



MAXIMUM COMFORT



Symphony Series

.....

DUCTLESS MINI DC INVERTER
SINGLE & MULTI ZONES

WELCOME



Welcome to the Symphony - SOLO (Single Zone) and CHOIR (Multiple Zone) DC Inverter Mini Split Systems!

Where Comfort and Performance Live in Perfect Harmony.

At YMGi, we're all about comfort and performance. Just as great symphonies work in harmony to create the perfect performance, so too does YMGi in the products we build and the service we provide to our customers. As a leading manufacturer of green technologies, YMGi strives to make products that bring harmony to our customers' environments... heating and cooling comfort, acoustic quietness, clean, healthy air (both inside and out), energy savings and peace of mind.

Efficient, Reliable and Stylish

YMGi products quickly and quietly cool or heat your room in the most efficient way possible. Both the indoor unit and outdoor unit designs bear a contemporary style with a sleek shape and aesthetically pleasing color. Most importantly, they are engineered with quality parts that promise reliability and longevity. And of course, we stand behind our products and will work tirelessly to make sure you are completely satisfied.

Meet the Symphony Conductor

YMGi is a world leader in the design, manufacture and sale of air conditioner and heat pump units of all types used in residential, light commercial, institutional, hospitality, industrial and other applications. Our HVAC & Refrigeration products offer the best value available and are friendly to the environment, installers and end users.

A Talented Ensemble Working in Perfect Harmony

Our R&D team consists of highly experienced professionals. Our Lab team offers non-stop support for R&D and quality assurance. Our Quality Control and Quality Assurance teams tightly control all processes, including design, parts, equipment assembly, inspection and shipping.

*Discover
Maximum Comfort.*

“We love YMGi ductless DC Inverter units, because they are a smart, clean, efficient and affordable heating and cooling solution for almost any job large and small.”

—CONTRACTOR
SAN ANTONIO, TEXAS



Table of Contents

| | |
|---------------------------|----|
| Introduction | 1 |
| Benefits | 4 |
| Unique Features | 6 |
| Specifications | 12 |
| • Symphony SOLO | |
| • Symphony CHOIR | |
| The YMGi Advantage | 18 |
| • Technical Support | |
| • Customer Service | |
| • Warranty Overview | |

Meet the Symphony Performers

The YMGi Symphony-DC Inverter Series includes the SOLO single zone mini split systems and the CHOIR multiple zone mini split systems. The SOLO consists of one indoor unit and one outdoor unit. It is the perfect performer to heat and cool smaller single zone spaces like sunrooms, nurseries, apartments, condos, offices and mobile homes. The CHOIR consists of multiple indoor units and one condensing unit. It is the perfect performer to heat and cool larger spaces where multiple zone mini split systems can be a good fit in, like libraries, hotels, homes, galleries and restaurants.

Both these YMGi Symphony DC Inverter systems utilize the latest inverter technology. They allow just the right amount of warm and cool air, and they do it much more efficiently than conventional central air units or regular 13SEER mini split systems. So, relax and enjoy the Symphony - SOLO and CHOIR - DC Inverter Series single zone and multiple zone systems.



MINI SPLIT

A Smart Heating And Cooling Solution

YMGi Symphony DC Inverter mini split ductless air conditioning and heat pump systems are designed to cool or heat quickly, quietly and efficiently. They are a great solution for both new projects and retrofit or remodeling jobs. Mini-splits are ideal for room additions and newly enclosed spaces (sunrooms, enclosures, garages, porches, decks) that should not be connected to the main air conditioning system and where extending or installing regular ductwork would be time consuming, costly, or even impossible. Mini split systems are the easiest and simplest cooling solution for additions to existing homes that have been installed with non-ducted heating systems, like hot water heat, radiant heat or space heaters.

How Mini Split Systems Work - The Differences between Central Air and Mini Split Systems

If you are familiar with a central air system, you have already had a basic idea of what a split system is. It consists of an outdoor condensing unit and an indoor evaporator unit.

The basic difference between a mini split and central system is that the evaporator unit of the central system is typically found in the basement or attic and that it uses metal or fiberglass ductwork to deliver the warm or cool air to the different rooms in your house. The mini split system is totally ductless. The mini split indoor unit is mounted right in the room you want to cool or heat, and no ductwork of any kind is needed.

