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Literature Part No: Lit-WMMS-0103-20100814

For WMMS Series of Product 09 to 60K Btu/h Single-Zone (Cooling, Heat Pump W or W/O Ele. Heater)

Subject to Continuous Engineering Improvement without Prior Notice.

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**YMGI, A COMFORT MAKER, A JOY COMPANION, A SATISFACTION GUARANTOR...**

# INSTALLATION & SERVICE MANUAL

Wall Mount Mini Split Systems

## M3

Single-Zone

Cooling and Heat Pump W or W/O Heater

(This Installation Instruction is Good for Mini Split Wall Mount Product Line of Different Brands Made by YMGI Group-YMGI, YMGI Products, and Others Claimed by YMGI Group, POB 1559, O'Fallon, MO, USA-Check with [info@ymgigroup.com](mailto:info@ymgigroup.com) or [sales@ymgigroup.com](mailto:sales@ymgigroup.com))



### ⚠ WARNING

This product is designed and manufactured free from defects in material and workmanship under the normal use and maintenance. Installation, operation, maintenance and service shall follow professional practices for regular cooling and heating equipment, NEC, State, City or Local Codes and related manuals from us. Otherwise, damage to equipment or property even injury to people may occur.

**Installer:** Currently licensed HVAC installer only, Read this manual before installation. Sign on the warranty registration card.

**User:** Keep this manual for future maintenance and service use.

**Service:** Use this manual for service reference.



Literature Part No: LIT-WMMS-II-0103-20100814

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**CAUTION** All Units Shall Be Installed by Experienced or Licensed Contractor Or Technician. Read Manuals before Installation.

**CAUTION** Following NEC, State and Local Codes and Installation Instructions of All Units, Otherwise Unit Warranty Will Be Void and Serious Damage To People Or Property May Be Caused.

**WARNING** YMGi Group Shall NOT Take Any Responsibilities for Any Damage or Loss Due to Do-It-Yourself(DIY) self-installation and other Improper Installation or Operation or Natural Disaster.

**WARNING** Don't Supply Power until All Wiring and Tubing and Checking is Completed. Ground the Unit Following Instructions and NEC, State and Local Codes.

**DANGER** Connect All Wiring Securely. Loose Wire or Other Bad Contact May Cause Arc or Overheating and Fire Hazard.

**End User Technician Contact of Technical Support-Manufacturer**  
**Toll Free Number: 1-866-833-3138 x 703**  
**Email: techsp@ymgigroup.com**

(End user needs to contact installation or service technician to check the unit, before the technicians contact manufacturer technical support-straight technical communication)

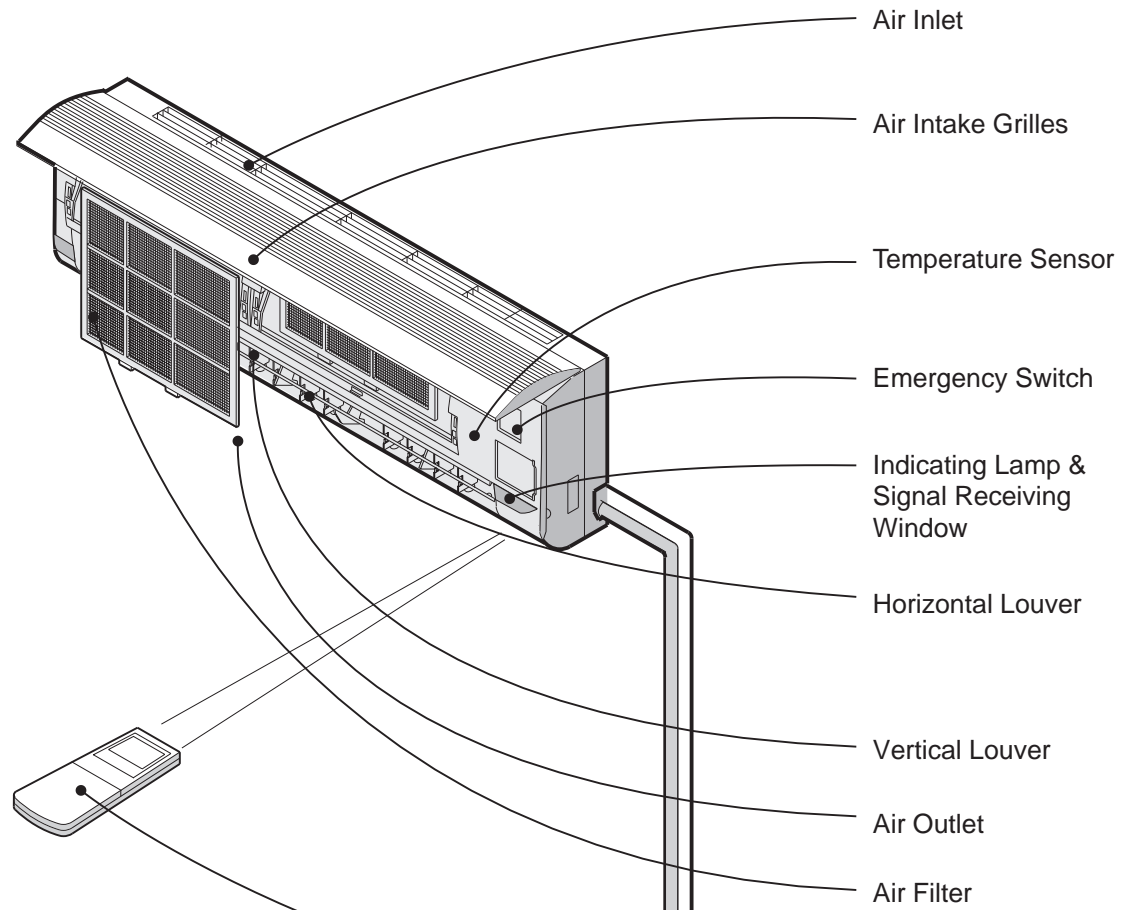
## VERY IMPORTANT NOTES FOR END USERS (CUSTOMERS) AND INSTALLATION

- GOOD UNITS CAN MALFUNCTION, MAY NOT WORK CORRECTLY OR PROPERLY, AS DESIGNED AND MANUFACTURED, IF NOT INSTALLED CORRECTLY OR PROPERLY. MUST DO IT RIGHT ALL THE TIME, ESPECIALLY FROM THE VERY BEGINNING.
- CUSTOMER DO-IT-YOURSELF (DIY) INSTALLATION CAUSED AND/OR MAY CAUSE TROUBLE, IN DIFFERENT FORMATS, TO THE UNIT, YOUR COMFORT EXPECTATION, YOUR HEALTH.
- HANDY MAN OR SMART PEOPLE OR EVEN SOME PROFESSIONALS MAKE MISTAKE SOMEWHERE OR SOMETIMES. DON'T TRY TO SAVE MONEY BY DIY, HANDLE THE INSTALLATION TO THE CURRENTLY LICENSED PROFESSIONALS, SINCE THEY WILL TAKE CARE OF YOUR UNITS AND YOUR COMFORT.
- DIY INSTALLATION MAY SAVE YOUR SOME MONEY AT THE FRONT, BUT WILL COST YOU MORE AND BRING HEADACHE, DOWN THE ROAD.
- YMGi DOESN'T AGREE, DOESN'T ALLOW, DOESN'T WARRANT, DOESN'T ENSURE, DOESN'T ENCOURAGE, DOESN'T RECOMMEND DIY INSTALLATION, UNLESS YMGi STATES DIY INSTALLATION IS ALLOWED, IN WRITING.
- CUSTOMERS WILL LOSE FACTORY WARRANTY ON DIY INSTALLED HVAC PRODUCTS AND TAKE THEIR RISKS FOR DIY INSTALLATION.
- DON'T PAY THE CONTRACTOR IN FULL, UNTIL ALL FUNCTIONS OF THE SYSTEM HAVE BEEN CHECKED AND YOU ARE SATISFIED.
- IT IS THE INSTALLATION CONTRACTOR'S RESPONSIBILITY TO INSTALL AND SERVICE THE SYSTEM TO MAKE SURE THE UNIT WORK CORRECTLY AND PROPERLY OVER THE TIME. YMGi DOESN'T INSTALL NOR SERVICE YOUR UNITS ON BEHALF OF THE INSTALLER. YMGi WILL HELP THE INSTALLER OR SERVICE PROVIDER ANSWERING QUESTIONS AND PROVIDING TECHNICAL SUPPORT.
- IT IS THE CUSTOMER'S RESPONSIBILITY TO SELECT THE UNIT CORRECTLY (UNIT SIZE, SEER, ELECTRIC POWER, CONTROL, REFRIGERANT, DC OR FIXED SPEED, LOOKING AND OTHERS).
- IT IS THE CUSTOMER'S DECISION WHAT UNIT TO BUY AND TO INSTALL. PUT DOWN ALL REQUIREMENTS IN WRITING, BEFORE ORDERING.
- WHO CAN INSTALL THE HVAC PRODUCTS HEREOF:
  - \* ONLY LICENSED HVAC CONTRACTOR(S)/TECHNICIAN(S), WHO KEEPS CURRENTLY VALID LICENSE FOR HEATING AND COOLING EQUIPMENT, SUCH AS AIR CONDITIONER AND HEAT PUMP.
  - \* DON'T DO-IT-YOURSELF (DIY) HVAC EQUIPMENT, WHICH IS NOT ALLOWED BY THE LAWS, NOR WARRANTED BY YMGi.
- IMPORTANT NOTES FOR INSTALLATION
  - \* SIZE WIRES AND CIRCUIT BREAKERS CORRECTLY, PER NEC CODES.
  - \* READ SPECIFICATION SHEETS OR OTHER MATERIALS FOR LIMITS OF OPERATING TEMPERATURE RANGES, PIPING LENGTH, AND PERFORMANCE AT DIFFERENT AMBIENT TEMPERATURES.
  - \* READ MANUALS AND CHECK TO MAKE ALL ARE CLEAR BEFORE INSTALLING THE UNITS.
  - \* WATCH INSTALLATION AND MAKE SURE THERE ARE NO BUGS LEFT IN YOUR HVAC SYSTEMS.
  - \* COVER THE ENDS OF THE INTER-CONNECTING COPPER TUBES BEFORE PULLING THROUGH STRUCTURES TO KEEP FROM DIRTY OR OTHER FOREIGN SUBSTANCES ENTERING THE REFRIGERATION SYSTEM TO CONTAMINATE THE SYSTEM AND DAMAGE THE SYSTEM, DOWN THE ROAD.
  - \* VACUUM THE INTERCONNECTING TUBES AND INDOOR UNITS AND CHECK FOR LEAKAGE, BEFORE RELEASING REFRIGERANT FROM OUTDOOR UNIT TO INDOOR UNIT.
  - \* TRIAL RUNNING SYSTEMS AND CHECK ALL FUNCTIONS, BEFORE PAYING OR LETTING THE INSTALLER LEAVE THE JOB SITE.
  - \* JOT DOWN INSTALLER'S CONTACT INFORMATION AND SERVICE INVOICE/RECIPT FOR FUTURE QUESTIONS OR CUSTOMER SERVICE.

