38GXM / 40GXM
Multi–Split High–Wall Duct Free Split System
38GXM – Size 18k, 24k, and 30k
40GXM – Size 9k, 12k, and 18k

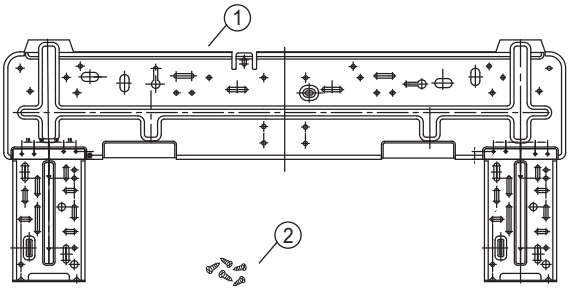
Installation Instructions

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

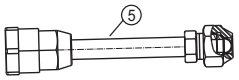
TABLE OF CONTENTS

PARTS LIST

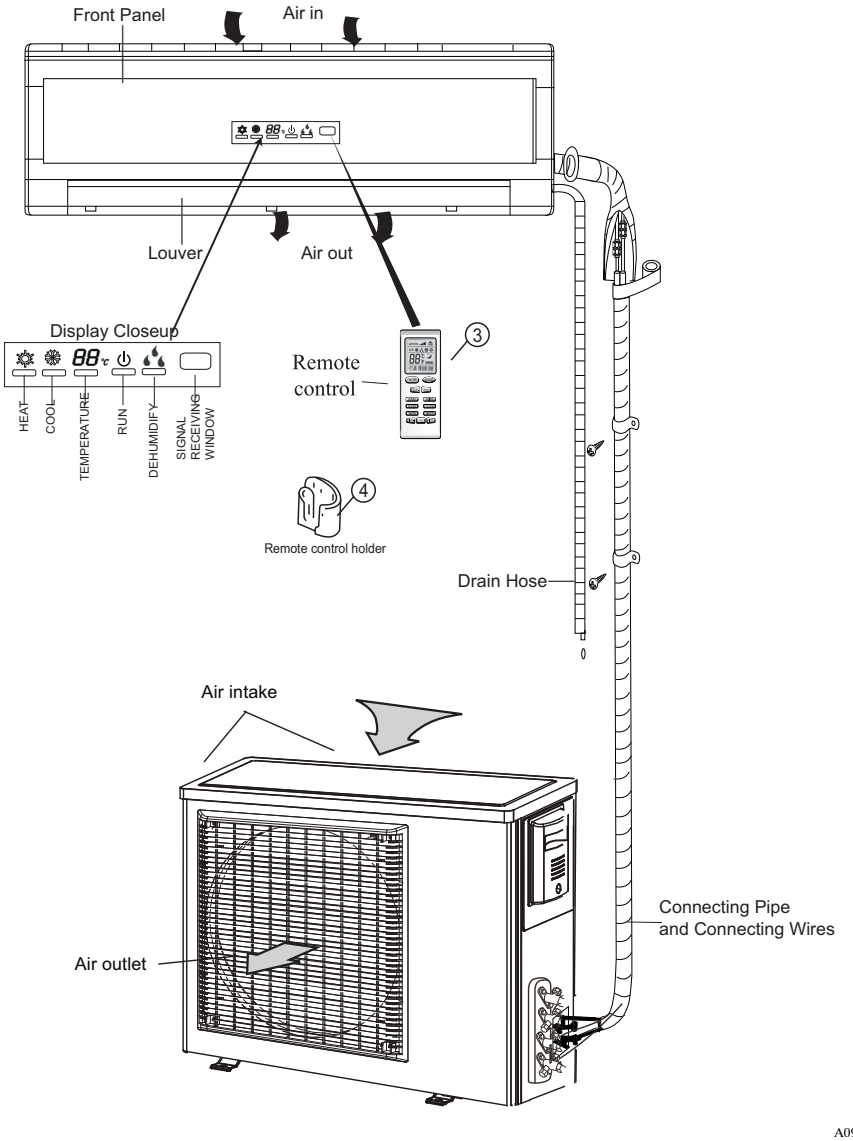
Part No.	Part Name	Qty
1	Mounting Plate	1
2	Mounting Screws	5
3	Remote Control	1
4	Remote Control Holder	1
5	Conversion Joint	Varies. See CJ Table



A09655a



A09653



A09652

Fig. 1 – 38GXC(M) / 40GXC(M) 018, 024 & 030 Parts List

SAFETY CONSIDERATIONS

Installing, starting up, and servicing air-conditioning equipment can be hazardous due to system pressures, electrical components, and equipment location (roofs, elevated structures, etc.).

Only trained, qualified installers and service mechanics should install, start-up, and service this equipment.

Untrained personnel can perform basic maintenance functions such as cleaning coils. All other operations should be performed by trained service personnel.

When working on the equipment, observe precautions in the literature and on tags, stickers, and labels attached to the equipment.

Follow all safety codes. Wear safety glasses and work gloves. Keep quenching cloth and fire extinguisher nearby when brazing. Use care in handling, rigging, and setting bulky equipment.

Read these instructions thoroughly and follow all warnings or cautions included in literature and attached to the unit. Consult local building codes and current editions of the National Electrical Code (NEC) NFPA 70. In Canada, refer to current editions of the Canadian electrical code CSA 22.1.

Recognize safety information. This is the safety-alert symbol ⚠ . When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.Understand these signal words: DANGER, WARNING, and CAUTION. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which **will** result in severe personal injury or death. WARNING signifies hazards which **could** result in personal injury or death. CAUTION is used to identify unsafe practices which **may** result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

⚠ WARNING

ELECTRICAL SHOCK HAZARD

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

Before installing, modifying, or servicing system, main electrical disconnect switch must be in the OFF position. There may be more than 1 disconnect switch. Lock out and tag switch with a suitable warning label.

