Installation Instructions
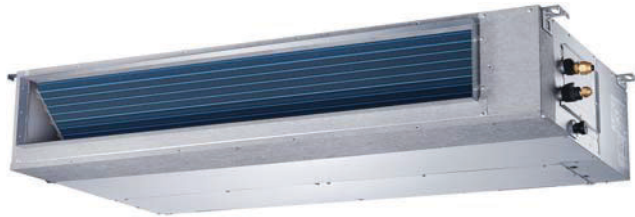

Fig. 1 — Sizes 09K - 48K

NOTE: The 09K-48K unit can be mounted vertically as well as horizontally.

Fig. 2 — Size 58K

NOTES: Read the entire instruction manual before starting the installation.

Images are for illustration purposes only. Actual models may differ slightly.

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SAFETY CONSIDERATIONS

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock, or other conditions which may cause death, personal injury or property damage.

Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or agency must use factory-authorized kits or accessories when modifying this product. Refer to the individual instructions packaged with kits or accessories when installing.

Follow all safety codes. Wear safety glasses, protective clothing and work gloves. Have a fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions included in the literature and attached to the unit. Consult local building codes and the current editions of the National Electrical Code (NEC) NFPA 70.

In Canada, refer to the current editions of the Canadian Electrical Code CSA C22.1. Recognize safety information.

This is the safety-alert symbol ⚠. When you see this symbol on the unit and in instruction manuals, be alert to the potential for personal injury.

⚠ **WARNING**

The 9K and 12K units are for single room applications **only**.

⚠ **WARNING**

ELECTRICAL OPERATION HAZARD

Failure to follow this warning could result in personal injury or death.

Before installing or servicing unit, always turn off all power to the unit. There may be more than one disconnect switch. Turn off the accessory heater power if applicable. Lock out and tag switch with a suitable warning label.

⚠ **WARNING**

EXPLOSION HAZARD

Failure to follow this warning could result in death, serious personal injury, and/or property damage.

Never use air or gases containing oxygen for leak testing or operating refrigerant compressors. Pressurized mixtures of air or gases containing oxygen can lead to an explosion.

⚠ **CAUTION**

EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage or improper operation.

Do not bury more than 36 in. (914 mm) of refrigerant pipe in the ground. If any section of pipe is buried, there must be a 6 in. (152 mm) vertical rise to the valve connections on the outdoor units. If more than the recommended length is buried, refrigerant may migrate to the cooler buried section during extended periods of a system shutdown. This causes refrigerant slugging and could possibly damage the compressor during the start-up process.

⚠ **CAUTION**

CUT HAZARD

Failure to follow this caution may result in personal injury.

Sheet metal parts may have sharp edges or burrs. Use caution and wear appropriate protective clothing and gloves when handling parts.

Specifications subject to change without notice.

INTRODUCTION

The Ducted Slim models are R-410A fan coils designed with application flexibility in mind. The 9K-48K sizes can be mounted horizontally or vertically (upflow) while the 58K size can be mounted only horizontally.

A rear and bottom return is available for field modification on the 9K-48K sizes to match the different applications.
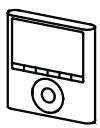
All these fan coils have a DC fan motor with variable speeds for efficiency and comfort. The static pressure can be manually set up or use the constant air volume control.

The ducted fan coil unit is shipped with a condensate lift pump providing a maximum lift of 29.5in (750mm).

ACCESSORIES

The system is shipped with the following accessories. Use all of the installation parts and accessories to install the system. Improper installation may result in water leakage, electrical shock and fire, or cause the equipment to fail. Keep the installation manual in a safe place and do not discard any other accessories until the installation work has been completed.

Table 1 — Accessories

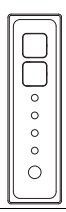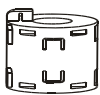| ACCESSORY	QUANTITY	SHAPE
Literature package including owner's manuals, installation instructions and warranty card	3	Manual
Soundproof/insulation sheath	2	
Brass flare nut	2	
Drain adapter	1	
Air filter	1	
Wired controller	1	
Wireless remote controller	1	
Infrared Display Panel and extension wire	1	
Condensate Lift Pump (external sizes 09K-18K, internal sizes 24K-58K)	1	
EMC Ferrite core (magnetic ring)	1	
Optional Return Temperature Sensor p/n 40VM900009 - sold separately	1	
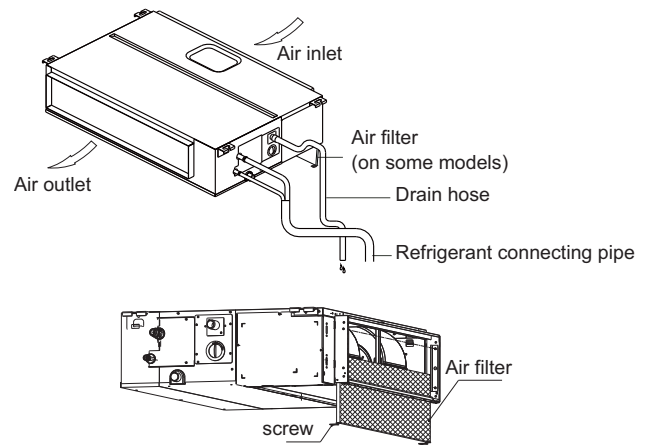
Fig. 3 — Indoor Unit Representation

NOTES:
- If the outdoor unit is higher than the indoor unit, prevent rain from flowing into the indoor unit along the connection pipe by creating a downward arc in the connection pipe before it enters the wall and enters the indoor unit. Doing so helps ensure rain drips from the connection pipe before it enters the wall.
- Piping and the interconnecting wiring are field supplied.
- Fig. 3 is a sketch. Different models may differ slightly.

Table 2 — Indoor Unit Model Numbers

KBTUH	V-PH-HZ	ID MODEL NO.
9		40MBDQ09---3
12		40MBDQ12---3
18		40MBDQ18---3
24	208/230-1-60	40MBDQ24---3
36		40MBDQ36---3
48		40MBDQ48---3
58		40MBDQ58---3

INSTALLATION REQUIREMENTS

- Confirm that the ceiling or wall can support the unit's weight.
- Confirm there is enough room within the false ceiling for installation and maintenance.
    - a. The false ceiling should be horizontal and leveled.
- Install the unit in a location within the room that allows uniform airflow in all directions.
- Do not install the indoor units near a direct source of heat such as direct sunlight or a heating appliance.
- Allow sufficient space for airflow and unit servicing. See Fig. 7 — on page 7 for the minimum required distances between the unit and the walls or ceilings.
- All wiring and refrigerant lines must be at least 3 ft. (1m) away from all electromagnetic interference (televisions, radios, etc.) sources. Interference is still possible even if this distance is maintained.
- Ensure the hanger is strong enough to withstand the unit's weight.
- **If the indoor unit is installed in an unconditioned space, running for long periods of time when the temperatures are outside the recommended indoor unit operation ranges, you are advised to seal all the corners of the indoor unit to prevent any leakage and add insulation material (1/2 to 3/4 in (10-20 mm)) to the entire surface of the indoor unit to avoid condensation or heat transfer.**
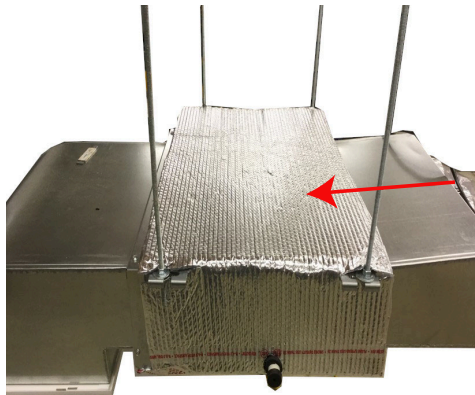

Fig. 4 — Insulation Material

NOTE: Nuisance sweating may occur if the unit is installed in a high humidity environment with low airflow.

Table 3 — Operating Range

OPERATING RANGE MIN/MAX °F (°C)		
	Cooling	Heating
Indoor DB	63 / 90 (17 / 32)	32 / 86 (0 / 30)
Indoor WB	59 / 84 (15 / 29)	

If the unit is installed outside the operating range it is recommended to install a return air temperature button sensor. See "RETURN AIR ARRANGEMENT (SIZES 09K-48K ONLY)" on page 10.

NOTE: DO NOT install the indoor or outdoor units in a location with special environmental conditions. For those applications, contact your Ductless representative.

⚠ WARNING

PRODUCT INSTALLATION

- Installation must be performed by an authorized dealer or specialist. A defective installation can cause water leakage, electrical shock, or fire.
- The installation must be performed according to the installation instructions. Improper installation can cause water leakage, electrical shock, or fire. (In North America, installation must be performed in accordance with the requirements of NEC or CEC by authorized personnel only.)
- Contact an authorized service technician for repair or maintenance of this unit. This appliance must be installed in accordance with local codes.
- Only use the included accessories, parts, and specified parts for installation. Using non-standard parts can cause water leakage, electrical shock, fire, or unit failure.
- Install drainage piping according to the instructions in this manual. Improper drainage may cause water damage to your home and property.
- For units that have an auxiliary electric heater, **DO NOT** install the unit within 3 feet (1 meter) of any combustible materials.
- **DO NOT** install the unit in a location that may be exposed to combustible gas leaks. If combustible gas accumulates around the unit, it may cause a fire.
- **DO NOT** turn on the power until all work has been completed.
- When moving or relocating the system, consult experienced service technicians for the disconnection and re-installation of the unit.

⚠ WARNING

Securely install the indoor unit on a structure that can sustain its weight. If the structure is too weak, the unit may fall and cause personal injury, unit and property damage, or death.

DO NOT install the indoor unit in a bathroom or laundry room as excessive moisture can short the unit and corrode the wiring.
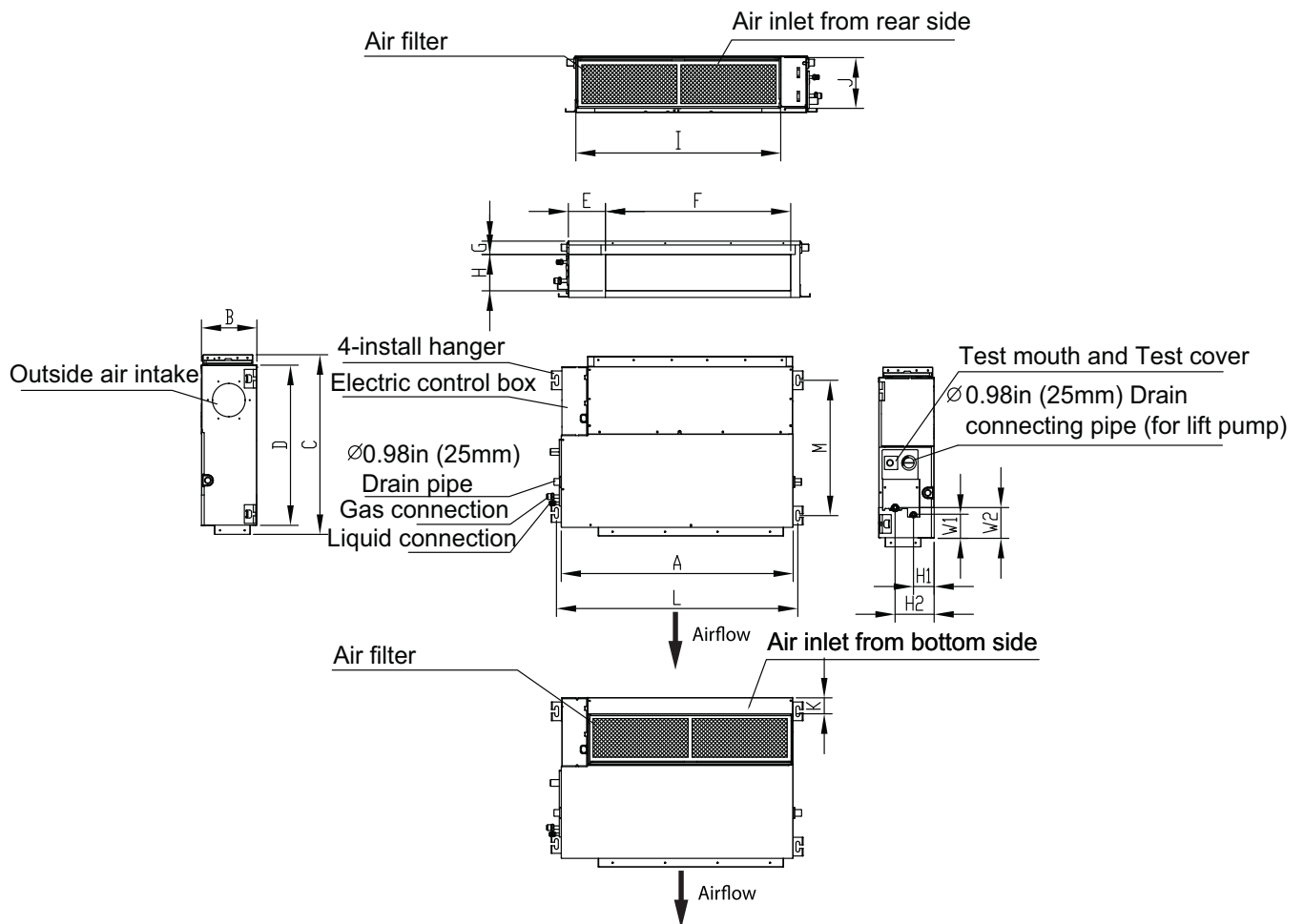
⚠ CAUTION

Install the indoor and outdoor units, cables and wires at least 3.2 ft (1m) from televisions or radios to prevent static or image distortion.

Depending on the appliances, a 3.2 ft (1m) distance may not be sufficient. If the indoor unit is installed on metal, it must be electrically grounded.

Specifications subject to change without notice.

