

PIONEER®

CENTRAL SPLIT AIR CONDITIONER

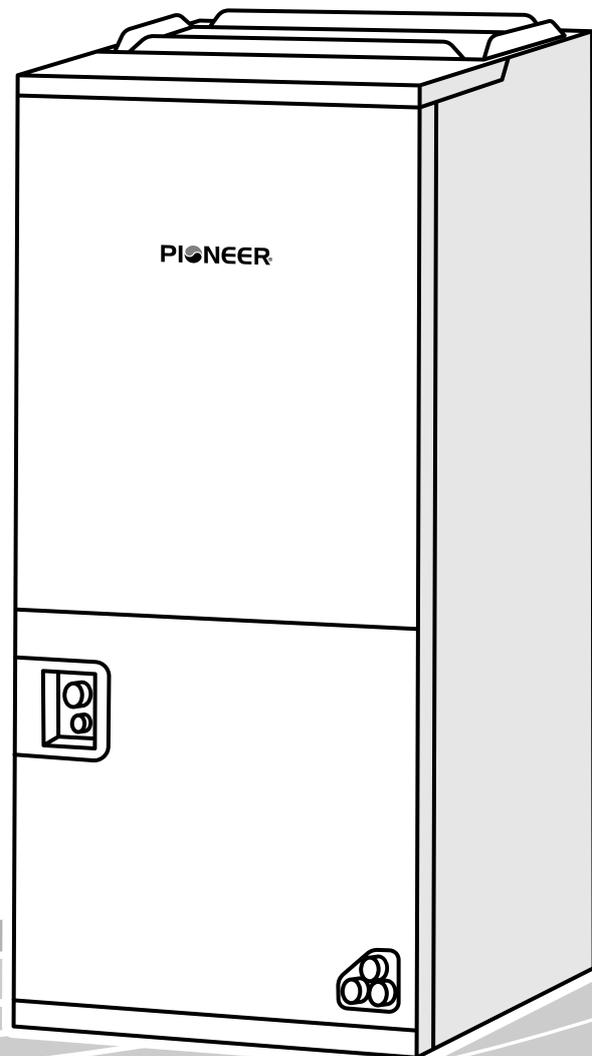
Technical & Service Manual v3.0

HIGH EFFICIENCY AIR HANDLER

Models:

- DR024GHFE18HT2
- DR036GHFE18HT2
- DR060GHFE18HT2

-
- R-410A REFRIGERANT
 - 208~230 V, 1 Phase, 60 Hz
 - 18 SEER



IMPORTANT NOTICE: Thank you very much for purchasing this Air Conditioner. Please read this manual carefully before installing or operating your new air conditioning system. Be sure to save this manual for future reference.

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 another 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 water leakage, electric shock or fire.
- Use refrigerant R410A 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 gas into the refrigerant cycle when performing a leakage test or an air-tight test. These types of gas 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 gas 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 with 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.*

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1. GENERAL

1. General

1.1 Features

- **Being equipped with TXV metering, supporting cooling and heating.**

- **Multi-speed ECM blower motor**

- **Selecting electric heater kits within available models.**

- **Up to 0.8W.C ESP.**

- **Being in accordance with ETL AHRI.**

1. GENERAL

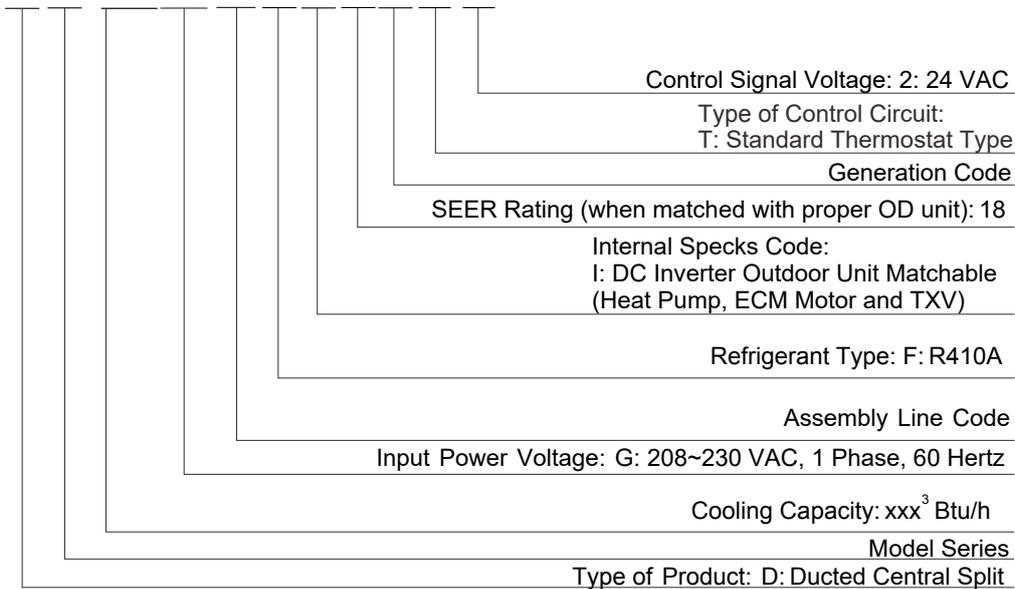
1.2 Product lineup

Model (Btu/h) Type	24K	36K	60K
Indoor unit	●	●	●

●: available model

1.3 Nomenclature

D R 024 G H F I 18 R T 2



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	198V ~ 253V
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

Storage condition

Temperature -13~140°F (-25~60°C)

Humidity 30%~80%

1. GENERAL

1.6 Product appearance

Model (Btu/h)	Indoor Unit
24K 36K 60K	 A tall, grey indoor HVAC unit, likely a VAV terminal unit, shown in a three-quarter view. The unit is rectangular and has a control panel on the lower left side. The top half of the unit is slightly lighter in color than the bottom half. The unit is set against a plain white background.