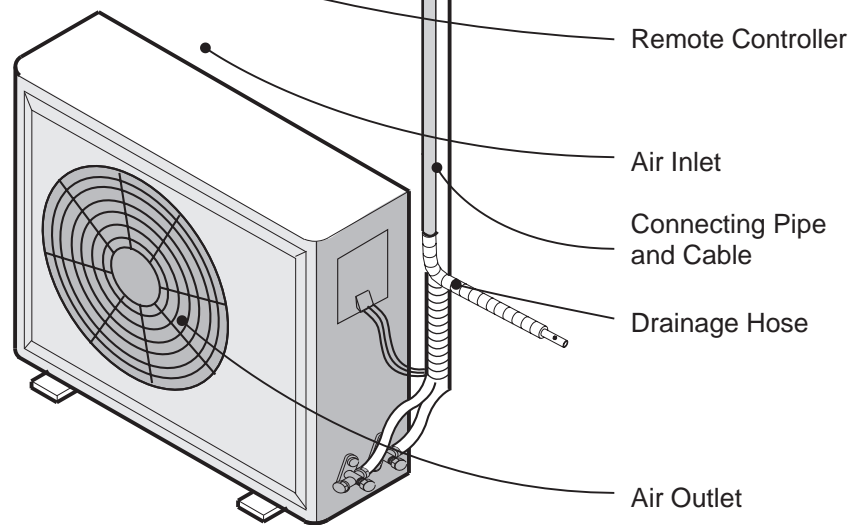


## BEFORE INSTALLATION IDENTIFY COMPONENTS

### INDOOR UNIT



### OUTDOOR UNIT

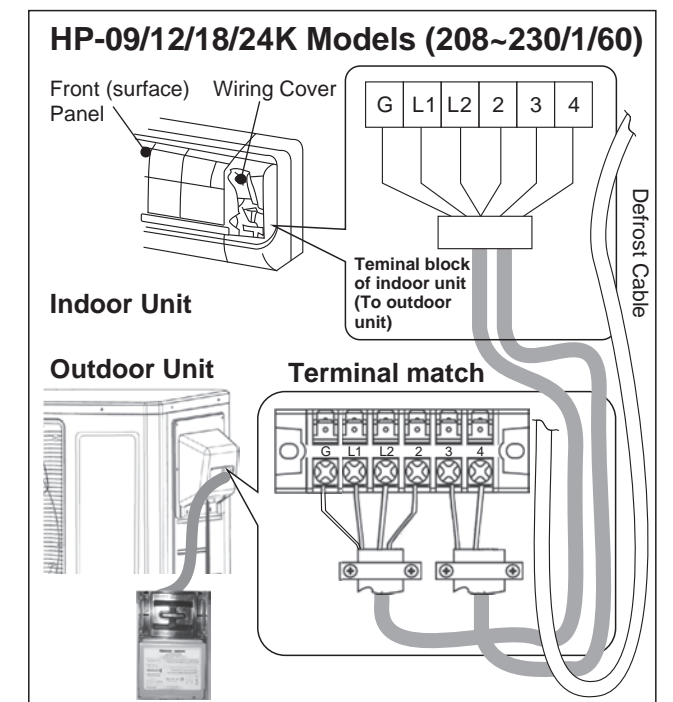
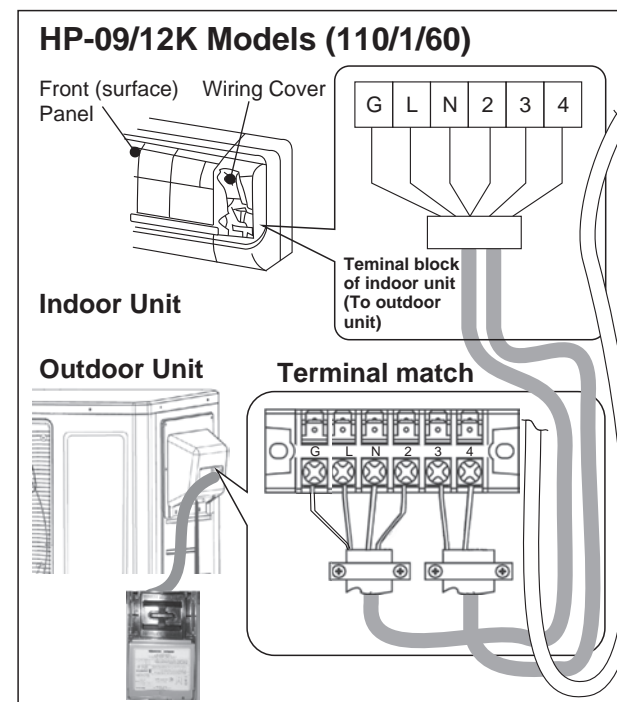
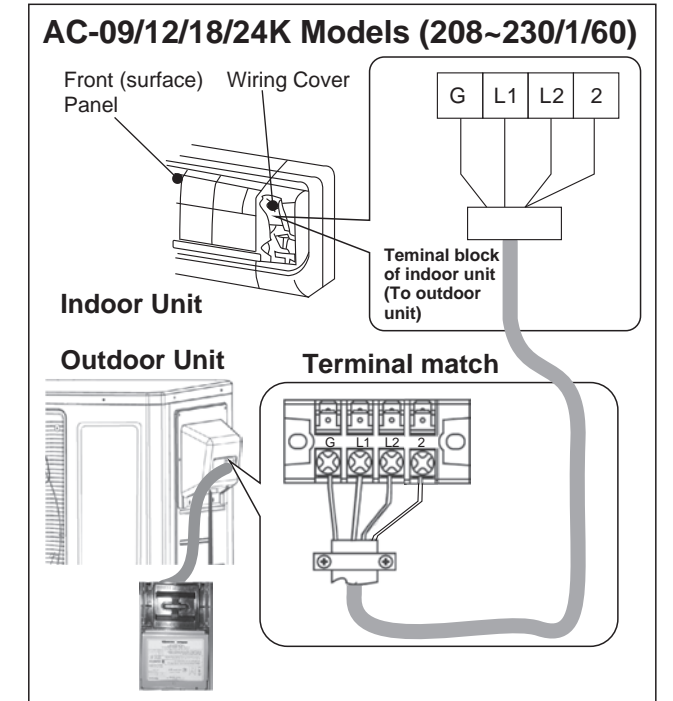
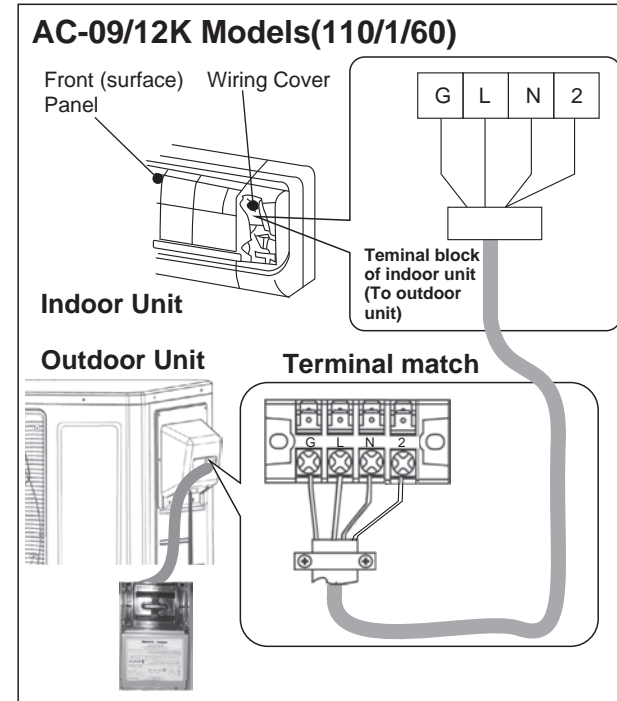


Unit Appearance and Specifications Are Subject to Change for Continuous Improvement without Any Prior Notice.

## CONNECTION OF WIRES-SINGLE ZONE

### WIRING AT INDOOR UNIT AND OUTDOOR UNITS

- \* Open the front cover panel.
- \* Remove screws from electrical box cover and put screws in secured position.
- \* Remove screws from fastener and put screws in secured position.
- \* Prepare wires of right size and grade.
- \* Recommend to use factory-provided wire/cables.
- \* Connected to the terminals following wiring diagrams (terminal or color matches).
- \* Clamp power/control wires to the structure to keep the tension form being transmitted to the wire connection.
- \* Replace screws or fasteners back to where they were.





## CONNECTION OF WIRES

### PIPING AND WIRING SIZES

Model	Liquid/ Gas Line	Min/Max. Length/ +/-Elevation	Power Wire	Power/ Control Wire	HVAC Circuit Breaker/Fuse AMP (to Outdoor Unit)
			Disconnect Switch Box to Outdoor Unit	Outdoor to Indoor Unit	
09K	1/4" & 3/8"	15/70/25/35	L/N/G, 115/1/60, 14AWG	Power: L/N/G Control: AC-2 HP-2/3/4	20/10
12K	1/4" & 1/2"	15/70/25/35	L/N/G, 115/1/60, 14AWG	Power: L/N/G Control: AC-2 HP-2/3/4	25/10
18K	3/8" & 5/8"	15/100/30/50	L1/L2/G, 208-230/1/60, 14AWG	Power: L1/L2/G Control: AC-2 HP-2/3/4	20
24K	3/8" & 5/8"	15/100/30/50	L1/L2/G, 208-230/1/60, 14AWG	Power: L1/L2/G Control: AC-2 HP-2/3/4	25

#### Note:

- \* The environment conditions must be taken into consideration when the connections of power cable are made (such as the ambient temperature, direct exposure to heat/direct exposure to sunlight).
- \* The specifications for the power cable refer to the minimum values of the metal core wires, taking into consideration the voltage losses, the core wire of power cable must be one size larger than the specifications.
- \* The grounding wire must be connected to the indoor units and outdoor units.
- \* The laying of power cables must be done by qualified electricians and comply with the regulations of the local power supply authorities and with the standards of the electric appliance.

## GET READY FOR INSTALLATION

### MISC. ITEMS COMING WITH INDOOR UNIT

1	Mounting plate	1 Pcs.
2	Manuals (User/ Installation/ Wiring/ Diagram)	1 Set
3	Remote controller	1 Pcs.
4	Battery	2 Pcs.
5	Drain spout for outdoor drain pain	1 Pcs.
6	Warranty registration card	1 Pcs.
7	QC Pass	1 Pcs.

### OPTIONAL ACCESSORIES THAT ARE PACKAGED AND MAY BE SOLD SEPARATELY

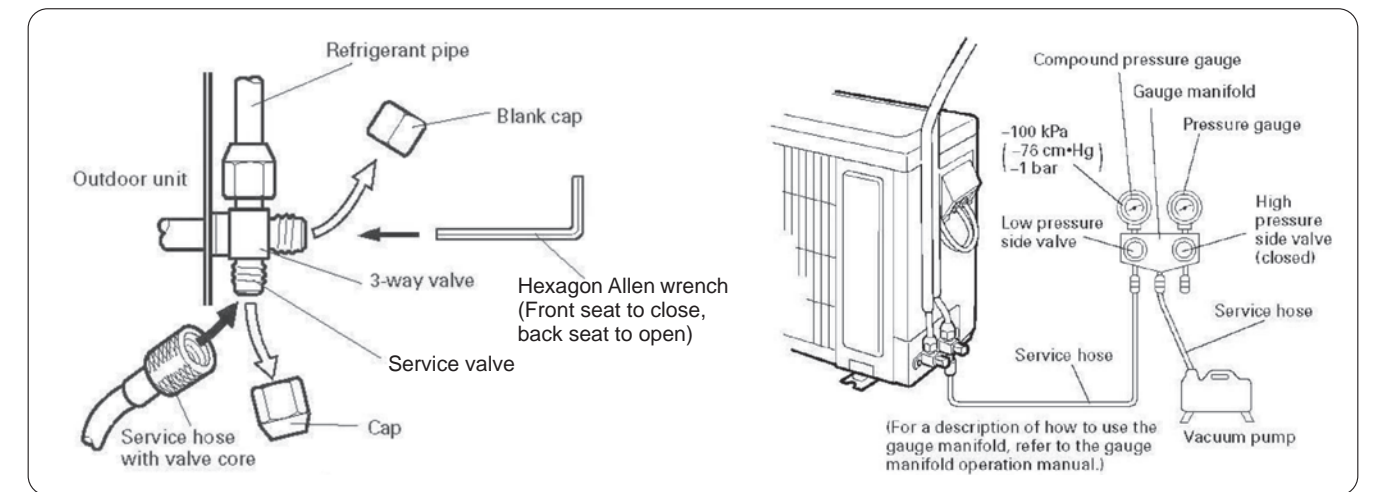
1	Installation kit (copper line/wire/drain hose & others)
2	Power and control and or intercommunication cable
3	Foot rise or brackets for outdoor unit
4	Line set covers
5	Wind baffie

## GET READY FOR INSTALLATION

### LIST OF RECOMMENDED TOOL

1	Screw driver-Phillips-bigger
2	Screw driver-Phillips-smaller
3	Copper tube cutter
4	Copper tube flare expander
5	Wire stripper
6	Vacuum pump
7	Manifold (R410A)
8	Scissor
9	Plier
10	Wrench
11	Multiple-purpose meter
12	Tape measure

### Vacuum Copper Pipe Indoor unit before Releasing Refrigerant from Outdoor Unit to Indoor Unit.



## OPERATING TEMPERATURE RANGES

These units are designed for general T-1 weather conditions as outlined in the following table:

### Recommended Temperature Ranges-Indoor Side

Mode	Dry Bulb	Wet Bulb
Cooling	61 to 105°F (16 to 40.5°C)	NA
Heating	17 to 86°F (-8 to 30°C)	17-42°F (-8 to 5°C)

### Recommended Temperature Ranges-Outdoor Side

Mode	Dry Bulb	Wet Bulb
Cooling	45 to 115°F (7 to 46.1°C)	NA
Heating	17 to 75°F (-8 to 23.8°C)	17-35°F (-8 to 2°C)

#### IMPORTANT NOTES:

- 1) Working temperature ranges listed above are guaranteed for units to work properly, though these temperature ranges are conservative.
- 2) Units may still work well out of the guaranteed working temperature ranges, as long as they are installed properly and are still in good conditions within design envelop.
- 3) Units are designed for mild low temperature AC cooling applications. Units come with low temperature control to protect agent too low pressure when running for AC cooling in weather colder than 45°F and warmer than 35°F. In this temperature ranges, units may not need to add refrigerant and/or jumper at low pressure switch. If units are to be used for cooling only below 35°F, then better to check and add refrigerant and jumper at low pressure switch. Situation varies upon indoor load and indoor unit installation conditions such as TEX type, elevation vs outdoor unit, copper line set size and length, refrigerant level and leakage level.
- 4) Units may still work HP heating well way below 17°F, though exact temperatures are not listed. Units will defrost during HP heating model in cold weather. Suction (bigger) pipe should be hot and the discharge (smaller) pipe should be warm at outdoor unit during HP heating mode, if everything is right.
- 5) Optional component Wind Baffle installed at fan discharge side on the cabinet is designed to keep from cold air blowing into propeller fan blade against airflow, and so help unit work better in both AC cooling and HP heating mode in colder weather ranges.

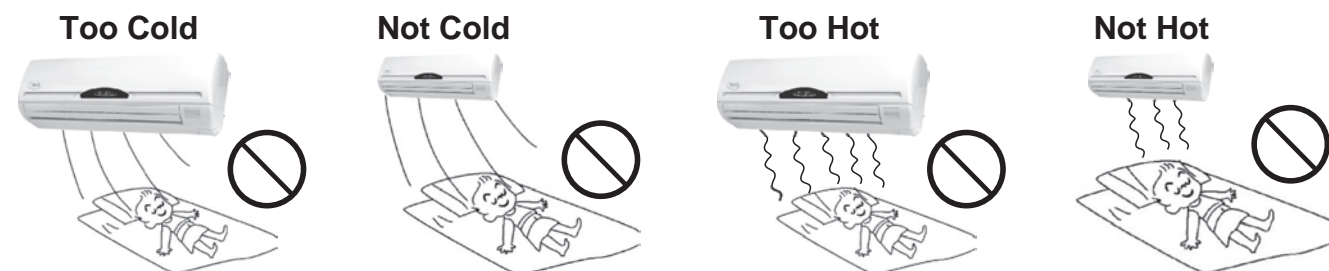
Since outdoor units can be installed on the wall or balcony, where is close to indoor unit, at least the following benefits will be brought to contractors and customers:

- \* Indoor unit operates much quieter than air diffuser of central air conditioning system.
- \* Stylish design of indoor unit adds beauty to rooms.
- \* Connection pipe, refrigerant usage is much saved compared to installing up-flow condensing units on the ground and long copper/wire lines needed between indoor and outdoor units.
- \* Contractor work is eased and time is saved.
- \* Efficiency and lifetime of system is increased.

Mini Split Wall Mount Systems come with three types: cooling only and heat pump and heat pump with electric heater. These units can be easily wired. Either indoor unit or outdoor unit can be used with any matched comparable outdoor unit or indoor unit as long as they have matched size and control. Must refer to electrician before doing so.

Each system is fully tested per rigorous standards at factory. Acoustically and thermally balanced design and systematically optimized system give each unit a healthy birth off the assembly line with proved quality and reliability.

Find the cooling/heating load capacity of the space where the unit will be in service. Select matched WMMS units for the space. Under sizing or over sizing equipment is NOT recommended.



