

YMGI, Engineered Comfort Products for A Sustainable and Efficient Green World!

INSTALLATION INSTRUCTIONS & USER MANUAL

DC INVERTER MULTIPLE ZONE (59)5 CH SYMPHONY CHOIR OUTDOOR UNIT

Model Numbers:

WMMS-30CH-V2B(59)5 WMMS-36CH-V2B(59)5 WMMS-42CH-V2B(59)5 WMMS-48CH-V2B(59)5 WMMS-60CH-V2B(59)5









Thank you for choosing this YMGI product. Please read the owner's manual carefully before installation and operation, and retain for your records and future reference. If you need a replacement copy, please contact your local agent or visit www.ymgigroup.com to download a current electronic version.

NOTICE

This product is designed and manufactured to be free from any defects in material and workmanship during normal use and maintenance. Installation, operation, maintenance and repair must follow all standards and professional practices for regular cooling and heating equipment, such as NEC, State, or Local Codes and all related documents/manuals provided by YMGI. Failure to follow and adhere to all codes and documentation can cause damage to equipment, property even personal injury.

Installer: Currently licensed/certified HVAC technicians only. Must Read the manual and all provided documents prior to installation. Complete and fill out all required information on the warranty registration card.

User: Retain this manual and all supplied documents for your records and future reference.

Servicer: Use this manual for information concerning servicing and maintenance of this product.

SAFETY WARNING

Only qualified technicians should install and service this equipment. The installation, startup, operation and servicing of this equipment can be hazardous and requires a HVAC professional who has been trained, licensed and certified. Installations, adjustments or any equipment alterations done by an unqualified person could result in serious injury and even death. When working on the equipment, observe all precautions in the provided documents, on the tags, stickers, and labels that are attached to or placed on the equipment.



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Introduction

Read this manual carefully, making sure you understand all the instructions, practices and procedures contained in this manual. Be sure you are familiar with all the safety advisories that appear throughout this manual. Your personal safety depends upon your observance of all precautions contained in this manual.

Safety advisories appear throughout this manual and your personal safety and the proper operation of this appliance depend upon the strict observance of these precautions.

The 3 types of advisories are defined in the following table:

AWARNING	Indicates a potentially hazardous situation which if not avoided could result in serious injury or even death.
▲ CAUTION	Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert against unsafe practices.
NOTICE	Indicates a situation that could result in equipment or property-damage only. It can also be used to call attention to important details within this manual.

Important Environmental Concerns

Studies have shown that certain man-made chemicals can affect the earth's stratospheric ozone layer when released into the atmosphere. Refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs), may affect the ozone layer. Not all refrigerants have the same potential impact on the environment. YMGI Group advocates for the responsible handling of all refrigerants including industry replacements for CFCs such as HCFCs and HFCs.

Responsible Refrigerant Practices

YMGI Group believes that responsible refrigerant practices are important to our customers, the HVAC/R industry and the environment. All HVAC/R technicians who handle refrigerants must be certified. The Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants, the equipment and tools necessary to perform these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. HVAC/R technicians must know the applicable laws and follow them.

Disposal Notice

Do not dispose this product or its components as unsorted municipal waste, as they contain items that may require special treatment. Contact your local waste management company for details.

▲WARNING

Proper Field Wiring and Grounding Required!

Failure to follow established electrical codes can result in death, serious personal injury and property damage. All field wiring MUST be performed by qualified personnel. Improperly installed and grounded field wiring poses **FIRE** and **ELECTROCUTION** hazards. To avoid these hazards, you MUST follow the requirements for field wiring installation and grounding as described in this manual and by NEC and your state and local electrical codes.

∆WARNING

Personal Protective Equipment (PPE) Required!

Failure to wear proper PPE for the job being undertaken could result in serious injury or even death. Technicians must take the necessary precautions to protect themselves from potential electrical, mechanical, and chemical hazards and MUST follow all precautions in this manual and on the tags, stickers, and labels, as well as the instructions below:

- Before installing or servicing this unit, technicians MUST put on all PPE recommended for the work being undertaken. ALWAYS
 refer to appropriate Material Safety Data Sheets (MSDS) and Occupational Safety and Health Administration (OSHA) guidelines
 for proper PPE.
- When working with or around hazardous chemicals, ALWAYS refer to the appropriate MSDS sheets and OSHA guidelines for information on allowable personal exposure levels, proper respiratory protection, and handling recommendations.

If there is a risk of arc or flash, technicians MUST put on all PPE in accordance with NFPA 70E or other country-specific requirements for arc flash protection, PRIOR to servicing the unit.





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∆WARNING

- Instructions for installation and use of this product are provided by the manufacturer.
- Installation must be performed by authorized and licensed personnel only and in accordance with all the requirements of this manual, the NEC, CEC and any state and local codes.
- For safe operation of this unit, please read and follow all instructions carefully.
- The total operation capacity of the indoor units should not exceed 120% of the total capacity of the outdoor units if all
 indoor units must operate at their peak capacities all the time. Otherwise, the heating and cooling operation will be
 diminished and less efficient which could damage the units.
- Any person responsible for system operation or system maintenance should retain this manual for reference.
- If the unit fails to operate normally, please contact your authorized system installer or HVAC professional as soon as possible and provide the following information:
 - Data on the unit (model number, serial number and owner's name).
 - A detailed description of the unit's problem before and after the problem occurred.
- To avoid personal injury or property damage, do not disassemble the unit yourself. If disassembly is required to check
 the unit, contact your authorized system installer or HVAC professional as they have the experience and training
 necessary to perform this task.

Note: Each unit has been thoroughly tested to ensure it operates correctly before leaving the factory.

Basic Cautions and Warnings

▲ CAUTION

All units shall be installed by an experienced HVAC licensed contractor or technician. Read all manuals before installation, startup and operation.

▲ CAUTION

All NEC, state, local codes and installation instructions must be followed for all units, otherwise, the unit warranty will be void and could result in serious damage to people or property.

∆WARNING

YMGI Group is not responsible for any damage or loss due to Do-It-Yourself (DIY), self-installation or any improper installation, improper operation, improper service or natural disasters of any kind.

∆WARNING

Do not connect power to the unit until all wiring, tubing and all unit inspections and testing have been completed. Ground the unit according to the instructions and adhering to NEC, state and local codes.

▲WARNING

All wiring connections must be correct and secure. Loose wire(s) or improper contacts may cause arcs or overheating which can result in a fire hazard.





Note From YMGI – Must Read

Dear Customers, Purchasers, Installers, and Contractors

Thank you for choosing an YMGI product.

All YMGI's products are fully tested and have passed rigorous safety, performance and manufacturing standards before being packed and shipped. YMGI only uses suppliers that meet our strict standards for high quality and performance for all parts. YMGI also recognizes a quality installation is equally important therefore your system must be installed by a licensed HVAC professional. A quality installation ensures your unit will operate at its highest efficiency and peak performance for many years of worry free comfort; while a poor installation can result in unit failure and cause the unit to operate inefficiently, either immediately or over time, resulting in costly repairs.

Because a quality installation is so critical, YMGI provides detailed information in our manuals which will aid the installing technician and the owner of the unit(s).

At YMGI our goal is to ensure that your YMGI units are installed properly and correctly from the beginning.

The YMGI equipment you purchased is either a split-type or a self-contained cooling/heating system. These types of systems require a certified and licensed HVAC professional technician for proper installation. Only a certified and licensed HVAC professional technician will have the knowledge, experience, and attention for all required details to perform a complete and successful installation. This equipment is different from a window or portable type air conditioners you can purchase from local retail stores such as Home Depot, Lowe's, Sears, etc. which the manufacturer may not require certified and licensed personnel to install.

Reading and following YMGI Group recommendations and requirements contained in the following pages and other documents, is the first step to help ensure a smooth installation and proper operation of your unit for many years.