2. SPECIFICATIONS

2. Specifications

Indoor Model			DR024GHFE18HT2	DR036GHFE18HT2	DR060GHFE18HT2	
Type			Duct	Duct	Duct	
Power Supply		V/ph/Hz	208~230/1/60	208~230/1/60	208~230/1/60	
Energy Star			--	--	--	
Cooling	Capacity	Btu/h	24000	36000	56000	
	Capacity Range (MIN-MAX)	Btu/h	6700-26000	11800-36800	18300-59400	
	EER	W/W	3.20	2.80	2.50	
	EER	Btu/h/W	10.90	9.55	8.53	
	SEER	Btu/h/W	18.0	18.0	17.5	
Moisture Removal		L/h	2.2	4.5	7.5	
		Pts/h	4.6	9.5	15.8	
Heating	Capacity	Btu/h	24000	36000	56000	
	Capacity Range (MIN-MAX)	Btu/h	6700-26000	8900-38200	17600-56600	
	COP	W/W	3.50	3.30	3.10	
	COP	Btu/h/W	11.95	11.26	10.58	
	HSPF4	Btu/h/W	10.0	11.0	10.0	
	Capacity Heating (Rated) at 47°F	Btu/h	24000	36000	56000	
	Capacity Heating (Rated) at 17°F	Btu/h	15300	25000	32500	
Indoor Noise Level (Sound Pressure Hi/Med/Lo)		dB(A)	56/-/-	56/-/-	65/-/-	
ESP	Rated	Pa	45	57	70	
		in-H ₂ O	0.180	0.228	0.276	
	Range	Pa	0~200	0~200	0~200	
		in-H ₂ O	0-0.8	0-0.8	0-0.8	
Indoor Throttle type			TXV	TXV	TXV	
Design Pressure	H/L	MPa	3.8/1.6	3.8/1.6	3.8/1.6	
	H/L	PSIG	550/240	550/240	550/240	
Drainage Water Pipe Diameter		in	3/4"	3/4"	3/4"	
Power and Communication Cable		No.x AWG	Outdoor 3×12, Indoor 3×16, 4×16	Outdoor 3×10, Indoor 3×16, 4×16	Outdoor 3×8, Indoor 3×16, 4×16	
Controller	Controller (Standard)		/	/	/	
	Controller (Optional)		/	/	/	
Remote Control Adjustable Temperature Range		°C	/	/	/	
		°F	/	/	/	
AIR SUPPLY SYSTEM						
Indoor Fan Motor	Model		ZWK702B006073	ZWK702B500026	ZKSD-560-8-58	
	Qty		1	1	1	
	Output	HP	1/3	1/2	3/4	
	RLA	A	2.4~2.6	3.6~3.8	5.0~5.4	
	Winding Resistance	Ω	/	/	/	
	Capacitor	μF	/	/	/	
	Speed (Hi/Med/Lo)	r/min	350~1400	350~1400	350~1400	
Indoor Air Flow Rated (Hi/Med/Lo)		m ³ /h	1450	1600	2900	
		CFM	852	941	1706	
REFRIGERATION						
Indoor Coil	Number of Rows		4	4	5	
	Tube Pitch(a)		mm	21	21	21
			in	0.827	0.827	0.827
	Row Pitch(b)		mm	13.6	13.6	13.6
			in	0.535	0.535	0.535
	Fin Spacing		mm	1.4	1.4	1.5
			Fins Per	18	18	17
	Fin Type			Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	Tube Outside Diameter and Type		mm	Φ7, innergroove tube	Φ7, innergroove tube	Φ7, innergroove tube
	Coil Dimension(W×H×D)		mm	2 (444×420×54.4)	2 (444×420×54.4)	2 (509×546×68)
		in	2(17-1/2×16-1/2×2-1/8)	2(17-1/2×16-1/2×2-1/8)	2 (20×21-1/2×2-11/16)	

2. SPECIFICATIONS

Indoor Model			DR024GHFE18HT2	DR036GHFE18HT2	DR060GHFE18HT2
	Number of Circuits		8	8	12
Refrigerant Piping	Liquid Line OD	mm/in	Φ9.52 (3/8')	Φ9.52 (3/8')	Φ9.52 (3/8')
	Vapor Line OD	mm/in	Φ15.88 (5/8')	Φ19.05 (3/4')	Φ22.22 (7/8')
	Max. Pipe Length	m	50	75	75
		Ft.	164	246	246
	Max. Difference in Level	m	30	30	30
Ft.		98	98	98	
DIMENSIONS & WEIGHT					
Indoor Unit	Dimension (W×H×D)	mm	500×1170×550	500×1170×550	560×1370×610
		in	19-5/8 × 46 × 21-5/8	19-5/8 × 46 × 21-5/8	22×53-7/8×24
	Packing(W×H×D)	mm	645×1260×570	645×1260×570	640×1410×710
		in	25-3/8×49-5/8×22-1/2	25-3/8×49-5/8×22-1/2	25-1/4×55-1/2×28
	Air Filter Sizes	mm	/	/	/
		in	/	/	/
	Net Weight	kg	61.5	63.5	85.0
		lbs	135.5	140	187.0
	Shipping Weight	kg	72.0	74.0	97.0
		lbs	158.6	163.1	214.0
Qty'per 20' /40' /40'HQ (Indoor Unit)	Set	37/72/144	37/72/144	39/78/102	

NOTE:

1. Test conditions:

1.1 Rated capacity test conditions:

Cooling: Indoor: DB 80.0°F (26.7°C) /WB 67.0°F (19.4°C)

Outdoor: DB 95.0°F (35.0°C) /WB 75.0°F (23.9°C)

Heating: Indoor: DB 70.0°F (21.1°C) /WB 60.0°F (15.6°C)

Outdoor: DB 47°F (8.3°C) /WB 43°F (6.1°C)

1.2 SEER & HSPF test standard: AHRI 210/240.

2. The Sound Pressure Level is based on the following conditions:

Indoor unit:

Air handler unit

Measure the noise value of the point 3.28 ft(1.0m) ahead of outlet of the wind tunnel and 3.28 ft (1.0m) high from the bottom of the unit.

3. The above data was measured in an anechoic chamber. Please take into consideration the reflected sound of your specific application environment.