## INDOOR UNIT-MAJOR COMPONENTS

Since outdoor units can be installed on the wall or balcony, where is close to indoor unit, at least the following benefits will be brought to contractors and customers:

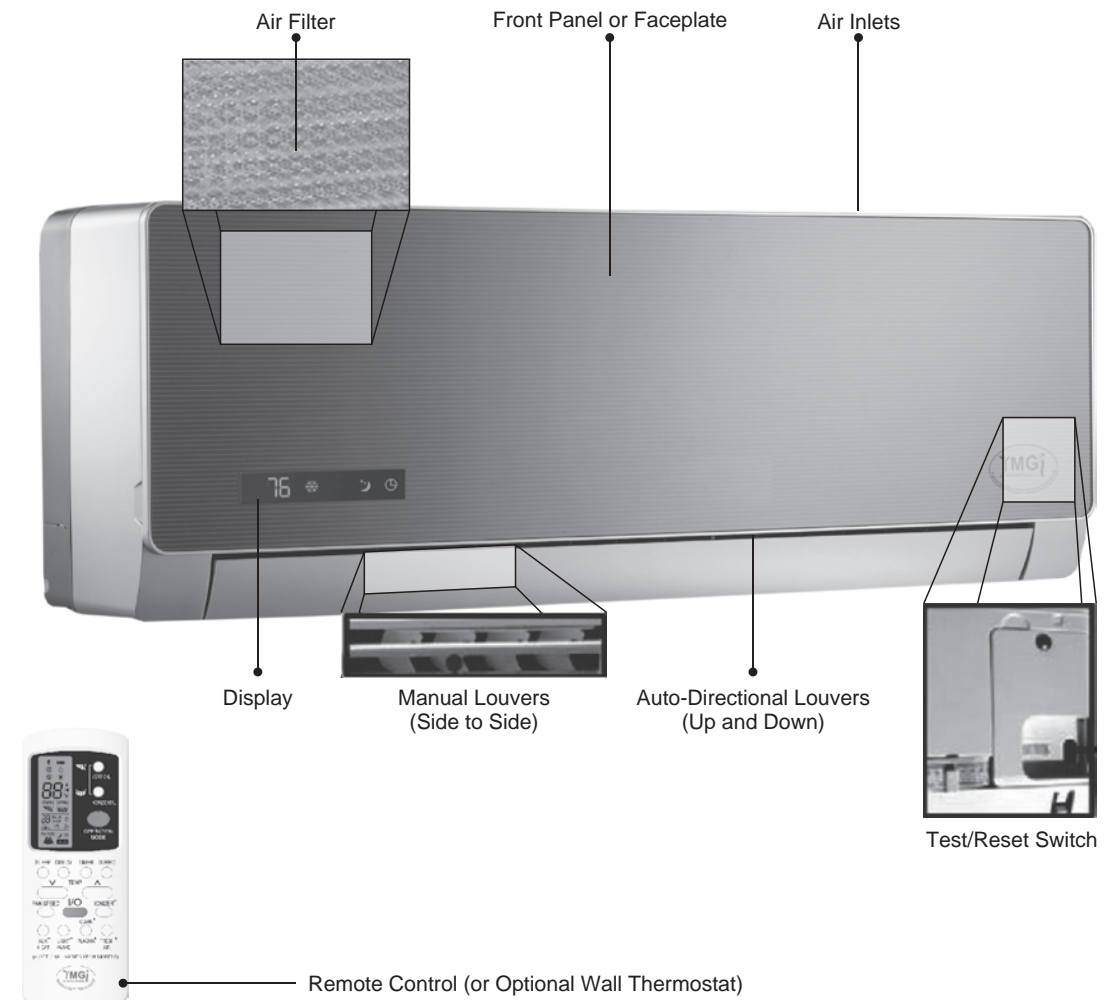
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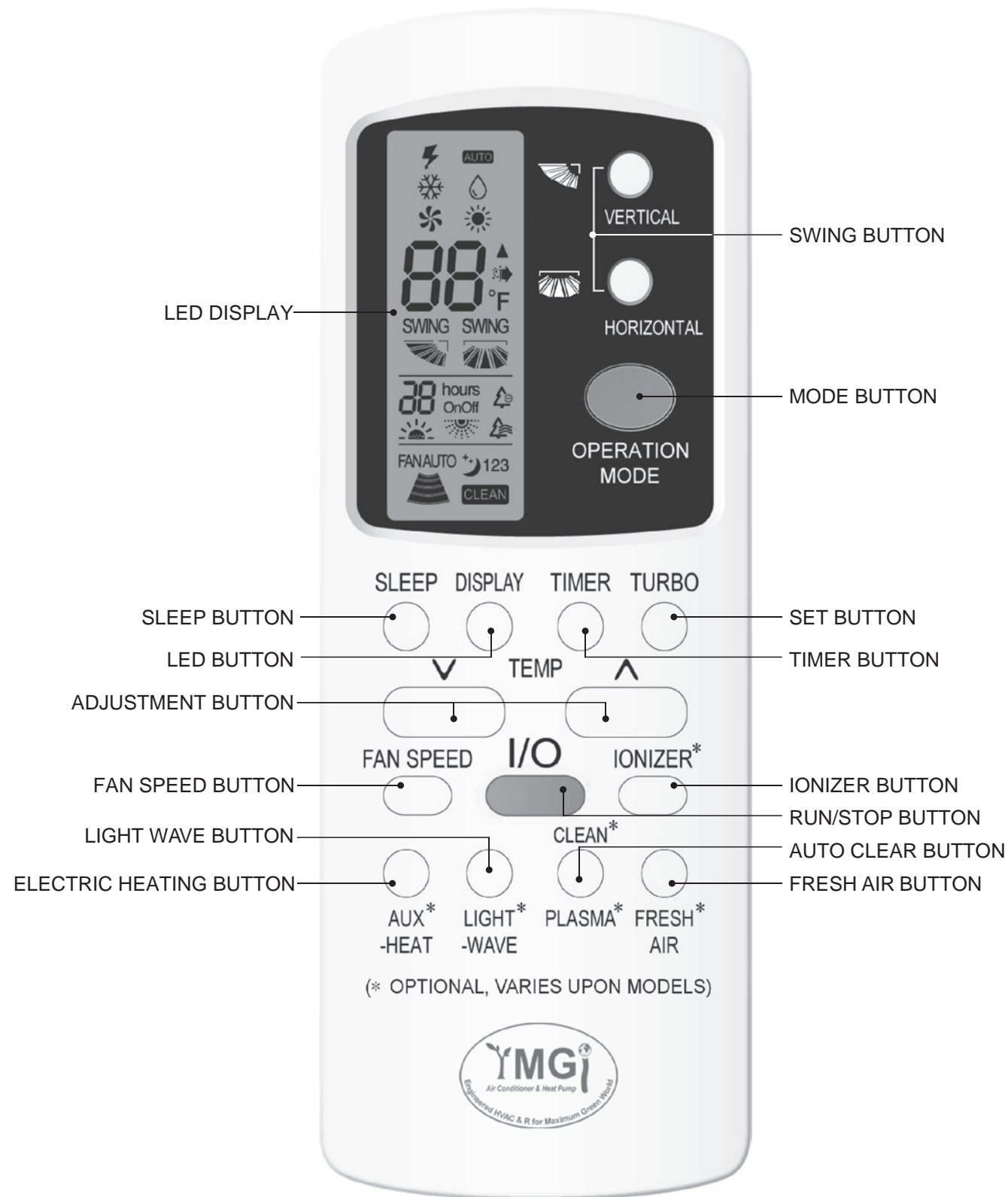
Each system is fully tested per rigorous standards at factory. Acoustically and thermally balanced design and systematically optimized system give each unit a healthy birth off the assembly line with proved quality and reliability.

Find the cooling/heating load capacity of the space where the unit will be in service. Select matched WMMS units for the space. Under sizing or over sizing equipment is NOT recommended.

### INDOOR UNIT-MAJOR COMPONENTS



## REMOTE CONTROL



## ATTENTIONS-MUST READ AND FOLLOW THE FOLLOWING, PRIOR TO CONNECTING REFRIGERANT LINES

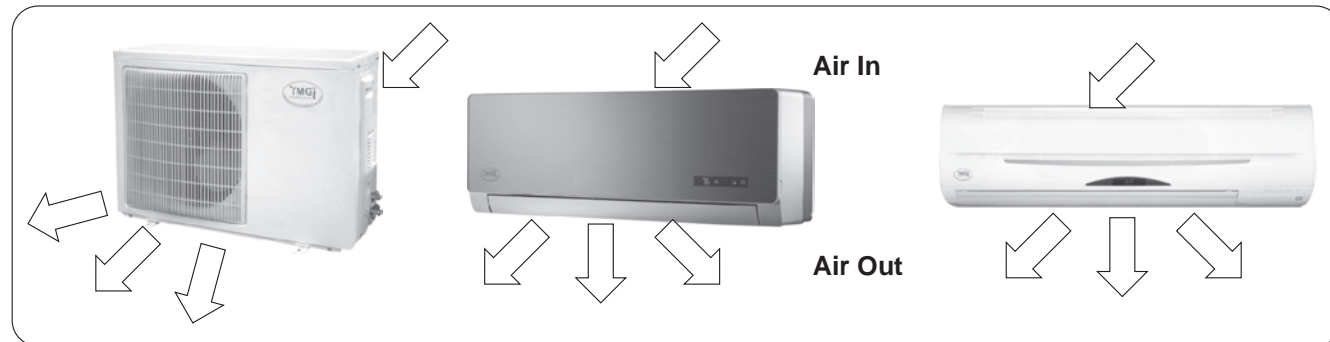
1. Metering device is installed in this outdoor condensing unit, no other metering device needs to be field-installed anywhere else.
2. One refrigerant filter/strainer is installed in the outdoor unit, no other filter/strainer needs to be field-installed anywhere else, otherwise it may cause extra pressure drop and even system under-performance or other problems.
3. If a refrigerant drier is to be field-installed, must be of enough size and correct flow-direction, following drier manufacturer's instruction. Fail to do so may cause unit problems.
4. Must check the indoor unit for leakage by checking if the indoor unit still holds the pressurized charge, by breaking the seal left at indoor refrigerant copper line connection, before connecting it to the inter-connecting refrigerant copper lines. If for some reason the break is made before you check it, must pressurize it and check for leakage.
5. Professionally conduct general refrigeration practice to connect copper lines and seal-tight correctly and properly. Must insulate and secure both discharge and suction copper lines.
6. Must keep the two valves at outdoor condensing unit front-seated (closed), and pressurize the refrigerant flow cavities between the inter-connecting copper lines and indoor unit to check leakage, before move on to conduct vacuum leakage test (20-30 minutes under 500 microns recommended).
7. Then back-seat (open) the two valves to release refrigerant factory-precharged in the outdoor condensing unit, into the inter-connecting refrigerant copper lines and indoor unit, ONLY if the system leakage is checked and passed (pressurization and vacuum check).
8. Must check all thermal functions at the final stage of installation. Both liquid and gas lines at outdoor condensing unit valves, should be cold at cooling mode, and hot at heat pump mode. If not cold or hot (E4 or E5 error code may show up at indoor unit to shut off the system and warn for system checking, must contact installer or service provider to check refrigerant charge and/or other items, accordingly. How cold or how hot it needs to be, varies upon ambient temperature, refrigerant charge/pipe length, indoor unit conditions and so on.
9. Adjust/check the refrigerant charge per pressure/temperature (super-heat or sub-cooling) at the service valves, or length of copper pipes, following the pressure-ambient temperature chart or 25' breaking point rule as factory-recommended in the installation manual.



## BRIEF INTRODUCTION TO MINI SPLIT WALL MOUNT SYSTEM

Mini Split Wall Mount Systems are designed for high performance, easy installation and service. Each system consists of one or several indoor units and one outdoor unit, which are connected by one set or several multiple sets of interconnection refrigerant pipes and electric wires.

As shown in the following sample picture of outdoor unit, air is drawn through the coil from the rear side and then discharged from the front side. In cooling mode, air passing through coil is heated; in heating mode, air passing through coil is cooled.



**Sample Wall Mount Mini Split System (For Continuous Engineering Improvement and Various Marketing Needs and Actual Part Availability Reason, Unit Appearance Subject to Change or Update Continuously without Prior Notice)**

Outdoor unit(s) provides the electrical and thermal power for the whole system. Electrical and thermal components such as compressors and motors and heat exchange coils and others, are incorporated into the cabinet in an optimized order. They can be either hung on the wall or installed on the ground. Once stacking or bracket kit is used, some outdoor units can be stacked 2 or 3 units high, upon unit size and applications. Air is discharged horizontally, quietly and smoothly. These units are perfect fit in locations where installation and applications of general up-flow condensing units are limited, such as apartments, condos, lofts, multi-families and high-rise buildings and others named or unnamed.

Indoor unit(s) delivers the thermal and acoustical comfort to the rooms. Air is drawn through the coil from the front or topside and then discharged from the bottom. In cooling mode, air passing through coil is cooled; in heating mode, air passing through coil is heated. Air is filtered or treated by the built in mechanism (washable or enzyme equipped or electrostatic powered filter, varies from model to model), before being delivered into the room, with more than enough comfort and care, at a wide angle (swing or not, varies from model to model).



Apartments



Office Buildings



Homes

### Application Samples of Wall Mount Mini Split Systems

NOTES: Since ductless system is not designed to incorporate or use with ducted return or discharge tunnels, one single-zone unit SHALL NOT be used to take care of the cooling or heating load of more than one-story room. Several single-zone ductless systems or multiple-zone ductless systems shall be proper in this regard.

**These units are designed for applications at:**

- \* Residential
- \* Institutional
- \* Commercial
- \* Light commercial
- \* Industrial
- \* Hospital

## IMPORTANT NOTES

### SAFETY WARNINGS

**READ THESE SAFETY WARNINGS COMPLETELY PRIOR TO ANY USE.**

	Ground connection
	Disconnect the plug

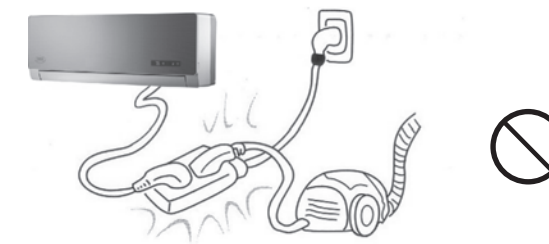
	Forbidden
	Imperative

These precautions are essential and must be strictly observed.

**DO NOT** draw on the power cord or refrigeration lines. Install them in secured positions. Plastic cover of line set is recommended.



**DO NOT** use smaller than enough wires. Do not put several circuits to one breaker. Don't use smaller than enough circuit breakers. Otherwise power failure or fire may be caused.



**DO NOT** pull on the power cord or refrigeration lines. Install them in a secured position. A line set plastic cover is recommended.

**DO NOT** install the unit in places where there is exposure to flammable materials or gas leakage.

**DO NOT** use wire or circuit breakers that do not meet electrical safety standards. Several circuits cannot be connected to one breaker.

**DO NOT** wire or open the unit while it is running. Make sure to shut off all circuits prior to inspecting or servicing the unit.

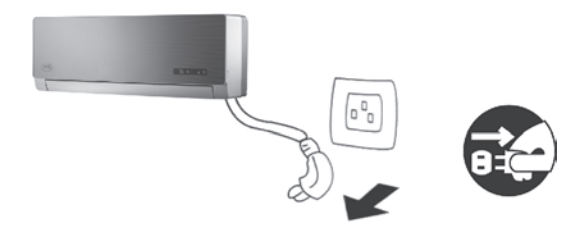
**DO NOT** install unit in a damp laundry room or near flammable gas. All units must be protected by certified electrical circuit breakers and in accordance with all safety codes.

**DO NOT** use the unit in cool or dry mode for prolonged periods where humidity is higher than 80%.

**DO NOT** blow the cold air directly towards people for prolonged period. Otherwise, people may get cold.



**DO NOT** wire or open unit while unit is running. Sparks or fire may occur. It may cause a shock to people.



**DO NOT** install the indoor unit close to cooking surfaces or ventilation systems. Poor placement could inhibit peak performance.

**DO NOT** blow cold air directly towards people for extended periods. It may get you a bad cold.

**DO NOT** use chemical solvents, flammable insecticides, or abrasive materials. Clean the unit only with a soft dry cloth or rag.