∆WARNING

YMGI doesn't recommend nor allow any do-it-yourself (DIY) installation (partially or fully). Due to the complexity of the installation of this product most DIY installations usually have problems, either immediate or near future. These problems can cost more to fix than any upfront savings. **YMGI warranty doesn't cover any DIY units.**

If you have any questions about your unit or if the unit has a problem, you should first check the manual. If you can't find a solution, then contact your local installer or service technician to schedule a service appointment. The technician can physically inspect the unit. If at the time of inspection, the installer or service technician has any questions about the unit, they can contact YMGI technical support division directly at:

Toll Free Number: (866)833-3138 or Email: techsp@ymgigroup.com

IMPORTANT: YMGI Group is the MEDIA AUTHORITY:

YMGI Group, located in O'Fallon, MO 63366 is the author of all media produced for its products and is the only party able to give any additional explanation for any data, definitions and or descriptions found within any of its media, including but not limited to YMGI product brochures, manuals, pamphlets, catalogs, and videos. YMGI's distributors, installers, dealers, agents, customers or any other third parties will not supersede YMGI in anyway concerning YMGI-published materials and their meaning. Any concerns or questions arising from YMGI distributors, installers, dealers, agents, customers or any other third parties, should be presented directly to YMGI. YMGI will respond to any concerns or questions, if necessary, about any of its media in writing.





NOTICE

- Be sure to only hire a certified and currently licensed HVAC Company to complete 100% of the installation so that all details of the installation are performed correctly and completely.
- Be sure to have ONLY the licensed HVAC professional perform all aspects of the installation. Factory Warranty will be
 void if any portion of the installation is not performed by a licensed HVAC contractor/technician. DIY or partial DIY will
 also void ALL factory warranties.
- When hiring an HVAC technician that is offering their services as a "side job" and not hiring a licensed HVAC company
 may pose possible risk. This may result in an incomplete or unsatisfactory installation, no guarantee for workmanship
 and lack of maintenance and further service to your unit.
- Have the installation technician read in full the installation manual and all supplied documents for the product model
 you purchased. Details within the documentation contributes greatly to the success and quality of the installation.
 Experience with other manufacturers may not be applied fully to another manufacturer, although there will be similarities
 there will also be differences. Ignoring the provided installation procedures is an act of negligence and may cause unit
 failure or damage which could be irrevocable and permanent.
- It is possible for a licensed contractor/technician to make a mistake during the installation. YMGI doesn't supervise nor is able to control the contractor/technician's installation. It is critical that the installer take each variable into account during the initial installation. This will ensure a complete and professional installation and that all units work properly.

∆WARNING

The following will damage the unit and its key components resulting in loss of factory warranty:

- 1. Any foreign substances introduced into the system because of failure to seal the ends of the refrigeration piping before pulling the piping through any structures at time of installation.
- Not installing an oil P-trap in the copper suction line where the indoor unit is located 18 feet or more below the outdoor unit.
- Cross piping and/or cross wiring of any units including more than one single zone or a multi zone system.
- 4. Not conducting a positive leak check prior to the negative leak check.
- 5. Not conducting a positive leak check by charging the system with dry-nitrogen 350 PSI to hold for 3+ hours, and performing soap bubble testing.
- 6. Not conducting a negative leak check by evacuating the copper lines for 30 minutes for each zone. Vacuum must be held at 500 microns or better for at least 60 minutes, starting 60-minute timer after the vacuum pump is turned off.
- 7. Not selecting the correct size of wire or circuit breaker.
- 8. Not answering ALL questions in the technician's checklist located inside the warranty registration form.

∆WARNING

The following may be overlooked, ignored, or considered unimportant during your installer's installation, but will cause your unit to underperform and may cause unit failure.

- 1. Any kinks in or improper bending of the copper piping.
- 2. Any poorly formed flares or not centering the flare with the flare nut, or not tightening all connections.
- 3. Not trial testing each indoor unit individually.
- 4. Not reading technical data (temp/time/pressure/current) after the system is stabilized (normally the compressor needs to run at least 10 minutes before reading the data). If the data is read too early may lead to inaccurate assessments about the unit.

In an effort to help protect our customers from possible faulty installations that can lead to premature unit failure, YMGI provides the above information for you and the technician. You can observe while your system is being installed, even though your observation is not a guarantee your system is being or has been installed properly and professionally. With the information provided above, you will know some things to look for and questions you can ask. If at any time you feel there may be an issue with the installation, please have your technician contact YMGI at (866)833-3138 x 703 with any questions, issues or concerns you may have.





INSTALLING TECHNICIAN/CONTRACTOR'S RESPONSIBILITIES

- Discuss with the customer detailed information about the structure to be conditioned, local weather (typical design, extreme temperature/humidity conditions, cooling and heating hours), previous and existing HVAC equipment (if any), usage and dependence on new HVAC equipment or YMGI products.
- 2. Performing a cooling/heating load calculation by using commercially available professional programs/methods such as Right-J (Manual J) for residential HVAC applications and Right-CommLoad (ASHRAE RTS/CLTD) for light commercial and commercial HVAC applications.
- 3. Contact your YMGI distributor/sales department or contact the manufacturer directly to obtain additional information to fully understand your YMGI products, including but not limited to product features, cooling/heating performance at standard ratings/conditions and extreme conditions, allowed indoor and outdoor temperature and humidity ranges, installation, operation, maintenance, service, warranty, parts and any other issues pertaining to YMGI products.
- 4. Select the correct (most suitable) YMGI product unit models and accessories necessary for your HVAC applications and list them in the proposal/quote, in writing, on company's quotation form or letter head, based upon the information you collected from 1), 2) and 3).
- 5. List your currently valid HVAC license number and EPA number in your proposal/quote.
- 6. Make sure you are the only party to perform the entire installation and you will not sub-contract any part of the installation to any non-licensed parties or persons. You will be solely responsible for the entire installation that you have been contracted.
- 7. Make sure you have all the materials you need to properly, completely and correctly finish the installation. The YMGI units and accessories may be just a portion of what you will need for the project. When support issues arise, remember YMGI employees and YMGI distributors/sales, dealers and agents are not installers and may only provide suggestions. You are the only decision maker to determine what other materials you need to complete the installation.
- 8. When connecting electrical wires, follow all NEC, state and local codes and ensure the installation of all YMGI units and accessories meet these requirements.
- Connect the unit to a correctly sized electrical power source. If the unit is installed in an area where lightning or storms occur frequently, a correctly sized and type of power surge protector must be installed between the outdoor unit and the power source.
- 10. Select the correct types and sizes of HVAC circuit breakers, disconnect switch boxes, wires and conduit from circuit breaker to disconnect box and then from disconnect box to outdoor unit.
- 11. Select the proper location for installing indoor units and outdoor units with all factory requirements being followed (cooling/heating air inlets and outlets are not blocked or restricted, mounting structure is secure, installation for convenience is considered, allow adequate clearance for maintenance/service and all applicable codes are met).
- 12. Cap/tape the two ends of every copper line before running them through any structure to keep any foreign substances from entering the pipe causing contamination. Label them A-A, B-B, C-C, D-D, or any other identifying marks on each pair of copper lines and wiring cable sets to keep from cross-piping or cross-wiring in multiple zone installations or where pipes for different single zone systems are close to one another.
- 13. Secure the wiring cables that connect between the indoor unit and outdoor unit, following all applicable NEC, state and local codes for your installation. If there is no special NEC, state or local codes to govern how these wires are to be installed, you can tape/cable tie them along with insulated copper line.
- 14. Tighten all pipe and wire connections ensuring there is no leakage or false connections.
- 15. Conduct a positive pressure leakage test, checking each of the inter-connecting copper lines between each indoor unit and outdoor unit by charging with dry-nitrogen at the outdoor unit's service port (note: do not back-seat stopping valve). A liquid soap solution shall be applied at all pipe connections to check for leakage. A 1/4" 5/16" hose/valve adaptor may be needed if you have a 1/4" traditional manifold hose connection.
- 16. If there is no positive leaking, then conduct a negative pressure leakage test, checking all inter-connecting copper lines between each indoor unit and outdoor unit by pulling vacuum at the outdoor unit's service port (note: do not back-seat stopping valve) and checking that the vacuum level of 500 Microns can be held for at least 60 minutes.
- 17. If there is no leakage found at any of the refrigeration pipe connections, flip up the indoor unit's face panel and remove filter, carefully pour some clear water onto the up-right aluminum coil surface to test if the water can drain out of each the indoor unit's freely without finding any leakage.
- 18. If there is water leakage found, locate the source of the leak and correct it. Only after everything is clear, engage the correct electrical power to the system.
- Then back-seat stopping valves of the outdoor unit to release refrigerant from the outdoor unit into the inter-connecting pipes and indoor unit.
- 20. Make sure both the indoor unit and outdoor unit are powered on correctly, operating the indoor unit in fan mode first. Then move on to test cooling, dehumidifying/drying, heating and other modes.
- 21. Read refrigerant pressures and pipe/valve temperatures only after the system is stabilized (normally 10 minutes after cooling/heating mode is started successfully). Record this data into the technician checklist in the lower half section of the Limited Product Warranty Registration Card/Form.
- 22. Adjust refrigerant charging level (remove refrigerant if pipe is shorter, the temperature is colder; add refrigerant if pipe is longer the temperature is warmer), following the manufacturer's instructions. If the average pipe length is shorter or longer than 25' and pressure/temperature readings at the outdoor unit service valves are not falling into normal ranges.
- 23. Explain to the user/owner about proper unit operation and maintenance. Leave your contact information to allow them to reach you. If the customer finds the unit doesn't work properly and cannot resolve the issue themselves, check the customer's units/parts/accessories and correct the issue if there is one. Communicate with YMGI-technical support line at (866)833-3138 x 703, if further help necessary.