⚠ 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 system shutdown. This causes refrigerant slugging and could possibly damage the compressor at start-up.

GENERAL

These instructions cover the installation, start-up and servicing of the 38GXM outdoor unit connected to up to four 40GXM indoor high wall units. For approved combinations, please refer to the Product Data.

SYSTEM REQUIREMENTS

Allow sufficient space for airflow and servicing unit. See Fig. 2 and 3 for minimum required clearances.

Piping

IMPORTANT: **Both refrigerant lines must be insulated separately.**

- Minimum refrigerant line length between the indoor and outdoor units is 10 ft. (3 m).
- The following maximum lengths are allowed:

REFRIGERANT LINE LENGTHS ft (m)			
Unit Size	**18 K**	**24 K**	**30 K**
Total Piping	124 (38)	124 (38)	230 (70)
Max Pipe Length to Any One FCU	82 (25)	82 (25)	82 (25)
Max Elevation (ID over OD)	49 (15)		
Max Elevation (OD over ID)	33 (10)		

- The following are the piping sizes.

UNIT SERVICE VALVE SIZE*		
Unit Size	**Mix Phase**	**Vapor**
18 & 30 K	1/4”	3/8”
24 K	1/4”	1/2”

* Unit can have 2 or 4 service valves with the same pipe sizes

CONVERSION JOINTS		
Model	**Qty. and Type**	**When Used**
38GXM218---3	1 x (3/8 to 1/2)	Connecting Size 12 K FCU
38GXM224---3	2 x (1/2 to 3/8)	Connecting Size 9 K FCU
38GXM430---3	3 x (3/8 to 1/2)	Connecting Size 12 or 18 K FCU

Refrigerant Charge

REFRIGERANT CHARGE	
Unit Size	**Charge Weight lb. (kg)**
18 K	3.5 (1.6)
24 K	5.5 (2.5)
30 K	7.3 (3.3)

- Above charge is for piping runs up to 50 ft. (15 m) per system for sizes 18 and 24 and 100 ft (30 m) per system for size 30.
- **For piping runs greater than those listed above, add 0.23 oz for size 18, 0.17 oz for size 24, and 0.54 oz for size 30 of refrigerant per foot of extra piping up to the allowable length.**
- Electronic expansion valves in the outdoor unit are used as metering devices.

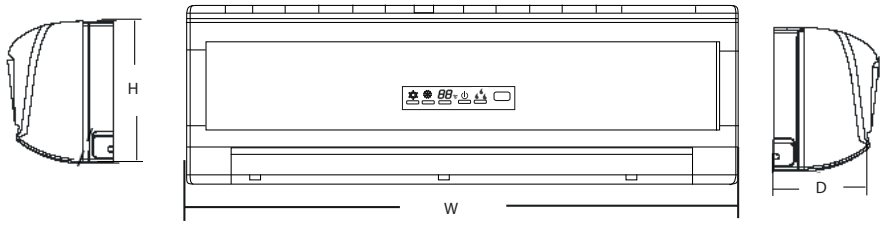
Connecting (Power and Control Cable)

- The main power is supplied to the outdoor unit. The field supplied connecting cable from the outdoor unit to indoor unit consists of four wires and provides the power for the indoor unit as well as the communication signal and ground between the outdoor and indoor unit.
  Two wires are high voltage AC power, one is high voltage controls and one is a ground wire.
- Consult local building codes, NEC (National Electrical Code) or CEC (Canadian Electrical Code) for special requirements.

UNIT SIZE	POWER SOURCE	MIN. CKT AMP MAX FUSE/CB AMP
18k	208/230–1–60	14/20
24k	208/230–1–60	20/30
30k	208/230–1–60	24/40

- **Connecting Cable:** Voltage drop on the connecting cable should be kept to a minimum. **Do not use thermostat wire**. Use minimum 14AWG 4 conductor cable (solid or stranded).

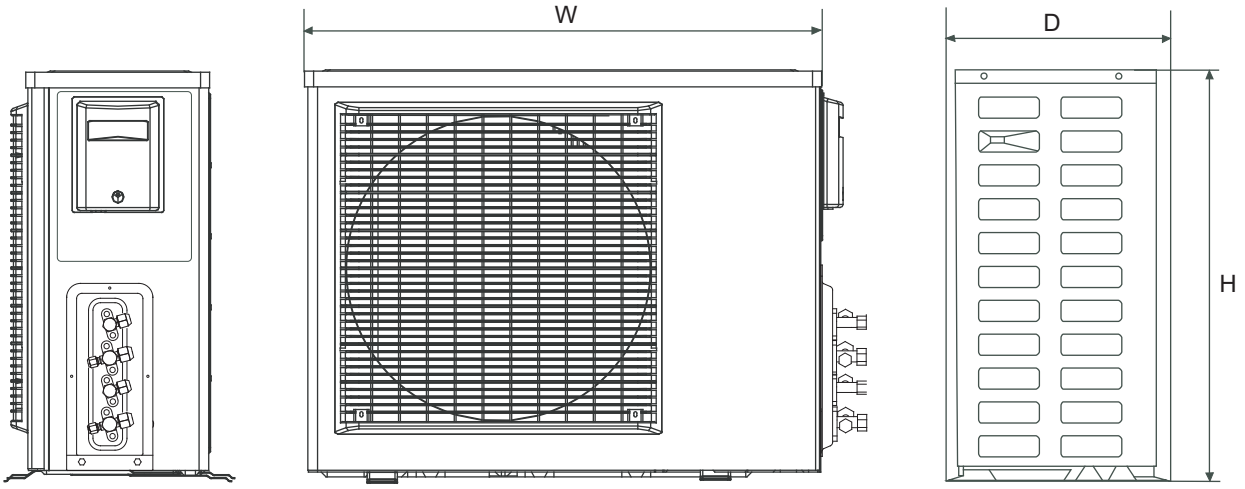
DIMENSIONS - INDOOR



A08289

Unit Size	W In. (mm)	H In. (mm)	D In. (mm)	Net Operating Weight Lbs. (Kg)
9k	30.3 (770)	9.8 (249)	7.84 (199)	18.7 (8.5)
12k	32.7 (831)	11.2 (284)	8.9 (226)	24.2 (11)
18k	40.2 (1021)	12.2 (310)	9.0 (229)	28.6 (13)