**DO NOT** continue to operate the unit if there is any abnormal odor, burning, scorching, or smoke. Stop and disconnect the unit immediately.

**DO NOT** use the system for anything other than what it was designed for or any non-HVAC purposes. Do not store near food, paint, or other chemicals.

**DO NOT** operate the unit for prolonged periods without refreshing ambient air. Opening a door or window periodically will suffice.

## IMPORTANT NOTES

- \* Good unit may not work properly or correctly, as designed or manufactured, if not installed properly or correctly.
- \* Customer do-it-yourself (DIY) installation caused and/or will cause trouble to the unit and your property and yourself.
- \* YMGI doesn't allow nor recommend nor honor warranty for DIY installation. Customers take full responsibility for DIY installation.
- \* DIY installation may save money at the front, but cost you more down the road, money and other headache.

### SAFETY CAUTIONS AND ALERTS

Installation, Operation, Maintenance, and Service shall follow professional standards and practices for conventional cooling and heating equipment, under International, National, State, City or Local Codes, and follow guidelines listed in all related manuals and associated product information provided directly, from YMGI. Failure to adhere to proper Installation, Operation, Maintenance, and Service could result in unit malfunction damage to equipment, personal property, or physical injury, or even death, which YMGI is not responsible for.

#### Installation must be performed following the YMGI Installation/Maintenance Manuals.

**Installation must be performed by a certified technical installer only.** DO NOT attempt to install the unit by yourself trying to save money. **Do-It-Yourself (DIY)** installation will void YMGI provided warranty and could result in injury or death, or property damage due to fire, electrical shock, leaking, collapsing, which YMGI is not responsible for.

**Install the unit onto a strong load bearing structure.** The location must be capable of handling the weight load of the unit to prevent the unit from falling or causing injury. Attach both the indoor and outdoor units to the brackets that are fixed to the right position securely.

**Only use manufacturer specified and codes allowed wires and conduits to connect to the units so the stress is not applied to the sections. Incomplete connecting and insecure fixing could cause fire or damage.**

**Wiring must conform to national regulations.** Failure to adhere to these standards could result in personal injury or death or property damage due to fire, electrical shock, falling units, or leaking.

**Connect the power cord directly to a designated and exclusive AC Power Circuit Breaker and or Disconnect Switch.** The circuit must exceed permissible currents and is free of insulation and contact defects. Shall refrain from intermediate or multiple connections to avoid fire or electric shock.

**DO NOT supply power until all wiring and tubing is checked completely.**

**Double check for gas leaks during or after installation.** The refrigerant gas may cause harmful substances when subjected to heat or fire. Refrigerant leakage will cause unit not to generate enough cooling or heating and even damage compressors and other parts.

**Shut off the main power prior to and during installation to avoid electrical shock.** Make sure that the electrical power is disconnected from the unit by making a notice or put a sign at the power switch panel, to keep other people from setting the power back during installation.

**Connect all wiring securely.** Any loose wire or other bad contact may cause an electrical arc, overheating, or fire hazard. Make sure that the unit is grounded following YMGI Instructions and NEC, International, State, City, and Local Codes. Electrical cover shall be securely attached to the indoor and outdoor unit service panels, otherwise, could result in fire or electric shock due to accumulation of dust, sediments, water, moisture, etc.

**Only use authorized YMGI parts in the installation, maintenance, service, and repair of YMGI units.** The use of non-authorized or defective parts will void the warranty and could cause injury or death or property damage due to water leakage, falling units, fire, electric shock, etc.

**Pay extreme caution to interconnecting refrigerant copper tubing, when installing or relocating the unit.** Make sure that no other substance than the specified refrigerant enters the refrigeration circuit. Any presence of foreign substances such as air or water or moisture can cause an abnormal pressure rise or overheat, which will result in an inefficient unit performance or unit malfunctions, and will shorten unit lifetime.

**Pay extreme caution to interconnecting refrigerant copper tubing when installing or relocating split system, as applicable.**

- 1) Make sure that no substance other than the specified refrigerant enters the refrigeration circuit. Any presence of foreign substances such as air or water or moisture can cause an abnormal pressure or overheat which will result in an inefficient unit performance or unit malfunction and will shorten the longevity of the unit.
- 2) Tape two ends of the copper tubing, tape the wires for the corresponding indoor unit to the copper tubing, and mark well with either A, B, C or D to identify each copper tubing/wiring bundle. Do not cross wire or mismatch tubing among indoor units of the multiple zone systems. Connect the electrical wiring and copper tubing from each zone of indoor unit to the corresponding wiring and copper tubing connections of the corresponding outdoor section (at outdoor condensing unit). Failure to do so will cause unit malfunctions, or damages to the compressors and other parts in the unit and even property or personal injuries.

## IMPORTANT NOTES

### YMGI LIABILITY DISCLAIMER

YMGI is NOT and shall NOT be responsible for any problems due to customer do it yourself(DIY) installation, non-licensed installation, and other unprofessional, incorrect, incomplete installation, abuse to the unit, or abnormal usage which would be considered outside normal constraints, or recommended ranges, and natural disasters such as fire, flood, earthquake, lighting, or others similar.

#### YMGI IS NOT AND SHALL NOT BE RESPONSIBLE FOR:

Damage to the units or property or person due to careless, or incautious, or rough handling at job site, such as pulling wires or pipes or plastic parts too hard, dropping units, robbing unit surfaces, and etc.

Damage to the units or property or person due to unprofessional or incorrect or incomplete mechanical installation of units. Examples, not limited to, are: sharp bending, not finding kinks, cracking or deterioration of connecting pipes, unevenly sitting units, not securing the units, not cleaning or leaving dirty inside of or not tightening interconnecting pipes, not finding refrigerant or water leakage, not vacuuming, not opening

refrigerant stopping valves at condensing units, not checking pressures, not covering bared refrigerant pipes and connections, not taping wire connections, not sealing drain pipe connections, incorrect piping such as crossing piping among multiple zones, and etc.

Accumulated costs, services, or disasters due to unprofessional or incorrect or incomplete installation, or abnormal usage of the units.

Under performance or damage to the unit, property or person, at low vacuum level due to unprofessional or incautious or bad installation, or damage to the unit or interconnecting pipes after installation and during usage.

Under performance or damage due to exceeding the recommended distances or elevation levels between indoor and outdoor units.

Under performance or damage due to the presence of any foreign substances left inside refrigeration pipes.

Under performance or damage due to the materials left in the air-conditioner during installation.

Under performance due to poor installation or abnormal usage in other formats.

Water leakage problems due to incorrect or poor installation or unsealed drain hoses.

Damage due to refrigerant or oil leakage as a result of unsuccessful pipe installation or damage to the unit and or pipes during or after installation.

Damage due to supplying power before all wiring and tubing is completely finished and checked.

Damage due to not keeping units in the right positions during handling, installation or operation.

Damage to the units or property or person due to customer do it yourself(DIY) installation, non-licensed installation, and other unprofessional or incorrect or incomplete mechanical or electrical installation not mentioned above.

Damage to the units or property or person due to any other Improper Usage not conforming to YMGI user regulations, user operation manuals and factory recommendations.

Under performance or damage due to operating the air conditioning system under poor physical conditions such as anywhere there is airflow blockage, too much sunshine, too much corrosive gas or the sort.

Under performance or damage due to the Usage outside the YMGI recommended operation ambient conditions including proper temperature and humidity ranges.

Under performance or damage due to the undersized or oversized unit selection, improper design, incorrect unit anticipation, and the sort.

Damage due to not grounding or poorly grounding unit, incorrectly wiring units, loose or unsecured wiring, or other bad contact which may cause an electrical arc, overheating, or fire hazard.

Damage or repairs required as a consequence of faulty installation or application.

Damage due to failure to start as a consequence of exceeding recommended voltage ranges (too low or too high), blown fuses, open circuit breakers.

Damage due to the inadequacy or interruption of electrical service.

Damage or repairs needed as a consequence of any misapplication, abuse, improper servicing, unauthorized alteration, or improper operation.

Damage due to the usage of parts not supplied or designated by YMGI Group.

Damage to the unit, property, and/or person of whatever kind, direct or indirect, special or consequential, resulting from the improper installation or usage of such products.

Damage from the units installed and operated outside **USA or Canada**.

Damage as a result of floods, winds, fires, lightening, accidents, corrosive atmosphere, or other conditions beyond the control of YMGI Group.

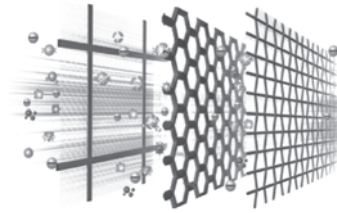




## IMPORTANT NOTES FOR UNIT OPERATION AMBIENT & SIZING

### OPTIONS AT MANUFACTURE OR AFTER SALES:

- \* Rust-free Cabinet
- \* Plug & Connect Valves
- \* Low Ambient Control
- \* Wall Mount Line Control
- \* Cabled Defrost Control
- \* Advanced Health Kits (HEPA/Enzyme/ Cold Catalyst Filter, Light Wave, Or, Anion Generator)
- \* Treated Coil
- \* Plug & Connect Copper Line Set



COOLING ONLY	MODELS	System Model	WMMS-09K-31A	WMMS-12K-31A	WMMS-18K-31B	WMMS-24K-31B
		Indoor Unit	WMMS-09E-31A	WMMS-12E-31A	WMMS-18E-31B	WMMS-24E-31B
HEAT PUMP	MODELS	System Model	WMMS-09K-32A	WMMS-12K-32A	WMMS-18K-32B	WMMS-24K-32B
HEAT PUMP+ELE. HEATER	MODELS	Indoor Unit	WMMS-09E-32A	WMMS-12E-32A	WMMS-18E-32B	WMMS-24E-32B
		Outdoor Unit	WMMS-09C-32A	WMMS-12C-32A	WMMS-18C-32B	WMMS-24C-32B
REF. TUBE/WIRE INS. KIT	Copper Sets, Wiring, Putty, Wall Sleeve, Wrap, Drain Hose	INST-1438-xx	INST-1412-xx	INST-3858-xx	INST-3858-xx	
COOLING CAPACITY	Rated ID 80/67F OD 95F	BTU/H (1), 2)	9000	12000	18000	24000
HEATING CAPACITY	Rated ID 70/60F OD 47F (17F)	BTU/H (1), 2)	9500 (6120)	12800 (7780)	19000 (11350)	25000 (15360)
RECOMMENDED WORKING TEMPERATURE RANGES	COOLING ID/OD (F) 3)	Indoor Side 61 to 105 / Outdoor Side 45 to 115 4)				
RECOMMENDED WORKING TEMPERATURE RANGES	HEATING ID/OD (F) 3)	Indoor Side 17 to 86 / Outdoor Side 17 to 75 5)				
ELECTRIC HEATER (SUP.)	HEATING BOOSTER(-34B MODELS ONLY)	W(MAX)	800	1000	1200	1200
DEHUMIDIFICATION	RATED	PTS./H	3.4	4.6	6.9	7.6
SEER	RATED	BTU/H.W	13			
HSPF	RATED	BTU/H.W	9.2			
SOUND LEVEL (Actual)	INDOOR / OUTDOOR	dB(a)	26-34 / 42-51	28-38 / 43-51	32-41 / 46-53	38-45 / 48-54
REFRIGERANT	PRE-CHARGED FOR 25' TUBING R410A					
POWER SOURCE	FROM CIRCUIT BREAKER TO OUTDOOR TO INDOOR UNIT A: 115/1/60 B: 208-230/1/60					
TOTAL CURRENT	W/O HEATER (31,32 Models)	AMP	6.9	8.1	6.4	8.6
	WITH HEATER (34 Models)	AMP	10.4	12.4	11.6	13.8
MCA	W/O HEATER (31,32 Models)	AMP	8.9	9.5	8.8	10.9
	WITH HEATER (34 Models)	AMP	13.0	15.0	14.5	16.8
HVAC CIRCUIT BREAKER SIZE	W/O HEATER (31,32 Models)	AMP	15.0	20.0	20.0	25.0
	WITH HEATER (34 Models)	AMP	20.0	25.0	25.0	30.0
INDOOR FAN MOTOR	FAN	TYPE	CROSS FLOW			
		CFM H/M/L	235/200/185	330/310/235	645/575/515	700/615/560
	MOTOR (PSC)	RATED AMP	0.20	0.40	0.39	0.56
OUTDOOR FAN MOTOR	FAN	TYPE	PROPELLER			
		CFM	1175	1175	1765	2350
	MOTOR (PSC)	RATED AMP	0.20	0.50	0.60	0.90
COMPRESSOR	HERMETIC	TYPE	ROTARY			
		BRAND	Hitachi, Sanyo, Panasonic			
CONNECTION TUBE	DRAIN	DRAIN PIPE	Flexible			
	REFRIGERANT	DISCHARGE	1/4"	1/4"	3/8"	3/8"
ALLOWED MAXIMUM REF. TUBE	LIFT	FT	25	25	25	25
	DROP	FT	25	25	25	25
	TOTAL LENGTH	FT	50	50	65	75
WEIGHT	INDOOR-NET	LBs	20	24	33	37
	INDOOR-GROSS	LBs	25	28	44	46
	OUTDOOR-NET	LBs	57	81	110	150
	OUTDOOR-GROSS	LBs	65	89	121	172
DIMENSION W×H×D	INDOOR-NET	INCH	31.5x11.5x7.8	33.9x11.5x8.0	42.5x13.0x8.7	49.5x12.8x9.1
	INDOOR-BOX	INCH	34.3x14.4x11.0	36.6x14.4x11.0	46.5x16.7x11.9	52.0x16.3x12.8
	OUTDOOR-NET	INCH	27.6x21.3x10.0	31.1x21.3x9.7	33.3x26.8x12.2	34.6x31.1x14.2
	OUTDOOR-BOX	INCH	31.5x24.4x14.8	35.2x24.4x14.0	39.8x30.1x16.9	40.6x35.5x18.9
LOADING CAPACITY	20/40/40/HQ	SETS	108/228/258	102/220/242	66/138/148	48/98/116

- Performance rated for matched system at standard conditions-cooling ID 80/67F, OD 95F, heating ID 70/60F, OD 47/43F. Unit performance varies when weather changes from the standard one.
- Select equipment capacity/sizes per space load calculation schedule at local design temperatures and cooling & heating hours. Not to over size or under size equipment.
- Watch unit operation during extreme weather conditions in summer and winter. After the unit is used for quite a while in these weather, unit may step into protection mode and stay idle.
- May work in lower temp if installed with optional low ambient controller. Ref. ICM 326HN.
- Capacities and efficiency decrease, as outdoor temperature drops.

## CONTROL SPECIFICATION

### DRY MODE

\* In this mode, the air conditioner automatically sets the room temperature and this temperature is uncontrollable by remote controller. The initial ST=RT-2 .