Following these requirements will aid in ensuring that the units to be installed meet general HVAC practicing standards and necessary factory requirements. Finding any possible problems early, preventing any further damage to the unit will help to ensure a properly working unit for many years.





LIMITED PRODUCT WARRANTY

Once the installation and successful testing of the system has been completely performed by a qualified licensed/certified HVAC technician/contractor, the registration card/form is filled out completely and correctly, and filed along with a valid installation invoice from the contractor within 7 days of the original installation, the following standard **Limited Product Warranty** is qualified: **7-years** on the **compressor** and **2-year** on **PARTS ONLY**. There is **no labor coverage**.

YMGI products are designed and manufactured free from defects in workmanship, and materials for normal use. However, if for any reason, including occasionally transporting between YMGI factories/warehouses and your delivery location, you discover the unit has issues, YMGI Group will help field a solution by following YMGI's established warranty procedures:

Compressor: YMGI will warrant the compressor of an YMGI-validated and approved warranty filing, for a period of 7 years from the date of successful installation at its original installation location.

Parts: YMGI will warrant parts of an YMGI-validated and approved warranty filing, for two years from the date of successful installation at original installation location.

All warranty compressors and parts replaced will become the sole property of YMGI Group and must be returned to YMGI Group upon request. Warranty parts may be new or refurbished. All parts are tested and approved before shipping. At no time does YMGI Group warrant labor cost of any type. Warranty will start from the date of successful installation at original installation location, or 90 days as of original shipping date from YMGI Group, whichever comes first.

This is a standard limited liability warranty and DOES NOT cover the following:

- Any damage or repairs to properties, or persons as an incident of or consequence of improper faulty transportation, installation, operation, maintenance or service.
- Any damage caused by frozen or broken water hoses or refrigeration pipes in the event of equipment failure.
- Any damage due to floods, fire, wind, lightening, accidents, corrosive atmosphere or any other conditions beyond the control of YMGI Group.
- Any damage due to interruption or inadequate electrical service to equipment.
- Any products that are installed outside the US or Canada.
- Any unit that has been moved from its original installation address.
- Any labor costs associated with the installation or service of the unit.
- Poor unit performance due to improper unit selection (SEER, Unit size).

To validate the above warranties, ALL of the following conditions must all be fulfilled:

- 1. The unit was fully (100%) and successfully installed by a licensed or certified HVAC technician.
- 2. The unit was installed following all NEC, state and local codes.
- 3. The unit was installed following all the information within the Instructions and User Manuals provided by YMGI Group.
- 4. ALL fields, especially the technician-checklist, of the **Limited Warranty Registration Card/Form** were filled completely by the installing technician and signed by both the installing company technician and the unit owner.
- 5. The **Limited Warranty Registration Card/Form** and a copy of the original installing company's invoice have been received by YMGI Group-Warranty Dept., POB 1559, O'Fallon, MO 63366, within 7 days of successful installation.

No warranty filing will be validated or approved, if any one of the above conditions are not met. Product registration doesn't guarantee the validity of this limited warranty statement.





Steps to follow for warranty part replacement:

- 1. The installing or service technician must contact YMGI tech support at 1-866-833-3138 ext. 703 from the installation location to check and confirm with YMGI Technical support the exact part(s) needed to fix the problem(s).
- 2. YMGI will check the customer's warranty filing. There will be no charge for Parts with a validated and approved warranty. Any Parts that have not been validated and approved or have an invalid warranty filing resulting in an unapproved warranty request, will be charged accordingly.
- 3. YMGI will ground ship out the parts ASAP. Expedited shipping is available at the customer's expense.
- 4. Replacement parts that have an approved warranty registration are to be warranted for the remainder of the 2-year on parts and a 7-year compressor warranty. Purchasing of replacement parts without a valid warranty filing or unapproved warranty request, will be sold as is and are not covered by any warranty.

YMGI is continually improving products with various engineering changes and these changes are made without prior notice. Such improvements or changes include but are not limited to product specification, appearance, functionality, size, packaging, etc. These improvements or changes will not void the limited warranty stated herein. YMGI is the final authority concerning this warranty policy.







LIMITED PRODUCT WARRANTY REGISTRATION FORM

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<u>ਲ</u> ≥	Date:				Shipping Pac	king List Num	ber:			Registration					
For YMGI Use Only	Did the Con	npany Pay YMGI:			Unit(s) Work	Successfully:		Yes/No		Date Comp		gistration			
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Outdoor	Uniil Senai N	iumber.		Indoor Unit	Unit 1 Unit 2					Unit 7					
				Serial	Unit 3					Unit 8					
				Numbers:	Unit 4					Unit 9					
				Numbers.	Unit 5					Unit 10					
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z) what ha	ad been done,	prior to your arrival?							you checked it its (zones)? Wh				a/or cross-w	viring between any t	wo
								indoor an	no (conoc). Tri	nat trao your	proceduro	•			
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3) Dia you	read the User	Manual and Installa	tion Instru	ictions before star	ting the installa	ion?			tne retrigerant m entering the			aled, prior to ru	nning them	through structures t	о кеер
	Yes			No				ucbiis iio	in chicking the	copper intes	•				
4) Who un	packed the un	it and accessory box	es to che	ck for damage?				18) Have	you checked b	oth cooling a	nd heating	on all indoor un	its individua	ally to ensure proper	r
								function?	-						
									Yes				lo		
5) Supply	electrical power	er V/Ph/Hz measured	at wiring	terminal block of								pipes and indoo conducting a v		itrogen to check for	
Indoor uni	t		Ou	tdoor unit:				positive it	Yes	130-2001	oi), beloie	N		. Clicck?	
		wer V/Ph/Hz measu						20) Did yo		rectly to check	k the conne	ecting pipes and	l indoor unit	for leakage? What	was
Indoor uni	<u> </u>			tdoor unit:					n gauge readin					J	
7) Wire ga	iuge, length ar	nd terminal colors bet	ween circ	uit breaker/discor	nect switch to	outdoor unit:		21) Did yo		ompressor's s	start and st			proper functionality	<u>n</u>
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8) Wire ga	iuge, length ar	nd terminal colors bet	ween ead	th indoor and outd	loor unit:							ed or recommer	nded refrige	rant pipe length, ho	W
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		uit breaker/fuse or d						23) Meas	ured refrigeran	t pressures a	t outdoor s	ervice suction v	alve when	unit was stabilized.	
0, 1110 012										Cooling (PS		Outdoor Am			
10) Are the	e inter-connec	ting wires and coppe	r lines bet	ween indoor and	outdoor			24) What				be not touching		` '	
units insta	lled/covered/p	rotected by line set o	overs, or	anything else?				At cooling	: indoor return	air °F		Discharge a	ir "F	and outdoor	*F
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11\ What i	s the refrinera	nt pipe length betwee	on each in	door unit and the	outdoor unit?			25) Have	vou checked a	Il unit function	ne with cue	tomer present	and all funct	tions are working	
ii) wiiati	s are renigera	nt pipe iengar betwee	ar caar iii	acci unit and the	outdoor unit:			correctly?		III UIIII IUIIOIOI	is with ous	torici present,	and an func	uons are working	
Unit A		Unit B	Un	it C	Unit D				Yes			N	lo		
	is/are the ind	oor unit(s) located? (26) Did yo		er how to ope	erate the ur	nit? Did he/she			
Unit A		Unit B		it C	Unit D				Yes		No .		es	No	
	s the elevation	difference between			_			27) Do yo	<u> </u>	lar one-year t	ree technic	cal service for th		on?	
Unit A	u chack tha in	Unit B door unit for condens	Un cato loaka		Unit D	a and after		20) Do vo	Yes	na dotaile in t	ho invoico	and leave a cop		etomor?	
connecting		acor unit for contacts	Julic ICaka	yc ana iciilycian	i roundye, belof	c and allel		20,00 90	u ii∋i ui⊏ WUKII	ng ucans III l	are mivolice	unu icave a co	y to the GUS	MOTION!	
	Yes			No					Yes			N	lo		
Installation	n Finished and	Unit Works Success	fully.					Installation F	inished and U	nit Works Sur	ccessfully			•	
		n HVAC Technician:						Print Name							
Signature: Date and time:					Signature:										
								Date and tin							
		edge the liability and res OT imply automatic wan													
		y, and does not include a													