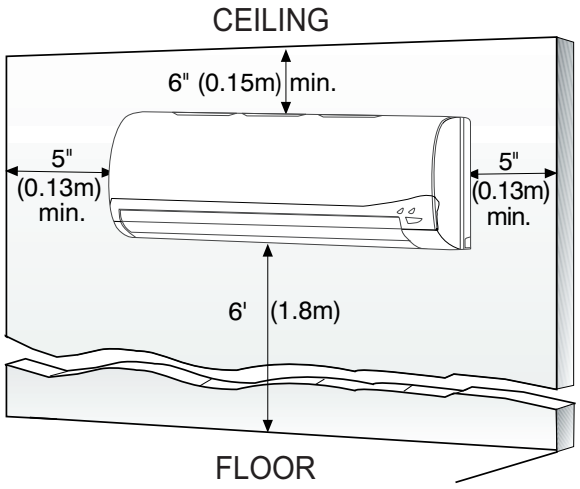
DIMENSIONS - OUTDOOR



A08290

Unit Size	W In. (mm)	D In. (mm)	H In. (mm)	Net Operating Weight Lbs. (Kg)
18k	33.3 (846)	11.8 (300)	27.0 (685)	114.4 (52)
24k	37.4 (950)	16.5 (420)	33.1 (840)	150.0 (68)
30k	37.4 (950)	16.5 (420)	33.1 (840)	165.0 (75)

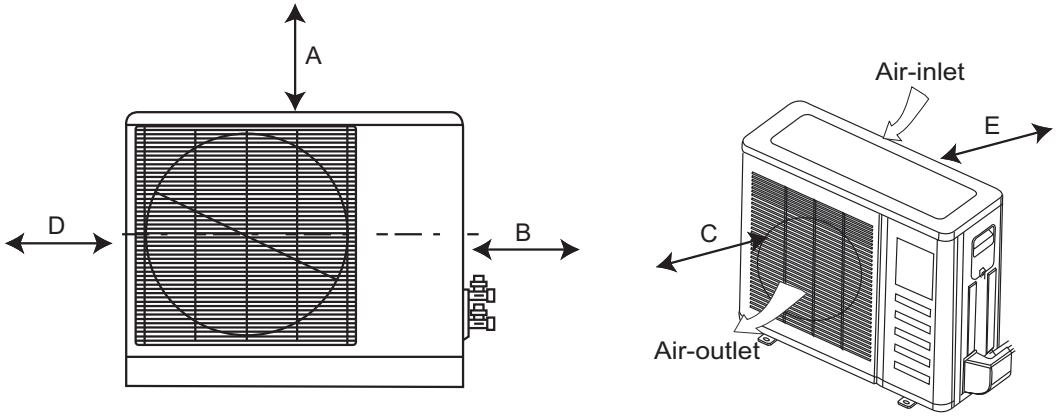
CLEARANCES - INDOOR



A07891

Fig. 2 – Indoor unit clearance

CLEARANCES - OUTDOOR



A07894

UNIT	12k in. (mm)
A	20 (508)
B	20 (508)
C	24 (610)
D	12 (305)
E	24 (610)

Fig. 3 – Outdoor Unit Clearance

INSTALLATION GUIDE

Up to four fan coil units can be connected to one outdoor unit. Refer to the Product Data for approved combinations.

Ideal installation locations include:

Each Indoor Unit

- A location where there are no obstacles near inlet and outlet area.
- A location which can bear the weight of indoor unit.
- Do not install indoor units near a direct source of heat such as direct sunlight or a heating appliance.
- A location which provides appropriate clearances as outlined in Fig. 2.

Outdoor Unit

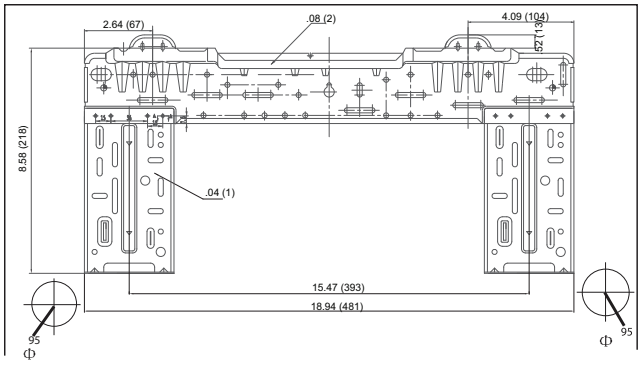
- A location which is convenient to installation and not exposed to strong wind. If unit is exposed to strong winds it is recommended that a wind baffle be used. Contact your Carrier Representative for drawings. (See Fig. 10)
- A location which can bear the weight of outdoor unit and where the outdoor unit can be mounted in a level position.
- A location which provides appropriate clearances as outlined in Fig. 3.
- Do not install the indoor or outdoor units in a location with special environmental conditions. For those applications, contact your Carrier Representative.