\* Control during dry mode:

- When  $RT < 15$ , dry mode is not available; when  $RT \geq 15$ , the compressor intermittently runs under the influence of TS and RT.
- When  $RT \geq 23$ , if  $RT \geq ST$ , the compressor runs intermittently as this: Run for 8 minutes → Stop for 3 minutes

If  $RT < ST$ , the compressor runs intermittently as this: Stop for 4 minutes → Run for 1 minute

- When  $RT < 23$ , if  $RT \geq ST$ , the compressor runs intermittently as this: Run for 2 minutes → Stop for 3 minutes

If  $RT < ST$ , the compressor runs intermittently as this: Stop for 4 minutes → Run for 1 minute

- In this mode, the indoor fan keeps running at low speed with the same pace as the compressor, and this speed can not be controlled by remote controller.

### AUTO MODE

\* In this mode, the air conditioner can automatically adjust the room temperature to decide the most suitable temperature. At the start of operation, the unit will automatically select the operation mode according to the room temperature. The following table shows the conditions which are set at start up.

Room Temperature (RT)	Cool only type		Heat pump type	
	Mode	Initial Setting Temperature	Mode	Initial Setting Temperature
$RT \geq 79^\circ\text{F}$	Cool	75°F	Cool	75°F
$79^\circ\text{F} > RT \geq 77^\circ\text{F}$		RT-2		RT-2
$77^\circ\text{F} > RT \geq 73^\circ\text{F}$	Dry	RT-2	Dry	RT-2
$RT < 73^\circ\text{F}$		70°F		79°F

\* Auto mode entering

- Once some operation mode is determined, it can not be changed even if the RT has altered.
- You can change the operation mode by remote controller.

\* If restart within 2 hours, the unit will resume the same operation mode as before.

If restart after 2 hours, the unit will select the operation mode according to the initial room temperature.

\* At auto mode the ST can only be set + or - 2 of the RT.

### FAN MODE

\* Indoor fan runs at the set speed while compressor and outdoor fan are turned off.

\* Indoor fan speed can be adjusted for low, medium and high.

### SLEEP MODE

#### Sleep mode in cooling and drying running

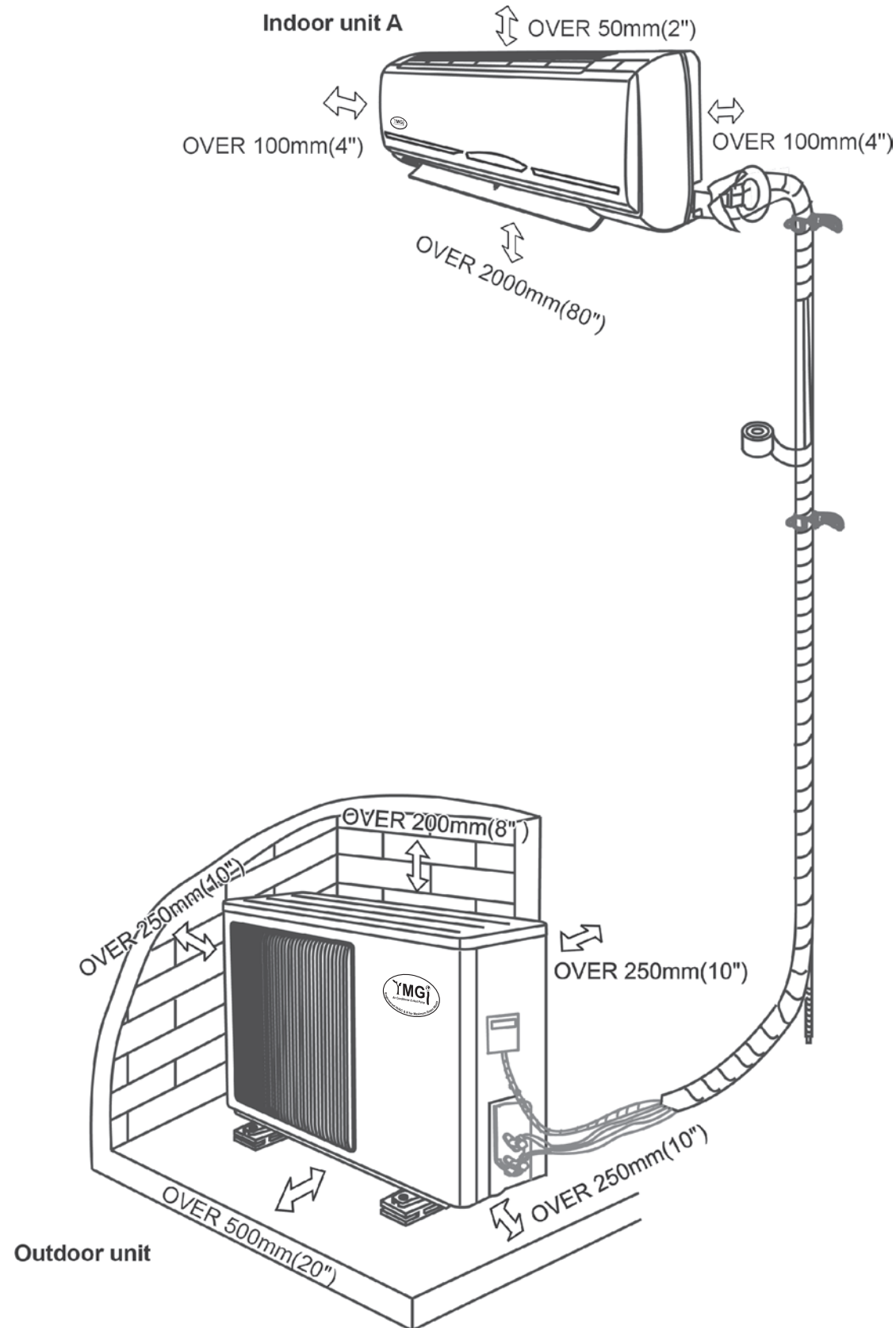
- The indoor fan runs at low speed.
- After one hour of operation the set temperature will increase by 34°C. One hour later, the set temperature will increase by 1°C once more. The unit will then continue operating at 36°C above the set temperature.

#### Sleep mode in heating running

- The indoor fan runs at low speed.
- After one hour of operation the set temperature will decrease by 36°C. One hour later, the set temperature will decrease by 2°C once more. The unit will then continue operating at 39°C below the set temperature.

## INTRODUCTION

### CLEARANCE REQUIRED AROUND UNITS-SINGLE ZONE



## INTRODUCTION

### INSTALLATION LOCATIONS

The location and structure shall also be convenient for both installation and service.

The location shall NOT be where discharge air and noise could bother your neighbor.

The location shall NOT be somewhere drain may cause any damage to property or bother the neighbor.

The location shall NOT be somewhere soldering or torching work may cause fire or smoke to the materials around.

The location shall NOT be somewhere near flammable gases.

The location shall NOT be in or close to corrosive gases.

The location shall NOT be somewhere children can access.

Inspect the unit for damage and missed parts or accessories. If damage is found or parts are found missing, call the distributor right away.

Spin fan wheels or blades to check if and make sure they can rotate freely. If fan wheel scratches with housing, call the distributor right away and do not to proceed with the installation before it is fixed.

Check the unit to make sure no foreign materials has been left in the unit.

Check all the parts and accessories that are needed other than those provided with the unit. It is strongly recommended to only use YMGi supplied or recommended parts and accessories.

Be sure a properly sized circuit breaker is for the electric power to the units.

Pre-build the support platform on the ground or bracket for the wall before or during construction and before installation. Refer to the table below for footprint dimensions.

Read installation instructions of all units thoroughly.

Ask rep./distributor/us anything you are not sure about.

Get your tools and parts ready for installation.

**⚠ CAUTION** All Units Shall Be Installed by Licensed Contractor or Technician.

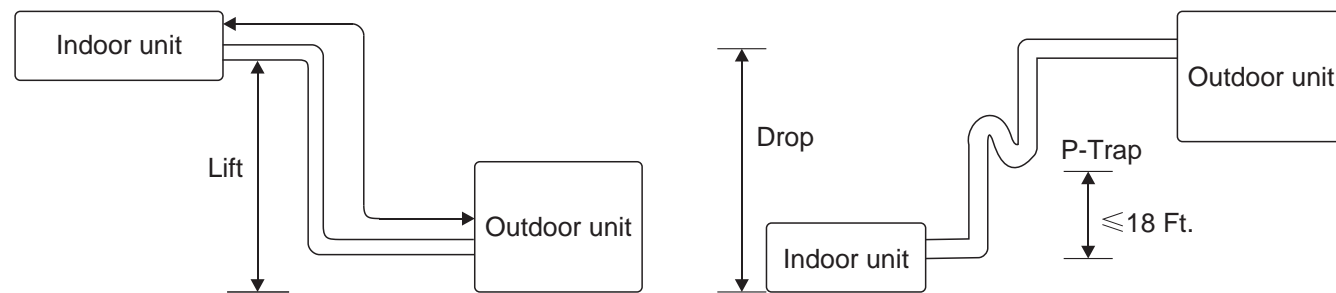
**⚠ CAUTION** Read Manuals before Installation.

## INSTALLATION POSITIONS FOR OUTDOOR UNIT

- \* To be installed at the position where the air delivered from the unit can reach every corner of the room.
- \* To avoid being affected by the outdoor air.
- \* To avoid blockage to the air inlet or outlet of the unit.
- \* To avoid too much oil smoke or steam.
- \* To avoid possible generation, inflow, lingering or leakage of flammable gases.
- \* To avoid high-frequency facilities (such as high frequency arc welders, etc.).
- \* To avoid the places where acid solutions are frequently used.
- \* To avoid the places where some special sprayers (sulfides) are frequently used.
- \* Not to install on top of the musical instruments, TV, computer etc. valuable appliance.
- \* Not to install a fire alarming device near the air outlet of the unit (during operation, the fire alarm device might be erroneously triggered by the warm air from the unit).

## HEIGHT LIMITS OF INDOOR AND OUTDOOR UNITS

- \* Either the indoor unit or the outdoor unit can be higher, but the height difference must comply the stated requirements.
- \* Try to reduce the bending of the piping line as much as possible so as to avoid possible negative impacts upon the performances of the units.
- \* Make P-trap if elevation drop difference is more than 25", as illustrated below.



### Refrigerant Pipe Min/Max. Length, Rise and Drop Height

1,000 Btu/h	Min. Length (Ft.)	Max. Length (Ft.)	Max. Rise Height (Ft.)	Max. Drop Height (Ft.)
09-12	15	50	20	28
18-24	15	75	25	35
30-36	15	100	35	50

## DURING INSTALLATION-INDOOR UNIT

### INSTALL WALL MOUNT PLATE

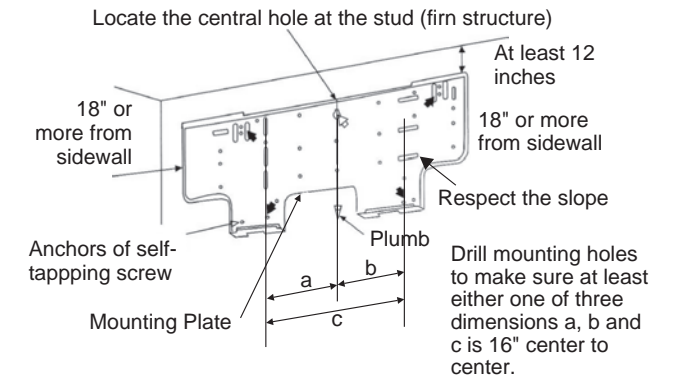
- \* Check unit to make sure the unit is good shape and ready to install.
- \* Check to make sure the installation location is firm enough to hold the weight of the whole unit and is convenient to installation, maintenance, service and close to the indoor unit but not causing noise or airflow issues to neighbour.
- \* Install Indoor unit. Enough anchor bolts/nuts shall be used to secure mounting plates for indoor units. Brackets should be at level position.

### Install Mounting Plate and Drill Hole for Combination of Copper Line/Wire Cable/Drain Hose

#### NOTES:

Anchors must be put into the holes, where the solid arrows are pointing, as shown above, to secure the mounting plate firmly and to hold the weight of indoor unit. If more screws/anchors are to be used, make sure to keep the two holes close to each other, at least 2 inches apart.

Mounting plate should be attached to the structural part of the wall. Minimum clearance, as shown below, is required in order to ensure proper airflow and enough service room.

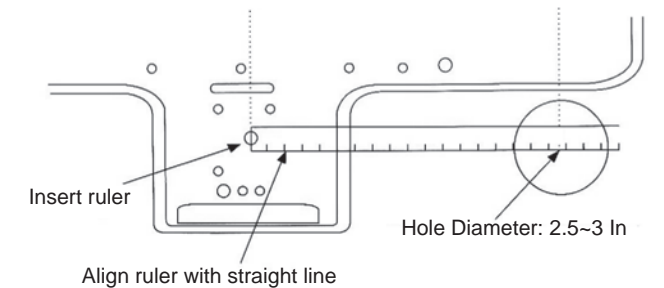


#### STEPS TO MOUNT PLATE:

- Mark drill positions. At least 4 anchor holes, one at each perimeter corner of the plate are needed to secure the plate, where the bold arrows are pointing, as shown in the picture above. Refer to the specification sheet for unit weight so that enough anchors are installed at proper positions.
- Pre-drill guiding holes where are marked for anchors or screws on the wall
- Confirm the position of the holes and finish drill to the depth needed for anchors (NOT for screws)
- Align mounting plate holes with those holes drilled on the wall and put anchors or screws into the holes to secure mounting plate.

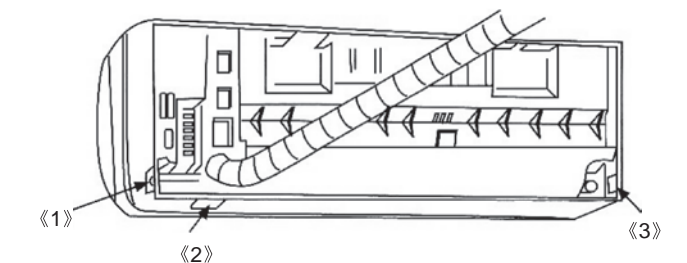
#### DRILL 3IN HOLE FOR PIPING/WIRING/DRAIN

- Locate the centre where the hole will need to drilled.
- Drill the holes of 2.5-3Inch diameter. A down pitch about 1/4" per foot, as illustrated below, is needed for the hole, in order to drain the condensate properly.



#### PREPARE INDOOR UNIT- COPPER LINE SET/DRAIN HOSE

- If pipes need to come out of the right side (facing the front of indoor unit) of the indoor unit, snap off portion «1» on plastic casing.
- If pipes need to come out of the bottom side (facing the front of indoor unit) of the indoor unit, snap off portion «2» on plastic casing.
- If pipes need to come out of the left side (facing the front of indoor unit) of the indoor unit, snap off portion «3» on plastic casing.





## DURING INSTALLATION-INDOOR UNIT

### PREPARE INDOOR UNIT- COPPER LINE SET/DRAIN HOSE

- If pipes need to be rerouted to a different direction from the one preset at factory (towards left side, if facing the front cover of indoor unit), lay down the indoor unit on soft cushion or foam. Don't rub the plastic casing.
- In order to keep from pipe damage, need to bend the copper tubing set gently and slowly (finish bending no less than 10 seconds/90 degree), by holding at the root of the original 90 degree bend nicely and firmly. Don't rub two copper lines during bending. Better to cut off the insulation and bend the two pipes one by one, not two together.