Important Note: A copy of the installing HVAC company's invoice to show all their work details, your payment proof, center copy B of this registration card filled out after a successful installation, all three (3) MUST be mailed together to Warranty Dept., YMGI Group, POB 1559, O'Fallon, MO 63366, for warranty processing. Customer keeps bottom copy C. YMGI will check against copy A that was kept at YMGI.



WHY DOES YMGI GROUP REQUIRE INSTALLATION AND SERVICE TO BE PERFORMED 100% BY CURRENTLY LICENSED OR CERTIFIED HVAC TECHNICIANS/CONTRACTORS?

1. Expertise and Safety:

They have the training and experience to accurately and safely install and service your equipment. The equipment runs with high-pressure refrigerant, oil and electrical current. The copper lines must be installed properly to prevent leakage and foreign substances from contaminating the refrigerant system.

2. You will save money in the long run:

If any problem occurs with the unit that has been fully installed by a currently licensed or certified technician/contractor, contact the original licensed or certified HVAC technician to evaluate the unit as they have the training and experience to correct the problem quickly and efficiently. A technician may be unwilling to repair an issue on a unit that they did not install. If you do find a technician willing to perform this service, there is an increased possibility of higher service fees, increased service visits, or delayed service from that technician.

3. It's the law!

The federal, state and/or local government and authorities have various governing laws or regulations, guidelines, ordinances, etc. These laws may require only licensed or certified professionals can install and service this type of high pressure HVAC equipment.

SUGGESTIONS TO AID YOU IN HIRING AN HVAC CONTRACTOR:

- Hire a currently practicing, licensed/certified HVAC professional technician/contractor. Technicians, who are no longer practicing (retired, etc.) in this field, may not have current technical knowledge or may lack experience on the equipment you have purchased.
- 2. Hiring a licensed technician to install your unit as a "side job" and not hiring a licensed HVAC company may pose possible risk. This may result in an incomplete or unsatisfactory installation, no guarantee for workmanship and lack of maintenance and further service to your unit.
- 3. Hire a technician/contractor who services customers in your local area and one you are familiar with. Local contractors have a faster response time and it will be easier for you to determine if they are reputable.
- 4. Use only a reputable licensed/certified HVAC installation professional to prevent any unexpected charges because of unethical business practices.
- 5. Check their references, verify they provide professional service for their customers. N.A.T.E or A.C.C.A certified technicians are strongly recommended.
- 6. Some contractors/technicians may not feel comfortable about installing equipment that has been purchased by someone other than themselves. They prefer to purchase and install the equipment themselves. You can contact YMGI directly to check and see if there are contractors in your area who have installed our products or any similar products.
- 7. Ask for a detailed quote for the complete installation project. A flat rate quote is the safest contract for both you and the contractor.
- 8. Local HVAC technicians may charge you on a project basis or on an hourly basis. It has been our general experience; a full single head installation normally can cost \$800 to \$1500. These costs are estimates, and your actual costs may differ due to your specific job requirements and installation location.
- 9. Number of hours can vary depending upon each individual situation, some factors are, but not limited to:
 - Difficulty or complexity of securely installing the indoor unit.
 - Difficulty or length of the inter-connecting pipes and wires to be installed.
- 10. A successful installation is dependent on all these suggestions and all the necessary steps are followed.
- 11. If the contractor(s)/technician(s) are experienced with the systems/brands you purchased. You might save on the installation cost, but remember to always ask for and verify references.
- 12. The contracts should list and detail all work to be performed and the standards they will follow. Some contractors are willing to include a 1-year installation/service warranty at no extra charge. Check to see if this is an available option. If available, make sure it is included in the contract.
- 13. Verify and confirm the installation is completed and all the unit functions have been tested and working properly. All items on the checklist should be checked and clearly marked in the warranty registration card/form, prior to paying the contractor in full.

The cost of not having your unit professionally installed can be more expensive than the additional cost of hiring a certified contractor. Protect your investment and warranty eligibility by doing it right the first time.





∆WARNING

Safety Precautions

- 1. Follow these instructions to complete the necessary installation process. Carefully read this manual before installation and unit startup or servicing.
- 2. Wire size of power cord should be properly sized to meet the required electrical loads. Should the power cord get damaged, the power cord should be replaced with a manufacturer approved cable.
- 3. After connecting the power cord, attach the electric box cover and secure properly.
- 4. Always meet the nitrogen charge requirements when welding pipes.
- 5. Never short-circuit or cancel the pressure switch as this will result in damage to the unit.
- 6. Connect the wired controller before energizing, otherwise the wired controller cannot be used.
- 7. Before using the unit, verify the piping and wiring are correct. This will avoid water leakage, refrigerant leakage, electric shock, or fire etc.
- 8. Do not insert fingers or objects into the air outlet or inlet grille.
- 9. Open a door or window for ventilation for allowing fresh air to enter the room to avoid depleting the oxygen while gas/oil supplied heating equipment is used during the installation.
- Never start up or shut off the unit by means of directly plugging into or unplugging the power cord from the power outlet.
- 11. Turn off the unit after it runs at least five minutes, otherwise it will influence the oil return of the compressor.
- 12. Do not allow children to operate this unit.
- 13. Do not operate this unit with wet hands.
- 14. Turn off the unit or disconnect the power supply before cleaning the unit. This will avoid possible electric shock or personnel injury.
- 15. Never spray or splash water towards the unit. This can cause a malfunction in the unit or can result in electric shock.
- 16. Do not expose the unit to moist or corrosive environments.
- 17. While operating in cooling mode, do not set the indoor unit's room temperature too low.
- 18. YMGI Group recommends that only properly trained and authorized personnel be allowed to repair or service the unit. Improper repairs or servicing can result in electric shock or fire hazards. Please contact YMGI Group if you need help locating a qualified repair or service technician.
- 19. Before installation, check the power supply to ensure it is sufficient to meet and is in accordance with the requirements specified on the nameplate of the unit. Ensure the power overload is functioning correctly and make sure it is properly maintained.
- 20. Installation must be performed only by an authorized installer or HVAC professional in accordance with the requirements set by the NEC and CEC. Do not attempt to install the unit yourself. Improper handling may result in water leakage, electric shock, fire, and voiding of the warranty.
- 21. Be sure to use only approved accessories and parts to prevent water leakage, electric shock and fire.
- 22. Make sure the unit is grounded properly prior to connecting to power source, to avoid electric shock. Do not connect the ground wire to a gas pipe, water pipe, lightning rod or telephone line.
- 23. Energize the unit for 8 hours before operation. Turn off or disconnect the power within 24 hours to prevent short-cycling (to protect the compressor).
- 24. If refrigerant leakage happens in a confined space during installation, ventilate immediately. Poisonous gases can occur if the refrigerant gas is exposed to fire.
- 25. Volatile liquids, such as paint thinners or solvents if exposed to the unit's surface will cause damage to the surface finish. Only use a soft cloth along with a mild non-abrasive detergent to clean the outer casing of the unit.
- 26. If the unit does not operate normally or if you notice any type of burning odor, power off the unit and turn off the main power supply, then immediately contact your YMGI authorized repair service center or HVAC professional.