DIMENSIONS

Table 4 — Indoor Unit Dimensions

Size	Unit	AIR OUTLET OPENING SIZE				AIR OUTLET OPENING SIZE				AIR INLET OPENING SIZE			HANGER BRACKETS		REFRIGERANT PIPE LOCATIONS				OPERATING WEIGHT LB (KG)
		A	B	C	D	E	F	G	H	I	J	K	L	M	H1	H2	W1	W2	
9	In.	27.6	7.9	19.9	17.7	5.4	21.1	1.2	6	23.6	7.3	2	29.2	14.2	3.3	5.5	3.3	3.3	40
	mm	700	200	506	450	137	537	30	152	599	186	50	741	360	84	140	84	84	18.1
12	In.	27.6	7.9	19.9	17.7	5.4	21.1	1.2	6	23.6	7.3	2	29.2	14.2	3.3	5.5	3.3	3.3	40
	mm	700	200	506	450	137	537	30	152	599	186	50	741	360	84	140	84	84	18.1
18	In.	34.65	8.27	26.54	23.62	5.51	27.80	1.97	5.35	30.79	7.48	1.57	36.22	20	3.07	5.83	3.46	4.41	54
	mm	880	210	674	600	140	706	50	136	782	190	40	920	508	78	148	88	112	24.5
24	In.	43.31	9.8	30.47	27.56	5.51	36.46	1.97	6.89	39.41	8.98	0.2	44.88	23.54	3.15	5.91	5.12	6.1	87
	mm	1100	249	774	700	140	926	50	175	1001	228	5	1140	598	80	150	130	155	39.4
36	In.	53.54	9.8	30.47	27.56	5.51	46.69	1.97	6.89	49.65	8.98	0.2	55.12	23.54	3.15	5.91	5.12	6.1	106
	mm	1360	249	774	700	140	1186	50	175	1261	228	5	1400	598	80	150	130	155	48.3
48	In.	47.24	11.81	34.41	31.5	4.84	41.1	1.97	8.94	43.35	11.02	0.2	48.82	27.44	3.15	5.91	7.28	8.27	120
	mm	1200	300	874	800	123	1044	50	227	1101	280	5	1240	697	80	150	185	210	54.3
58	In.	55.12	17.32	33.78	30.31	4.17	46.81	1.1	15.16	46.54	11.02	1.57	56.57	27.56	8.15	10.75	5.67	5.67	163
	mm	1400	440	858	770	106	1189	28	385	1182	280	40	1437	700	207	273	144	144	74

Air filter
Air inlet from rear side
Outside air intake
4-install hanger
Electric control box
∅0.98in (25mm) Drain pipe
Gas connection
Liquid connection
Test mouth and Test cover
∅0.98in (25mm) Drain connecting pipe (for lift pump)
Airflow
Air filter
Air inlet from bottom side
Airflow

NOTE: Sizes 09K-48K blow-through systems

Fig. 5 — Indoor Unit Sizes 09K - 48K

DIMENSIONS (CONT)

BOTTOM VIEW

Airflow

REAR VIEW

Air Inlet

LEFT VIEW

RIGHT VIEW

TOP VIEW

Airflow

FRONT VIEW

Air Outlet

NOTE: Size 58K draw-through system

Fig. 6 — Indoor Unit Size 58K
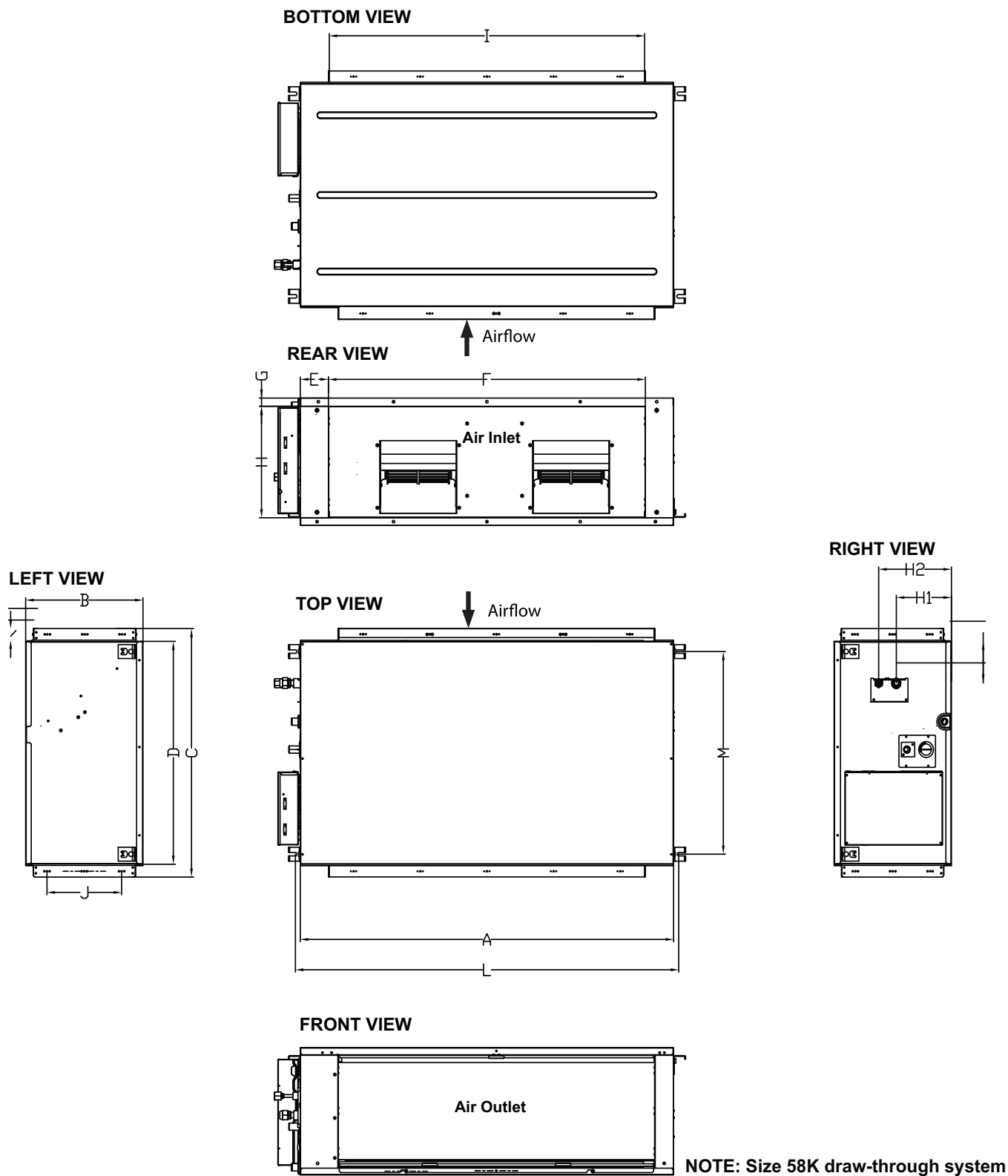
Specifications subject to change without notice.

IM-40MBDQ-05

INSTALLATION CLEARANCES HORIZONTAL INSTALLATIONS
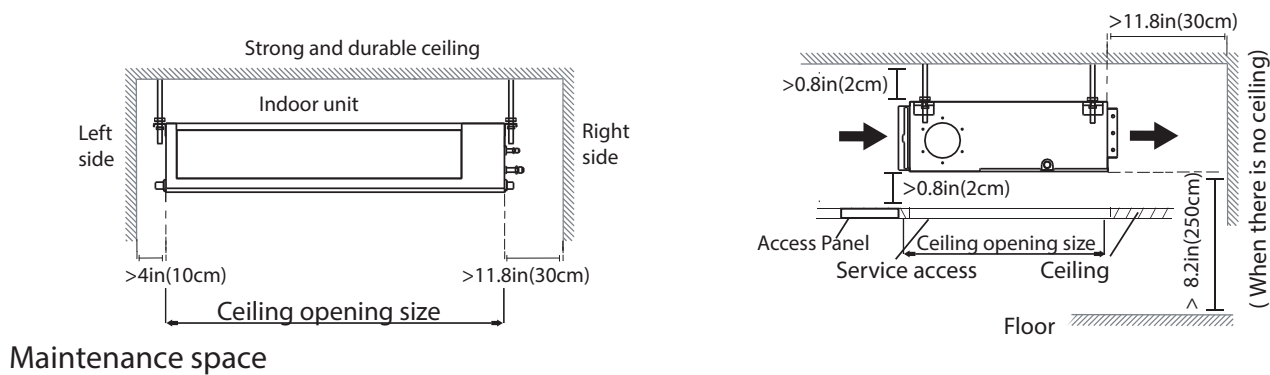
Fig. 7 — Installation Clearances

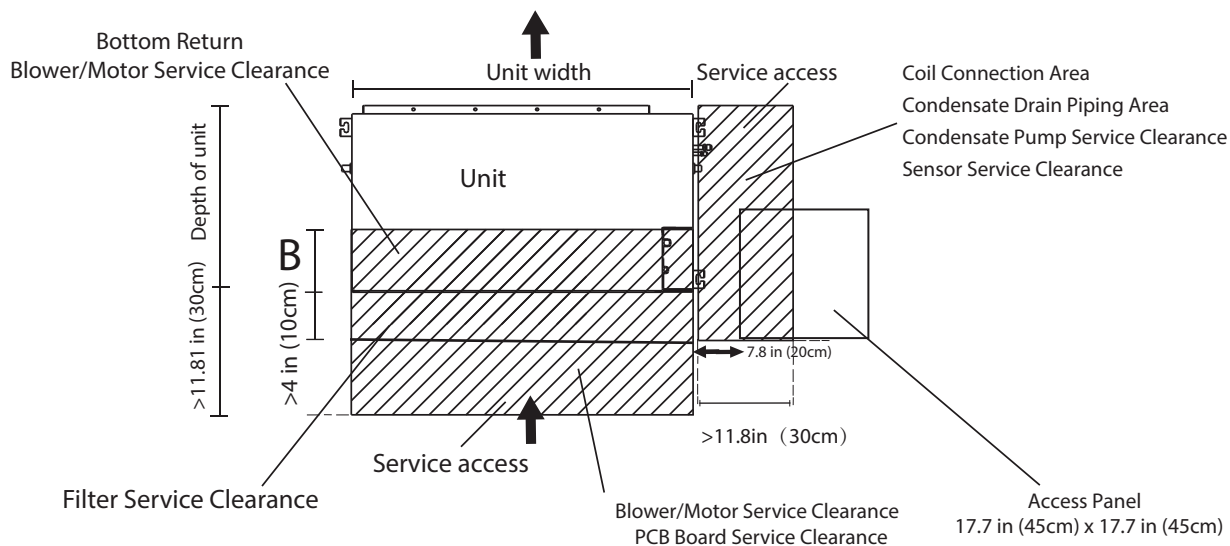## MAINTENANCE CLEARANCES

Provide a service access for inspection purposes.

Fig. 8 — Maintenance Clearances

Table 5 — Maintenance Clearances

CAPACITY (KBTU)	B
9K	11.81in.(30cm)
12K	11.81in.(30cm)
18K	11.81in.(30cm)
24K	11.81in.(30cm)
36K	11.81in.(30cm)
48K	15.75in.(40cm)
58K	15.75in.(40cm)

NOTE: If installed above a fixed ceiling, utilize a ceiling access panel the length and width of the unit, otherwise the blower components and/or entire unit cannot be removed.

If a single access panel is desired, the minimum dimensions should be:

- **Single Access Panel Width**: The width of the unit plus 2-inches on both sides
- **Single Access Panel Length**: The length of the unit plus 18-inches on the connection end and 2-inches on the opposite end.

INSTALLATION

Step 1 - Check Equipment

Unpack the unit and move to the final location. Remove the carton, taking care not to damage the unit. Inspect the equipment for damage prior to installation. File a claim with the shipping company if the shipment is damaged or incomplete.

Locate the unit rating plate which contains the proper installation information. Check the rating plate to ensure the unit matches the job specifications.
.

> ### ⚠ CAUTION
>
> Ensure the ceiling grid is supported separately from the unit.
>
> The ceiling grid must not be supported by any part of the unit or any associated wiring or piping work.

Step 2 - Mount Unit

The unit can stand or lie on the floor, or hang from the ceiling or the wall. Allow adequate space for wiring, piping, and servicing of the unit. The 09K-48K size units can be mounted horizontally or vertically (upflow). The 58K units can be mounted horizontally.
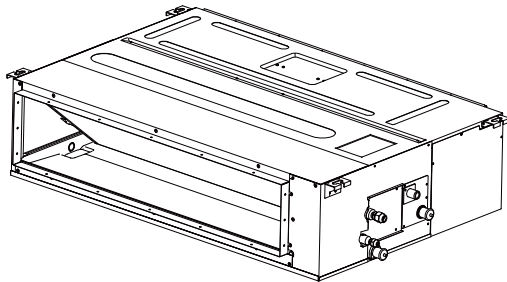
Fig. 9 — Unit mounted horizontally
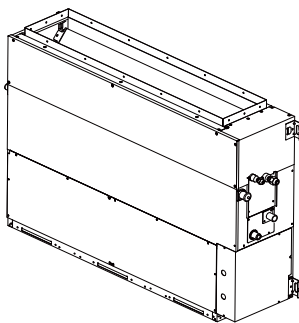
Fig. 10 — Unit mounted vertically (upflow)

IMPORTANT: When the unit is installed over a finished ceiling and/or a living area, building codes may require the installation of a field-supplied secondary condensate pan under the entire unit.

Some localities may allow as an alternative, the running of a separate, secondary condensate line. Consult the local codes for additional restrictions or precautions.

Different ceiling types call for different mount applications.

Wood

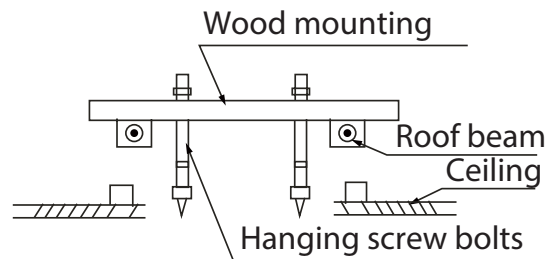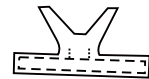Place the wood mounting across the roof beam, then install the hanging screw bolts.

Fig. 11 — Wood Mounting

New Concrete Bricks
Inlay or embed the screw bolts.

(Blade shape insertion)   (Slide insertion)

Fig. 12 — New Concrete Bricks

Original Concrete Bricks
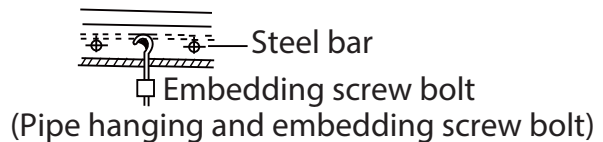Use an embedding screw bolt, crock, and stick harness.

Steel bar
Embedding screw bolt
(Pipe hanging and embedding screw bolt)

Fig. 13 — Original Concrete Bricks

Steel Roof Beam Structure
Install and use the supporting steel angle.

Hanging screw bolt
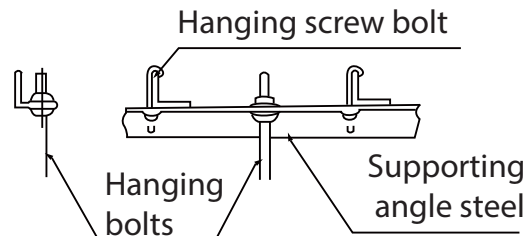Hanging bolts
Supporting angle steel

Fig. 14 — Steel Roof Beam

> ### ⚠ CAUTION
>
> The unit body must be completely aligned with the hole. Ensure the unit and the hole are the same size before moving on.

Provide adequate space for wiring, piping, and servicing of the unit (see "INSTALLATION REQUIREMENTS" on page 4 and "MAINTENANCE CLEARANCES" on page 7).