- If pipes need to come out of the rear side (facing the front of indoor unit) of the indoor unit, no need to snap off anything.



Slice the insulation before bending.

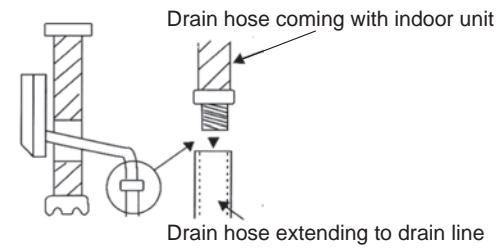


Hold the 90 degree bend root, bend one tube one time, slowly, no quicker than 10 seconds/90 degree bend.

### INSTALL DRAIN PIPE AT INDOOR

- The drain hose must be placed beneath the copper pipes and **MUST NOT** be hunched or bended sharply.
- Do not pull the drain hose too hard, otherwise it may get broken.
- Before passing drain hose through the hold, wrap with insulation to keep from possible damage.
- The copper pipe and the drain hose must be wrapped by piping wrap.

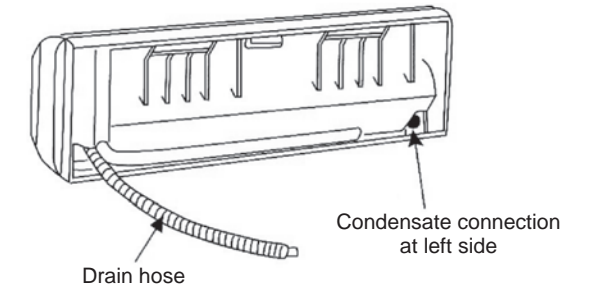
- Insulation pad (underlay) should be used where the pipe contacts the wall.



## DURING INSTALLATION-INDOOR UNIT

### REFIT DRAIN HOSE FROM THE RIGHT TO THE LEFT SIDE

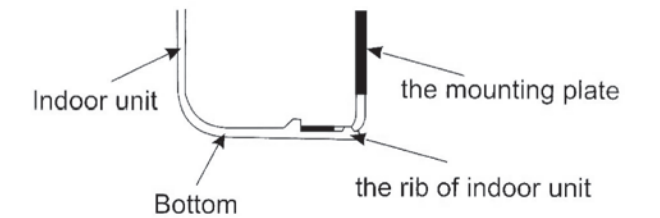
- If drain hose needs to be refitted from the original position (right side) to left side of the indoor unit, careful handling is very necessary.
- Refitting method: remove the drain hose from original position, without breaking hose. Unplug the plug at the left side. Apply water-resistant glue to fit the drain hose and the fitting before securing it.
- Apply water-resistant glue onto the plug and fit it back into the condensate connection at right side.



**NOTES:** May use some sort of clamp to double secure connections.

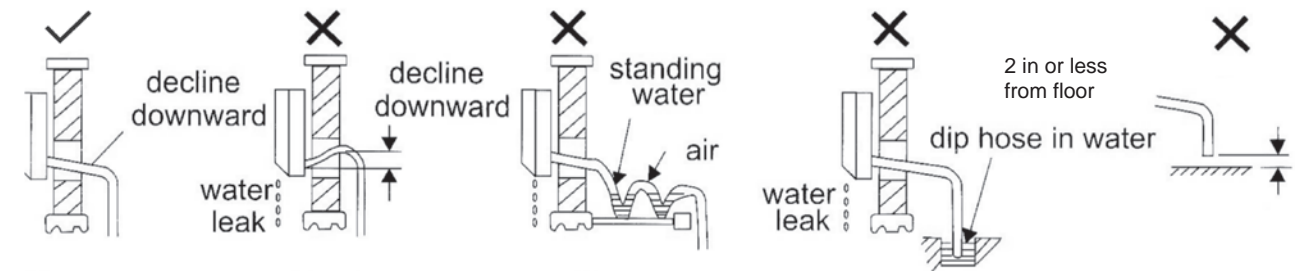
### HANG INDOOR UNIT

- Run copper set/wire cables/drain hose through the wall hole and hang the indoor unit onto the mounting plate (place the hook on the mounting plate into the hanging rib at rear side of plastic casing).
- Snap the plastic casing bottom into the mounting plate, gently .



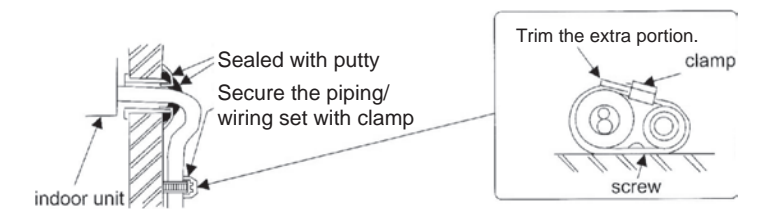
### SHAPE THE DRAIN HOSE

- To drain the condensate easily, the drain hose should be inclined downward (pitched towards drain direction 1/4" per foot).
- Figures below from the 2nd to 5th show some incorrect practices.
- Drain hose may be extended using the hose coming with the installation list.



### STUFF AND SEAL THE HOLE FOR COPPER LINE SET/WIRE CABLE/DRAIN HOSE

- Use putty to seal the wall hole.
- Use clamp (pipe fastener) to secure the pipe at specified position.



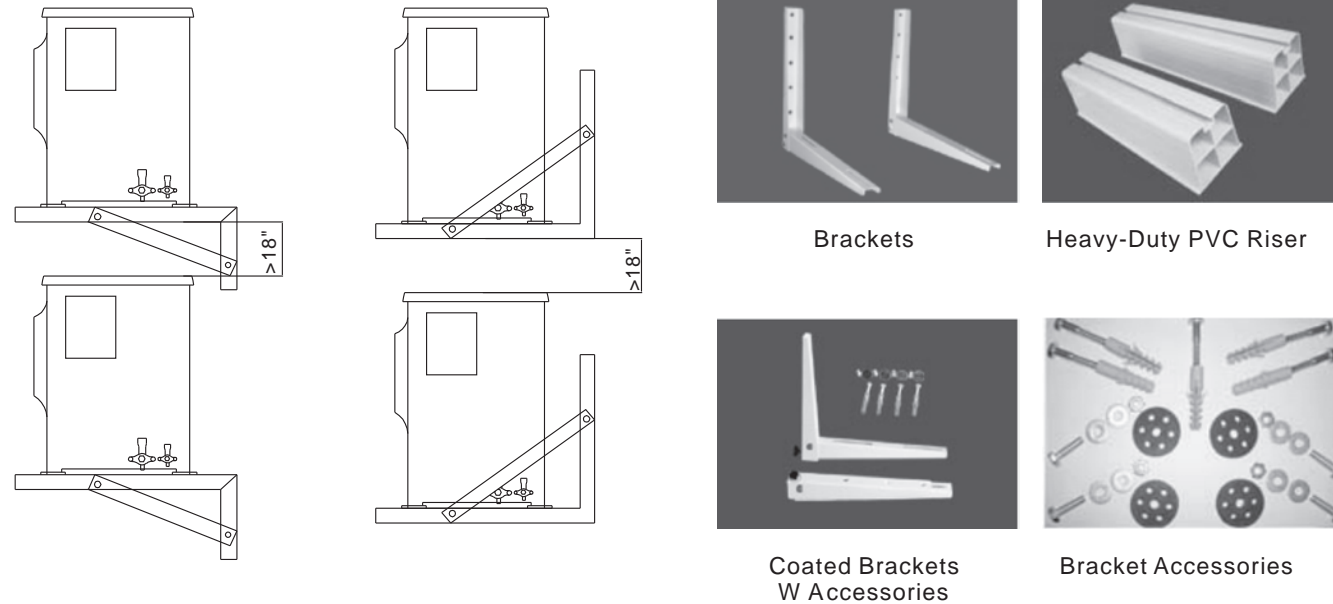
## INSTALLATION-OUTDOOR UNIT

### INSTALL OUTDOOR UNIT

Strongly suggest to install the outdoor unit above the ground either on platform or brackets as shown below.

Heat pump unit must be lift up from ground level, since condensate must be drained out of the drain pan in condensing unit; otherwise, condensate may be iced up to damage the condensing unit.

Suggest to use YMGI-provided brackets and condensate drainage fitting accessories.



(Actual unit/parts looking/installation may vary from the illustrated)

### INSTALLATION & PICTURES-WALL MOUNT BRACKET FOR OUTDOOR UNIT(S) (PART VARIES UPON MODELS/AVAILABILITY)

- Select a secured location where the outdoor unit will be installed properly.
- Orient the unit rear side (intake grill) towards wall and front side (discharge grill) away from wall.
- For ground installation, use factory-provided riser and accessories. Not to bolt unit feet directly onto ground. Riser or brackets shall be levelled at outdoor unit foot surfaces. Secure unit foot by tightening bolts, nuts and anti-vibration pads.
- For wall mount installation, use factory-provided brackets, anchors and accessories.

## WIRING OUTDOOR UNIT

### CONNECT WIRING BETWEEN OUTDOOR UNIT AND INDOOR UNIT

- Check the nameplate for rated electrical data.
- Check power and wire length and sizes. Use NEC, 105°C/221°F type copper wire. Refer to the following tables, for proper selection of wire gauge and colour.

### OUTDOOR WIRING: OUTDOOR-INDOOR UNIT & DISCONNECT SWITCH BOX/CIRCUIT BREAKER/FUSE

- Remove the wiring diagram cover where also the handle for moving unit is located.
- Follow the wiring diagrams on the unit or the wiring diagram manual that comes with the indoor unit to get familiar with wiring and make sure nothing is made wrong. If there is any discrepancy, always use the one put in the units.
- Connect wires between indoor unit and outdoor unit-power wire from outdoor to Indoor, control wires from Indoor unit to outdoor unit. Pass wire through certified wire pipes, harnesses and knockouts. Enough length shall be left for future service. Only copper wire is allowed.
- Strictly follow NEC or state or local codes to select wires, circuit breaker, conduits and to perform installation work.
- Bring in line-voltage power input wires from circuit breaker to line-voltage wire terminal block at outdoor unit. Pass through certified wire pipes, harnesses and knockouts. Enough length shall be left for future service. Only copper wire is allowed.



Disconnect switch box for outdoor unit



(Field-Supplied, Not Spliced and Not Knotted, Water-Proof Sealed Tight, UL Approved)

### PIPING AND WIRING SIZES

Model	Liquid/ Gas Line	Min/Max. Length/ +/-Elevation	Power Wire Disconnect Switch Box to Outdoor Unit	Power/ Control Wire Outdoor to Indoor Unit	HVAC Circuit Breaker/Fuse AMP (to Outdoor Unit)
09K	1/4" & 3/8"	15/70/25/35	L/N/G, 115/1/60, 14AWG	Power: L/N/G Control: AC-2 HP-2/3/4	20/10
12K	1/4" & 1/2"	15/70/25/35	L/N/G, 115/1/60, 14AWG	Power: L/N/G Control: AC-2 HP-2/3/4	25/10
18K	3/8" & 5/8"	15/100/30/50	L1/L2/G, 208-230/1/60, 14AWG	Power: L1/L2/G Control: AC-2 HP-2/3/4	20
24K	3/8" & 5/8"	15/100/30/50	L1/L2/G, 208-230/1/60, 14AWG	Power: L1/L2/G Control: AC-2 HP-2/3/4	25

## CONNECT REFRIGERANT PIPES BETWEEN INDOOR AND OUTDOOR UNITS

Firstly, connect copper tubes at indoor unit. Bend pipes by tools but not by hands. Extra length is needed for future service.

### REFRIGERANT PIPES:

For distance other than 25' between indoor and horizontal venting condensing units, refer to the following table for copper sizes.

#### Refrigerant Valve and Pipe Size/Length

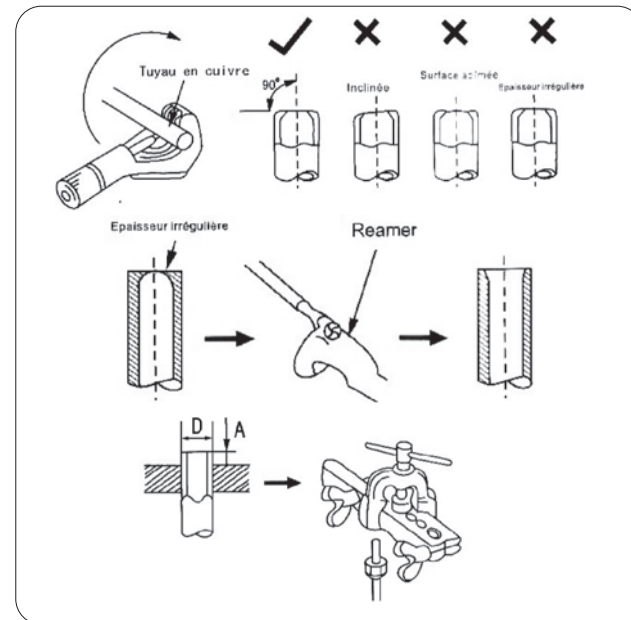
K Btu/h	Valve Size	Line Sizes at Different Length	
	Liq, Gas	15-30ft	31-60ft
09	1/4", 3/8"	1/4", 3/8"	1/4", 1/2"
12	1/4", 1/2"	1/4", 1/2"	3/8", 5/8"
18	3/8", 5/8"	3/8", 5/8"	3/8", 3/4"
24	3/8", 5/8"	3/8", 5/8"	3/8", 3/4"
30	3/8", 5/8"	3/8", 5/8"	3/8", 3/4"
36	3/8", 5/8"	3/8", 5/8"	3/8", 3/4"

### CUT REFRIGERANT PIPE:

Make sure the pipe section where is to be cut is straight and smooth. Apply cutting blade straightly perpendicular to the pipe surface. Don't cut too fast or too hard. Turn and tighten the tube cutter slowly. Remove residual left at the cutting edge. The cutting edge should be clear and clean and smooth.

### Running Interconnection Refrigerant Lines:

Use clean refrigeration grade of copper tubing only. Keep the copper lines from kinking and transmitting noise to walls, cabinets, etc. Not to exceed 100' with 35' of vertical lift included. Insulate the suction line with at least 3/8" thick insulation tubes. Band and tape and secure refrigerant lines. Support copper lines at proper distance apart to keep tubes from sagging.