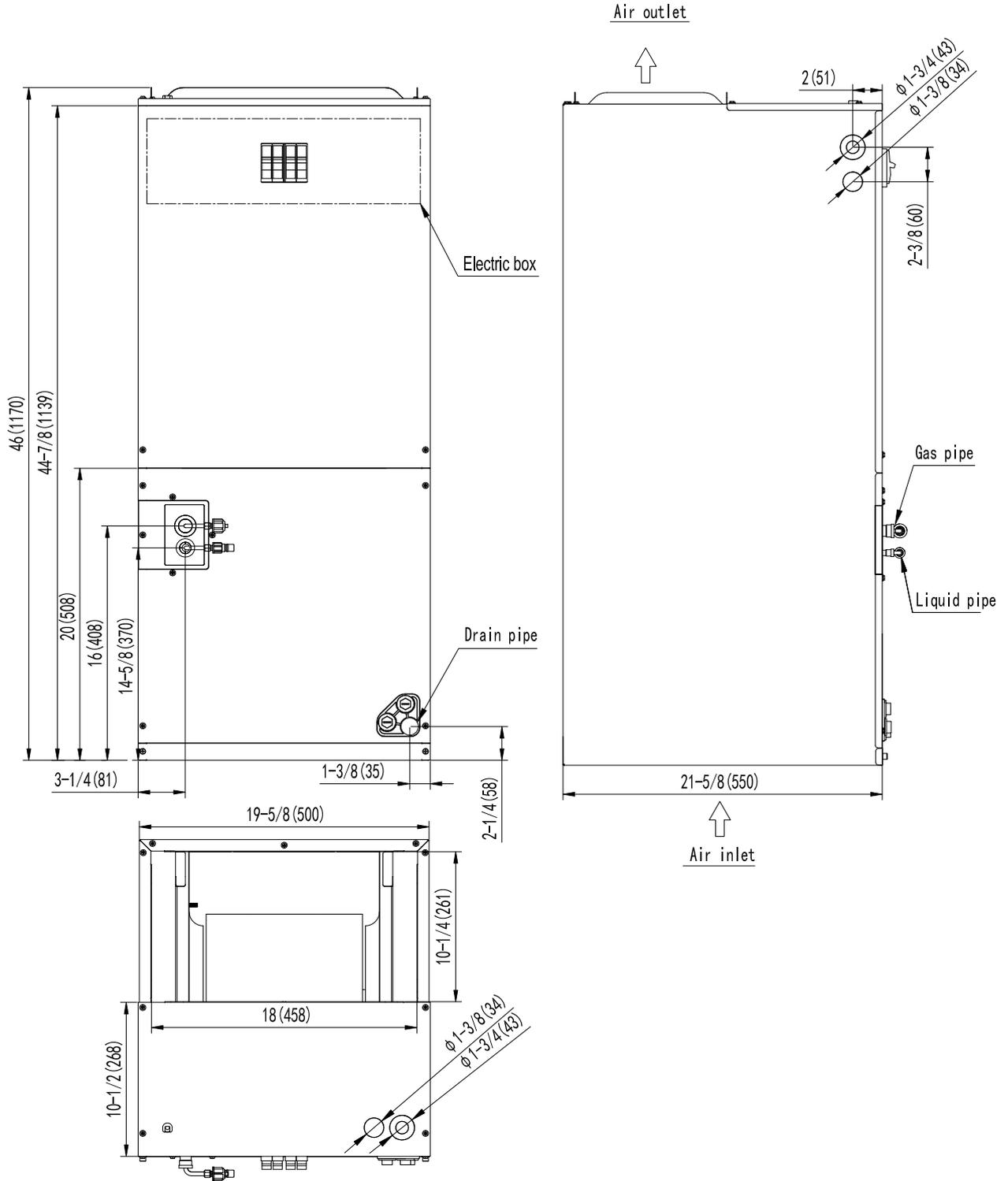
4. All specifications are subjected to change by the manufacturer without prior notice.

3. OUTLINES AND DIMENSIONS

3. Outlines and dimensions

24K/36K

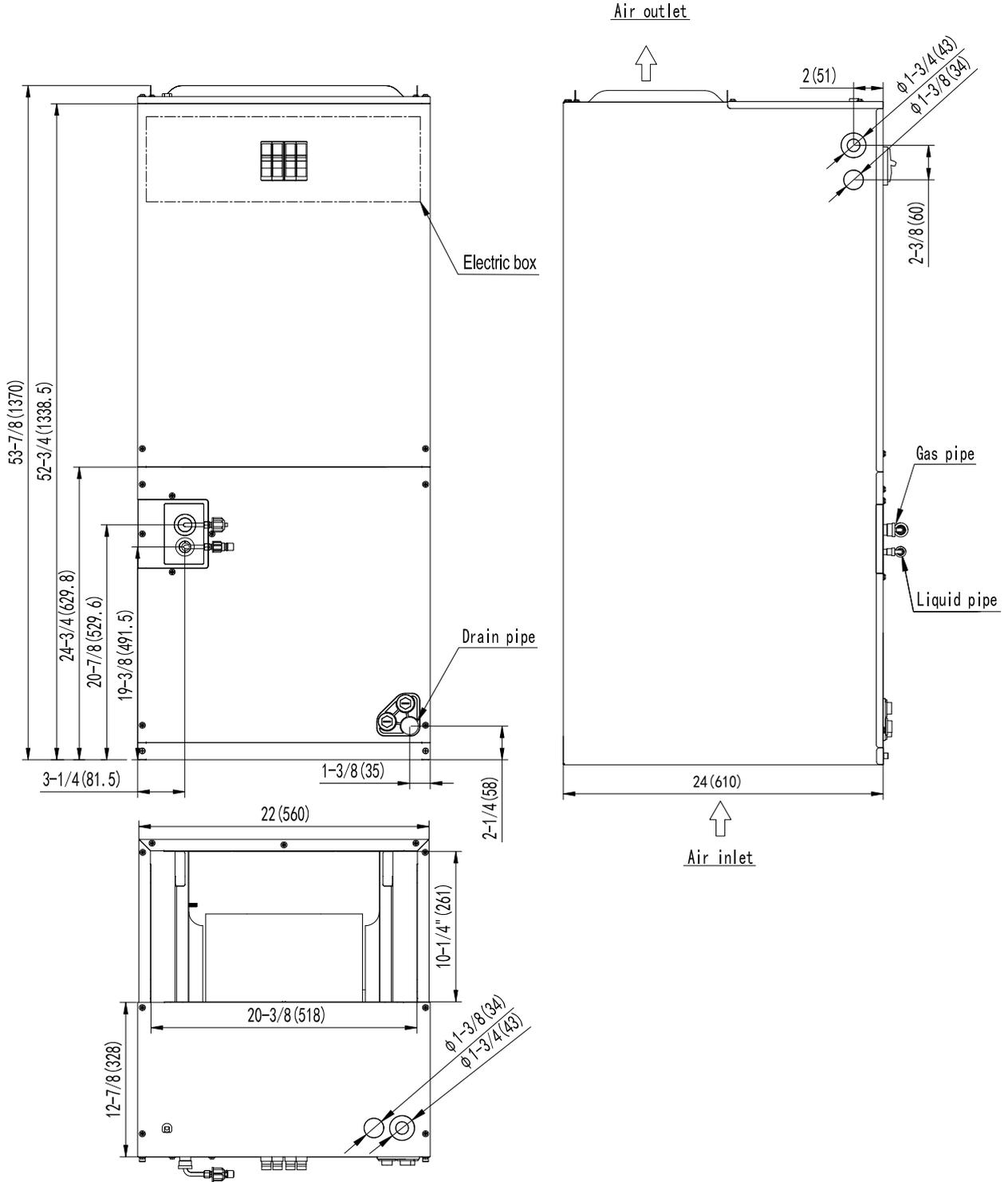
Unit : in.(mm)