1. **MARK AND DRILL HOLES TO HANG AND INSTALL THE BOLTS**

    Mark the location of the four hanger bolt holes on the ceiling based on the indoor unit's dimensional drawing. Drill four holes into the ceiling and install the four suspension bolts securing the bolt using the washers and nuts (field supplied). Use a Ø 0.39in (10mm) all-threaded rod.
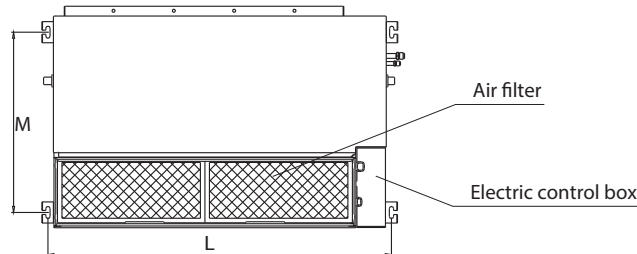

Fig. 15 — Bracket Positions

Table 6 — Bracket Positions Dimensions

Unit	L	M
In.(mm)	29.2(741)	14.2(360)
In.(mm)	29.2(741)	14.2(360)
In.(mm)	36.22(920)	20(508)
In.(mm)	44.88(1140)	23.54(598)
In.(mm)	55.12(1400)	23.54(598)
In.(mm)	48.82(1240)	27.44(697)
In.(mm)	56.57(1437)	27.56(700)
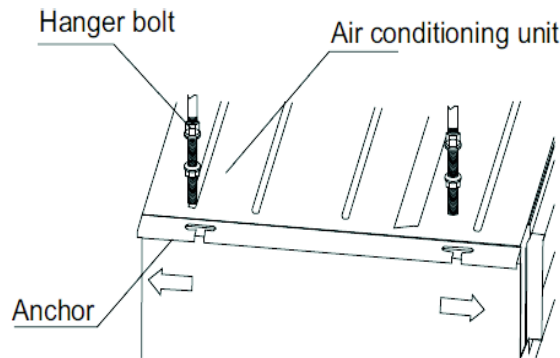
Fig. 16 — Install the Hanger Bolts

2. **THIS STEP REQUIRES TWO PEOPLE.** Lift the indoor unit to mount and secure it. Insert the suspension bolts into the unit's hanging holes. Fasten the bolts with the washers and nuts provided.
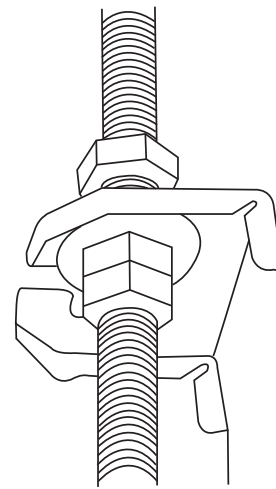

Fig. 17 — Suspension bolt

3. Mount the indoor unit onto the hanging screw bolts with a block. Position the indoor unit with a level indicator to prevent leaks.
4. Adjust the unit's height until the bottom is level with the false ceiling. Leave enough space to provide an adequate pitch for the drain.
5. Secure the unit in position with lock nuts and washers on both sides of the mounting bracket. Ensure the threaded rod does not extend more than 2 in. below the mounting brackets (see Fig. 18).
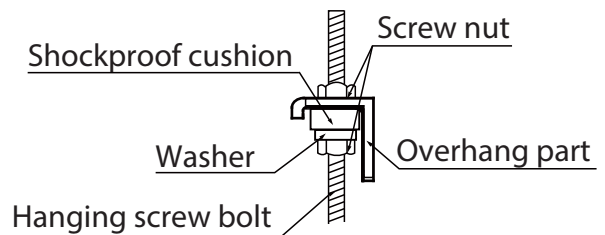

Fig. 18 — Secure the Unit

RETURN AIR ARRANGEMENT (SIZES 09K-48K ONLY)

Based on the return air conditions in the field, the factory configured rear return arrangement of the unit may be modified to allow bottom return.

To modify:

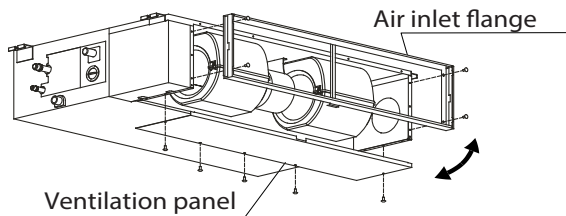1. Remove the Air Inlet Flange/filter rack and ventilation panel.

Fig. 19 — Remove the Air Inlet Flange

2. Install the seal on the bottom inlet.
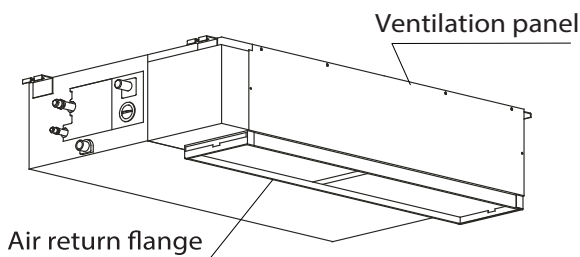3. Swap the position to change the rear return to a bottom return arrangement installing the Air Inlet flange and the filters.

Fig. 20 — Change the Rear Return

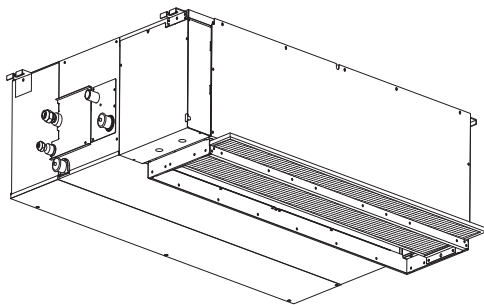4. Install the filter brackets to lock the filter in place.

Fig. 21 — Install the Filter Brackets

Return Temperature Sensor - A button sensor (**p/n 40VM900009 - sold separately)** may be used for situations where a indoor ducted unit is reading an inaccurate room temperature due to installation factors. The button sensor kit has a length of 66ft (20m). Replace the factory T1 sensor, which can be found inside the indoor unit. The sensor may be installed on the wall or ceiling. Airflow must be considered for accurate sampling.
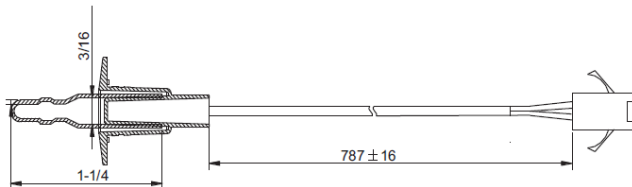

Fig. 22 — Button Sensor

NOTE: A temperature compensation correction may be necessary depending on the installation location of the unit. Consult the wireless remote controller's service manual for advanced steps on temperature compensation.

Step 3 - Installing Ductwork

Connect the return and supply air ducts to the ducts over the outside flanges provided on the unit. Secure the canvas tie to the indoor unit's flange, using the proper fasteners for the type of duct used and the seal duct-to-unit joint. Use canvas duct (flexible connectors) between the ductwork and the unit to prevent transmission of vibration.

Maintain an adequate distance between the return and supply diffusers to avoid short circulation of air within the space. The filter is located on the return side of the unit, on the rear or bottom depending on the return air inlet arrangement.
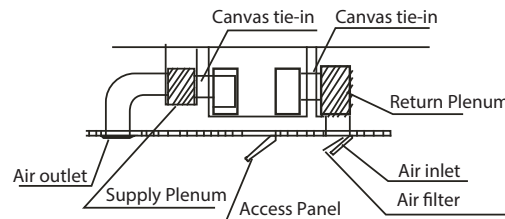

Fig. 23 — Installing Duct

OUTSIDE AIR CONNECTION

If needed, a knockout for the outside air duct connection is located on the side of the unit downstream of the air filter. Follow the recommendation to field supply and field install a booster fan on the duct work used for outside air. A relay to energize a booster fan may be powered by the connection on the PCB board CN43. This connection is 230 volt AC and rated for 200 watts.

NOTE: The manufacturer recommends **NOT** powering the fan motor by this circuit.

The output of the NEW FAN (CN43) is powered **ON** while the indoor fan is active.

NOTE: The amount of outside air is dependent upon different factors such as the booster fan, outside air duct work type and length, static pressure, etc. Refer to the local IAQ specifications for the outdoor air quantities and control.
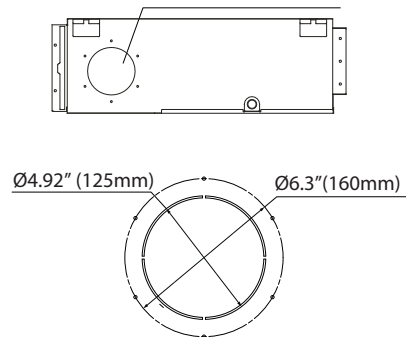

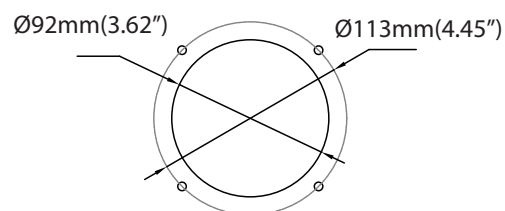**Fig. 24 — Outside Air Connection Sizes 18K-58K**

Fig. 25 — Outside Air Connection Sizes 09K-12K

Specifications subject to change without notice.

Step 4 - Condensate Drain Installation

The condensate pipe is used to drain water away from the unit. Improper installation may cause unit and property damage. The unit is supplied with a drain adapter allowing the use of a field supplied 3/4 in. PVC Schedule 40 drain pipe. When installing the condensate piping, keep in mind the following details and follow these recommendations:

NOTE: When installing drains, be sure to adhere to the local sanitation codes.

- The ducted slim indoor unit is supplied with a condensate lift pump that is capable of lifting water 29.5in. (750mm).
- Ensure the highest point in the condensate piping is as close to the unit as possible (see Fig. 28).
- Ensure the condensate piping slopes downward in the direction of the condensate flow, with a minimum gradient of 1/100.
- When multiple units are connected to a common condensate drain, ensure the drain is large enough to accommodate the volume of condensate from all the units. Consider the recommendation to install an air vent in the condensate piping to prevent air lock.
- Do not install condensate piping where exposure to freezing temperatures is possible.
- To prevent the pipe from sagging, hangers should be spaced every 36 in (91.44cm). Be sure to follow local codes.
- If the drainpipe outlet is higher than the body's pump joint, provide a lift pipe for the indoor unit's exhaust outlet.
- Do not install the lift pipe higher than 21in. (55cm) from the center line of the pump outlet pipe. The distance between the unit and the lift pipe must be less than 8in (20cm). An incorrect installation could allow water to flow back into the unit and flood.
- To prevent air bubbles, keep the drain hose horizontal or slightly upward. See letter (A) Figure 28.

⚠ CAUTION

Insulate all piping to prevent condensation, which could lead to water damage.

If the drainpipe is bent or installed incorrectly, water may leak and cause a water-level switch malfunction.

In **HEAT** mode, the outdoor unit discharges water. Ensure that the drain hose is placed in an appropriate area to avoid water damage and slippage.

DO NOT pull the drainpipe forcefully. This could disconnect it.

1. Cover the drain hose with heat insulation to prevent condensation and leakage.
2. Attach the mouth of the drain hose to the unit's outlet pipe. Sheath the mouth of the hose and clip it firmly with a pipe clasp (see Fig. 26).
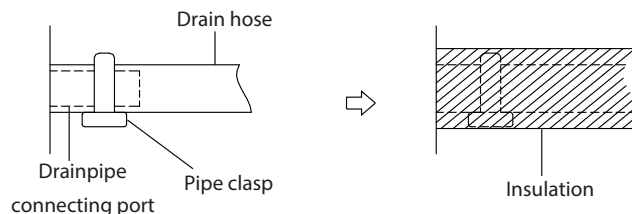

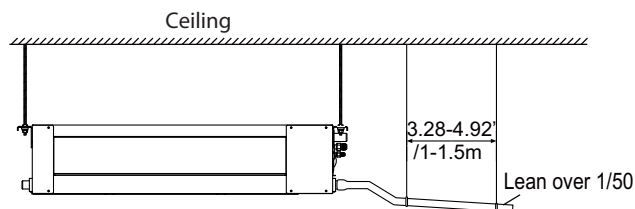
Fig. 26 — Indoor Drainpipe Installation

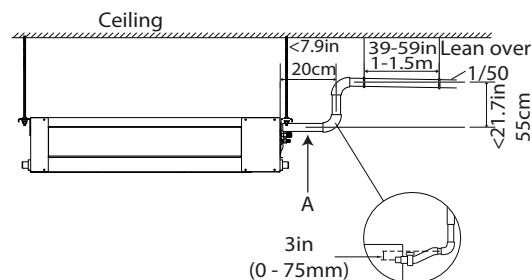**Fig. 27 — Condensate piping without a pump**

Fig. 28 — Condensate piping with a pump

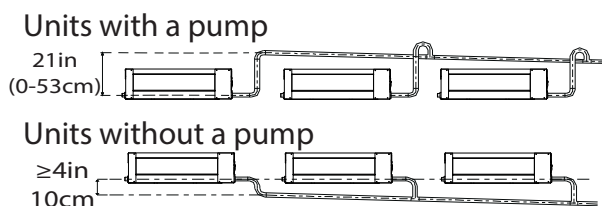When connecting multiple drainpipes, install the pipes as shown in Fig. 29.

Fig. 29 — Connecting Multiple Drain Pipes

3. Pass the drain hose through the wall hole. Ensure the water drains to a safe location where it will not cause water damage or a slipping hazard.

NOTE: The drainpipe outlet should be at least 2in (5cm) above the ground. If the outlet touches the ground, the unit may become blocked and malfunction. If you discharge the water directly into a sewer, make sure the drain has a U or S pipe to catch odors that might otherwise come back into the house.

CONDENSATE DRAIN AND CONDENSATE LIFT PUMP INSTALLATION (HORIZONTAL INSTALLATION)

For sizes 9, 12 and 18, the condensate lift pump is provided in a separate box. Use the following steps to install the External Condensate Lift Pump for a horizontal installation of the indoor unit.

NOTE: Drain connections A, B and C are covered with caps.