A central system also requires space inside the walls between the joists for the ductwork, plus floor/wall/ceiling space to install the metal/wooden registers. These systems are often noisy and the ductwork is a haven for dust, germs, molds, bacteria, or even bugs.

The mini split systems are totally ductless. The outdoor and indoor units are connected with small refrigerant copper pipes and wires being wrapped tight and securely through a small 3" opening in the wall. This makes installation fast, easy and discreet. There is no need to tear up walls to place ductwork, leaving the existing building structure and décor intact.

The mini split's compressor in the outdoor condensing unit pumps refrigerant through the condensing coils and metering device to the indoor unit where a quiet fan blows across its cold aluminum coil to cool the room in summer. Even more remarkable is that this same unit, in heat pump mode, works in reverse in winter. It absorbs heat from the outside air and moves it indoors to heat the room. For most climates, this results in efficient, cooling and heating comfort all year long.



Maximum Comfort, Minimum Cost

A conventional forced air cooling or heating system uses an "on and off" cycle and is a tremendous energy hog. This also reduces the life span of the compressor and other components. Once a conventional system is running, it runs at its maximum speed, consuming the maximum amount of energy in order to reach the desired temperature. The system then has to cycle between on and off, in an effort to maintain the target temperature.

When a Symphony Series Mini Split DC Inverter system starts up slowly and smoothly, and then it climbs up to runs with a higher speed to bring the room temperature to the desired level rapidly. Once the set temperature is reached, it slows down and adjusts its capacity to just counter the heat loss or heat gain of the building. This maintains a consistent temperature, delivering maximum comfort at minimum cost.

Easy to Operate and To Live With

All YMGi mini split units have a contemporary styling that will complement any décor both indoor and outdoor. The indoor units feature low noise levels, horizontal and/or vertical air directional louvers to spread air flow more evenly around the room. The wireless remote control allows you to select the operating thermal mode, fan speed, along with the operation and oscillation of the air louvers. The remote control also allows you to program when the unit will need to turn on and off. The outdoor units feature low noise levels, horizontal venting and stylish looking.

Products Perfect for Any Decor

YMGi' SOLO and CHOIR systems offer a wide range of indoor wall-mounted, ceiling/floor and ceiling flush-mounted units to cool or heat your rooms. The attractive, flat design of the wall-mounted units complement any décor and the flush-mounted ceiling units are barely noticeable when installed into a suspended ceiling system normally found in offices, stores, bars, gyms, and so on.

BENEFITS

Various Models And Features to Meet Any Need

YMGi offers the widest selection of DC Inverter mini split systems on the market: SOLO single zone units from 9,000 BTUs up to 36,000 BTUs and CHOIR multi-zone units from 2x9,000 Btu/h to 4x12,000 Btu/h, up to 5x12,000 Btu/h 5-ton. Plus, all YMGi DC Inverter mini split units use energy efficient rotary compressors built by the most reliable names in the industry, including Mitsubishi, Sanyo, Toshiba, Hitachi, Panasonic/Matsushita, and more.

Cover Up to Five Zone

While the SOLO is perfect for zoning an individual room, the CHOIR system is the perfect solution for zoning multi-rooms. Currently, YMGi CHOIR DC Inverter Mini-Split System can cover up to five indoor handling units in five separate zones from just one outdoor unit. The CHOIR's various indoor unit selections of sizes and styles, and great zoning flexibility make it perfect choice for multi-zone applications.

Go Green - Reduce Greenhouse Gas Emissions

By installing a YMGi Symphony Series system, you are taking part in a movement to reduce the impact of green house gas emissions and global warming. That's because you are using some of the most energy efficient products in the industry. Every function within the Symphony Series DC Inverter mini split system, from the ductless designs, zoning capabilities, DC Inverter technology, all the way through to our exclusive U-TOUCH remote control, is aimed at reducing energy consumption, which, by the way, also saves you money on energy costs and protects the environment by limiting conventional or new energy consumption.

Save Money And The Environment

As much as half of the energy used in your home goes toward heating and cooling. In conventional central air systems, over 30% of the heat created escapes from the ducts before it ever enters the room. Since the YMGi mini split systems have no ductwork, less energy is used and fewer green house emissions are created.