NOTICE

YMGI Group will not be responsible for any personal injury or any property damage caused by improper or incorrect installation, improper service or maintenance or by not following the instructions listed in this manual.

DO NOT pull on the power supply cords or refrigeration lines that are connected to the indoor and outdoor units. Install the power supply cords and secure them into position. PVC line set cover is recommended for the outdoor unit to protect against rain, sunlight and accidental damage.

DO NOT allow cold air to blow directly onto people for a prolonged period, as this could make people cold and uncomfortable.

DO NOT undersize any of the power supply wires.

DO NOT connect several units to a single breaker. Don't undersize or oversize the circuit breaker. A poorly sized circuit breaker can cause unit failure and even fire.

DO NOT wire or open a unit while the unit is running. Make sure to disconnect the power supply and switch off all circuits prior to inspecting or servicing the unit. Inspecting and servicing the unit while the power supply is connected, and the circuits are switched on could cause an electrical shock or fire.

DO NOT install the indoor unit near any cooking surfaces, in direct sunlight or any ventilation systems. Poor placement could decrease efficiency and waste energy.

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

DO NOT apply chemical solvents, flammable insecticides, or abrasive materials directly on the unit. Clean the unit only with a soft dry cloth.

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

DO NOT use the system for anything other than what it was designed.

DO NOT store or install the units near food, paint, or other chemicals.

DO NOT use the unit in cool or dry mode for prolonged periods where humidity is higher than 90%.

DO NOT operate the unit for prolonged periods without refreshing ambient air. Open a door or window periodically to allow in fresh air.

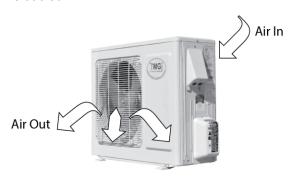


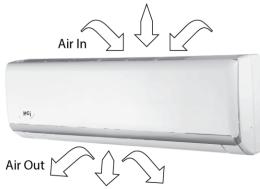


BRIEF INTRODUCTION TO MINI SPLIT WALL MOUNT SYSTEM

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.





Outdoor unit

Indoor unit

Sample Wall Mount Mini Split System (For Continuous Engineering Improvement and Various Marketing Needs and Actual Part Availability, 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, depending upon unit size and applications. Air is discharged horizontally, quietly and smoothly. These units are a 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



Offices, Restaurants, Gyms, etc.



Homes

NOTES:

Since ductless system is not designed to incorporate or use with ducted return or discharge tunnels, one single-zone unit should 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

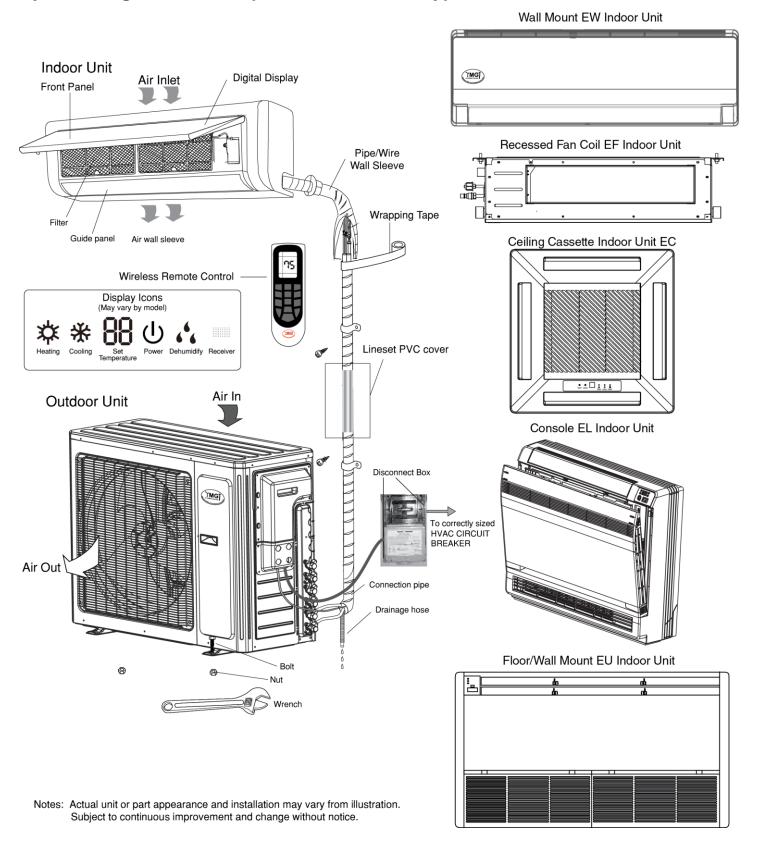
- Light commercial
- Industrial

Hospital





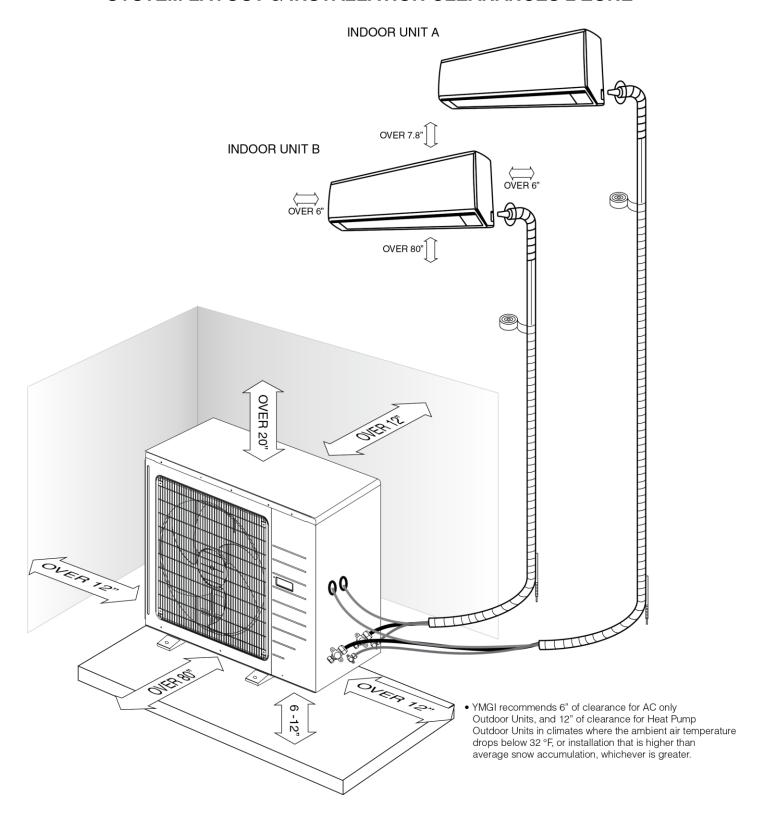
System Diagram and Compatible Indoor Unit Types