1. **For sizes 09K and 12K:**
   a. Remove the cap on the drainage outlet.
   b. Cut both ends of the rubber tubing provided into a straight one.
   c. Connect the drainage outlet and condensate lift pump using the rubber tubing and secure it with clamps on both ends (see Fig. 30).
   d. Plug the power cable of the external pump to CN13 / "PUMP" pin and plug the water level sensor cable to the CN5 / "WATER" to enable the pump (see Fig. 34).
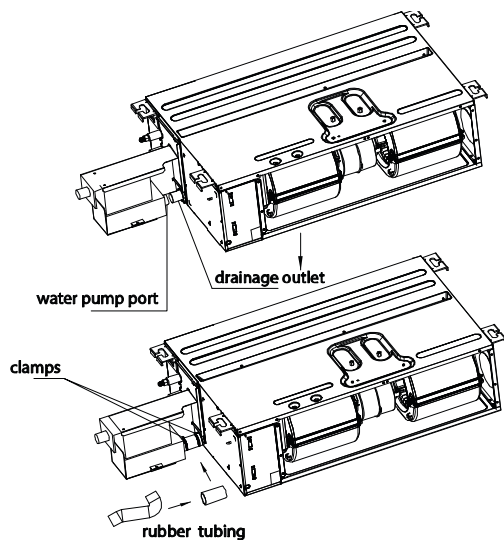
2. **For size 18K:**
   a. Remove the cap on drain connector B.
   b. Connect drain connector B and the condensate lift pump using the L rubber hose and secure it with clamps on both ends.
   c. Connect the drainpipe to connector D (see Fig. 31).
   d. Plug the power cable of the external pump to CN13 / "PUMP" pin and plug the water level sensor cable to CN5 / "WATER" to enable the pump (see Fig. 34).

3. **Sizes 24K, 36K, 48K and 58K have a built-in condensate lift pump.** Drain connections (A, B and C) are covered with caps.

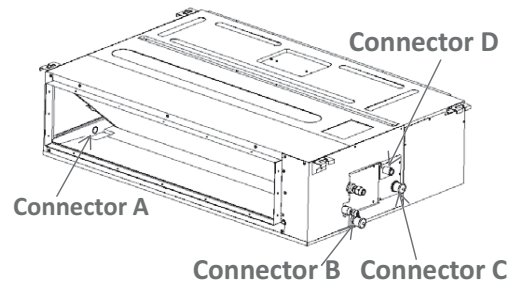Connect the drainpipe to connector D (see Fig. 32).

Fig. 32 — Connection of drain pipe to condensate lift pump sizes 24-58K

Disabling the Condensate Lift Pump

The pump must be disabled while the unit is installed vertically (upflow) or the lift pump assembly is removed from its original position:

- Open the Control Box assembly cover, unplug the "CN13 PUMP" pin to disable the pump function, and short-connect the "CN5 WATER" plug to disable the water level sensor by either splicing the wires coming out of the CN5 WATER plug or by using a jumper plug Replacement Component part number 17401204000333 (optional in some units otherwise sold separately) (see Figures 33 and 34).
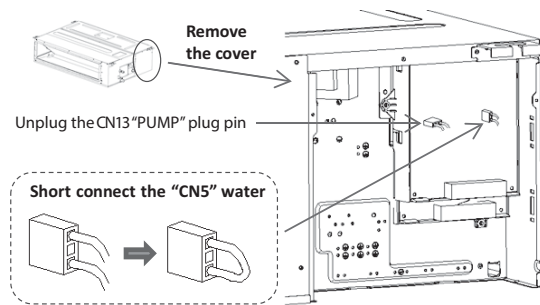

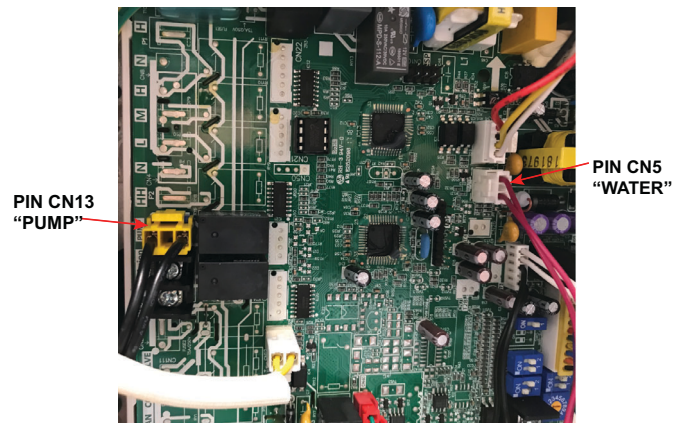**Fig. 33 — Disable condensate lift pump**

Fig. 34 — Condensate Lift Pump Connectors

Fig. 30 — Condensate lift pump installation sizes 09K−12K

Fig. 31 — Condensate lift pump installation size 18K

Remove the cap from connector C and connect the condensate drain pipe to drain connector C (see Fig. 36).

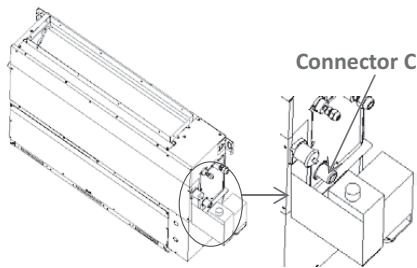**NOTE:** For size 18K, the external condensate lift pump should be removed (see Fig. 35).

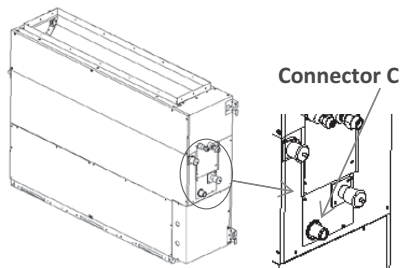**Fig. 35 — Sizes 9K, 12K, 18K with External Condensate Lift Pump**

Fig. 36 — Sizes 24K to 48K with Built-in Condensate Lift Pump

DRAINAGE TEST FOR UNITS WITHOUT A CONDENSATE LIFT PUMP

1. Ensure the drainpipe is unobstructed.
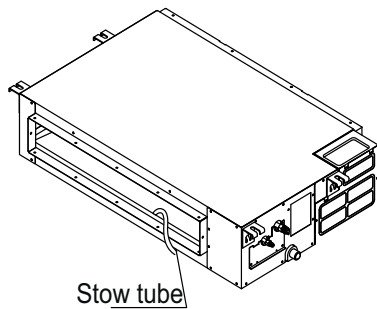2. Fill the drain pan with 0.5 gallons (2 liters) of water.

Fig. 37 — Units without a pipe

CONDENSATE LIFT PUMP AND DRAINAGE TEST

Follow these steps to perform the test:

1. Remove the test cover by rotating it counter-clockwise (see Fig. 38).
2. Using a piece of tubing or pipe to fill the condensate lift pump reservoir with 70 oz. of water (see Fig. 39).
3. Turn the unit **ON** in the **COOLING** mode and the condensate lift pump turns on. Watch the end of the drain pipe for any water.

NOTE: It may take some time for the water to travel, depending on the length of the drain pipe.

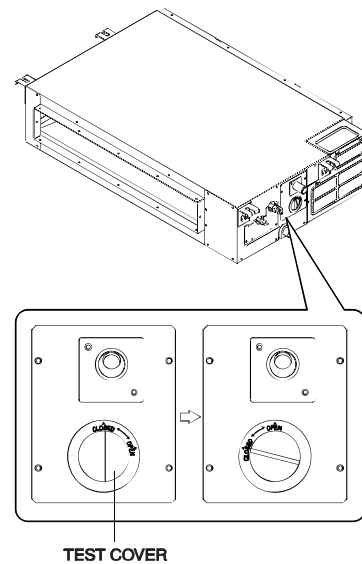4. During this test, check all bends or joints for leakage.
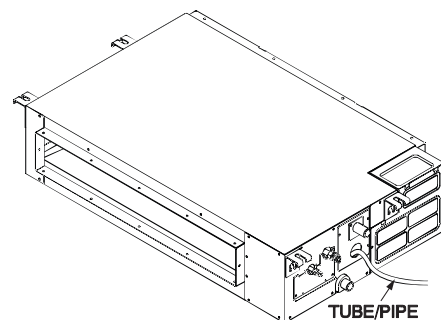

Fig. 38 — Check the Bends and Joints for Leakage

Fig. 39 — Tube Pipe Insert

Condensate Lift Pump Maintenance

1. Remove the four screws from the drain pump (sizes 24K to 48K).
2. Unplug the pump power supply and the water level switch cable.
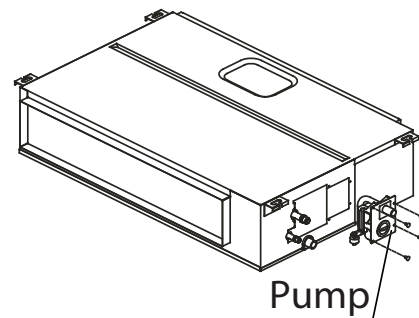3. Detach the pump.

Fig. 40 — Detach the Pump

Step 5 - Electrical Connections

Before proceeding with electrical connections, make certain that the supply voltage, frequency, phase, and ampacity are as specified on the unit rating plate. Review the unit wiring label for proper field high and low voltage wiring.

Ensure all electrical connections are in accordance with the NEC and any local codes or ordinances that may apply. Use copper wire only.

⚠ CAUTION

PROPERTY DAMAGE HAZARD

Failure to follow this caution may result in product or property damage.

If a disconnect switch is to be mounted on the unit, select a location where the drill or fastener will not contact electrical or refrigerant components.

⚠ WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death.

Field wires on the line side of the disconnect found in the fan coil unit remain live, even when the pull-out is removed.

Service and maintenance to incoming wiring cannot be performed until the main disconnect switch (remote to the unit) is turned off.

⚠ CAUTION

EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage or improper operation.

Size the wires in accordance with NEC and local codes.

---

1. Run a interconnecting wiring from the outdoor unit to the indoor unit.
2. Connect the wiring from the outdoor unit per the connection diagram (See Fig. 43 — on page 16 and See Fig. 44 — on page 16).
3. Prepare the cable for connection.
   a. Use wire strippers to strip the rubber jacket from both ends of the signal cable to expose roughly 5.9in(15cm) of wire.
   b. Strip the insulation from both ends of the wires.
   c. Use a wire crimper to crimp the u-lugs to the end of the wires.
4. Remove the electric control box cover of the indoor unit.
5. Connect the u-lugs to the terminals. Match the wire colors/labels with the labels on the terminal block. Firmly screw the u-lug of each wire to its corresponding terminal. Refer to the serial number and wiring diagram located on the cover of the electric control box.
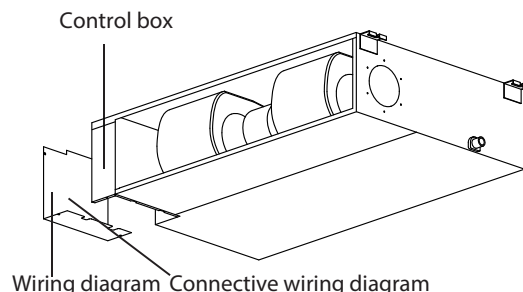

Fig. 41 — Control Box

Ferrite Core (Magnetic Ring) - If supplied and packed with the accessories, wrap the signal wires between the indoor unit and outdoor unit after installation and around the Ferrite core twice.
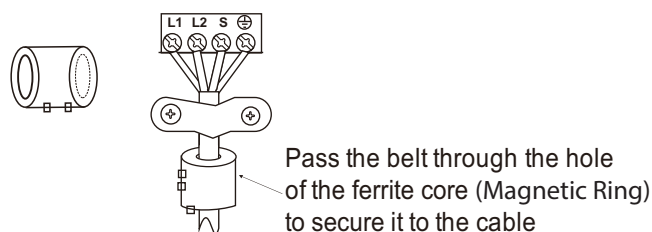

Fig. 42 — Ferrite Core (Magnetic Ring)

6. Clamp the cable with the cable clamp. Ensure the cable is not loose as to not pull on the u-lugs.

7. Replace the indoor unit field wiring cover.

Specifications subject to change without notice.

WIRING

Size all wires per the NEC (National Electrical Code) or CEC (Canadian Electrical Code) and local codes. Use the electrical data from the outdoor unit (MCA - minimum circuit amps and MOCP - maximum over current protection), to correctly size the wires and the disconnect fuse or breakers respectively.

SIZES 09-24 RECOMMENDED CONNECTION METHOD FOR POWER AND COMMUNICATION WIRING

Power and Communication Wiring: The main power is supplied to the outdoor unit. The field supplied 14/3 power/communication wiring, from the outdoor unit to the indoor unit, consists of four (4) wires and provides the power for the indoor unit. Two wires are high voltage AC power, one is communication wiring and the other is a ground wire.

To minimize communication interference: If installed in a high Electromagnetic field (EMF) area and communication issues arise, a 14/2 stranded shielded wire can be used to replace L2 and (S) between the outdoor and indoor units - landing the shield onto the ground in the outdoor unit only.

Table 7 — Wiring Sizes 09-24

CABLE	CABLE SIZE	REMARKS
Connection Cable	14AWG	3 wire + Ground 1Φ 208/230 V (Stranded wire is recommended)

SIZES 36-58 RECOMMENDED CONNECTION METHOD FOR POWER AND COMMUNICATION WIRING

Power and Communication Wiring: The main power is supplied to the outdoor unit. The field supplied power wiring from the outdoor unit to the indoor unit consists of three (3) wires and provides the power for the indoor unit. Two wires are high voltage AC power and one is a ground wire. To minimize voltage drop, the factory recommended wire size is 14/2 stranded with a ground.

Communication Wiring: A separate shielded stranded copper conductor only, with a 600 volt rating and double insulated copper wire, must be used as the communication wire from the outdoor unit to the indoor unit.

Please use a separate shielded 16GA stranded control wire.

Table 8 — Wiring Sizes 36-58

CABLE	CABLE SIZE	REMARKS
Power Connection Cable	14AWG	2 wire + Ground 1Φ 208/230 V
Communication Cable	16AWG	2 wire stranded shielded control wire

⚠ CAUTION

EQUIPMENT DAMAGE HAZARD

Be sure to comply with local codes while running wire from the indoor unit to the outdoor unit.

Every wire must be connected firmly. Loose wiring may cause the terminal to overheat or result in a unit malfunction. A fire hazard may also exist. Ensure all wiring is tightly connected.

No wire should touch the refrigerant tubing, compressor or any moving parts.

Disconnecting means must be provided and located within sight and readily accessible from the system.

Route the connecting cable with conduit through the hole in the conduit panel.