More savings are realized in our zoned systems. Because each zone or room is controlled separately, you only need to cool or heat a room when it is being used or actually needed. This along with energy efficiency ratings up to 22 SEER means YMGi DC Inverter systems will not only make your home more comfortable to live in, also they will make your electric bills more comfortable to live with.

Eco-friendly Refrigerant

Our green mission doesn't end with energy efficiency. Symphony Series systems also use eco-friendly R-410A refrigerant, which protects the ozone. For more than four decades, R-22 has been the refrigerant of choice for residential heat pump and air-conditioning systems. Unfortunately for the environment, releases of R-22 from leaks contribute to the depletion of the ozone layer significantly contributing to global warming.

At YMGi, one of our missions has been to constantly develop more environmentally friendly products. And, we are committed to continue this mission toward a greener world.

Breathe Healthier

Another important benefit of YMGi mini split ductless systems is providing cleaner air to breathe. Conventional ducted systems are particularly notorious for poor air quality. The ductwork used in these systems is often a breeding ground for viruses, bacteria, molds and other allergens that can cause allergic reactions and even disease. As air is blown through these ducts where allergens can spread throughout the room and potentially threaten your health. YMGi mini split systems don't have a bed for them to live or grow, which means you breathe healthier.

Experience Maximum Air Filtration

YMGi solves this problem by eliminating ducts and incorporating either our standard washable filter or one of our advanced optional filters, such as our active enzyme filter, cold catalyst filter or static electric filter. These filters trap and catch the biological contaminants that normal filters can't, protecting your family and making your home an allergy-free haven, even if you have pets.

Sleep Better Every Night

Your quality of sleep can directly impact your health both physically and mentally. YMGi DC Inverter SOLO & CHOIR mini split systems come equipped with Sleep Mode, a feature that could just give you the best night's sleep you've ever experienced. If you are like most of us, when you sleep with the central air conditioner turned off, you may feel too hot and wake up at night. But, when you sleep with it turned on, you may feel too cold and uncomfortable.

In Sleep Mode, YMGi SOLO & CHOIR systems automatically adjust the temperature in the room to adapt to a person's regular sleep pattern, so you remain comfortable all night long. Sleep Mode even saves energy, too. Better sleep and less money, now that deserves a big ovation!

Perfect Temperature in Every Room

Now you can control the comfort independently in each and every room. YMGi Symphony SOLO and CHOIR systems allow you to set the temperature for each room with an easy-to-use, wireless remote control. Just click Auto Mode and consistent indoor comfort is delivered to each room. Sensors detect temperature disparities between target temperature and actual temperature within the room and automatically adjust thermal pattern and delivers the right amount of airflow and comfort.

Quiet, Peaceful Operation

All YMGi SOLO & CHOIR systems reduce interior decibel levels by optimizing the acoustic design at the airflow tunnel, using anti-leak insulation materials and incorporating a multi-speed motor and random pitch cross-flow fan wheel. All these add up to a truly quieter and gentler heating and cooling system.

The SOLO and CHOIR outdoor units adjust the rotating speed up and down following the actual cooling or heating loads, which means they will climb up to run at the highest speed to cool or heat the room at start-up and stay at low speed maintaining temperatures during most of time. Lubrication oil within the compressor reduces friction during operation for smoother and quieter rotation. Less vibration results in a more durable compressor and quieter operation.

In addition, sound/vibration absorbing jackets are wrapped around the compressors. The copper pipes between the compressor, the 4-way reversing valves, stopping valves and other refrigeration components are bent and joined perfectly to reduce or avoid tension and vibration. Weight-balancing rubber is also used to lower piping shaking in more extreme operating conditions.

All this and more, minimizes vibration and tension, which reduces not only noise, but helps prevent the leakage of refrigerant gas over time. The result is a system that operates quietly, efficiently and safely, and provides years of dependable service.

UNIQUE FEATURES

both *Simple* & *Profound*



Intelligent Defrosting

Unlike other time-determined defrost system, YMGi on-demand defrosting is intelligently controlled by a YMGi programmed microcomputer processor to ensure the worry-free, effective heat pump heating performance, in both mild and cold weather. This unique ON-DEMAND defrosting design helps improve heating efficiency, thermal performance and your comfort throughout the heating season.