3. OUTLINES AND DIMENSIONS

60K

Unit : in.(mm)



4. ELECTRICAL DATA

4. Electrical data

Indoor unit	Power supply			Applicable voltage		ELB	
	Voltage (V)	PH	Frequency (Hz)	Umin (V)	Umax (V)	Nominal Current (A)	Nominal Sensitive Current (mA)
24K/36K	208/230	1	60	198	253	10	30
60K	208/230	1	60	198	253	15	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 heating and cooling capacities.
3. The compressor is started by an inverter, resulting in extremely low starting current.

5. BLOWER DATA

5. Blower data

Airflow performance data is based on cooling performance with a coil and no filter in place. Check the performance table for appropriate unit size selection. External static pressure should stay within the minimum and maximum limits shown in the table below in order to ensure proper operation of both cooling, heating , and electric heating operation.

Air Flow Table

Air Handler Model	Motor Speed		External Static Pressure in.H ₂ O[KPa]									
			0[.0]	0.08[.02]	0.18[.045]	0.24[.06]	0.32[.08]	0.4[.10]	0.48[.12]	0.6[.15]	0.68[.17]	0.8[.20]
24K	Tap(2)	CFM	793	774	751	739	714	666	641	596	583	524
		Watts	72	80	85	87	96	105	110	123	128	135
	Tap(3) -Default Setting	CFM	872	847	803	799	754	717	696	648	628	571
		Watts	95	110	110	118	124	132	139	152	155	171
	Tap(4)	CFM	945	909	870	855	816	772	754	697	671	612
		Watts	117	133	135	140	151	161	166	182	186	198
	Tap(5)	CFM	1028	982	945	926	884	836	812	756	722	651
		Watts	147	164	168	175	186	198	205	227	229	237

Air Handler Model	Motor Speed		External Static Pressure in.H ₂ O[KPa]								
			0[.0]	0.08[.02]	0.24[.06]	0.32[.08]	0.4[.10]	0.48[.12]	0.6[.15]	0.68[.17]	0.8[.20]
36K	Tap(2) Medium Low	CFM	1013	974	868	756	730	706	634	565	506
		Watts	114	124	142	155	157	160	169	175	185
	Tap(3) -Default Setting Medium	CFM	1117	1072	988	856	825	795	734	675	621
		Watts	145	154	171	187	189	191	201	207	214
	Tap(4) Medium High	CFM	1193	1150	1072	942	919	894	815	760	709
		Watts	172	181	198	214	217	219	226	234	243
	Tap(5) High	CFM	1356	1310	1235	1127	1099	1066	1004	973	940
		Watts	244	249	264	282	285	288	297	304	311

[!] Required 350-450CFM/ton range.

[!] Airflow based upon Air Handler Unit operates at 230V with no electric heater kit and no filter. Airflow at 208V is approximately the same as 230V.

[!] CFM means Standard Cubic Foot per Hour.

[!] When there is an electric heater, please set the fan speed based on the air volume that the electric heater needs (not less than 350CFM/TON).

5. BLOWER DATA

Air Flow Table

Air Handler Model	Motor Speed		External Static Pressure in.H ₂ O[KPa]								
			0[0]	0.1[0.02]	0.2[0.05]	0.3[0.07]	0.4[0.1]	0.5[0.12]	0.6[0.15]	0.7[0.17]	0.8[0.20]
60K	Tap (2) (Medium Low)	SCFM	1606	1564	1507	1470	1415	1381	1323	1290	1230
		Watts	253	263	275	283	296	306	320	330	345
	Tap (3) (Default Setting Medium)	SCFM	1828	1794	1749	1719	1670	1633	1589	1553	1510
		Watts	376	387	401	413	428	437	452	465	482
	Tap (4) (Medium High)	SCFM	1888	1855	1813	1782	1735	1701	1665	1626	1585
		Watts	415	428	445	456	469	481	495	510	525
	Tap (5) (High)	SCFM	1971	1941	1893	1864	1820	1786	1746	1718	1673
		Watts	472	485	501	513	530	540	558	568	586

[!] Required 300-450CFM/ton range.

[!] Airflow based upon Air Handler Unit operates at 230V with no electric heater kit and no filter. Airflow at 208V is approximately the same as 230V.