INDOOR UNIT INSTALLATION

INSTALL MOUNTING PLATE

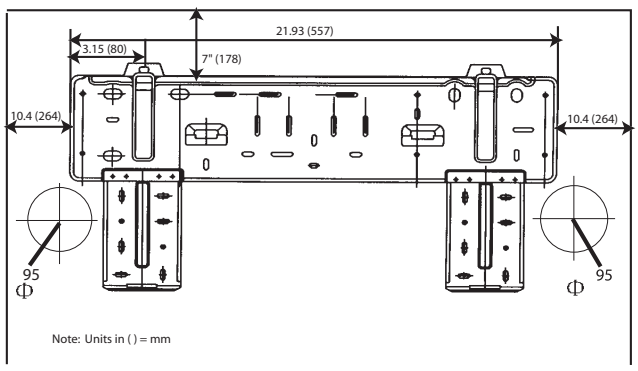
For each fan coil:

1. Carefully remove the mounting plate, which is attached to the back of the indoor unit.
2. The mounting plate should be located horizontally and level on the wall.
3. If the wall is block, brick, concrete or similar material, drill .2" (5 mm) diameter holes and insert anchors for the appropriate mounting screws.
4. Attach the mounting plate to the wall.



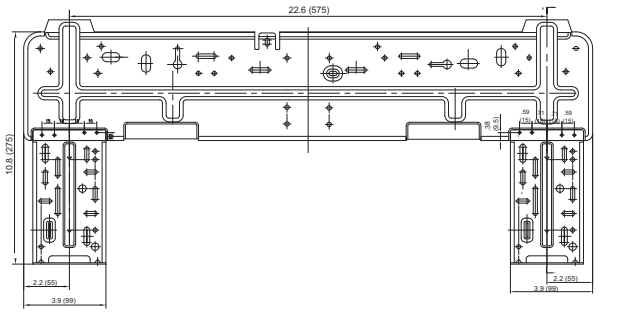
A085862

Fig. 4 – 9k Mounting Plate Spacing



A08291

Fig. 5 – 12k Mounting Plate Spacing



A09655

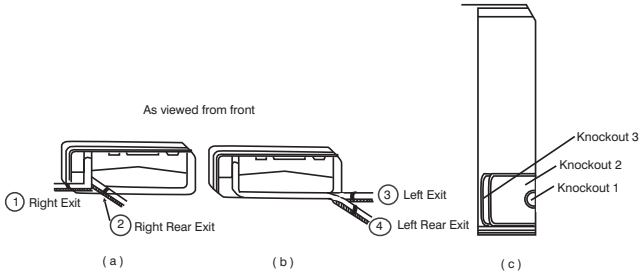
Fig. 6 – 18k Mounting Plate Spacing

FOR EACH FAN COIL, DRILL HOLE IN WALL FOR INTERCONNECTING PIPING, DRAIN AND WIRING

Refrigerant Line Routing

The refrigerant lines may be routed in any of the four directions shown in Fig. 7 (a) and (b).

For maximum serviceability, it is recommended to have refrigerant line flare connections and the drain connection on the outside of the wall that the fan coil is mounted on.

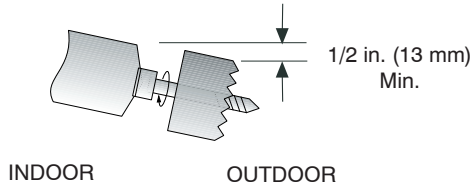


A08281

Fig. 7 – Refrigerant Line Routing

If piping is going through the back:

1. Determine pipe hole position using the mounting plate as a template. Drill pipe hole diameter per chart below. The outside pipe hole is 1/2-in. (13 mm) min. lower than inside pipe hole, so it slants slightly downward (see Fig. 8).
   If piping is going to exit from the left rear, it is recommended to field-fabricate piping extensions to get the flare connections to the outside of the wall.



A07371

Fig. 8 – Drill Holes

Unit Size	Hole Diameter in. (mm)
9k, 12k, and 18k	3.75 (95)

If piping is going through the right or left side:

1. Use a small saw blade to carefully remove the corresponding plastic covering on side panel and drill the appropriate size hole where the pipe is going through the wall. See Fig. 7(c).
2. Remove knockout 1 if you are running only the wiring. Remove knockout 1 and 2 or knockout 1, 2 and 3 if you are running both piping and wiring through the side of the unit.

OUTDOOR UNIT INSTALLATION

1. Use a rigid base to support unit in a level position.
2. Locate outdoor unit and connect piping and wiring.

⚠ CAUTION

EQUIPMENT DAMAGE HAZARD

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

Excessive torque can break flare nut depending on installation conditions.

Piping Connections to Outdoor Unit

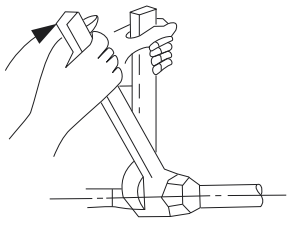
IMPORTANT: Use refrigeration grade tubing ONLY. No other type of tubing may be used. Use of other types of tubing will void manufacturer's warranty.

Make sure there is enough piping to cover the required length between the outdoor and indoor unit.

Piping Guide:

- Do not open service valves or remove protective caps from tubing ends until all the connections are made.
- Bend tubing with bending tools to avoid kinks and flat spots.
- Keep the tubing free of dirt, sand, moisture, and other contaminants to avoid damaging the refrigerant system.
- Avoid sags in the suction line to prevent the formation of oil traps. Insulate each tube with minimum 3/8-in. (10 mm) wall thermal pipe insulation. Inserting the tubing into the insulation before making the connections will save time and improve installation quality.