High Efficiency

All YMGi DC Inverter systems, with SEER up to 22SEER, which is far exceeding the current world standards for energy efficiency, are ETL listed in both the U.S. and Canada. They are also certified by and listed with AHRI and ENERGY STAR®.

U-TOUCH Remote

With the touch of a button, the U-TOUCH smart adaptive wireless remote control puts the control of room temperature right in the palm of your hands. In fact, it's the most user-friendly remote control available. While other mini split systems most likely place their indoor air temperature sensor behind the grille of an indoor unit mounted high on the wall.

YMGi Technology

Adaptive Smart Control

The adaptive smart control fuzzy logics enables a responsively quick and precise control over the compressor frequency, voltages, fan speed, valve opening sizes, and so on, to ensure precise thermal and safe adjustment to allow delivery of exact amount of warm or cool air needed to ensure maximum comfort, at minimum energy consumption.

Soft Start

The compressor starts at a lower voltage and frequency and ramps up over a period of time, which makes a smooth and soft start. This also cuts energy consumption of the outdoor unit by approximately 30% during start-up, compared to other regular full-speed start-up. It also reduces the load on the electrical circuit when more than one electrical device is used at the same time.

Compressor Crank Case Heater

This component helps heat up the compressor when the outdoor ambient temperature is low, so that the compressor can have a smooth easy start, especially when ambient temperatures go too low in extreme cold weather.

De-Ice Base Pan Heater

This component will be actuated when the outdoor ambient temperature goes too low and/or ice may be built up in the base pan, in order to keep ice from being built up to damage the unit.

Over-Current & Over-Heat Over-Pressure Protection

Built-in protection against both over-current and over-heat and over-pressure to ensure safe operation and longer life of both components and unit.

Low Ambient Temperature Heating & Cooling

When outdoor temperatures reach low ranges, generally, both heat pump heating capacity and efficiency will drop from the standard ratings. With the state-of-the-art new technology from YMGi, heating and cooling with YMGi DC Inverter SOLO and CHOIR, in low ambient temperatures, has become better than many others. The powerful heating ensures you enjoy a warm life, even in cold weather.

The DC Inverter technology and special control logics has made cooling in low ambient temperature ranges a reality.

Optimized System Design

Components are both individually and systematically optimized to ensure SOLO and CHOIR a team work well done, in wide ranges of applications, and to deliver the right amount of comfort, right when you need it, at both maximum comfort and best efficiency.

DC Inverter Technology - Continuously Adjusting for Profound Performance

Unlike conventional systems that cycle between on and off repeatedly, YMGi Symphony Series SOLO and CHIOIR DC Inverter systems monitor room temperature and continuously adjust compressor speed up or down as needed to provide precise temperature/humidity control, resulting in a highly efficient system that provides a more constantly comfortable environment. DC Inverter systems achieve this by converting alternating current (AC) to Direct Current (DC), modulating pulse width, and then directing the inverted current back to alternating current at the optimum frequency to precisely generate the thermal output needed, and so can maintain the selected room temperature within very narrow ranges, consuming much less energy. The incoming electrical power has a fixed frequency of 60 Hertz. By converter and inverter, the various current frequencies and voltages can be generated to supply the system, allowing the compressor to run at different speeds.

UNIQUE FEATURES

both **Smart & Safe**

Comfort & Convenience

Auto Mode

By intelligently sensing and comparing the set temperature to the actual room temperature, this feature switches between heating and cooling modes automatically. By following room temperature changes, it will deliver the exact amount of warm or cool air needed to ensure maximum comfort.

Fast Turbo Heating and Cooling

This function boosts cooling or heating capacities, as quickly as possible, and makes rooms as comfortable as possible.

Air Swing

With the motorized louver's help, the louver can swing continuously back and forth between upper and lower position limits, or left and right (optional), as to direct air to every corner in the room to reach maximum comfort and even temperature spectrum inside. Or, the louver motor can stop at some point so that the louver can be fixed at some angle to your wishes. All these are controlled with a finger touch at the remote control.