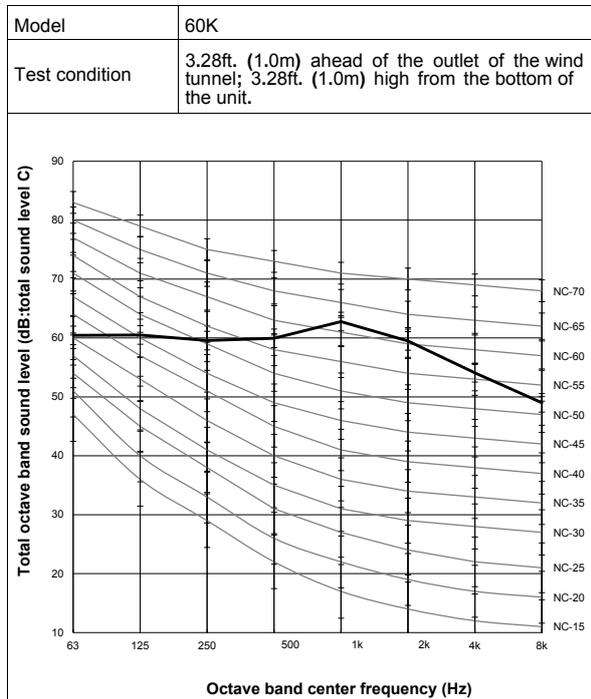
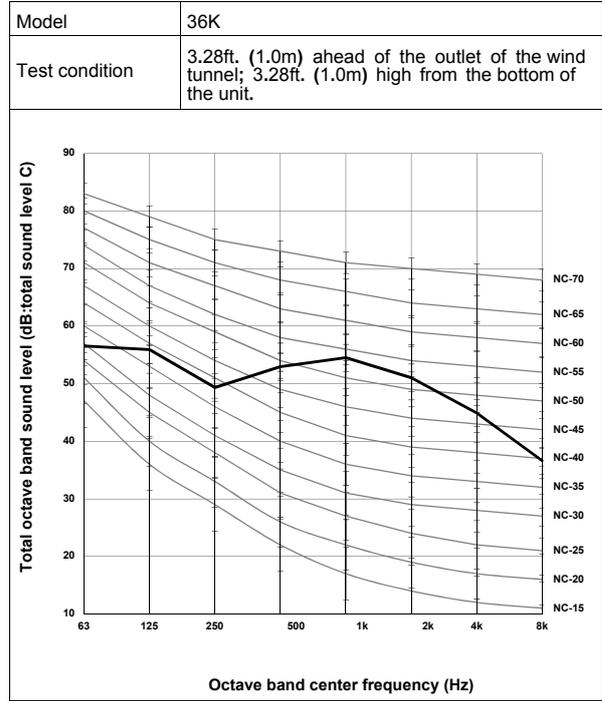
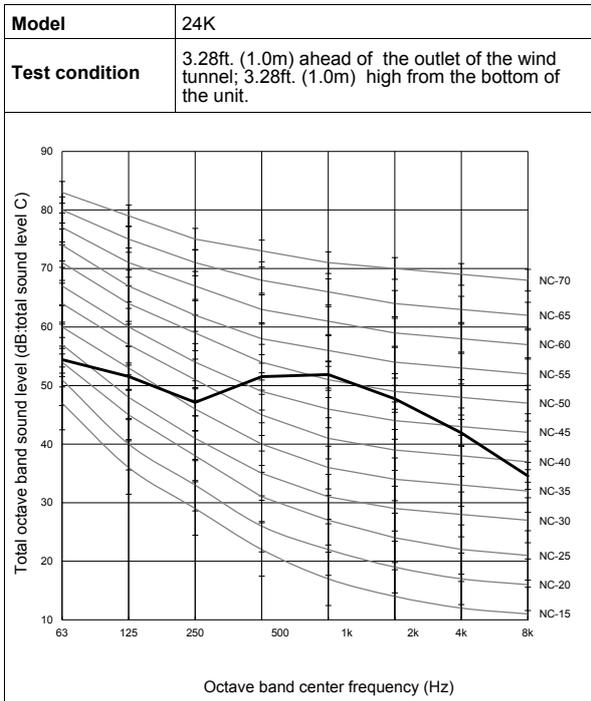
[!] CFM means Standard Cubic Foot per Hour.

[!] When there is an electric heater, please set the fan speed based on the air volume that the electric heater needs (not less than 350CFM/TON).