## CONNECT REFRIGERANT PIPES

### Refrigerant Pipe Min/Max. Length, Rise and Drop Height

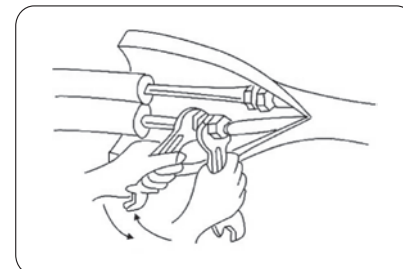
1,000 Btu/h	Min. Length (Ft.)	Max. Length (Ft.)	Max. Rise Height (Ft.)	Max. Drop Height (Ft.)
09-12	15	50	20	28
18-24	15	75	25	35
30-36	15	100	35	50

### Connect Copper Pipes-Flare/nut Connection at Both Indoor and Outdoor Units

Proper torque shall be applied to make good connection at female nut, flare and male nut, as recommended in the following table. Too much torque may damage and break flare/nut seal. Too less torque may not ensure good seal. ALWAYS use a pair of wrenches.

#### Refrigerant Pipe Flare/Nut Connection Tightening Torque

Flare Nut	Tightening Torque
1/4-3/8"	25 Ft. LBs (350 Kgf.cm)
1/4-1/2"	40 Ft. LBs (560 Kgf.cm)
1/2-3/4"	60 Ft. LBs (840 Kgf.cm)
7/8-1 1/8"	110Ft. LBs (1540 Kgf.cm)

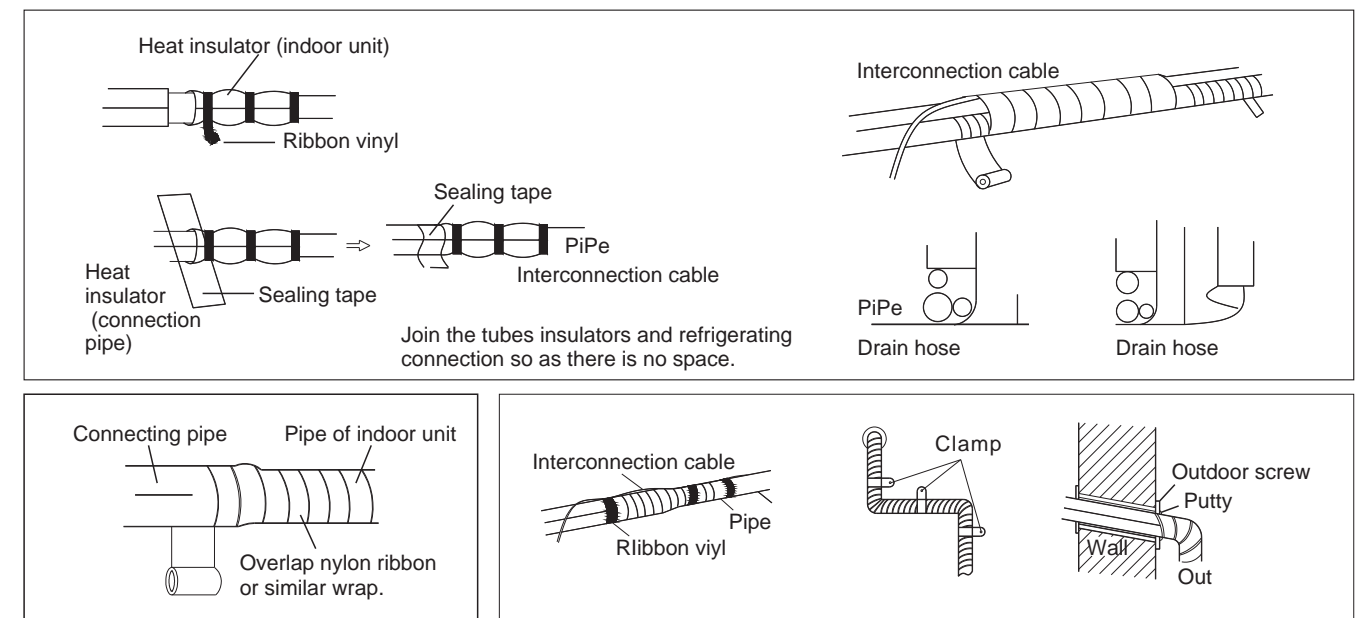


### Connect Copper Pipes-Sweat Connection

In this case, put wet rag to protect valves or other components from being overheated. When using flux, rub the tube surface using steel wool to shine and clean to dry as so to keep to-be-sealed system from any possible contamination.

## CONNECT REFRIGERANT PIPES BETWEEN INDOOR AND OUTDOOR UNITS

### Seal Copper Line Set/Wire Cable/Drain Hose Line Combination



- \* Run cables along with the refrigerating copper line sets and secure them with tapes at 6 feet apart.
- \* Wrap tape closely (cover a third of the width of the nylon ribbon tape applied early) to get good seal.
- \* Tape to seal the end of taping.
- \* Shape the pipe combination gently, without causing kinking, sharp bending, or other damage to it.
- \* Fix the pipe combination securely on the external wall with proper clamps, as drafted below, at 6 feet apart.
- \* Fill the gap between the wall hole and wall sleeve with putty to keep from rain or dust getting inside.

## PIPING GUIDE

To keep the allowed bending radius, please make the packed soft pipes vertical for expanding.			Please do not expand only one side of the packed soft pipes.
Please make use of semicircle pulley to keep the allowed bending radius.			Extremely bending could damage the pipes.
Please use twisting wheel to avoid improper bending.			Over length soft pipes will lead to irregular bending.
Please use rigid elbow to keep the bending radius while soft pipes operating.			Undersize bending will damage the soft pipe.
Please keep the minimum bending radius while installing.			Short soft pipes will have them bending undersize, it's not allowed.



## INSTALLATION ACCESSORIES

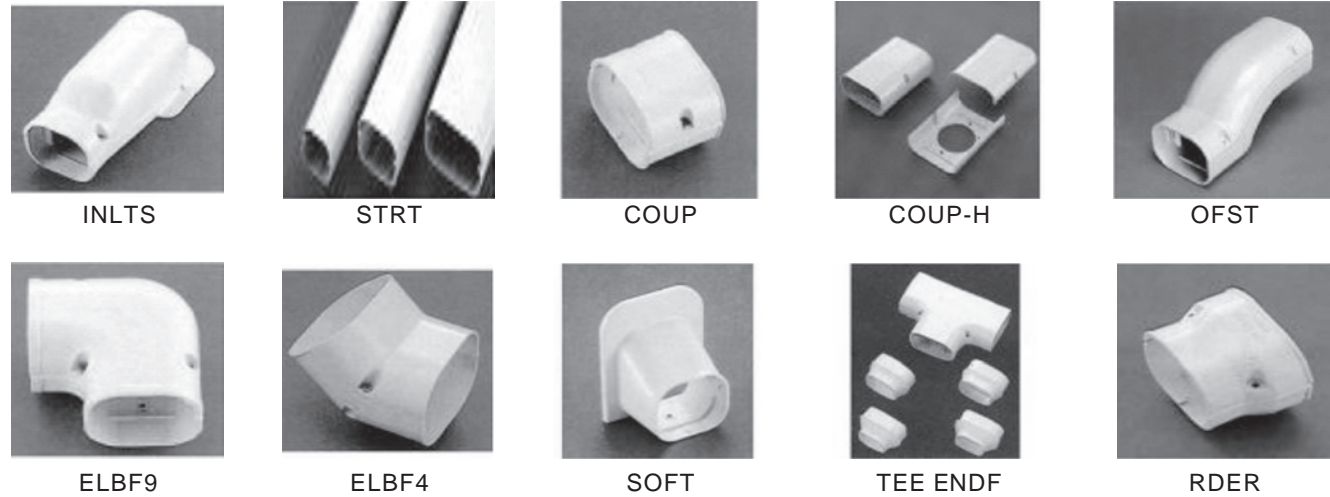
### CONNECT REFRIGERANT PIPES

#### Seal Copper Line Set/Wire Cable/Drain Hose Line Combination:

- \* Use factory-recommended components, as briefly illustrated below.
- \* Cover line set in a sequence, either from indoor to outdoor, or the other way.
- \* Secure line set covers onto the wall using factory-recommended accessories.

### LINESET COVERS

**CAUTION** Not to damage line sets.

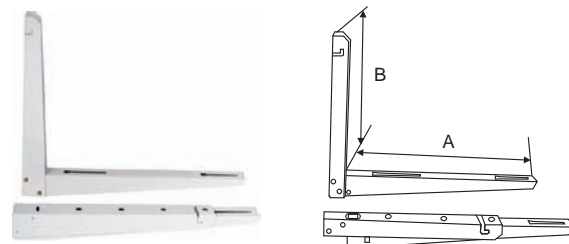


### OUTDOOR UNIT FOOT RISER OR BRACKETS

#### BRKT-SC1

- \* Made of sturdy steel.
- \* Painted with weatherproof polyester powder.
- \* Anchors/nuts/screws (general use) may be included.

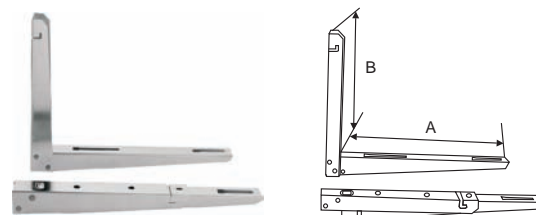
Model	Size(Inch)		Capacity	
	A	B	LBs	Btu/h
BRKT-0912-SC1	17.7	13.8	158	09K-12K
BRKT-1824-SC1	21.7	17.7	220	18K-24K
BRKT-2430-SC1	21.7	17.7	264	24K-30K
BRKT-3660-SC1	22.4	21.7	396	36K-60K



#### BRKT-ST1

- \* Made of stainless steel.
- \* Anchors/nuts/screws (general use) may be included.

Model	Size(Inch)		Capacity	
	A	B	LBs	Btu/h
BRKT-0912-ST1	17.7	13.8	158	09K-12K
BRKT-1824-ST1	21.7	17.7	220	18K-24K
BRKT-2430-ST1	21.7	17.7	264	24K-30K
BRKT-3660-ST1	22.4	21.7	396	36K-60K

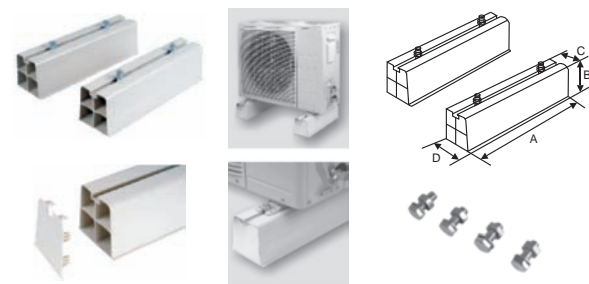


#### RIST-PVC

##### Ground Riser Accessories: End Caps (Optional)

- \* Shock-proof PVC, Weatherproof & UV resistant.
- \* Supplied with fastening screws and anchor bolts.
- \* Easy and quick to install on any ground surface.
- \* The "honeycomb" structure acts as an anti-vibration & humming absorption for a quite operation.

Model	Size(Inch)				Capacity	
	A	B	C	D	LBs	Btu/h
RIST-0912-PVC	14.2	3.7	3.1	4.1	158	09K-18K
RIST-1860-PVC	17.7	3.7	3.1	4.1	220	18K-60K

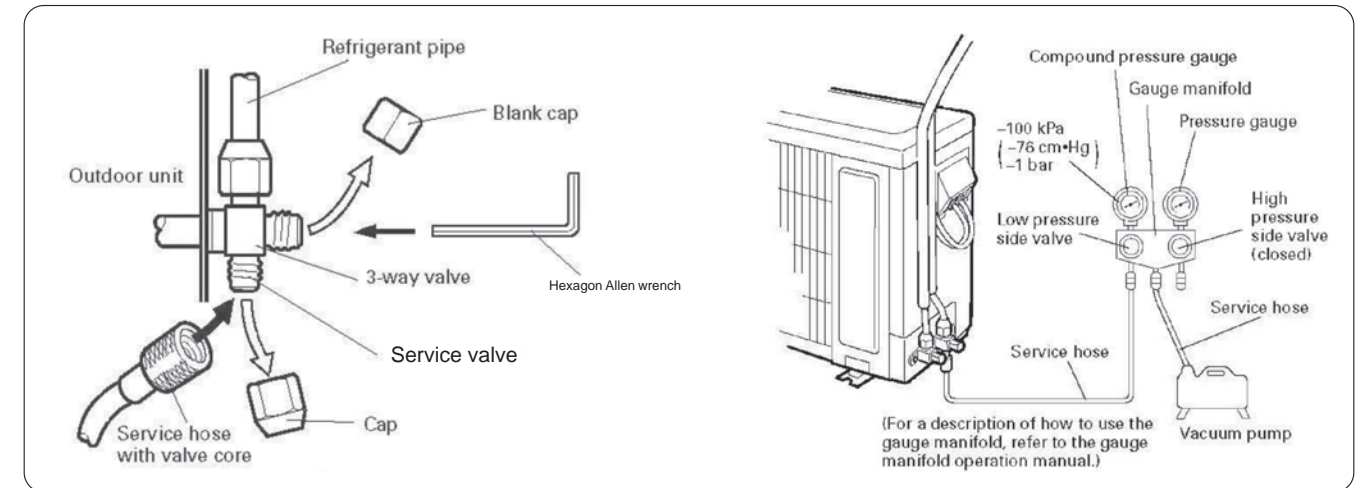


## VACUUM AND LEAKAGE CHECK

### VACUUM REFRIGERANT PIPES

Evacuate the pipes between indoor and outdoor units, using vacuum pump and manifold/gauge set, to a minimum of 500 microns (service valves remain front seated). Hold for 30 minutes to check if the vacuum level is maintained. Using dry nitrogen or other leakage detection tool for leak checking. Be certain there is no pressure in the system when repairing a leak.

#### Vacuum before Releasing Refrigerant from Outdoor Unit to Indoor Unit.



## SYSTEM INSPECTION AND TRIAL RUNNING

### PRESSURE CHECKING

System pressure checking is one of the basics to find out the status of system performance and diagnose any problems.

The following curves are only reference for system pressure checking. Actual pressures may vary upon many factors such as inter-connecting pipe length, refrigerant charge / leakage level, elevation difference between indoor unit and outdoor unit, tool calibration, reading error, and so on.

#### Reference Temperature-Pressure Table (Split Condensing Unit-R410A AC) Product Series: YMGI Group-Mini Split Version: 01/11/2010

Outdoor Dry-Bulb (F)	15	25	35	50	55	60	67	75	82	90	95	100	105	110	115
Outdoor Dry-Bulb (C)	-9.4	-3.9	1.7	10.0	12.8	15.6	19.4	23.9	27.8	32.2	35.0	37.8	40.6	43.3	46.1
Outdoor Wet-Bulb (F)	13.6	23.0	30.2	42.8	46.9	51.1	59.5	66.6	64.9	71.2	75.0	79.0	82.9	86.9	90.7
Outdoor Wet-Bulb (C)	-10.2	-5	-1.0	6.0	8.3	10.6	15.3	19.2	18.3	21.8	23.9	26.1	28.3	30.5	32.6
Indoor Dry-Bulb	80F (26.7C)														
Indoor Wet-Bulb	67F (19.4C)														
Discharge-PSI/F	74/21.2	84/27.1	105/35.1	115/38.5	125/42.8	130/45.5	140/48.2	146/51.2	156/54.3	166/57.5	175/61.2	180/62.5	186/63.7	189/64.5	191/64.9
Suction-PSI/F	60/46.2	70/53.5	85/55.2	92/55.7	98/56.1	103/56.7	110/56.9	115/57.1	120/57.5	128/57.8	135/57.9	136/58.6	137/59.1	139/59.3	140/59.5

Suggest to Add on Low Ambient Control, If Still in Need of AC for Long Time In Cold Weather. Closely Check/Watch Refrigerant Charge Level.