ELECTRICAL DATA

Table 9 — Electrical Data

UNIT SIZE		INDOOR FAN			MAX FUSE CB AMP
	V-PH-HZ	FLA	HP	W	
09		1.11	0.18	130	
12		1.11	0.18	130	
18		1.2	0.27	200	
24	208-230/1/60	1.2	0.27	200	Refer to outdoor unit installation instructions – Indoor unit powered by the outdoor unit
36		2.45	0.56	420	
48		3.2	0.75	560	
58		3.65	0.952	1,000	

CONNECTION DIAGRAMS
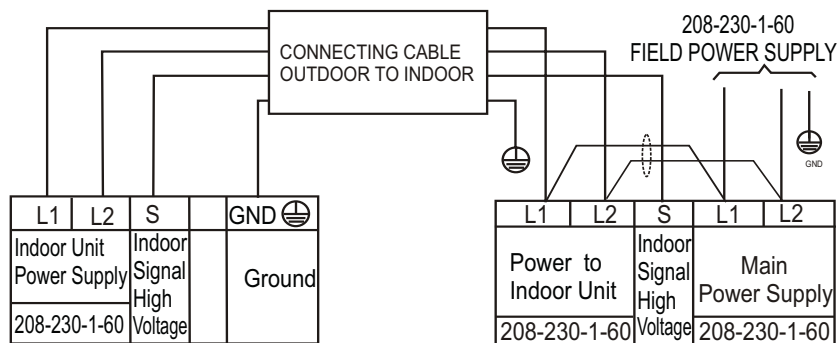
Fig. 43 — Connection Diagrams (sizes 09K to 24K)
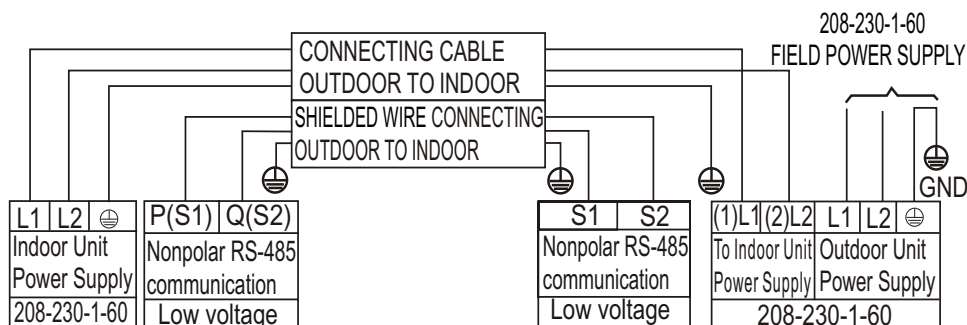
Fig. 44 — Connection Diagrams (sizes 36K and 58K)

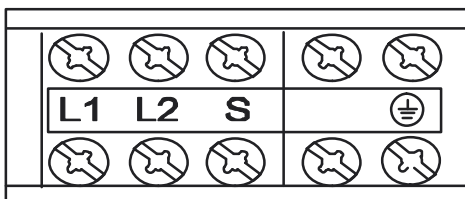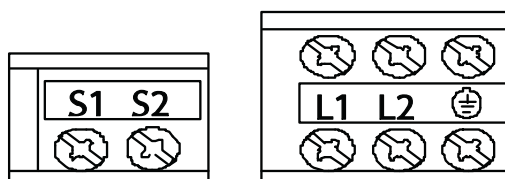**Fig. 45 — Control and Power Terminal on Indoor Unit (sizes 09K to 24K)**

Fig. 46 — Control and Power Terminals on Indoor Unit (sizes 36K to 58K)

Specifications subject to change without notice.

IM-40MBDQ-05

Step 6 - Refrigerant Piping

IMPORTANT: Both refrigerant lines must be insulated separately.

- The minimum refrigerant line length between the indoor and outdoor units is 10 ft. (3 m).
- Table 10 lists the pipe sizes for the indoor unit. Refer to the outdoor unit's installation instructions for the additional allowed piping lengths and refrigerant information.
- Refer to the outdoor unit's installation manual for details regarding the allowable pipe length and height difference.

Table 10 — Piping Size

		9K	12K	18K	24K	36K	48K	58K
Gas Pipe (Connection Size)	In (mm)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)	5/8 (16)	5/8 (16)	5/8 (16)	3/4 (19)
Liquid Pipe (Connection Size)	In (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)

Use the following steps to connect the refrigerant piping:

1. Run interconnecting piping from the outdoor unit to the indoor unit.
2. Connect the refrigerant piping and drain line outside the indoor unit. Complete the pipe insulation at the flare connection then fasten the piping and wiring to the wall as required. Completely seal the hole in the wall.
3. Piping:
   a. Cut the pipe, with a pipe cutter, at 90 degrees (see Fig. 47).
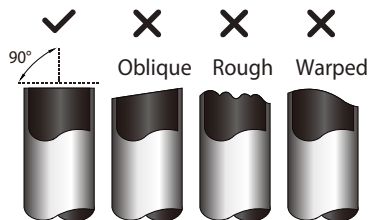   b. Remove the service connection (if provided with the unit).

Fig. 47 — Pipe Cutting

   c. Remove all the burrs from the cut cross section of the pipe, avoiding any burrs from inside the tubes.
   d. Remove the flare nuts attached to the indoor and outdoor units.
   e. Install the correct size flare nut onto the tubing and make the flare connection. Refer to Table 11 for the flare nut spaces.

Table 11 — Flare Nut Spacing

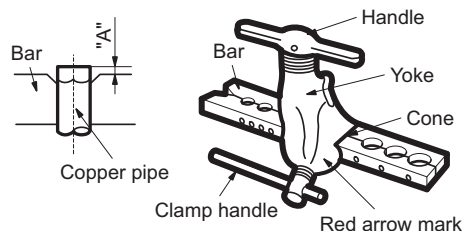| OUTER DIAM. (MM)	A (MM)	
	MAX.	MIN.
Ø 1/4"(6.35)	0.05(1.3)	0.03(0.7)
Ø 3/8"(9.52)	0.06(1.6)	0.04(1.0)
Ø 1/2"(12.7)	0.07(1.8)	0.04(1.0)
Ø 5/8"(15.88)	0.09(2.2)	0.08(2.0)

Fig. 48 — Flare Nut Spacing

   f. Apply a small amount of refrigerant oil onto the flare connection on the tubing.
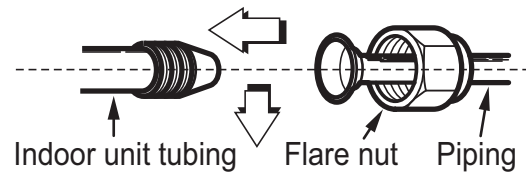   g. Align the center of the pipes and/or the service valve.

Fig. 49 — Align Pipe Center

   h. Connect both the liquid and gas piping to the indoor unit.
   i. Tighten the flare nut with a torque wrench (see Table 12).

Table 12 — Tightening Torque

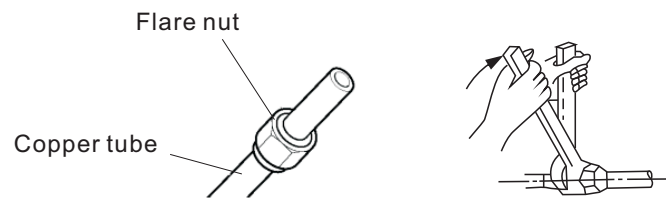| BRASS FLARE SIZE	RECOMMENDED SEATING TORQUE FOR BRASS FLARE NUTS	N-M
Ø1/4	8-10 Ft. - Lbs.	10.8 to 13.6
Ø3/8	15-18 Ft. - Lbs	20.3 to 24.4
Ø1/2	28-32 Ft. - Lbs	38.0 to 43.4
Ø5/8	38-42 Ft. - Lbs	51.5 to 56.9
Ø3/4	50-55 Ft. - Lbs.	68.0 to 74.6

Fig. 50 — Tighten the flare nut

4. Connect the drain line. Ensure there are absolutely no traps in the drain line anywhere in its length. Ensure the drain line pitches down and insulated up to the outside wall.

NOTE: For applications where gravity cannot be used for drainage, a condensate pump accessory is available. Consult the condensate pump installation instructions for more information.

> ⚠ **CAUTION**
>
> **UNIT DAMAGE HAZARD**
> Failure to follow this caution may result in equipment damage or improper operation.
> Never use the system compressor as a vacuum pump.

Refrigerant tubes and the indoor coil should be evacuated using the recommended 500 Microns Deep Vacuum method. The alternate Triple Evacuation Method may be used if the procedure outlined below is followed. Review the unit's service manual for the 500 Microns Deep Vacuum or the Triple Evacuation Method.

NOTE: Always break a vacuum with dry nitrogen.

Final Tubing Check

IMPORTANT: Ensure that certain factory tubing on both the indoor and the outdoor unit has not shifted during shipment. Ensure tubes are not rubbing against each other or any sheet metal. Pay close attention to feeder tubes, making sure wire ties on feeder tubes are secure and tight.

WIRELESS REMOTE CONTROLLER INSTALLATION

Mounting Bracket (if installed on the wall)

1. Use the two screws supplied with the remote controller to attach the mounting bracket to the wall in a location selected by customer and within the remote controller's operating range.
2. Install the batteries in the remote controller.
3. Place the remote controller into the remote control mounting bracket.
4. For remote controller operation, refer to the unit's owner manual.

NOTE: If a wireless remote controller is used, relocate the IR receiver within the line of sight of the remote location using the 6 ft. cable included. The factory location of the IR receiver is inside the remote controller box (see Fig. 51).
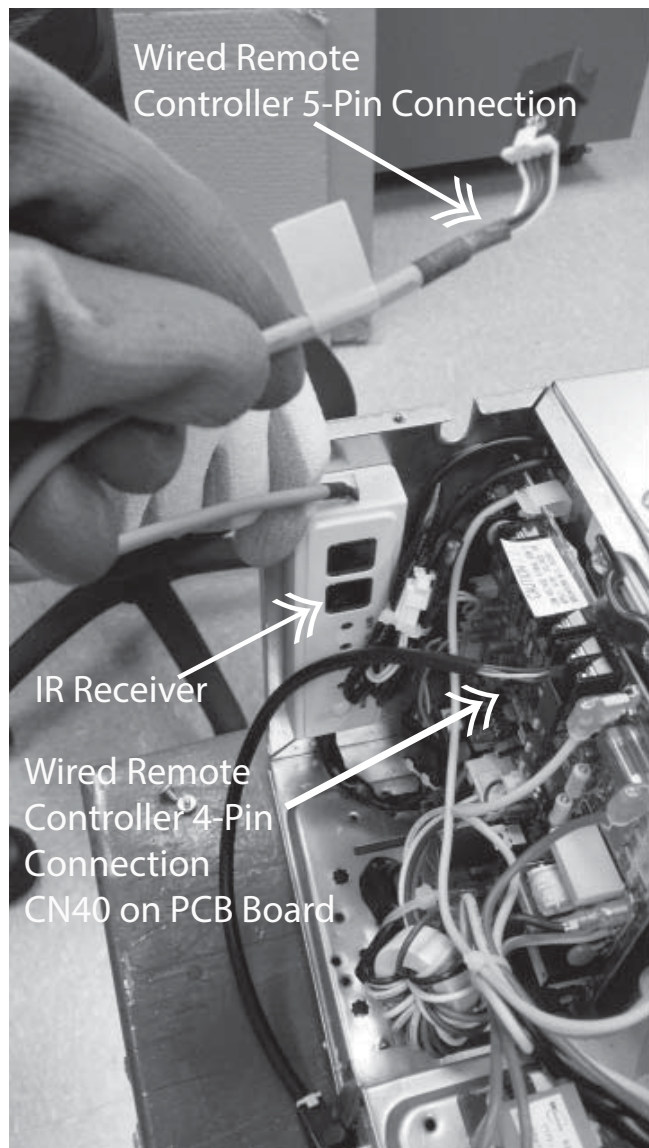
Fig. 51 — Control Box

WIRED REMOTE CONTROLLER INSTALLATION

To connect the included wired remote controller (7 Day Programmable KSACN0501AAA) to the indoor unit, the 4-pin adapter cable supplied with the controller and plug it into CN40 located on the control board.

To connect the wired remote controller (Timer Function KSACN0101AAA sold separately) to the indoor unit, use a 5−core shielded cable supplied with the wired controller to plug into the 5−pin connector from the IR receiver located in the control box (see figure 51).

For setup instructions, refer to the wired remote controller installation manual.

START−UP

Test Operation

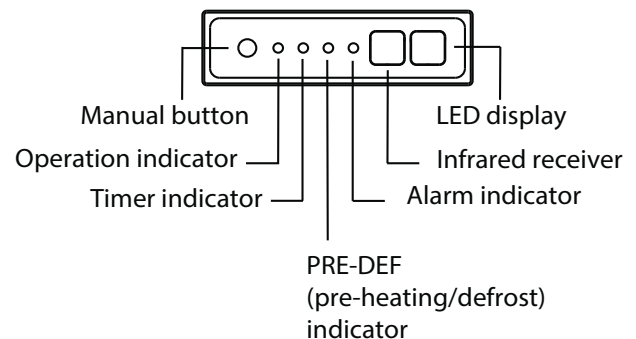After completing the gas leak and electrical safety check, perform the test operation (see Fig. 52).

Fig. 52 — IR Receiver Display Panel

IR Receiver Display Panel

1. Press **MANUAL** on the IR Receiver Display Panel located in the control box to begin testing.

NOTE: A protection feature prevents the system from starting for approximately 3 to 4 minutes.

2. Push **MODE**, select **COOLING**, **HEATING**, and **FAN** mode to verify that all the functions work as designed.
3. To run the test using the **MANUAL** option on the indoor unit:
   a. Open the front panel of the indoor unit;
   b. Press **MANUAL** once to energize the unit.
      The set conditions of the manual operation are as follows:

      • Preset the set point: 76°F (24°C)
      • Fan speed: **AUTO**
      • Discharge the air direction: Pre-set position based on an operation in the **COOL** or **HEAT** mode.

Set the **MANUAL** option to **OFF** (by pushing it twice again) after completing the test.

Specifications subject to change without notice.

Step 7 - Setting Static Pressure or Automatic Airflow

The indoor ducted units can be programmed for different static pressures settings or airflows and the factory default setting is SP1. Use the following steps to set the static pressure or **Automatic Airflow** using the Wired Remote Controller or the Wireless Remote Controller according to the installation conditions.

WHEN USING THE KSACN0501AAA WIRED CONTROLLER:

- The external static pressure can be manually changed to the fan curves SP1, SP2, SP3, SP4.
- Use the Automatic Airflow **"AF"** Adjustment function to automatically identify the static pressure and regulate the airflow amount.

Follow these instructions to configure:

1. Ensure the test run is done with a dry coil. If the coil is not dry, run the unit for 2 hours in the **FAN ONLY** mode to dry the coil.
2. Check that both the power supply wiring and the duct installation have been completed. Check that dampers are properly positioned. Check that the air filter is properly attached to the air inlet side passage of the unit.
3. If there is more than one air inlet and/or outlet, adjust the dampers so that the airflow rate of each air inlet and outlet conforms to the designed airflow rate. Ensure the unit is in **FAN ONLY** mode. Press and set the **Airflow Adjustment "AF"** on the remote controller to adjust the airflow rate from **H** to **L**. Turn the indoor unit **OFF** with the Wired Controller.
4. Set the parameters for airflow adjustment. When the system is **OFF**, perform the following steps:

   a. Press and hold **COPY** for approximately 4 seconds
   b. Press "+" or "-" to scroll through the menu and make a selection, either **SP** or **AF**.