6. SOUND PRESSURE DATA

6. Sound pressure data

Indoor unit



7. REFRIGERANT CYCLE

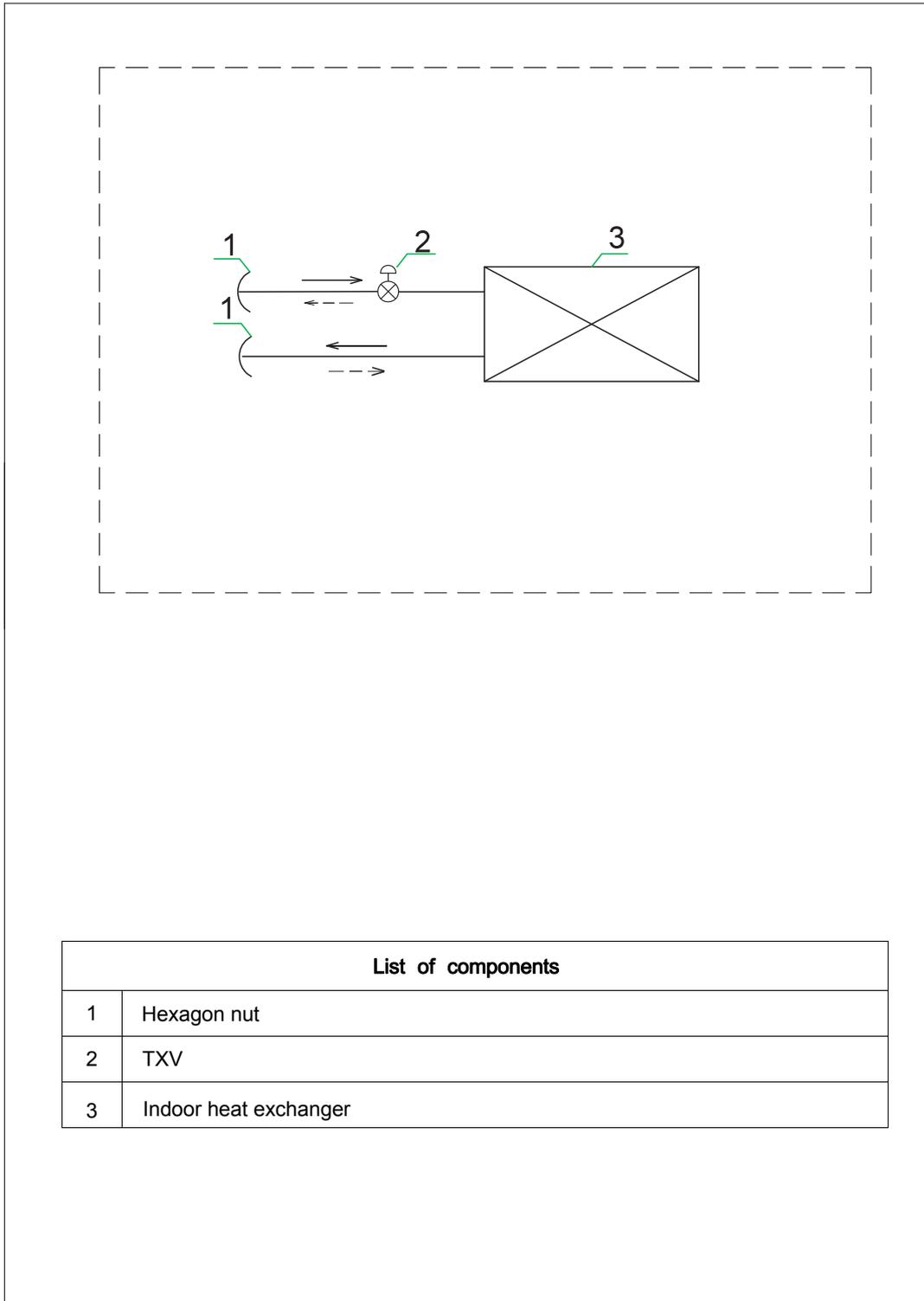
7. Refrigerant cycle

Indoor unit

24K/36K/60K

→ Cooling cycle

--- Heating cycle



List of components

1	Hexagon nut
2	TXV
3	Indoor heat exchanger

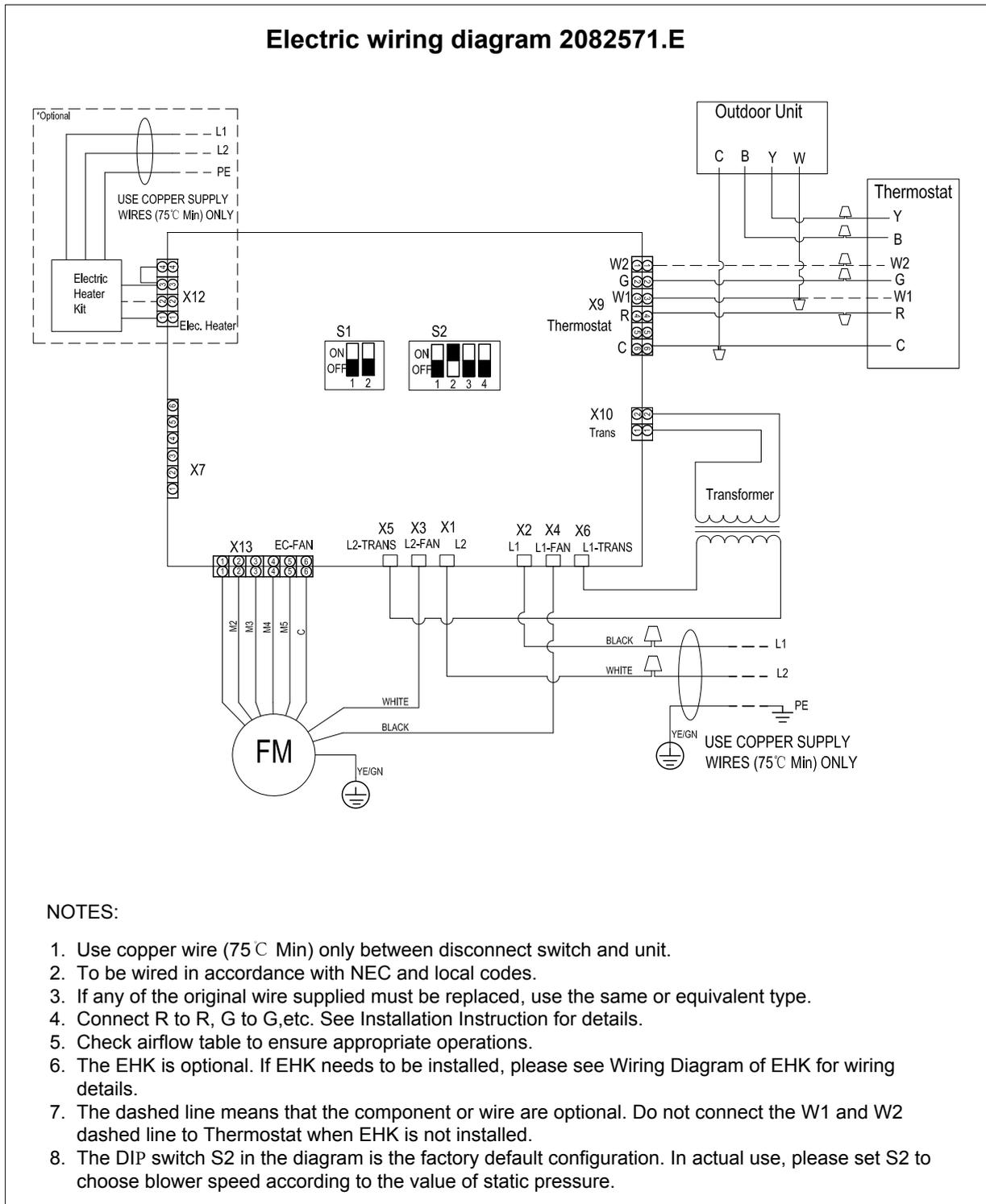
8. WIRING DIAGRAM

8. Wiring diagram

8.1 Electrical wiring diagram

Indoor unit

24K/36K/60K



8. WIRING DIAGRAM

8.3 Common wiring

Recommended Wire Size

Model (Capacity)	Power Supply	ELB		Power Source Cable Size	Transmitting Cable Size	Thermostat Signal Size	Fuse or Circuit Breaker (A)
		Rated Current (A)	Nominal Sensitive Current (mA)				
24K/36K	208/230V ~/60Hz	10	30	3×16AWG	4×16AWG	5×18AWG	10
60K	208/230V ~/60Hz	15	30	3×16AWG	4×16AWG	5×18AWG	15

Max. Running Current (A): REFER TO NAMEPLATE

NOTE:

- (1) Follow local codes and regulations when selecting field wires, and all the above are the minimum wire size.
- (2) When transmitting cable is longer than 262ft. (80m), a larger wire size should be selected.
- (3) Install main switch and ELB for each system separately. Select the high response type ELB that is acted within 0.1second.
- (4) If auxiliary heater is required and already installed on indoor unit, power source cable should be installed separately and the size should be selected in accordance with UL.