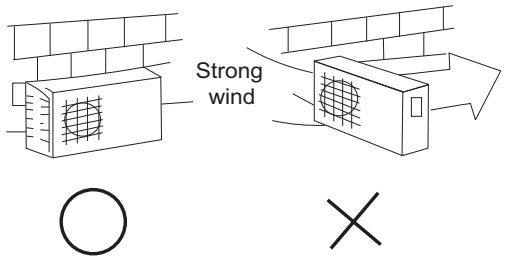
1. The unit is equipped with multiple pairs of service valves. Each pair is clearly marked (color and letter) to identify the indoor unit circuits. In the outdoor unit wiring area, each indoor unit interconnecting terminal block is marked (letter) the same as the corresponding pair of service valves. The indoor units must be piped and wired in matched sets (A to A; B to B, etc)
2. It is not required to use all of the available fan coil connections if the application does not require them at the current time. The system can be expanded at any time.
3. Conversion joints are supplied with the outdoor unit. They are required for certain fan coil combinations. Refer to chart on page 3 of this document for proper combination.
4. Cut tubing with tubing cutter.
5. Install correct size flare nut onto tubing and make flare connection.
6. Apply a small amount of refrigerant oil to the flare connection on the tubing.
7. Properly align tubing in with service valve (conversion joint).
8. Tighten flare nut and finish installation using two wrenches as shown in Fig. 9.



A07354

Fig. 9 – Tighten Flare Nut

INSTALL ALL POWER AND INTERCONNECTING WIRING TO OUTDOOR UNIT



A07350

Fig. 10 – High Wind Installation

Outdoor Unit Wiring Connections

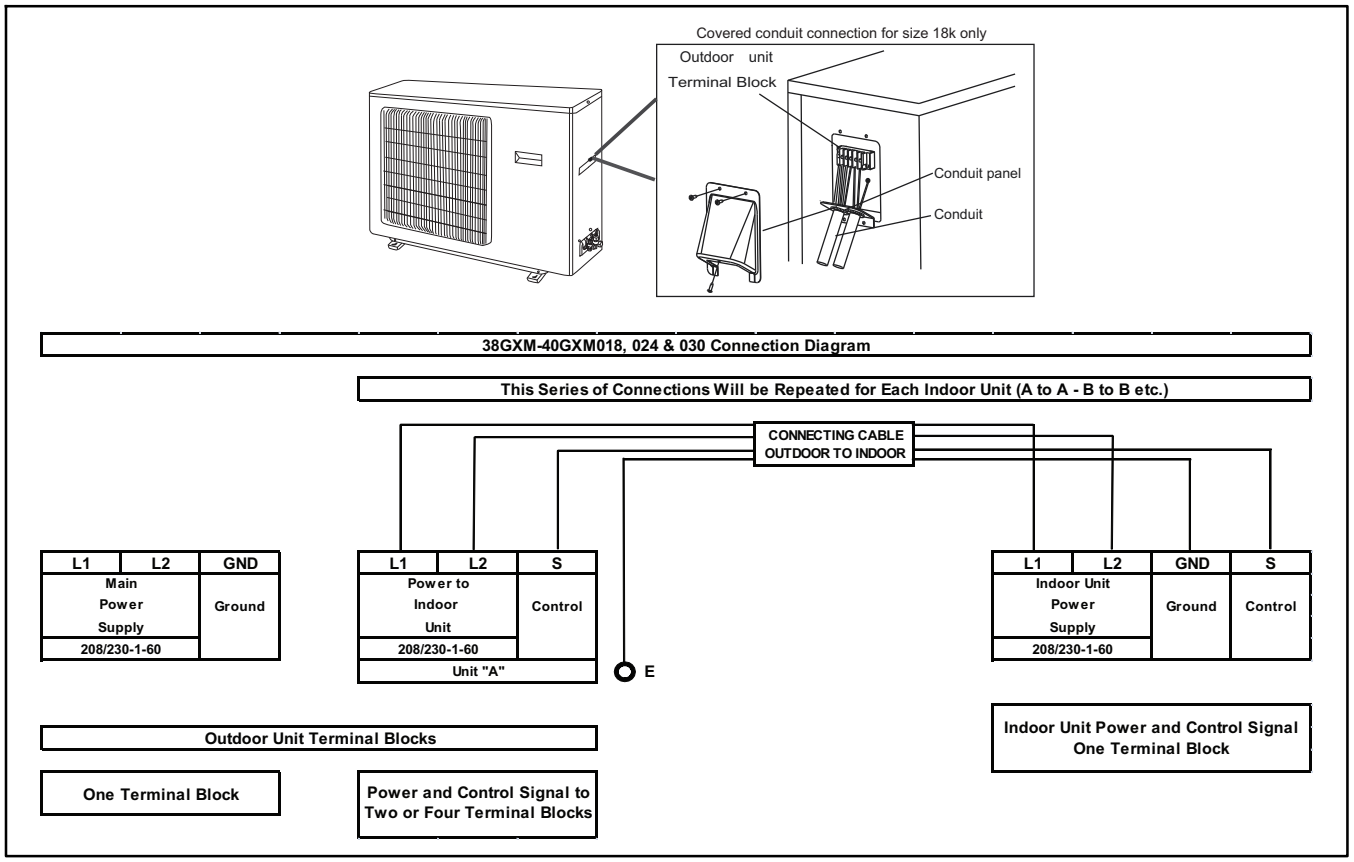
1. Mount outdoor power disconnect.
2. Run power wiring from main box to disconnect per NEC and local codes.
3. Remove field wiring cover (if available) from unit by loosening screws.
4. Remove knockouts..
5. Connect conduit to conduit panel. (See Fig. 11)
6. Properly connect both power supply and control lines to terminal block per the connection diagram.
7. Ground unit in accordance with NEC and local electrical codes.
8. Use lock nuts to secure conduit.
9. Reinstall field wiring cover (size 18k only).