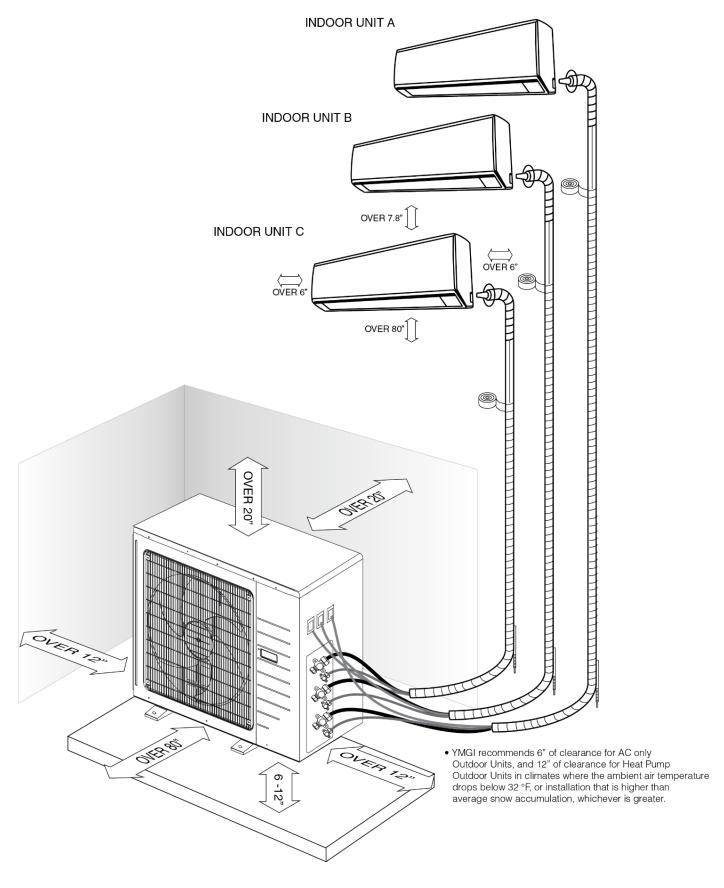
SYSTEM LAYOUT & INSTALLATION CLEARANCES 2 ZONE







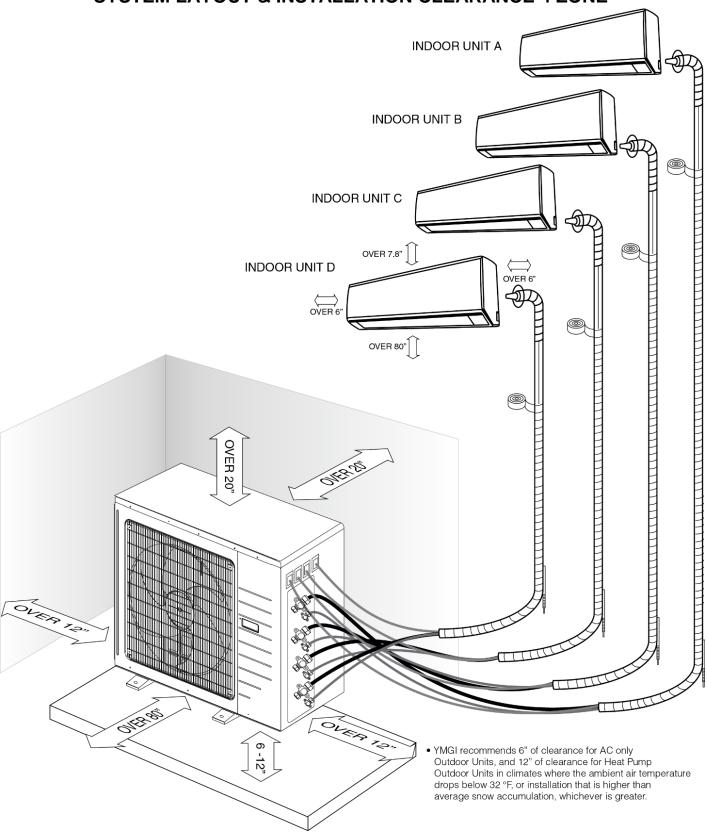
SYSTEM LAYOUT & INSTALLATION CLEARANCE 3 ZONE







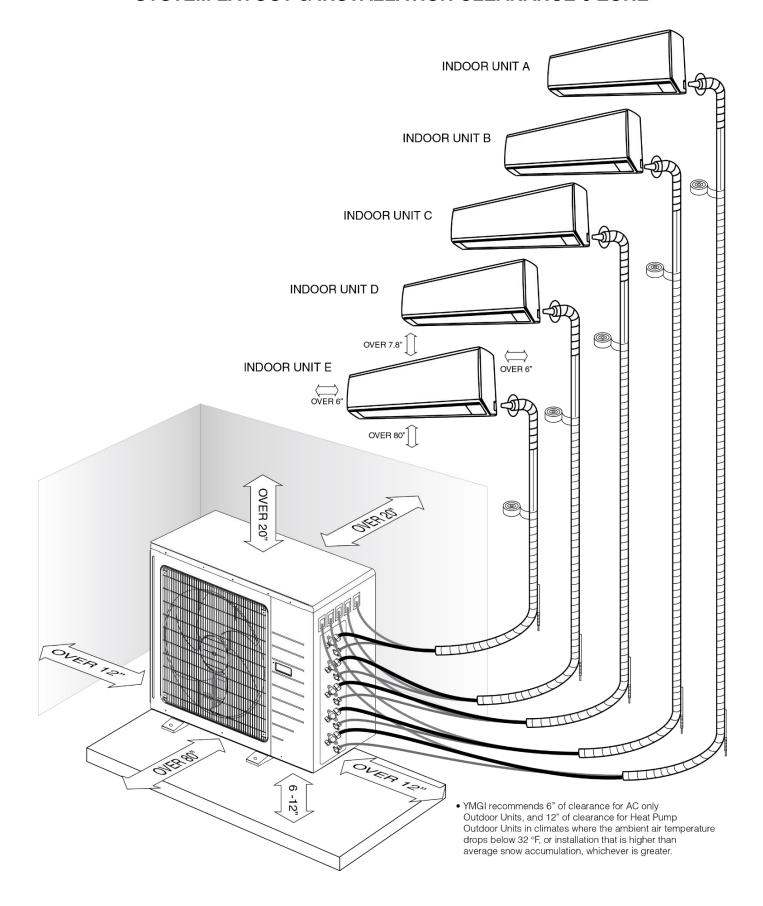
SYSTEM LAYOUT & INSTALLATION CLEARANCE 4 ZONE







SYSTEM LAYOUT & INSTALLATION CLEARANCE 5 ZONE

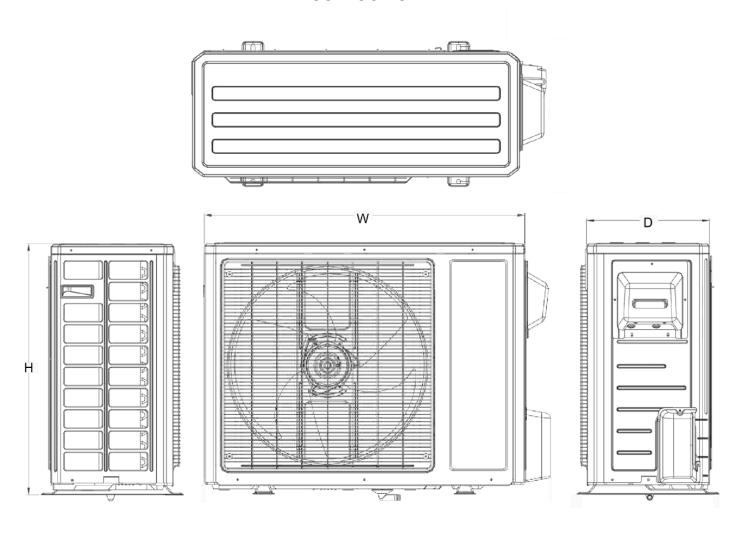






UNIT ENGINEERING SUBMITTALS-MECHANICAL

OUTDOOR UNIT



		Dimensions (In)	Weight (lbs.)		
Model	W	Н	D	Net	Operation
30CH	37.63	27.56	15.59	114.6	124.5
36CH	38.58	31.13	16.8	153	164
42CH	38.58	31.13	16.8	154	169.76
48CH	42.8	43.43	17.32	198.4	216
60CH	42.8	43.43	17.32	198.4	216