NOTE: T1, T2, T2b, T3, T4 are sub-menus for thermistors. DO NOT select to set the external static pressure.
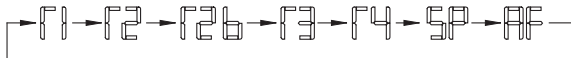

Fig. 53 — Wired Controller Menu Selection

1. If setting the external static pressure manually, select **SP** and press **CONFIRM**. Select the **SP** number (SP1, SP2, SP3, SP4 − see static pressure Table 13 and curves (Figs. 55 through 61)). Power down the unit to lock in the selection.
2. If choosing the **AUTOMATIC AIRFLOW ADJUSTMENT** function, select **AF** and press **CONFIRM**. The system starts the fan for the airflow automatic adjustment. The **ON** indicator flashes when the fan runs during the **AUTOMATIC AIRFLOW ADJUSTMENT**. After 3 to 6 minutes, the system stops operating once the **AUTOMATIC AIRFLOW ADJUSTMENT** is complete.
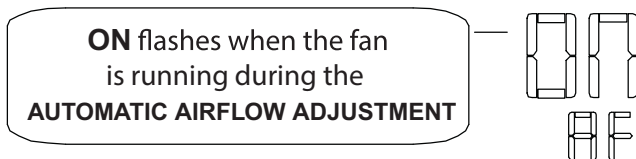

Fig. 54 — Automatic Airflow ON signal

NOTE: The external static pressure can also be selected using the wireless remote controller (RG57F3(B)/BGEFU1), included with the indoor unit, by pointing it toward the indoor unit's Infrared Receiver typically located inside the control box. Refer to the wireless remote controller service manual for further instructions.

> ⚠ **CAUTION**
>
> Do not use the **AUTOMATIC AIRFLOW ADJUSTMENT** with the remote control if using booster fans, an outdoor air processing unit, or a HRV via duct.
>
> If the ductwork or static pressure have been changed, reset the **AUTOMATIC AIRFLOW ADJUSTMENT** following steps 3 and 4.

WHEN USING THE 24V INTERFACE KSAIC**

The wireless remote controller, wired controllers KSACN** and Wi-Fi kits would be disabled. Since a wired controller is required to setup the static pressure of the indoor ducted units, the 24V interface must be temporarily bypassed using the steps below:

1. Turn off the power to the unit
2. On the 24V interface, disconnect the plugs from the CN11 (to Outdoor) and CN12 (to Indoor) connections.
3. Sizes:
   a. **For sizes 9K-24K only:** Add a jumper between the indoor S terminal to the outdoor S terminal.
   b. **For sizes 36K-58K only:** Disconnect S1 and S2 from the 24V interface (CN8 and CN9) and splice together **S1** from outdoor to **S1** from indoor and **S2** from outdoor to **S2** from indoor.
4. Connect the Wired Controller (KSACN0501AAA) and follow the external static pressure setup.
5. Once the static pressure is adjusted, disconnect the wired controller
6. **Sizes**:
   a. **For sizes 9K-24K only:** Remove the S jumper from the terminal block.
   b. **For sizes 36K-58K only:** Remove the splice and reconnect **S1** and **S2** back to the 24V interface accordingly.
7. Reconnect the plugs back to CN11 (to outdoor) and CN12 (to indoor) accordingly.
8. Restore power to the unit.

NOTE: When a system uses the 24V interface, the indoor unit's fan speed defaults to **AUTO** with the indoor unit's default logic.

> ⚠ **CAUTION**
>
> **DUCT SIZING**
>
> Duct work must be properly sized using the standard duct sizing program practices. Failure to do so could result in inadequate airflow to the target area. It is recommended to follow the standard practices listed on the ACCA Manual D for designing Duct Systems.

FAN PERFORMANCES AT VARYING STATIC PRESSURES

Table 13 — Static Pressure at the Rated Point and Static Pressure Range

SIZE	UNITS	SP1	SP2	SP3	SP4	STATIC PRESSURE RANGE
9	In. WG	0.068	0.104	0.128	0.176	0~0.20
	Pa	17	26	32	44	(0~50)
12	In. WG	0.064	0.10	0.136	0.20	0~0.20
	Pa	16	25	34	50	(0~50)
18	In. WG	0.096	0.168	0.288	0.392	0~0.40
	Pa	24	42	72	98	(0~100)
24	In. WG	0.10	0.216	0.336	0.528	0~0.64
	Pa	25	54	84	132	(0~160)
36	In. WG	0.168	0.312	0.48	0.62	0~0.64
	Pa	42	78	120	155	(0~160)
48	In. WG	0.18	0.404	0.616	0.64	0~0.64
	Pa	45	101	154	160	(0~160)
58	In. WG	0.296	0.416	0.584	0.8	0~0.80
	Pa	74	104	146	200	(0~200)
Factory Setting		√				

NOTE: The factory default setting is SP1.

Table 14 — Airflow at SP1 Setting

SYSTEM SIZE		9	12	18	24	36	48	58
High	CFM	337	397	557	955	1,233	1,576	2,481
Medium	CFM	228	295	453	689	964	1,348	1,931
Low	CFM	180	211	365	553	803	1,150	1,579

FAN PERFORMANCES AT VARYING STATIC PRESSURES (CONT.)

Air volume　m3/h(CFM)　SP1
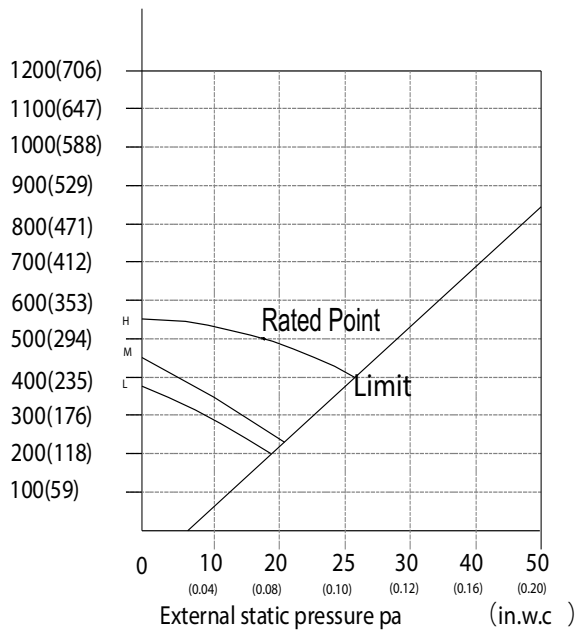
Air volume　m3/h(CFM　SP2
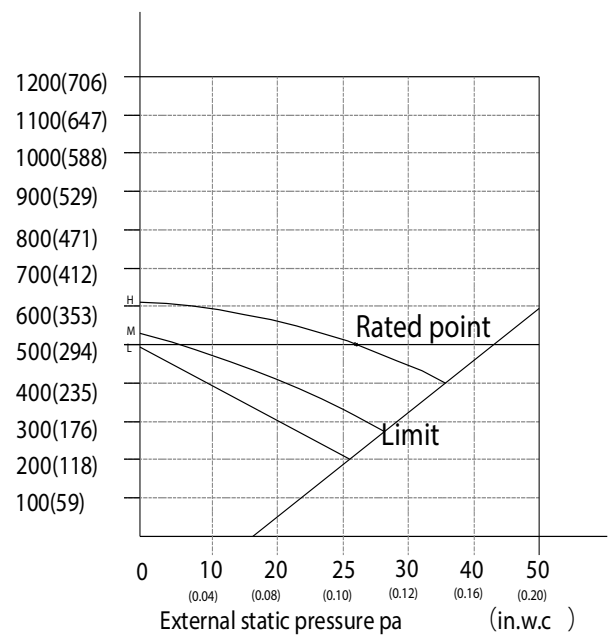
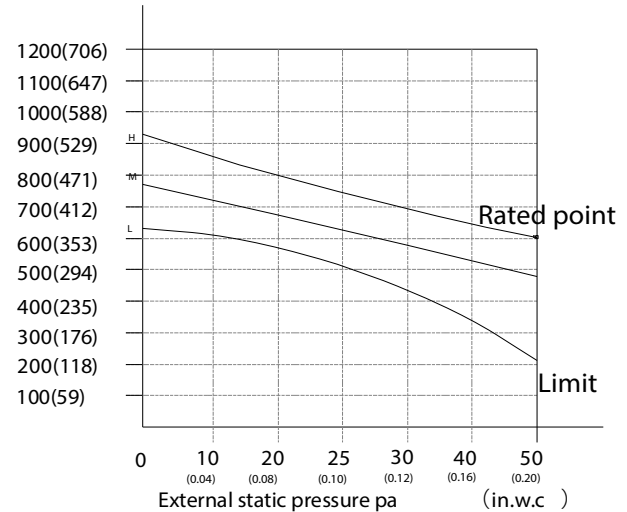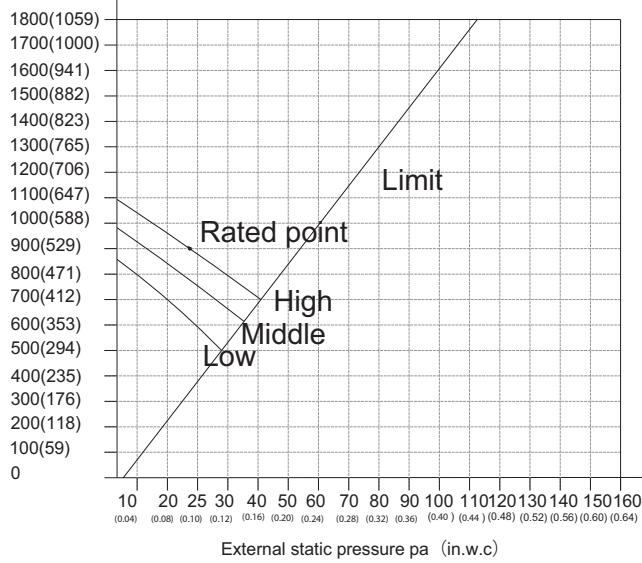Air volume　m3/h(CFM)　SP3
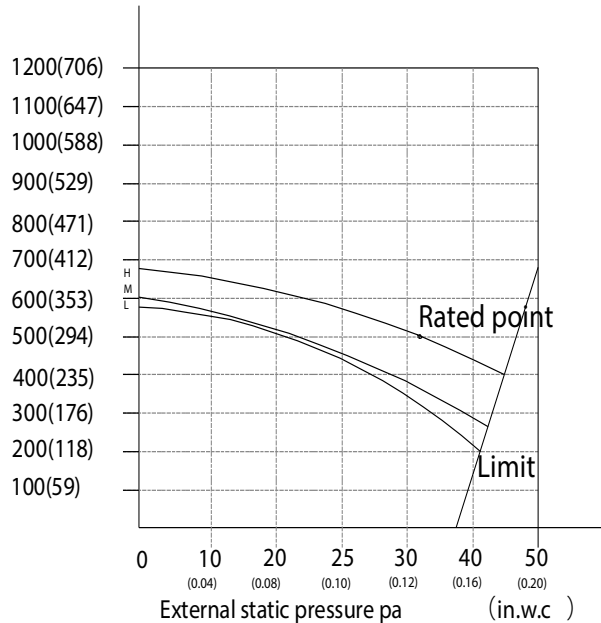
Air volume　m3/h(CFM)　SP4
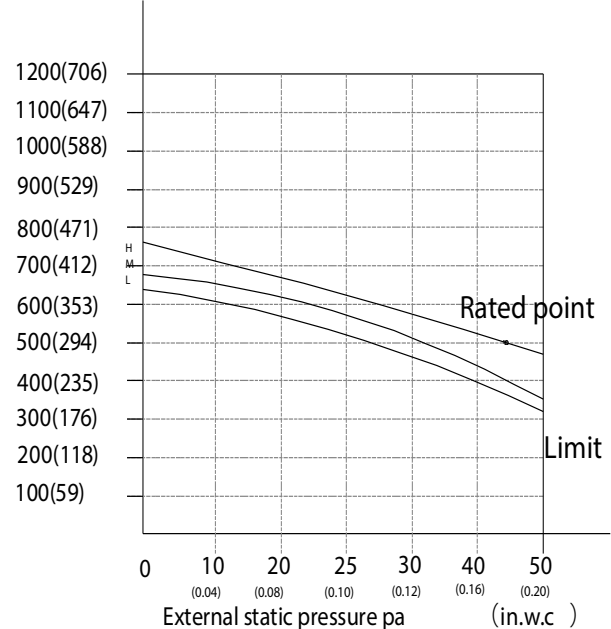
Fig. 55 — Fan Performance - Size 9

FAN PERFORMANCES AT VARYING STATIC PRESSURES (CONT.)