⚠ CAUTION

EQUIPMENT DAMAGE HAZARD

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

- Be sure to comply with local codes while running wire from indoor unit to outdoor unit.
- Every wire must be connected firmly. Loose wiring may cause terminal to overheat or result in unit malfunction. A fire hazard may also exist. Therefore, be sure all wiring is tightly connected.
- No wire should be allowed to touch refrigerant tubing, compressor or any moving parts.
- Disconnecting means must be provided and shall be located within sight and readily accessible from the air conditioner.
- Connecting cable with conduit shall be routed through hole in the conduit panel.

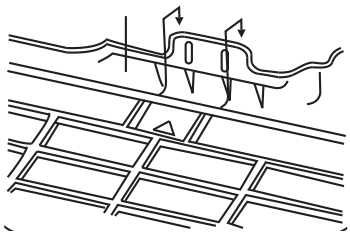


A09656a

Fig. 11 – Field Wiring

INSTALL ALL POWER, INTERCONNECTING WIRING, AND PIPING TO INDOOR UNIT.

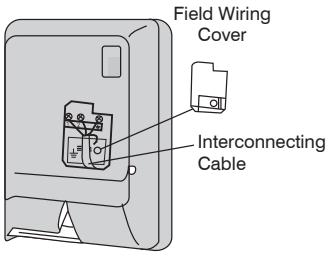
1. Run interconnecting piping and wiring from outdoor unit to each indoor unit (in matched pairs).
2. Pass interconnecting cable through hole in wall (outside to inside).
3. Lift indoor unit into position and route piping and drain through hole in wall (inside to outside). Fit interconnecting wiring into back side of indoor unit.
4. Hang indoor unit on upper hooks of wall mounting plate (as shown in Fig. 12)



A08283

Fig. 12 – Hanging Indoor Unit

5. Open front cover of indoor unit and remove field wiring terminal block cover (see Fig. 13)



A08279

Fig. 13 – Field Wiring Cover

6. Pull interconnecting wire up from back of indoor unit and position in close to the terminal block on indoor unit.
7. Push bottom of indoor unit onto mounting plate to complete wall mount.
8. Connect wiring from outdoor unit per connection diagram (see Fig. 11).

NOTE: **Polarity of power wires must match original connection on outdoor unit.**

9. Replace field wiring cover and close front cover of indoor unit.
10. Connect refrigerant piping and drain line outside of indoor unit. Refer to Fig. 8 for proper installation of flare connections. Complete pipe insulation at flare connection then fasten piping and wiring to the wall as required. Completely seal the hole in the wall.
11. Repeat steps 1 through 10 for each indoor unit.

⚠ CAUTION

UNIT DAMAGE HAZARD

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

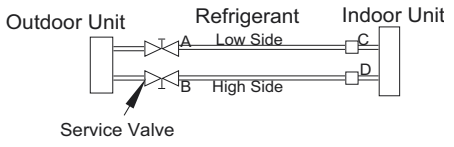
Never use the system compressor as a vacuum pump.

Refrigerant tubes and indoor coil should be evacuated using the recommended deep vacuum method of 500 microns. The alternate triple evacuation method may be used if the procedure outlined below is followed. Always break a vacuum with dry nitrogen.

SYSTEM VACUUM AND CHARGE

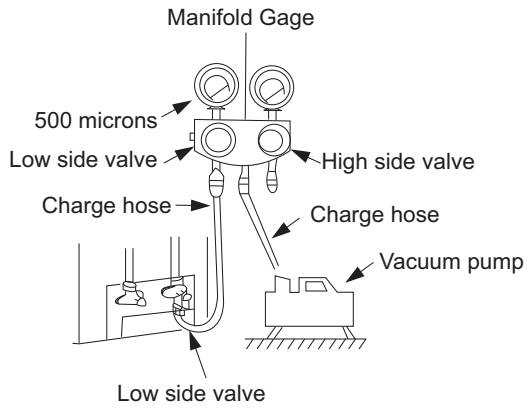
Using Vacuum Pump

1. Completely tighten flare nuts A, B, C, D, (for all fan coils). Connect gage charge hose to one circuit or all circuits (if using a multiple connection manifold) at the low side service valve charge port(s). (See Fig. 14.)
2. Connect charge hose to vacuum pump.
3. Fully open the low side of manifold gage. (See Fig. 15)
4. Start vacuum pump
5. Evacuate using either deep vacuum or triple evacuation method.
6. After evacuation is complete, fully close the low side of manifold gage and stop operation of vacuum pump.
7. If multiple connection manifold is not used, repeat the procedure (1 through 6) until all indoor units and piping are completely vacuumed.
8. The factory charge contained in the outdoor unit is suitable for max pipe length as shown on page 3 of this document. If additional charge is required, it should be added to the system as liquid at this time.
9. Disconnect charge hose from charge connection of the low side service valve.
10. Fully open all service valves.
11. Securely tighten caps of service valves.