(59)5 ODU Specification Sheet

MULTI GEN2		WMMS-30CH- V2B(59)5	WMMS-36CH- V2B(59)5	WMMS-42CH- V2B(59)5	WMMS-48CH- V2B(59)5	WMMS-60CH- V2B(59)5
System Type			HEAT	PUMP		
Number of Zones		2	2 - 3	2 - 4	2 - 4	2 - 5
SYSTEM PERFORMANCE (Non-Duo	cted Indoor Units)				
Cooling Capacity (Min- Max)	Btu/h	17000 (7000 - 19600)	23200 (7500 - 31400)	284000 (8190 - 34100)	34000 (8871 - 35826)	36000 (8871 - 40944)
Heating Capacity (Min-Max)	Btu/h	18000 (7000 - 19600)	24000 (7500 - 31400)	30000 (8190 - 40900)	36000 (8871 - 44356)	40000 (8871 - 46062)
SEER2 / EER2		21 / 12	21 / 12.5	21 / 12.5	21 / 12	21 / 12
HSPF2 / COP		10 / 3.8	10 / 3.9	10 / 3.9	10 / 3.6	10 / 3.9
Energy Star®		YES	YES	YES	YES	YES
SYSTEM PERFORMANCE Indoor Units)	(Ducted					
Cooling Capacity (Min- Max)	Btu/h	17000 (7000 - 19600)	23200 (7500 - 31400)	284000 (8190 - 34100)	34000 (8871 - 35826)	36000 (8871 - 40944)
Heating Capacity (Min-Max)	Btu/h	18000 (7000 - 19600)	24000 (7500 - 31400)	30000 (8190 - 40900)	36000 (8871 - 44356)	40000 (8871 - 46062)
SEER2 / EER2		16 / 11	16 / 11	16 / 11	16 / 11	16 / 11
HSPF2 / COP		8 / 3.3	8 / 3.4	8 / 3.4	8 / 3.3	8 / 3.5
Energy Star®		NO	NO	NO	NO	NO
SYSTEM PERFORMANCE Ducted Indoor Units)	(Mixed [Ducted and Non-				
Cooling Capacity (Min - Max)	Btu/h	17000 (7000 - 19600)	23200 (7500 - 31400)	284000 (8190 - 34100)	34000 (8871 - 35826)	36000 (8871 - 40944)
Heating Capacity (Min - Max)	Btu/h	18000 (7000 - 19600)	24000 (7500 - 31400)	30000 (8190 - 40900)	36000 (8871 - 44356)	40000 (8871 - 46062)
SEER2 / EER2		18.5 / 11.5	18.5 / 11.8	18.5 / 11.8	18.5 / 11.5	18.5 / 11.5
HSPF2 / COP		9 / 3.6	9 / 3.7	9 / 3.7	9 / 3.5	9 / 3.7
Energy Star®		NO	YES	YES	NO	NO
OUTDOOR UNIT DATA		MULTI18HP230V1EO	MULTI24HP230V1EO	MULTI30HP230V1EO	MULTI36HP230V1EO	MULTI42HP230V1EO
Cooling Temperature Range	°F	-22 - 118	-22 - 118	-22 -	-22 - 118	-22 - 118
Heating Temperature Range	°F	-22 - 75	-22 - 75	-275	-22 - 75	-22 - 75
Refrigerant Type				R410A		
Compressor Type			GREE G-10 / 2 - S	STAGE INVERTER		
Sound Pressure Level	dB(A)	53	58	63	63	63
External Dimensions (W x H x D)		32 3/8 × 21 11/16 × 13 7/8	38 × 26 × 15 7/840 3/1	6 × 32 9/16 × 16 13/16	40 3/16 × 32 9/16 × 16 13/16	40 3/16 × 32 9/16 × 16 13/16

















R-T CONVERSION TABLE

R25 : 15.0k Ω (Tolerance 1%)

Temp. (°F)	Resistance (kΩ)						
-2.2	138.1	68	18.75	138.2	3.848	208.4	1.071
-0.4	128.6	69.8	17.93	140	3.711	210.2	1.039
1.4	121.6	71.6	17.14	141.8	3.579	212	1.009
3.2	115	73.4	16.39	143.6	3.454	213.8	0.98
5	108.7	75.2	15.68	145.4	3.333	215.6	0.952
6.8	102.9	77	15	147.2	3.217	217.4	0.925
8.6	97.4	78.8	14.36	149	3.105	219.2	0.898
10.4	92.22	80.6	13.74	150.8	2.998	221	0.873
12.2	87.35	82.4	13.16	152.6	2.896	222.8	0.848
14	82.75	84.2	12.6	154.4	2.797	224.6	0.825
15.8	78.43	86	12.07	156.2	2.702	226.4	0.802
17.6	74.35	87.8	11.57	158	2.611	228.2	0.779
19.4	70.5	89.6	11.09	159.8	2.523	230	0.758
21.2	66.88	91.4	10.63	161.6	2.439	231.8	0.737
23	63.46	93.2	10.2	163.4	2.358	233.6	0.717
24.8	60.23	95	9.779	165.2	2.28	235.4	0.697
26.6	57.18	96.8	9.382	167	2.206	237.2	0.678
28.4	54.31	98.6	9.003	168.8	2.133	239	0.66
30.2	51.59	100.4	8.642	170.6	2.064	241	0.642
32	49.02	102.2	8.297	172.4	1.997	242.8	0.625
33.8	46.6	104	7.967	174.2	1.933	244.6	0.608
35.6	44.31	105.8	7.653	176	1.871	246.4	0.592
37.4	42.14	107.6	7.352	177.8	1.811	248.2	0.577
39.2	40.09	109.4	7.065	179.6	1.754	250	0.561





YMGI: Your Modern Green Idea

41	38.15	111.2	6.791	181.4	1.699	251.8	0.547
42.8	36.32	113	6.529	183.2	1.645	253.6	0.532
44.6	34.58	114.8	6.278	185	1.594	255.4	0.519
46.4	32.94	116.6	6.038	186.8	1.544	257.2	0.505
48.2	31.38	118.4	5.809	188.6	1.497	259	0.492
50	29.9	120.2	5.589	190.4	1.451	260.8	0.48
51.8	28.51	122	5.379	192.2	1.408	262.6	0.467
53.6	27.18	123.8	5.197	194	1.363	264.4	0.456
55.4	25.92	125.6	4.986	195.8	1.322	266.2	0.444
57.2	24.73	127.4	4.802	197.6	1.282	268	0.433
59	23.6	129.2	4.625	199.4	1.244	269.8	0.422
60.8	22.53	131	4.456	201.2	1.207	271.6	0.412
62.6	21.51	132.8	4.294	203	1.171	273.4	0.401
64.4	20.54	134.6	4.139	204.8	1.136	275.2	0.391
66.2	19.63	136.4	3.99	206.6	1.103	277	0.382





R-T CONVERSION TABLE

R25 : 20.0k Ω (Tolerance 1%)