Air volume m3/h(CFM)   SP1
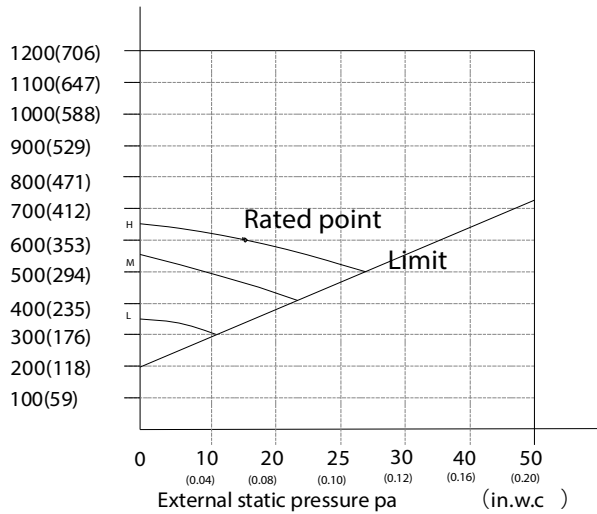
Air volume m3/h(CFM)   SP2
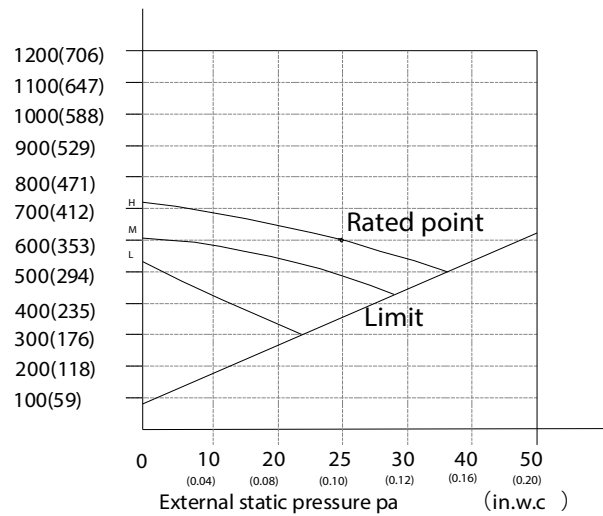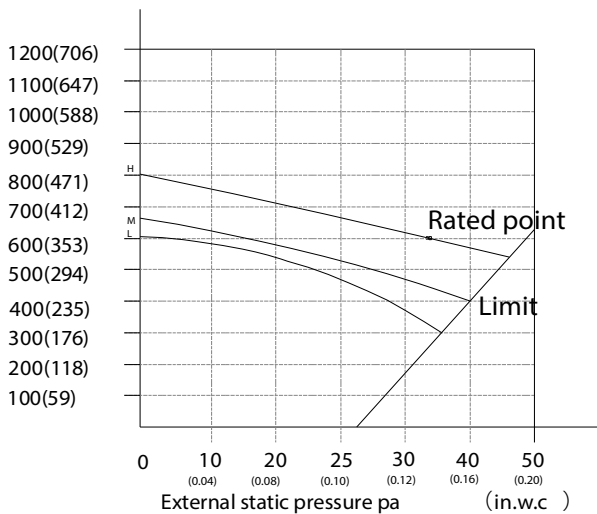
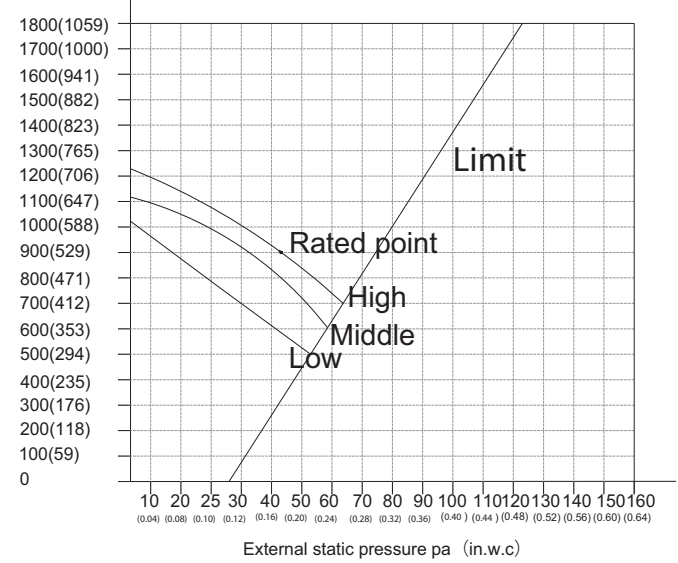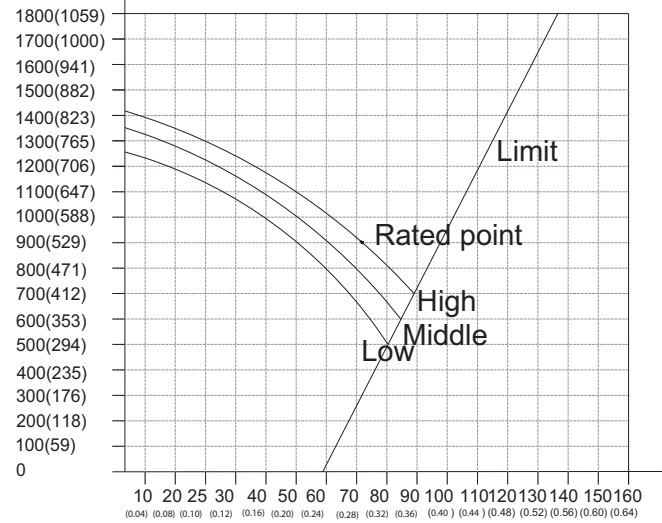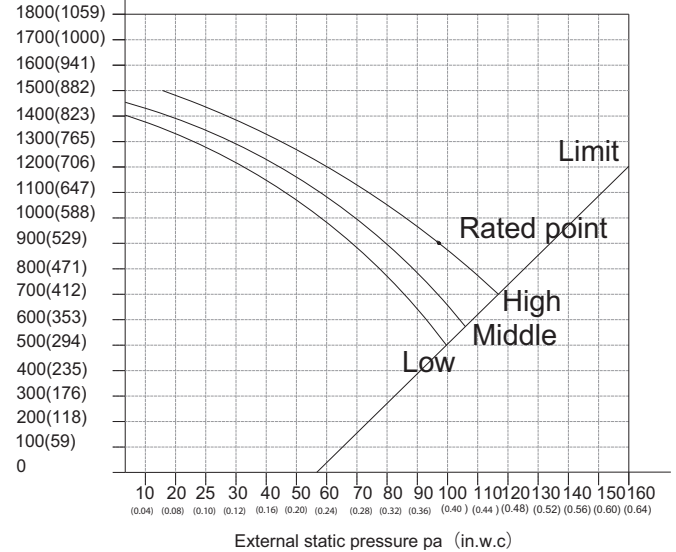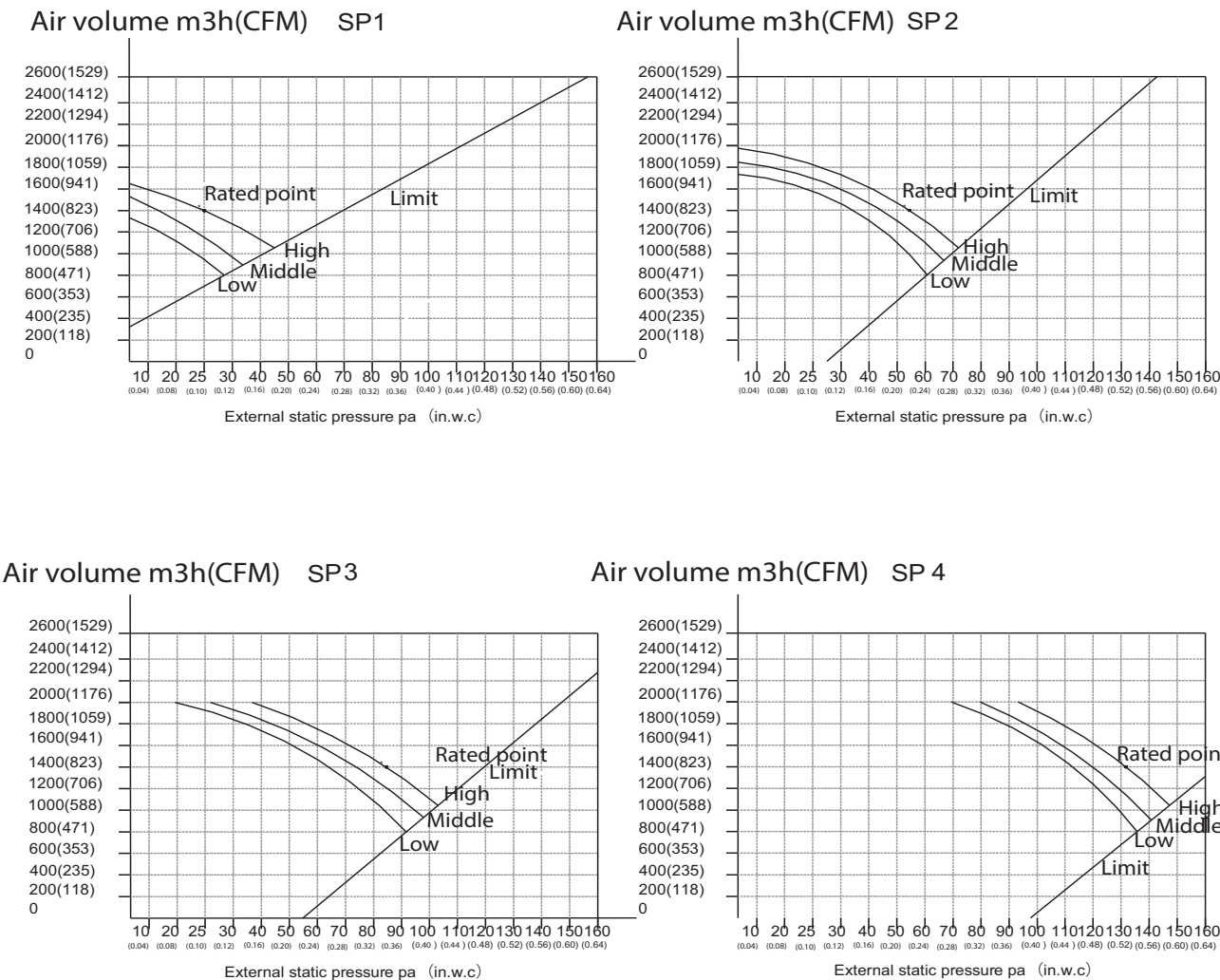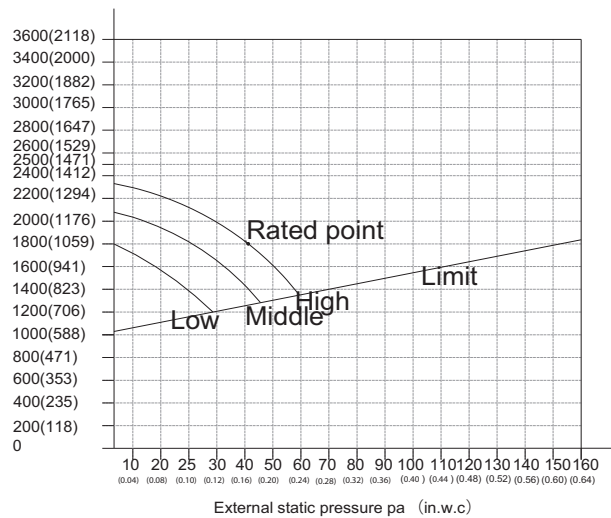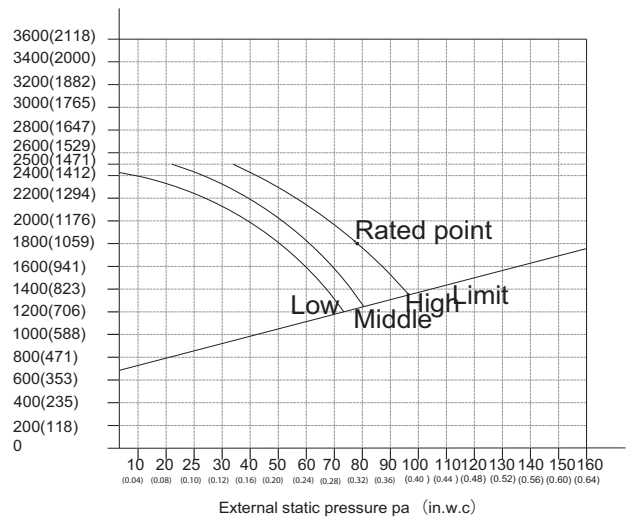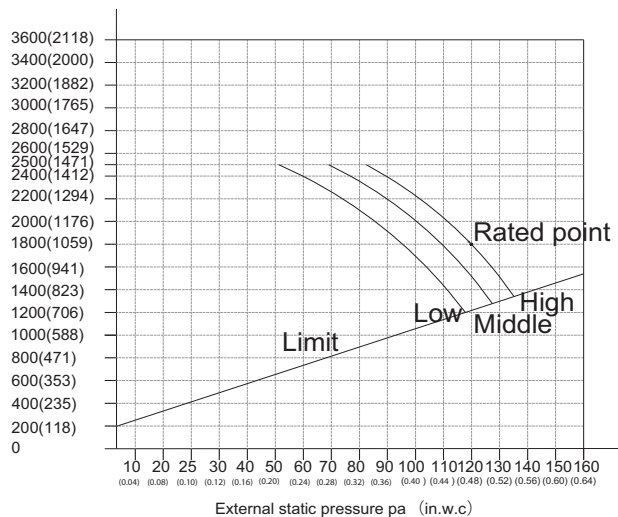Air volume m3/h(CFM)

Air volume   m3/h(CFM)

Fig. 56 — Fan Performance - Size 12

Specifications subject to change without notice.

FAN PERFORMANCES AT VARYING STATIC PRESSURES (CONT.)

Air volume m3h(CFM)   SP1

Air volume m3h(CFM)   SP2
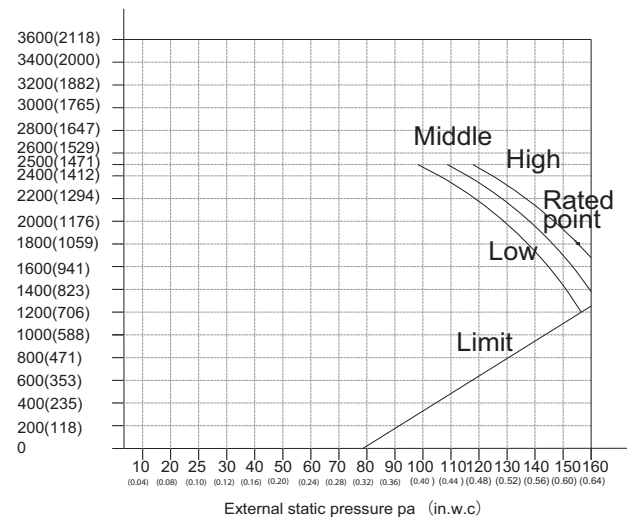
Air volume m3h(CFM) SP3

Air volume m3h(CFM) SP4

Fig. 57 — Fan Performance - Size 18

FAN PERFORMANCES AT VARYING STATIC PRESSURES (CONT.)

Air volume m3h(CFM) SP1

Air volume m3h(CFM) SP2
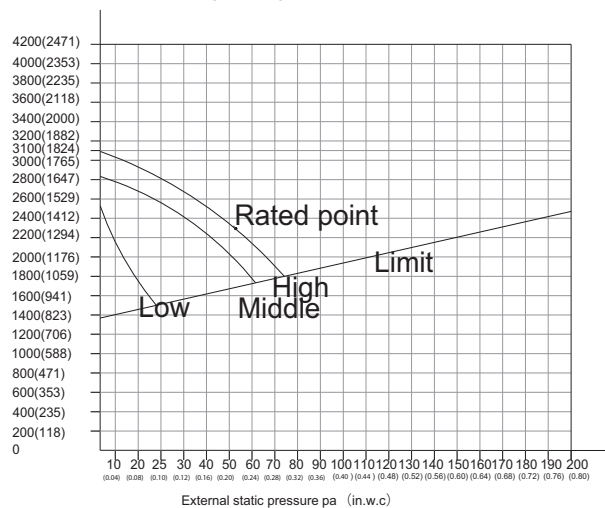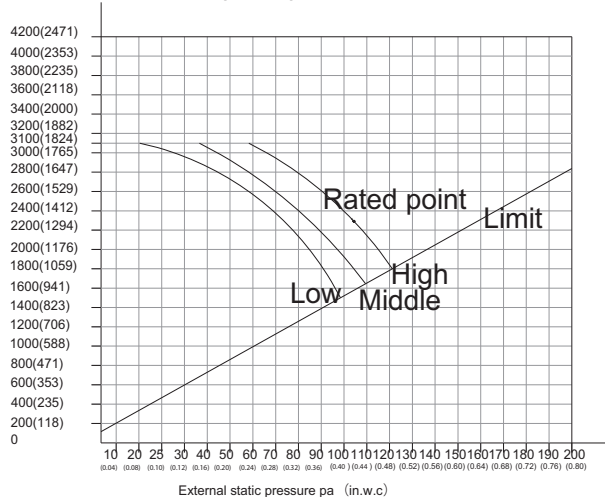
Air volume m3h(CFM) SP3

Air volume m3h(CFM) SP4

Fig. 58 — Fan Performance - Size 24

Specifications subject to change without notice.