9. FIELD SETTING

9. Field setting

Static Pressure Setting:

Dip Switch S2 Setting	Blower Speed Tap	Fan Speed Select	Static Pressure (W.C.[kPa]) 24K	Static Pressure (W.C.[kPa]) 36K	Static Pressure (W.C.[kPa]) 60K
ON  OFF 1 2 3 4	2	Medium Low	0.1[0.02]	0.1[0.02]	0.1[0.02]
ON  OFF 1 2 3 4	3	Medium (Default setting)	0.18[0.045]	0.24[0.057]	0.28[0.07]
ON  OFF 1 2 3 4	4	Medium High	0.25[0.8]	0.5[0.12]	0.5[0.12]
ON  OFF 1 2 3 4	5	High	0.4[0.11]	0.8[0.2]	0.8[0.2]

NOTE: Symbol “ ■ ” indicates the position of the DIP switch.
 Symbol “  ” indicates any position of ON or OFF.
 Dip switch S1 is for production detection, please keep its initial state.

10. CHECKING COMPONENTS

10. Checking components

10.1 Check refrigerant system

TEST SYSTEM FLOW

Conditions: ① Compressor is running.

② The air condition should be installed in good ventilation.

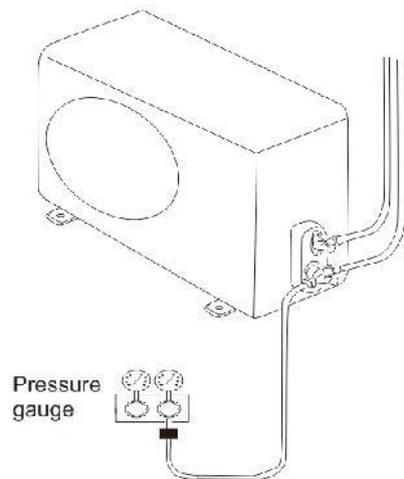
Tool: Pressure Gauge

Technique: ① see ② feel ③ test

See ----- Tube defrost.

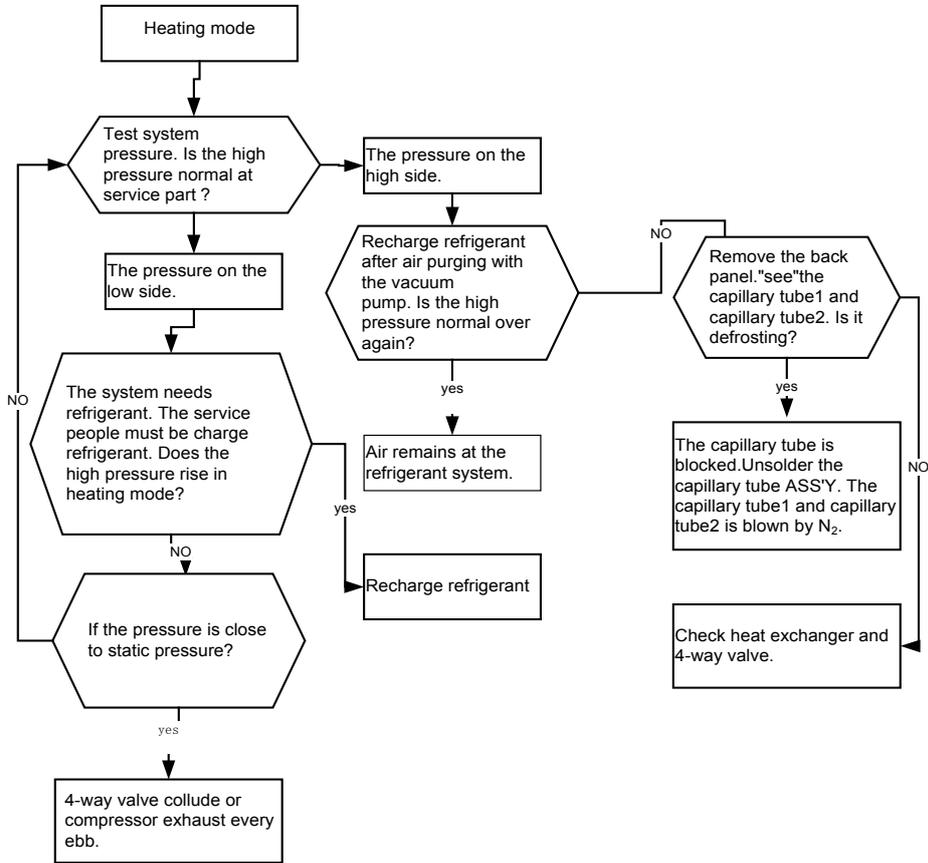
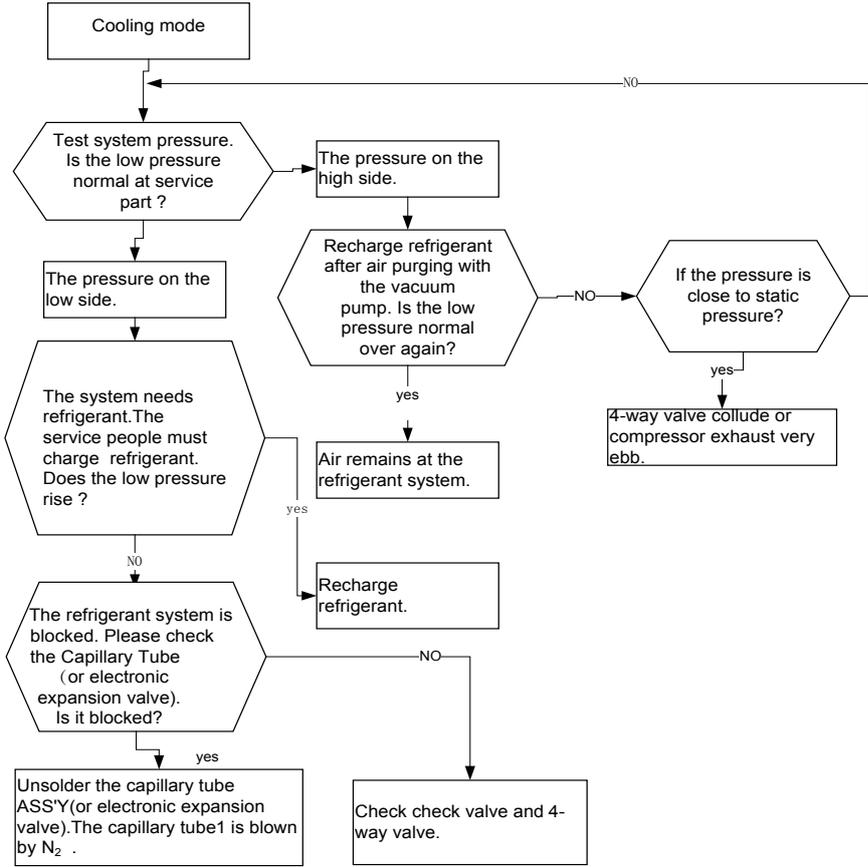
Feel ----- The difference between tube's temperature.