#### Reference Temperature-Pressure Table (Split Condensing Unit, R410A-Heat Pump) Product Series: YMGI Group-Mini Split System Version: 01/11/2010

Outdoor Dry-Bulb (F)	0	5	10	17	25	30	35	40	45	47	55	62
Outdoor Dry-Bulb (C)	-17.8	-15	-12.2	-8.3	-3.9	-1.1	1.7	4.4	7.2	8.3	12.8	16.7
Outdoor Wet-Bulb (F)	-0.8	4.1	8.8	15	22.8	27.5	28.9	36.3	41.0	43.0	50.4	56.5
Outdoor Wet-Bulb (C)	-18.2	-15.5	-12.9	-9.4	-5.1	-2.5	-1.7	2.4	5	6.1	10.2	13.6
Indoor Dry-Bulb	70F (21.1C)											
Indoor Wet-Bulb	60F (15.6C)											
Discharge-PSI/F	260/84	269/90	284.5/95	290/102	296/111	304/128	304/133	330/138	345/142	354/149	400/149	440/176
Suction-PSI/F	246/72	255/78	270/86	278/89	285/92	290/95	310/98	318/100	330/102	340/104	380/107	425/113

#### Warning:

R410A refrigerant bears higher pressures than R22. Only handled by Licensed HVAC technician.

## CHECK AFTER INSTALLATION AND TEST OPERATION

### CHECK AFTER INSTALLATION

Items to be checked	Possible malfunction
Has the been unit positioned firmly?	The unit may drop, shake or emit noise.
Have you done the refrigerant leakage test?	It may cause insufficient cooling(heating) capacity.
Is heat insulation sufficient?	It may cause unexpected condensate and dripping.
Is drainage pipe tested ?	It may cause leakage or unexpect dripping.
Is the voltage in accordance with the rated voltage marked on the nameplate?	It may cause electric malfunction or damage to the part/unit.
Is the electric wiring and piping connection installed correctly and securely?	It may cause electric malfunction or damage to the part/unit.
Has the unit been connected to a secure earth connection?	It may cause electrical leakage.
Is the power cord specified properly per NEC codes ?	It may cause electric malfunction or damage to the part/unit.
Is the air inlet and outlet been cleared?	It may cause insufficient cooling(heating) capacity, and unexpected noise.
Has charge be adjusted to match the and refrigerant capacity been recorded?	The refrigerant unit noise, iced up overheat insufficient cooling or heating

### TEST OPERATION

#### 1. Before test operation

- (1) Do not turn on power before installation is finished completely.
- (2) Electric wires must be connected correctly and securely.
- (3) Cut-off valves of the connection pipes should be back seated/tunned on.
- (4) All the impurities such as scraps and thrums must be cleared out of the unit.

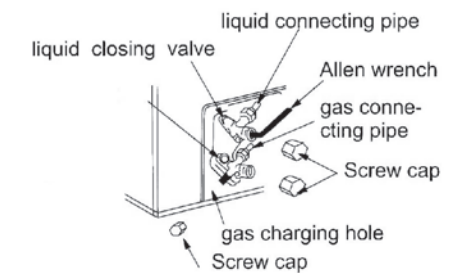
#### 2. Test operation method

- (1) Switch on power, press "ON/OFF" button on the wireless remote control to start the operation.
- (2) Press MODE button, to select the COOL, HEAT (not available for cooling only unit is ), FAN and so on to check :
  - \* All the functions (to make sure the unit functions correctly and poroenty).
  - \* Refrigerant (pressures/temperatures at sericea values/pipes should be good).
  - \* Drainage (condensate/water flow should be dripping out of drainage pipe ONLY).
  - \* Noise (there should be no abnormal symbol)

## DURING INSTALLATION

### RELEASE REFRIGERANT FROM OUTDOOR TO THE INDOOR UNIT

Unit is pre-charged with refrigerant good for 25' of connection tubes. If vacuum is held for about 30 minutes and no leak is found, first back-seat the liquid (smaller) service valve by Allen Wrench (hex head) slowly to release pre-charged refrigerant from the condensing unit into the connection pipes and indoor unit. If no abnormal things are found, fully open liquid (smaller) and gas (bigger) service valves. Always replace and tighten the caps onto service valves.



Releasing Refrigerant from Outdoor Unit to Connected Pipes and Indoor Unit

### CHECK SYSTEM THOROUGHLY

Check System Thoroughly to Make Sure the Unit is Ready for Trial Running: Check wires and pipes and air intake and discharge and power and thermostat and others necessary components.

### TRIAL RUNNING

Thoroughly test the system in cooling, heating, auto and fan modes and so on for proper operation.

### ADJUST REFRIGERANT

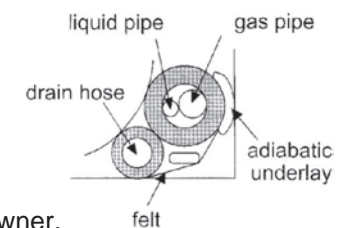
Adjust Refrigerant Charge by Tubing Size/Length: System charge could be adjusted per tubing size, length, driers, and evaporator coils. DON'T overcharge or undercharge. Repair or correct any deficiencies.

If the connecting pipe is longer than 25 ft, adjust refrigerant as needed:

- 1/4" liquid line unit-add or deduct 0.3 OZ/ft.
- 3/8" liquid line unit-add or deduct 0.4 OZ/ft.
- 1/2" liquid line unit-add or deduct 1.2 OZ/ft.

### FINISH INSTALLATION

- 1) Put back all covers, screws removed during installation and start-up.
- 2) Properly note, mark, organize and secure wires.
- 3) Caulk the opening to weatherproof level at opening frame both inside and outside.
- 4) Do a final visual inspection.
- 5) Teach or instruct owner or users how to correctly operate the system and answer their questions.
- 6) Check against all items in Product/Warranty Registration Card and sign it for the owner.





## USER NOTES AND SERVICE LOG



### LIMITED PRODUCT WARRANTY -STANDARD POLICIES

YMGI Group (YMGI) products are designed and manufactured free from defects in workmanship and materials for normal use and maintenance. YMGI products are designed and manufactured to the qualities to keep installer(s) and user(s) from any trouble and to bring total comfort to unit(s) owner(s) and end user(s).

**YMGI warrants its products** against any unexpected issues occurred to product itself, though designed and manufactured and expected to work much longer than the warranted period, **as follows:**

1. Five-year compressor and sealed system
2. One-year other parts
3. Ground shipping only

**Above warranties valid only if all the following are satisfied:**

1. The unit was fully installed by currently licensed HVAC technician(s), from beginning to completion.
2. The unit is installed per NEC codes and local codes.
3. The unit is installed following installation instructions coming with YMGI products, and/or provided by YMGI Group.
4. The unit is fully checked and tested by installer(s) to make sure installed unit functions as designed.
5. Correct operation of the unit is explained clearly to the owner(s) by installer(s).
6. All fields are filled or checked, signed and dated by both installer(s) and owner(s) on the **LIMITED PRODUCT WARRANTY REGISTRATION CARD.**
7. **Warranty Registration Card** must be mailed, **along with an Original Copy of Full System Installation Service Charge Invoice from the Currently Validly Licensed HVAC Technician Company**, within 7 calendar days after the original installation is finished or your NEW home (unit is not checked or used yet) is closed, whichever comes later, by the owner(s) to Warranty Department, YMGI Group, POB 1559, O'Fallon, MO 63366, USA.

A full copy of **Warranty Registration Card** and **Original Copy of Full System Installation Service Charge Invoice** must be kept by owner(s) safely along with other documents that come with the product.

**No warranty may be valid if any one of above 7 conditions is not fulfilled. Warranty begins on the date of the original installation or the date of NEW home (unit is not checked or used yet) is closed, whichever comes later.**

As its only responsibility, and your only remedy, YMGI will furnish replacement part only (no labor), without charge for the PART(S) and Ground Shipping ONLY, to replace any part found to be defective due to manufacturer's workmanship or materials under normal use and maintenance. Any part replaced pursuant to this warranty is warranted only for the unexpired portion of the warranty term applying to the original part.

This warranty does not apply to nor cover any other cost associated with the service, repair or operation of the product or the like.

Defective product(s) or part(s) must be identified by your installer, along with **YMGI Group-approved Service Center(s) or Technical Support.**, whichever is available in the area where unit is installed. Final decision is made by YMGI Group. An **"YMGI Group Customer Service/Technical Support Form Daily Log Sheet"** must be filed properly for effective communication and/or file management purpose.

**Warranty policy herein DOESN'T cover:**

1. Any damage or repairs to properties and injuries to person(s) as an incident or consequence of faulty or improper transportation, installation, operation, maintenance, or service that ISN'T physically performed by YMGI Group.
2. Any damage caused by frozen or broken water pipes in the event of equipment failure, any damage or injury as a result of floods, fires, winds, lightning, accidents, corrosive atmosphere or other conditions beyond the control of YMGI Group.
3. Any damage resulted from use of components or accessories not specified, supplied or designated by YMGI Group.
4. Any damage because of failure to start due to interruption and/or inadequate electrical service.
5. Any products sold or installed outside the United States or Canada.
6. Any labor charge from your technician company during any stage of the installation or service, for any reasons.

**Any damage due to service performed by third parties, it is the product receivers(s) or owner(s)'s responsibility to claim such damage resulted from these activities to the responsible party:**

1. Transportation, installation and operation.
2. Normal maintenance and service as described in the installation and operating manual, such as cleaning of the coils, filter, cleaning and/or replacement and lubrication.

YMGI keeps on product improvement and such improvement is purposed to further benefit installers, owners, users and others. Such improvement or changes, even without notice, including but not limited to specifications, functions, appearance, sizes, packages or others, of the products are YMGI's sole right(s). These improvement or changes will not invalidate the limited warranty stated herein.

For further information about this warranty, contact Warranty Department, YMGI Group either by faxing to **(866) 377-3355** or by mailing to **Warranty Department, YMGI Group, POB 1559, O'Fallon, MO 63366, USA**

## LIMITED PRODUCT WARRANTY REGISTRATION CARD



### LIMITED PRODUCT WARRANTY REGISTRATION CARD

Product-Indoor Unit Model No.: \_\_\_\_\_ Outdoor Unit Model No.: \_\_\_\_\_

Product-Indoor Unit Serial No.: \_\_\_\_\_ Outdoor Unit Serial No.: \_\_\_\_\_

**Installed for Owner Name:** \_\_\_\_\_ **Date (mm/dd/yyyy):** \_\_\_\_\_

Street name and number, City, State, Zip code, Phone No. Fax No.

**Purchased from Distributor Name:**

Street name and number, City, State, Zip code, Phone No. Fax No.

Indoor Unit       Outdoor Unit       Packaged Unit (Please Check Whatever Applicable)

**Attached-Yes/No, An Original Copy of Installation Invoice from HVAC Contractor Company:**  
Installation Company Name: \_\_\_\_\_ **Currently Licensed HVAC Technician License No.:** \_\_\_\_\_

Street name and number, City, State, Zip code, Phone No. Fax No.

**Full Name of Installer Technician:** \_\_\_\_\_ **Cell Ph.:** \_\_\_\_\_ **Office Ph.:** \_\_\_\_\_

YMGI Packing List No.: \_\_\_\_\_ **Purchasing Order No.:** \_\_\_\_\_

**HVAC Technician Checklist (Must be Checked Fully, Right after Installation Completion):**

- Are you a licensed contractor/technician? \_\_\_\_\_ % of the installation was conducted by your company
- Did you read through the manual(s) prior to installation?
- Is unit unpacked and checked by the installer for obvious damage?
- Supply power V/Ph/Hz measured at circuit breaker to the outdoor unit: \_\_\_\_\_ or Indoor unit: \_\_\_\_\_
- Incoming power V/Ph/Hz measured at terminal blocks of outdoor unit: \_\_\_\_\_ or Indoor unit: \_\_\_\_\_
- Wire gauge and qty. between circuit breaker/disconnect switch to outdoor unit: \_\_\_\_\_
- Wire gauge and qty. between outdoor unit and indoor unit: \_\_\_\_\_
- What are installed before HVAC Licensed Technician took over?
- Is field wiring checked following national and local codes?
- Selected the correct electrical components (HVAC circuit breaker or fuse or disconnect switch for the power to the outdoor unit, connecting wires between circuit breaker/disconnect switch and outdoor unit, wires between outdoor and indoor units)?
- Is indoor coil and/or outdoor coil sealing checked and passed prior to installation?
- Is refrigerant piping length within stated ranges and free from kinks or too much bending?
- Indoor unit away from ceiling and outdoor unit away from the wall, bushes and other obstacles enough and safe clear distance, required in the manuals?
- Do air intake and discharge grills have enough open area free from any blocking?
- Indoor unit is installed on secured bracket, outdoor unit is placed on level platform, pad, or bracket securely?
- Taped the inter-connecting pipe ends before running through structures, keep from getting dust or other dirties into the pipes to damage the refrigeration system and void your factory warranty and cost you much more money?
- Is condensate drain pan or pipe checked all right free of any leakage?
- Vacuumed the connecting pipes for leakage check, before back-seating the stopping valves at outdoor condensing unit?
- Refrigerant suction pressure PSI: \_\_\_\_\_ discharge pressure PSI: \_\_\_\_\_ Outdoor Ambient Temperature F: \_\_\_\_\_
- Are both indoor fan wheels and outdoor unit fan blades checked for smooth rotation free of abnormal noise?
- Is outdoor unit compressor observed being started, running and stopped in right ways?
- Are all system/unit functions tested and checked to be surely all right, before you fill this card?
- Is system/unit tested to run for at least 30 minutes?
- Did you explain or teach owner(s) or end user(s) clearly the right operation or normal maintenance of the system/unit?
- Does your company provide and will follow installation/service warranty policy?

Print Name of Licensed HVAC Installer: \_\_\_\_\_ Print Name of Unit Owner/User: \_\_\_\_\_  
Signature of Licensed HVAC Installer: \_\_\_\_\_ Signature of Unit Owner/User: \_\_\_\_\_  
Date: \_\_\_\_\_ Date: \_\_\_\_\_

**To Validate the Factory Warranty, Customer Needs to Mail the Fully Filled and Signed Warranty Registration Card, along with an Original Copy of Full System Installation Service Charge Invoice from the Currently Validly Licensed HVAC Technician Company, to Warranty Dept., YMGI Group, POB 1559, O'Fallon, MO 63366 within 7 Calendar Days after Original Installation.**