A07360

Fig. 14 – Service Valve

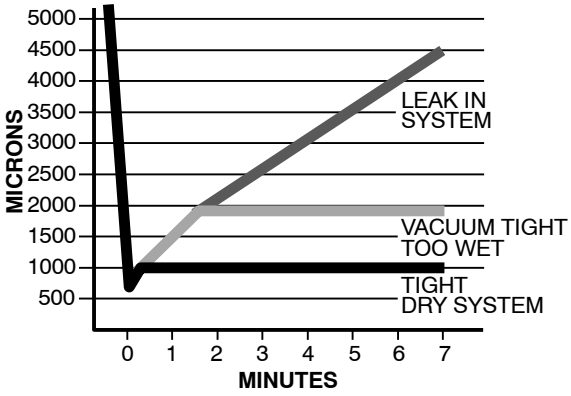


A07361

Fig. 15 – Manifold

Deep Vacuum Method

The deep vacuum method requires a vacuum pump capable of pulling a vacuum of 500 microns and a vacuum gage capable of accurately measuring this vacuum depth. The deep vacuum method is the most positive way of assuring a system is free of air and liquid water. (See Fig. 16)



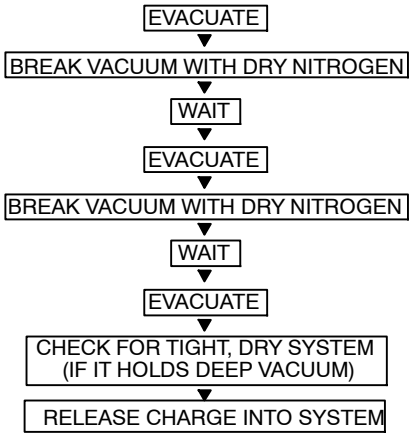
A95424

Fig. 16 – Deep Vacuum Graph

Triple Evacuation Method

The triple evacuation method should only be used when vacuum pump is only capable of pumping down to 28 in. of mercury vacuum and system does not contain any liquid water.
Refer to Fig. 17 and proceed as follows:

1. Pump system down to 28 in. of mercury and allow pump to continue operating for an additional 15 minutes.
2. Close service valves and shut off vacuum pump.
3. Connect a nitrogen cylinder and regulator to system and open until system pressure is 2 psig.
4. Close service valve and allow system to stand for 1 hr. During this time, dry nitrogen will be able to diffuse throughout the system absorbing moisture.
5. Repeat this procedure as indicated in Fig. 17. System will then be free of any contaminants and water vapor.



A95425

Fig. 17 – Triple Evacuation Method

Final Tubing Check

IMPORTANT: Check to be certain factory tubing on both indoor and 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.

Test Operation

Perform test operation after completing gas leak and electrical safety check.

1. Push the "ON/OFF" button on Remote Control to begin testing.

NOTE: A protection feature prevents the air conditioner from being activated for approximately 3 minutes.

2. Push MODE button, select COOLING, HEATING, FAN mode to check if all functions work correctly.

SYSTEM CHECKS

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

INDOOR UNIT

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

OUTDOOR UNIT

1. Are there unusual noises or vibrations during operation?

Explain Following Items To Customer With The Aid Of The Owner's Manual:

1. How to turn air conditioner on and off; selecting COOLING, HEATING and other operating modes; setting a desired temperature; setting the timer to automatically start and stop air conditioner operation; and all other features of the Remote Control and display panel.
2. How to remove and clean the air filter.
3. How to set air deflection louver.
4. Explain care and maintenance.
5. Present the Owner's Manual and installation instructions to customer.

TROUBLESHOOTING

This unit has onboard diagnostics. Error codes are displayed on the outdoor unit microprocessor board with colored LED lights. The table below lists the error codes.

38GM018−024 Diagnostic Codes

Equipment Fault	Number of Flashes On Outdoor Unit Board LED's								
	LED− D101 (Green)	LED− D102 (Red)	LED− D103 (Yellow)	LED− D104 (Yellow)	LED− D105 (Red)	LED− D106 (Green)	LED− D108 (Green)	LED1 (Red)	LED2 (Green)
High Compressor Discharge Pressure Protection	2								
High Leaving Outdoor Coil Air Temperature Protection	3								
Communication Error	4								
IPM Module Protection	5								
Compressor Over Current Protection	6								
High Outdoor Coil Temperature Protection	7								
Indoor Coil High Temperature Protection	8								
Indoor Coil Freeze Protection	9								
Failed Sensor	10								
Compressor Overload Protection	11								
Low Compressor Discharge Pressure Protection	12								
Compressor Motor Phase Imbalance Protection (Compressor Stops)	13								
EEPROM Error	14								
Power Factor Correction Board Capacitor Charge Failure	15								
Communication Error With Unit A		1							
Unit A Mid Indoor Coil Temperature Thermistor		2							
Unit A Leaving Indoor Coil Temperature Thermistor		3							
Unit A Entering Indoor Coil Temperature Thermistor		4							
Unit A Indoor Air Temperature Thermistor		5							
Unit A Heating/Cooling Mode Conflict with Unit B		6							
Unit A Indoor Coil Freeze Protection		7							
Unit A Indoor Coil High Temperature Protection		8							
Communication Error With Unit B			1						
Unit B Mid Indoor Coil Temperature Thermistor			2						
Unit B Leaving Indoor Coil Temperature Thermistor			3						
Unit B Entering Indoor Coil Temperature Thermistor			4						
Unit B Indoor Air Temperature Thermistor			5						
Unit B Heating/Cooling Mode Conflict with Unit B			6						
Unit B Indoor Coil Freeze Protection			7						
Unit B Indoor Coil High Temperature Protection			8						
Defrost Mode				9					
Oil Return Mode					6				
Outdoor Air Temperature Thermistor						1			
Outdoor Coil Temperature Thermistor						2			
Leaving Outdoor Coil Air Temperature Thermistor						3			
Driver Board Communications Error						5			
Normal Communication Between Ind. and OD Units							1		
Compressor Speed Sensor Failure (Compressor Stops)								2	
IPM Module Protection								3	
Inverter Failure								4	
PFC Module Protection								5	
Lock−Out Mode								6	
Start−Up Failure								7	
Low Voltage Protection								8	
High Voltage Protection								9	
IPM Module High Temperature Protection								10	
Failed Communication Between ID and OD Units									Light