Hot Start-Up (Anti-Cold Air Blowing)

When the heating operation starts up or whenever the system goes from cooling to heating, the indoor fan motor won't rotate at the very beginning, to avoid cold air being released into the room. When the indoor unit coil/pipes are heated up and get hot enough, and the fan starts up and releases warm air into the room.

Sleep Mode

Automatically adjust the room set temperature to adapt to the lower cooling/heating load needs during the sleep period. With the Sleep Mode on, it will adjust the room set temperature to slowly rise when cooling or fall when heating, over the sleep mode, before the unit stops. Besides saving energy, it allows comfortable sleep by preventing a sudden change in the room temperature.

24-Hour On/Off Timer

Allows for cooling or heating to be set to start or stop at any time within

Memory and Auto Restart

By automatically memorizing the operation mode, airflow, temperature and other settings, should power ever be cut off or lost to the unit, it will automatically return to the same settings, after power is restored.

Self-Diagnosing

Should a problem ever develop, the unit will display an error code on the LCD display of indoor unit and/or LED lights on outdoor control boards. With different lit patterns, the corresponding problem can be addressed within a very narrow area, to help technician with a fast diagnosis and much easier trouble-shooting.

Digital Display On/Off

An easy to read LCD display indicates the operational status and functions, and even error codes of the unit. The display can be turned off, whenever you want, by pressing the "LIGHT" button on the lower right-hand corner of the remote control. This feature is literally a dream come true, because it allows the room to remain dark at night without the annoyance of the lights. If you wake up during the night, you can also turn the digital display on by pressing the same button and use the display as a night-light and avoid waking your sleeping partner by turning on the regular room lights System Safety Protections

System Safety Protections

- High Pressure
- Compressor High Temperature
- Outdoor Coil Temperature
- Outdoor Ambient Temperature
- Indoor Coil Temperature
- Built-in Over-Current Fuse at IDU
- Optional De-Ice Heater in ODU Pan
- More to Come

Environmentally Friendly Inside & Out

Standard Washable Filter and Advanced Filters

All systems come with standard washable filter. YMGi also offers optional advanced filters to remove biological contaminants like viruses, bacteria, molds and allergy causing agents that threaten your health. These include a cold-catalyst filter, active enzyme filter, electric static filter and more to come.

Refrigerant R410A

All SOLO and CHOIR systems use R-410A refrigerant, which is Hydrofluorocarbon (HFC) with ODP (Ozone Depletion Potential) and eco-friendly.

RoHS Approved Materials

RoHS restricts the use of certain dangerous substances commonly used in electronic and electronic equipment.

Nitrogen-Protected Brazing

This assures reduced oxidation of joined metal parts and a longer overall life.

Volatile Liquid Coil Cleaning

All the component surfaces and joints and corners are cleaned with volatile cleaning agents, to ensure a safe clean equipment and environment.

Leakage Checked Refrigerant System

All the refrigerant pipes, joints and refrigerant-related components are checked for leakage in the assembly line, to ensure each and every product is safe and environment friendly.

Air Flow - Silent Comfort

Quiet Operation

Computer-aid designed, optimized wind tunnel, a mesh-net combed intake air pattern, cross-flow fan wheel, sound absorbing insulation, vibration absorbing rubber grommets, lubricated motor bearings, and molded fan motor all contribute to the silent operation of the YMGi systems.

Wide-Angle Air Spread and Long Air-throw

Multi-dimensional airflow of short to long air-throw and multiple indoor fan motor speeds, help air to reach every corner of the room.

Independent Dehumidification

Prioritizes the reduction of humidity levels vs. temperature in the room. Traps the humidity in the indoor air and exacts the moisture out providing drier, more comfortable environment.

Random Pitch Cross-Flow Fan Wheel

Limits and offsets high-pitch sound and low frequency sound which are normally generated during fan wheel rotating operation, to provide whisper quiet operation.

Quality & More

Stylish Looks

YMGi units come with a clean, modern styling to complement any décor.

Thoroughly Tested Before Packaging

All YMGi systems are tested one by one and are packaged only after all safety, operational functions, features and cosmetic details have been checked. All products must meet, or exceed, our strict tested standards of quality control.

Reliable Quality

It's simple. All YMGi products are designed using the latest technology and with the end user always in mind. YMGi uses only high quality parts, including a rust-free cabinet built to last a lifetime. Best of all, every YMGi system is backed by our 100% customer satisfaction guarantee.