IM-40MBDQ-05

FAN PERFORMANCES AT VARYING STATIC PRESSURES (CONT.)

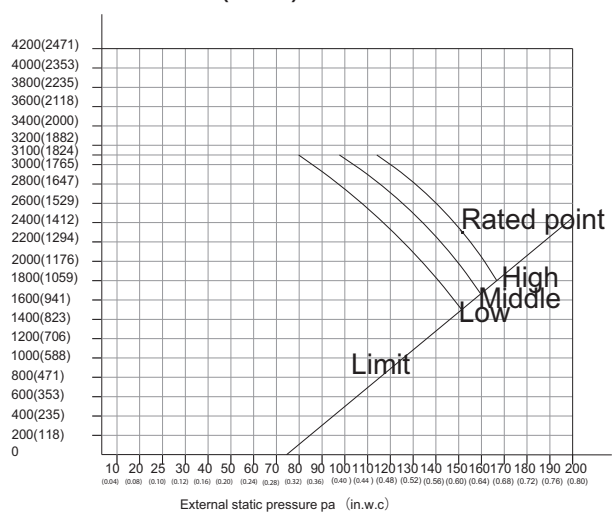Air volume m3h(CFM) SP1

Air volume m3h(CFM) SP2

Air volume m3h(CFM) SP3

Air volume m3h(CFM) SP4

Fig. 59 — Fan Performance - Size 36

FAN PERFORMANCES AT VARYING STATIC PRESSURES (CONT.)

Air volume m3h(CFM)   SP1

Air volume m3h(CFM)   SP2
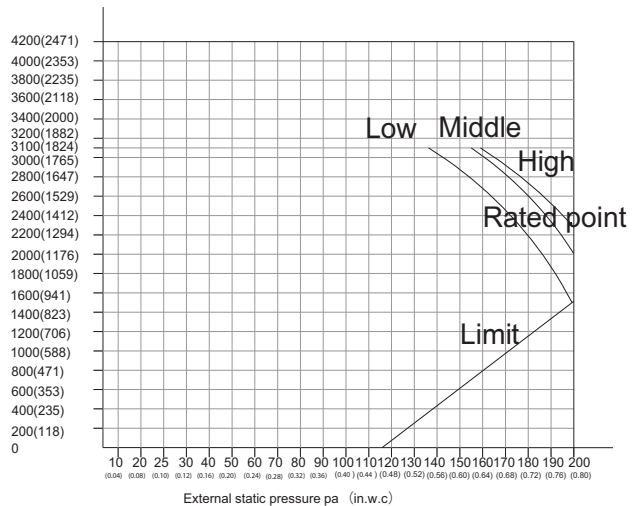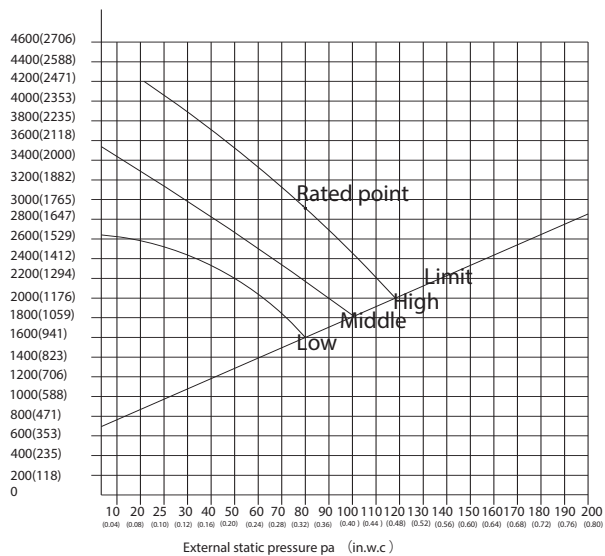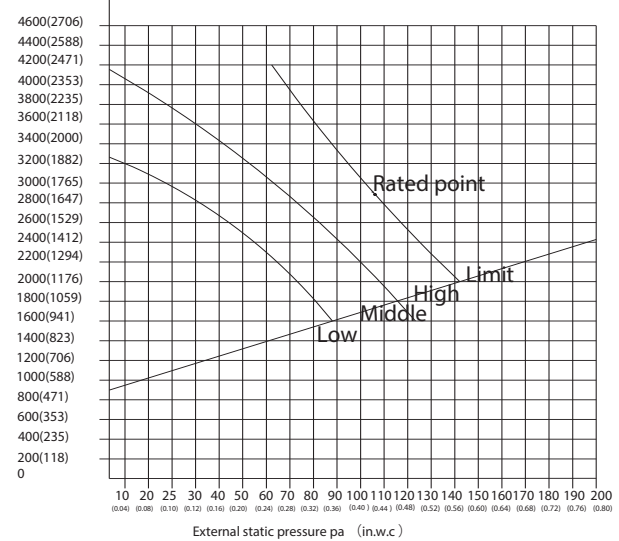
Air volume m3h(CFM)   SP3

Air volume m3h(CFM)   SP4

Fig. 60 — Fan Performance - Size 48

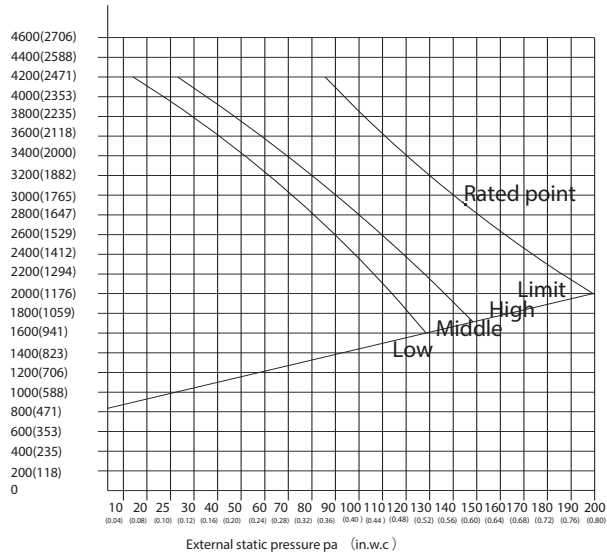Specifications subject to change without notice.

IM-40MBDQ-05

Air volume m3h(CFM) SP1

Air volume m3h(CFM) SP2

Air volume m3h(CFM) SP3

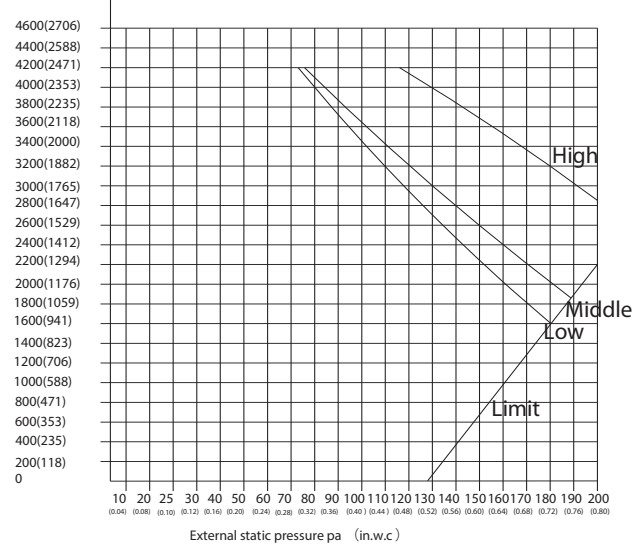**Air volume m3h(CFM) SP4**

Fig. 61 — Fan Performance - Size 58

SYSTEM CHECKS

1. Conceal the tubing where possible.
2. Ensure the drain tube slopes downward along its entire length.
3. Ensure all tubing and connections are properly insulated.
4. Fasten the tubes to the outside wall, when possible.
5. Seal the hole through which the cables and tubing pass.

INDOOR UNIT

1. Do all the remote controller buttons function properly?
2. Do the display panel lights work properly?
3. Does the air deflection louver function properly?
4. Does the drain work?

Explain the following items to customer (with the aid of the owner's manual):

1. How to turn the system **ON** and **OFF**;
2. How to select **COOLING**, **HEATING** and other the operating modes;
3. How to set a desired temperature;
4. How to set the timer to automatically start and stop the system's operation;
5. How to control all the other features of the remote controller and display panel.
6. How to remove and clean the air filter.
7. How to set the air deflection louver.
8. Unit care and maintenance.

Present the owner's manual and installation instructions to the customer.

CARE AND MAINTENANCE

To continue high performance and minimize possible equipment failure, it is essential that periodic maintenance be performed on this equipment. Consult your local dealer as to the proper frequency of maintenance contract.

The ability to properly perform maintenance on this equipment requires certain mechanical skills and tools. If you do not possess these, contact your dealer for maintenance. The only consumer service recommended or required is filter replacement or cleaning on a monthly basis.

FAN MOTOR MAINTENANCE

Sizes 09K-48K:

1. Remove the panel.
2. Remove the blower housing.
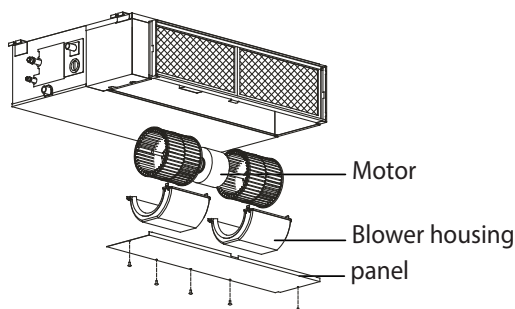3. Remove the motor.

Fig. 62 — Motor Maintenance sizes 09K-48K

Size 58K:

Two methods available:

1. Remove the front side plate from the top.
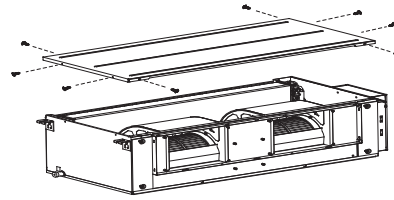   a. Remove the top cover.

Fig. 63 — Remove the top cover

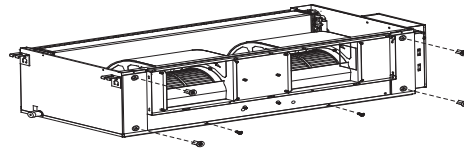   b. Loosen the four bolts and two screws that secure the front side plate.

Fig. 64 — Loosen the four bolts and two screws

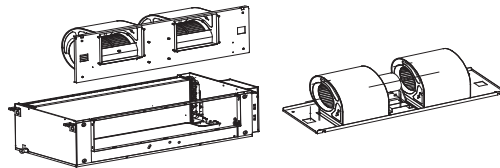   c. Remove the motor cord, take off the front side plate and repair the motor.

Fig. 65 — Remove the motor cord

2. Remove the front side plate from the bottom.
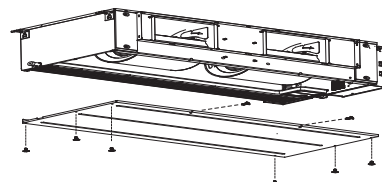   a. Remove the bottom base.

Fig. 66 — Remove the bottom base

   b. Loosen the four bolts and two screws that secure the front side plate. Be careful, the front side plate may fall down.
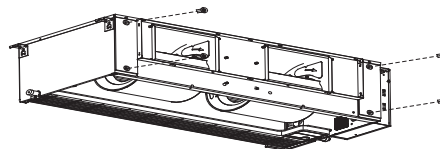

Fig. 67 — Loosen the four bolts

   c. Remove the motor cord, take off the front side plate and repair the motor.
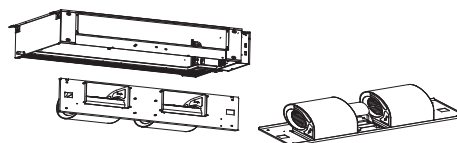

Fig. 68 — Remove the motor cord

Specifications subject to change without notice.

TROUBLESHOOTING

For ease of service, the systems are equipped with diagnostic code display LEDs on both the indoor and outdoor units. The outdoor diagnostic display consists of two LEDs (red and green) on the outdoor unit board and is limited to a few errors. The indoor diagnostic display is a combination of flashing LEDs on the display panel or the front of the unit. If possible, always check the diagnostic codes displayed on the indoor unit first before consulting a service technician.

The diagnostic codes, displayed in the indoor and outdoor units, are listed in Table 15.

INDOOR UNIT DIAGNOSTIC GUIDES

Table 15 — Indoor Unit Diagnostic Guides

OPERATION LAMP	TIMER LAMP	DISPLAY	LED STATUS
★ 1 time	X	E0	Indoor unit EEPROM parameter error
★ 2 times	X	E1	Indoor / outdoor units communication error
★ 8 times	X	EE	Water level alarm malfunction
★ 4 times	X	E3	Indoor fan speed is out of control
★ 5 times	X	E4	Indoor room temperature sensor T1 open circuit or short circuit
★ 6 times	X	E5	Evaporator coil temperature sensor T2 open circuit or short circuit
★ 9 times	X	E8	Dual indoor unit (twin model only) communication malfunction
★ 10 times	X	E9	Other twin model malfunction
★ 7 times	X	EC	Refrigerant leakage detection
★ 1 time	O	F0	Overload Protection
★ 11 times	O	Fa	Indoor unit communication malfunction
★ 2 times	O	F1	Outdoor ambient temperature sensor T4 open circuit or short circuit
★ 3 times	O	F2	Condenser coil temperature sensor T3 open circuit or short circuit
★ 4 times	O	F3	Compressor discharge temperature sensor T5 open circuit or short circuit
★ 5 times	O	F4	Outdoor unit EEPROM parameter error
★ 6 times	O	F5	Outdoor fan speed is out of control
★ 7 times	O	F6	Compressor low-pressure protection
★ 1 time	«	P0	IPM malfunction or IGBT over-strong current protection
★ 2 times	«	P1	Over voltage or over low voltage protection
★ 3 times	«	P2	High temperature protection of compressor top diagnosis and solution (9K,12K models only)
★ 4 times	«	P3	Outdoor low temperature protection
★ 5 times	«	P4	Inverter compressor drive error
★ 7 times	«	P6	Compressor low-pressure protection
★ 8 times	«	P7	Outdoor IGBT sensor error

O (light) X (off) «(flash)

For additional diagnostic information, refer to the indoor unit service manual.

ADVANCED SERVICE AND INSTALLATION FUNCTIONS

Refer to the Wireless Remote Controller service manual for access to advanced functions such as:

- Auto-Start
- Temperature Compensation
- Filter Reminder
- Indoor Fan Motor Speed Control (after set temperature is reached)
- Lowest or Highest Temperature Setting
- Static Pressure Setting

All changes should be performed **ONLY** by authorized professionals.