38GXM030 Diagnostic Codes

Equipment Fault	Number of Flashes On Outdoor Unit Board LED's										
	LED–D101 (Red)	LED–D102 (Yellow)	LED–D103 (Green)	LED–D104 (Red)	LED–D105 (Yellow)	LED–D106 (Green)	LED–D107 (Red)	LED–D108 (Yellow)	LED–D109 (Green)	LED1 (Red)	LED2 (Green)
Compressor Operating Normally	1										
High Compressor Discharge Pressure Protection	2										
High leaving Outdoor Coil Air Temperature Protection	3										
Communication Error	4										
IPM Module Protection	5										
Compressor Overcurrent Protection	6										
High Outdoor Coil Temperature Protection	7										
Indoor Coil High Temperature Protection	8										
Indoor Coil Freeze Protection	9										
Failed Sensor	10										
Compressor Overload Protection	11										
Low Compressor Discharge Pressure Protection	12										
Compressor Motor Phase Imbalance Protection (Compressor Stops)	13										
EEProm Error	14										
Power Factor Correction Board Capacitor Charge Failure	15										
Compressor Ramping Down Due to High Leaving Outdoor Coil Air Temperature		1									
Compressor Ramping Down Due to High Outdoor Coil Temperature		2									
Compressor Ramping Down Due to High Current		3									
Compressor Ramping Down Due to Compressor Motor Phase Imbalance		4									
Compressor Ramping Down Due to Unit A High ID Coil Temperature		5									
Compressor Ramping Down Due to Unit B High ID Coil Temperature		6									
Compressor Ramping Down Due to Unit C High ID Coil Temperature		7									
Compressor Ramping Down Due to Unit D High ID Coil Temperature		8									
Defrost Mode		9									
Max Comp. Speed Reached Due to High Leaving OD Coil Air Temperature			1								
Max Comp. Speed Reached Due to High OD Coil Temperature			2								
Max Comp. Speed Reached Due to High Current			3								
Max Comp. Speed Reached Due to Compressor Motor Phase Imbalance			4								
Max Comp. Speed Reached Due To Unit A High Indoor Coil Temperature			5								
Max Comp. Speed Reached Due To Unit B High Indoor Coil Temperature			6								
Max Comp. Speed Reached Due To Unit C High Indoor Coil Temperature			7								
Max Comp. Speed Reached Due To Unit D High Indoor Coil Temperature			8								
Oil Return Mode			9								
Outdoor Air Temperature Thermistor				1							
Outdoor Coil Temperature Thermistor				2							
Leaving Outdoor Coil Air temperature Thermistor				3							
Driver Board Communications Error				4							
Communication Error With Unit A					1						
Unit A Mid Indoor Coil Temperature Thermistor					2						
Unit A Leaving Indoor Coil Temperature Thermistor					3						
Unit A Entering Indoor Coil Temperature Thermistor					4						
Unit A Indoor Air Temperature Thermistor					5						
Unit A Heating/Cooling Mode Conflict With Other Indoor Units					6						
Unit A Indoor Coil Freeze Protection					7						
Unit A Indoor Coil High Temperature Protection					8						
Communication Error With Unit B						1					
Unit B Mid Indoor Coil Temperature Thermistor						2					
Unit B Leaving Indoor Coil Temperature Thermistor						3					
Unit B Entering Indoor Coil Temperature Thermistor						4					

38GXM030 Diagnostic Codes (Continued)

Equipment Fault	Number of Flashes On Outdoor Unit Board LED's										
	LED–D101 (Red)	LED–D102 (Yellow)	LED–D103 (Green)	LED–D104 (Red)	LED–D105 (Yellow)	LED–D106 (Green)	LED–D107 (Red)	LED–D108 (Yellow)	LED–D109 (Green)	LED1 (Red)	LED2 (Green)
Unit B Indoor Air Temperature Thermistor						5					
Unit B Heating/Cooling Mode Conflict With Other Indoor Units						6					
Unit B Indoor Coil Freeze Protection						7					
Unit B Indoor Coil High Temperature Protection						8					
Communication Error With Unit C							1				
Unit C Mid Indoor Coil Temperature Thermistor							2				
Unit C Leaving Indoor Coil Temperature Thermistor							3				
Unit C Entering Indoor Coil Temperature Thermistor							4				
Unit C Indoor Air Temperature Thermistor							5				
Unit C Heating/Cooling Mode Conflict With Other Indoor Units							6				
Unit C Indoor Coil Freeze Protection							7				
Unit C Indoor Coil High Temperature Protection							8				
Communication Error With Unit D								1			
Unit D Mid Indoor Coil Temperature Thermistor								2			
Unit D Leaving Indoor Coil Temperature Thermistor								3			
Unit D Entering Indoor Coil Temperature Thermistor								4			
Unit D Indoor Air Temperature Thermistor								5			
Unit D Heating/Cooling Mode Conflict With Other Indoor Units								6			
Unit D Indoor Coil Freeze Protection								7			
Unit D Indoor Coil High Temperature Protection								8			
Correct Communication Data									1		
Normal Compressor Operation										1	
Compressor Speed Sensor Failure (Compressor Stops)										2	
IPM Module Protection										3	
Inverter Failure										4	
PFC Module Protection										5	
Lock–Out Mode										6	
Start–Up Failure										7	
Low Voltage During Start–Up										8	
High Voltage Protection										9	
IPM Module High Temperature Protection										10	
Low Voltage Protection										11	
IPM Module Detects Short Or Open Circuit										12	
Failed Communication Between ID and OD Units											1
Normal Communication											2

 Printed in U.S.A. Edition Date: 03/11 **Catalog No: 38–40GXM–2SI**

Replaces: 38–40GXM–1SI