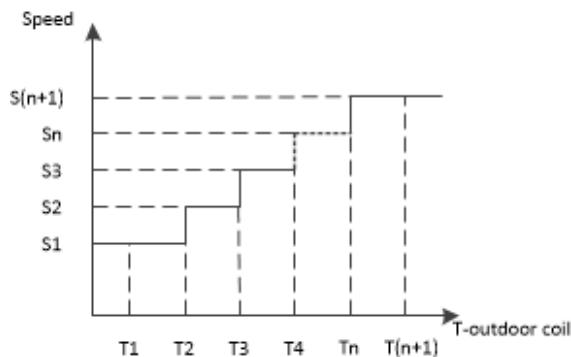
18.3 Heating Mode

Indoor fan running rules:

In several minutes after the heating mode is started, the fan of the indoor unit will not run until the heat exchanger of the indoor unit reaches a high enough temperature. That is because cold air prevention system is operating. After several minutes, the speed can be selected as high, (medium), low and auto.

The auto fan:

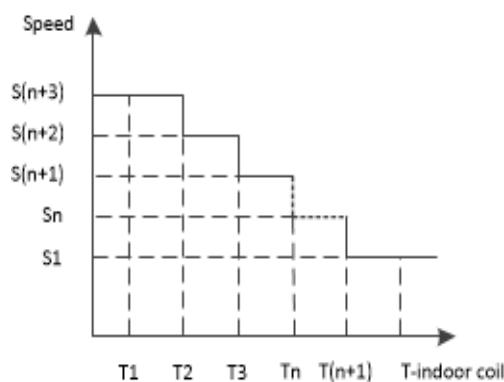$T1$ is indoor room temperature. Ts is setting temperature.
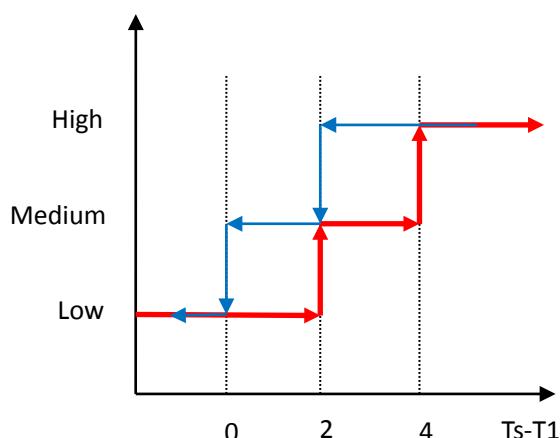
DC-Inverter outdoor unit :
Outdoor fan running rules:
Once the outdoor fan start up, it will follow the below rules:
outdoor fan: First, it will run in an invariable speed for a short time; Then it will regulate the speed by the outdoor-coil temperature.

18.4 Auto Mode

This mode can be chosen with remote controller and the setting temperature can be changed between 61°F~86°F(16°C~30°C).

In auto mode, the unit will choose cooling, heating or fan-only mode according to ΔT (ΔT =T1-Ts).

ΔT=T1-Ts	Running mode
ΔT＞3 7°F(3°C)	Cooling
27°F(-3°C)≤ΔT≤37°F(3°C)	Fan-only
ΔT ＜27°F(-3°C)	Heating

Indoor fan will run at auto fan of the relevant mode. The louver operates same as in relevant mode. If the compressor keeps stopping for 10 minutes or the setting temperature is modified, the machine will choose mode according to ΔT again.

18.5 Evaporator Low-temperature Protection

DC-Inverter
AC will enter T2 protection if any of the following condition is satisfied.
Condition:
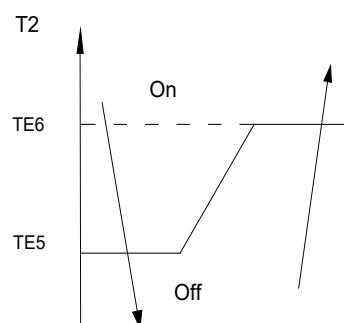
Cooling mode: When the indoor coil temp. T2 keeps lower than TE5 for 120 seconds, the compressor and outdoor fan will shut off. When T2 is higher than TE6, the compressor and outdoor fan will restart up.

18. CONTROL LOGIC DESCRIPTION

18.6 Condenser High-temperature Protection

DC-Inverter outdoor unit

AC will enter T3 protection if any of the following conditions is satisfied.
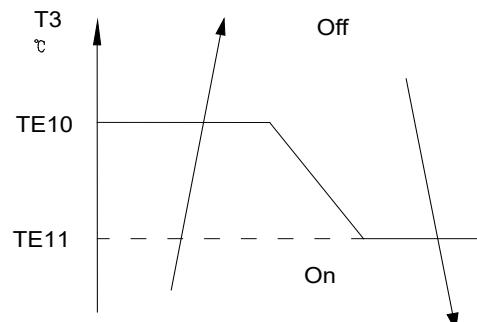
Condition1:

Cooling mode: When the outdoor coil temp. T3 keeps higher than T2 for 10 seconds, the compressor and outdoor fan will shut off. When T3 is lower than T1, the compressor and outdoor fan will restart up.

Condition2:

Heating mode: When the indoor coil temp. T3 keeps higher than T2 for 10 seconds, the compressor and outdoor fan will shut off. When T3 is lower than T1, the compressor and outdoor fan will restart up.

Hisense

Product improvement, specifications and appearance in this manual are subject to change without prior notice.