Test ----- Test pressure.



10. CHECKING COMPONENTS

Test system flow



10. CHECKING COMPONENTS

10.2 Check unit parts

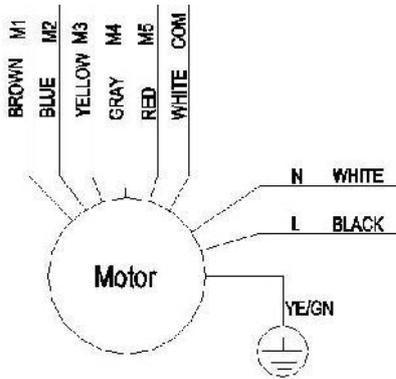
1. Indoor unit fan motor

Duct motor model

24K: ZWK702B006073

36K: ZWK702B500026

60K: ZKSD-560-8-58



Test in resistance.

TOOL: Multimeter.

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

Test in voltage

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 repeats 0V DC and 5V DC.

NOTES:

Please don't hold motor by lead wires.

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

Please don't drop or 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 voids our warranty.

2. Inductance

Familiar error:

- 1) Sound abnormality
- 2) Insulation resistance disqualification.

Test in resistance.

TOOL: Multimeter.

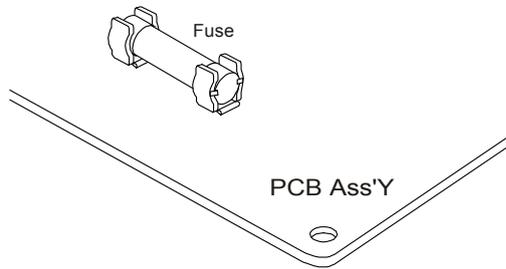
Test the resistance of winding. The stepper motor fails if the resistance of winding is 0 (short circuit) or ∞ (open circuit).

10. CHECKING COMPONENTS

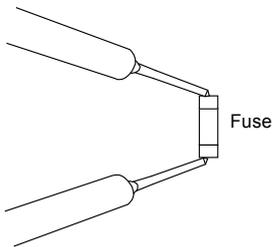
3. Fuse

Checking 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 (Fig.1)



Check for continuity by a multimeter as shown below.



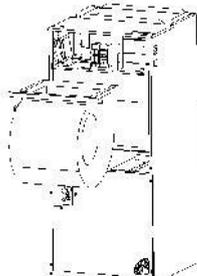
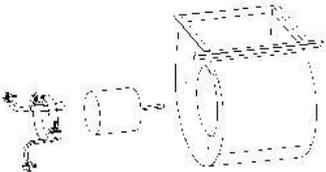
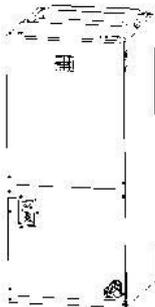
11. DISASSEMBLY AND ASSEMBLY FOR MOTOR

11. Disassembly and assembly for motor

Indoor unit

24K/36K/60K

Important: Before disassembly and assembly, make sure that the power to the system has been disconnected and verified as voltage free.

Step	Illustration	Handling Instruction
1. Remove the top panel and unplug the motor cables.		Use screwdriver to remove the electric box cover and unplug the motor cables in electric box.
2. Take out the fan snail shell unit.		Use screwdriver to unscrew two bolts from the top of the unit.
3. Remove the motor and the motor mount.		Use wrench to unscrew three bolts from the side of shell.
4. Reassembly of the unit. Assemble the unit		Reassemble the unit in the reverse order of disassembly and test operation.

12. Heater Kit

12. Heater Kit (Optional)

Electric Heat Kit Model	Air Handler Model	Electric Heat (kW)	MIN.Circuit Ampacity		MAX.Fuse or Breaker (HACR) Ampacity		Fan Speed Tap			
			230VAC	208VAC	230VAC	208VAC	2	3	4	5
21-4245-01	24K	5	28.3	25.9	30	30	●	●	●	●
21-4245-02		7.5	40.7	37.2	45	40	×	●	●	●
21-4245-03		10	53.2	48.5	60	50	×	×	●	●
21-4245-01	36K	5	29.8	27.4	30	30	●	●	●	●
21-4245-02		7.5	42.2	38.7	45	40	×	●	●	●
21-4245-03		10	54.7	49.9	60	50	×	×	●	●
21-4245-01	60K	5	31.8	29.4	35	30	●	●	●	●
21-4245-02		7.5	44.8	40.7	45	45	×	●	●	●
21-4245-03		10	56.7	51.9	60	55	×	×	●	●
21-4245-04		15	44.8+36.9	40.7+33.8	50+40	50+35	×	×	●	●
21-4245-05		20	56.7+49.9	51.9+45.2	60+50	60+50	×	×	×	●

● : available
 × : unavailable

NOTES:

1. To be wired in accordance with NEC and local codes.
2. Fan speed selection: 1--Medium low; 2--Medium; 3--Medium high; 4--High.
3. The heater kit must be connected to the power supply separately.
4. Check if heat kit is suitable for AHU 3-way position installation.
5. Ampacities for MCA and Fuse/breaker including the blower motor.
6. Heat pump systems require specified airflow. Each ton of cooling requires between 350 and 450 cubic feet of air per minute(CFM), or 400 CFM nominally.

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



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