Temp. (°F)	Resistance (kΩ)						
-2.2	181.4	68	25.01	138.2	5.13	208.4	1.427
-0.4	171.4	69.8	23.9	140	4.948	210.2	1.386
1.4	162.1	71.6	22.85	141.8	4.773	212	1.346
3.2	153.3	73.4	21.85	143.6	4.605	213.8	1.307
5	145	75.2	20.9	145.4	4.443	215.6	1.269
6.8	137.2	77	20	147.2	4.289	217.4	1.233
8.6	129.9	78.8	17.14	149	4.14	219.2	1.198
10.4	123	80.6	18.13	150.8	3.998	221	1.164
12.2	116.5	82.4	17.55	152.6	3.861	222.8	1.131
14	110.3	84.2	16.8	154.4	3.729	224.6	1.099
15.8	104.6	86	16.1	156.2	3.603	226.4	1.069
17.6	99.13	87.8	15.43	158	3.481	228.2	1.039
19.4	94	89.6	14.79	159.8	3.364	230	1.01
21.2	89.17	91.4	14.18	161.6	3.252	231.8	0.983
23	84.61	93.2	13.59	163.4	3.144	233.6	0.956
24.8	80.31	95	13.04	165.2	3.04	235.4	0.93
26.6	76.24	96.8	12.51	167	2.94	237.2	0.904
28.4	72.41	98.6	12	168.8	2.844	239	0.88
30.2	68.79	100.4	11.52	170.6	2.752	241	0.856
32	65.37	102.2	11.06	172.4	2.663	242.8	0.833
33.8	62.13	104	10.62	174.2	2.577	244.6	0.811
35.6	59.08	105.8	10.2	176	2.495	246.4	0.77
37.4	56.19	107.6	9.803	177.8	2.415	248.2	0.769
39.2	53.46	109.4	9.42	179.6	2.339	250	0.746
41	50.87	111.2	9.054	181.4	2.265	251.8	0.729
42.8	48.42	113	8.705	183.2	2.194	253.6	0.71
44.6	46.11	114.8	8.37	185	2.125	255.4	0.692
46.4	43.92	116.6	8.051	186.8	2.059	257.2	0.674
48.2	41.64	118.4	7.745	188.6	1.996	259	0.658
50	39.87	120.2	7.453	190.4	1.934	260.8	0.64
51.8	38.01	122	7.173	192.2	1.875	262.6	0.623
53.6	36.24	123.8	6.905	194	1.818	264.4	0.607
55.4	34.57	125.6	6.648	195.8	1.736	266.2	0.592
57.2	32.98	127.4	6.403	197.6	1.71	268	0.577
59	31.47	129.2	6.167	199.4	1.658	269.8	0.563
60.8	30.04	131	5.942	201.2	1.609	271.6	0.549
62.6	28.68	132.8	5.726	203	1.561	273.4	0.535
64.4	27.39	134.6	5.519	204.8	1.515	275.2	0.521
66.2	26.17	136.4	5.32	206.6	1.47	277	0.509





R-T CONVERSION TABLE

R25 : 50.0k Ω (Tolerance 1%)

Temp. (°F)	Resistance (kΩ)						
-20.2	853.5	50	98	120.2	18.34	190.4	4.754
-18.4	799.8	51.8	93.42	122	17.65	192.2	4.609
-16.6	750	53.6	89.07	123.8	16.99	194	4.469
-14.8	703.8	55.4	84.95	125.6	16.36	195.8	4.334
-13	660.8	57.2	81.05	127.4	15.75	197.6	4.204
-11.2	620.8	59	77.35	129.2	15.17	199.4	4.079
-9.4	580.6	60.8	73.83	131	14.62	201.2	3.958
-7.6	548.9	62.6	70.5	132.8	14.09	203	3.841
-5.8	516.6	64.4	67.34	134.6	13.58	204.8	3.728
-4	486.5	66.2	64.33	136.4	13.09	206.6	3.619
-2.2	458.3	68	61.48	138.2	12.62	208.4	3.514
-0.4	432	69.8	58.77	140	12.17	210.2	3.413
1.4	407.4	71.6	56.19	141.8	11.74	212	3.315
3.2	384.5	73.4	53.74	143.6	11.32	213.8	3.22
5	362.9	75.2	51.41	145.4	10.93	215.6	3.129
6.8	342.8	77	49.19	147.2	10.54	217.4	3.04
8.6	323.9	78.8	47.08	149	10.18	219.2	2.955
10.4	306.2	80.6	45.07	150.8	9.827	221	2.872
12.2	289.6	82.4	43.16	152.6	9.489	222.8	2.792
14	274	84.2	41.34	154.4	9.165	224.6	2.715
15.8	259.3	86	39.61	156.2	8.854	226.4	2.64
17.6	245.6	87.8	37.96	158	8.555	228.2	2.568
19.4	232.6	89.6	36.38	159.8	8.268	230	2.498
21.2	220.5	91.4	34.88	161.6	7.991	231.8	2.431
23	209	93.2	33.45	163.4	7.726	233.6	2.365
24.8	198.3	95	32.09	165.2	7.47	235.4	2.302
26.6	199.1	96.8	30.79	167	7.224	237.2	2.241
28.4	178.5	98.6	29.54	168.8	6.998	239	2.182
30.2	169.5	100.4	28.36	170.6	6.761	241	2.124
32	161	102.2	27.23	172.4	6.542	242.8	2.069
33.8	153	104	26.15	174.2	6.331	244.6	2.015
35.6	145.4	105.8	25.11	176	6.129	246.4	1.963
37.4	138.3	107.6	24.13	177.8	5.933	248.2	1.912
39.2	131.5	109.4	23.19	179.6	5.746	250	1.863
41	125.1	111.2	22.29	181.4	5.565	251.8	1.816
42.8	119.1	113	21.43	183.2	5.39	253.6	1.77
44.6	113.4	114.8	20.6	185	5.222	255.4	1.725
46.4	108	116.6	19.81	186.8	58.06	257	1.682
48.2	102.8	118.4	19.06	188.6	4.904	259	1.64





USER NOTES AND INSTALLATION/SERVICE/MAINTENANCE NOTES

INSTALLATION NOTES

Please record any questions or problems you have experienced as a unit history:

No.	Date	Notes	Asked Your Technician for Help?	Asked YMGI Tech. contacted for help?
				·





USER NOTES

Please record any questions or problems you have experienced as a unit history:

No.	Date	Company Name, Technician Name, Phone	Job Not Performed	Technician Checklist
		& HVAC License #	by Technician	Completed Fully?





SERVICE / MAINTENANCE NOTES

No.	Date	Type of Service / Maintenance	Company Name, Technician Name, Phone & HVAC License #









YMGI is dedicated to designing, manufacturing and distributing the highest quality, energy saving and environmentally friendly air conditioner and heat pump products, while providing the best service and support to all of our customers.

Our mission is to help build a sustainable, efficient and green world.

YMGI Symphony-Ductless & Ducted Heat Pump & Heat Recovery:

- Symphony SOLAR DC Inverter
 - (56) Single PV, (79) Single PH 12-18K Btu/h
 - (86) Single Zone All DC 09-24K Btu/h
 - (55) Multi Zone Solar VRF 3, 4, 8, 16, and 24 Ton.
- Symphony SOLO DC Inverter
 - (54) Series -22 °F Heat Pump and Universal Cabinet
 - (57)2,3 Single Zone 16 SEER, 09-36K Btu/h
 - (58)4, (78)1-Single Zone 18-23 SEER, 09-36K Btu/h
- Symphony CHOIR DC Inverter
 - (46)2 DC Inverter Multiple Zone 15 SEER, 2x09K and 2x12K Btu/h (59)2S-DC Inverter Multiple Zone 16 SEER 6x09K to 9x09K Btu/h (59)4-DC Inverter Multiple Zone 21 SEER 2x09K to 5x12K Btu/h
- Symphony VRF DC Inverter HP, Heat Recovery, and Solar. Up to 64 zones.
 (55)5 -4°F Heat Pump, Heat Recovery
 (55)5 -22°F Ultra Heating Heat Pump, Heat Recovery
 Air Source and Water Source
- Symphony HARMONY-Packaged Self-Contained 42"x16" PTAC/PTHP Electric Heater or Hot Water Coil 26"x16" TTWA VPAK
- Symphony CONDUCTOR-Split Type Condensing Units Side Discharge VRUO, YTAC & SHCR

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Unit appearance and specifications are subject to change without notice.

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