Easy Installation

Units install quickly and easily, with no need for major construction or any ductwork. It takes technicians only one-third to one-half of the time to install mini split system, as it takes to install a conventional central system of same capacity.

THE RIGHT CHOICE

“The air is clean and the temperature is always just right. We love our YMGi system!”

— HOMEOWNER
SAN DIEGO, CALIFORNIA



YMGi Symphony **SOLO**

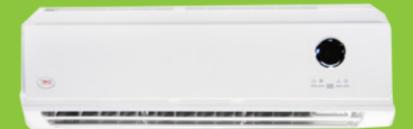
•••••

DC INVERTER SINGLE ZONE

The ultimate duct-free solution for smaller spaces you wish to heat or cool. The Symphony SOLO is ideal for zoning single room, such as home additions, sunrooms, nurseries, apartments, condos, offices and mobile homes to name a few. SOLO's wide-angle air distribution feature provides just the right amount of warm or cool air needed for maximum comfort.

“We couldn't be more pleased with the performance of our new YMGi system.”

— BUSINESS OWNER
AKRON, OHIO



YMGi Symphony **CHOIR**

•••••

DC INVERTER MULTI ZONE

—UP TO 5 ZONES!—

This duct-free solution provides the ultimate heating and cooling solution for up to five zones. The multi zone capabilities of the Symphony CHOIR system is perfect for homes, libraries, hotels, homes, resorts, galleries, restaurants, businesses and other multi room installations. CHOIR's DC inverter technology delivers both cool and warm air more efficiently than a standard central air unit, providing both better comfort and great savings.

PRODUCT SPECIFICATIONS

YMGI Symphony SOLO

DC INVERTER

Single-Zone Wall-Mounted Mini Split



YMGI DC INVERTER SOLO Single Zone-Wall Mounted Indoor Unit

The SOLO single zone mini split wall mounted unit, as the most popular evaporator style, offers a heating and cooling solution that runs quietly and fits tastefully into any single room application. The installation of each indoor unit uses an integrated mounting plate and only requires a 3" opening through the wall to run a conduit, which houses all necessary condensate drain hose, refrigerant pipes and electrical wiring. Units mount high on the wall, out of sight. A motorized louver system helps quietly distribute an even airflow throughout the space providing quiet, precise temperature control and energy efficiency, for a comfortable living and work environment.

YMGI DC INVERTER SOLO Single Zone-Outdoor Unit

The SOLO outdoor condensing unit takes electrical power from the disconnect switch for most residential and commercial heating and cooling applications (115/1/60 for 09 or 12K single zone, 208-230/1/60 for other models). It provides electric power to both the outdoor unit and indoor unit. Refrigerant is pumped as a thermal medium to dispense heat into ambient air, in the summer; while absorbing heat from ambient air in the winter. The sleek design allows mounting in a variety of discreet locations, including on the ground, on the wall, under decks or even on balconies.



| System Model | WMMS-09K-V2A/B(58) | | WMMS-12K-V2A/B(58) | | WMMS-18K-V2B(58) | | WMMS-24K-V2B(58) | | WMMS-30K-V2B(58) | | WMMS-36K-V2B(58) | |
|---|---|---------|-----------------------------------|---------|-----------------------------------|---------|-----------------------------------|---------|-----------------------------------|---------|-----------------------------------|---------|
| | COOLING | HEATING | COOLING | HEATING | COOLING | HEATING | COOLING | HEATING | COOLING | HEATING | COOLING | HEATING |
| Power Source | A:115/1/60 B:208-230/1/60 | | A:115/1/60 B:208-230/1/60 | | 208-230/1/60 | | 208-230/1/60 | | 208-230/1/60 | | 208-230/1/60 | |
| Nominal heating capacity (ID 70/60 OD 47/43F) | 9500 | | 13000 | | 25000 | | 26000 | | 26500 | | 34600 | |
| Standard Set-up Tested in Lab-Heating capacity (ID 70/60 OD 47/43F) | 8600 | | 11000 | | 16400 | | 17800 | | 24800 | | 31600 | |
| Standard Set-up Tested in Lab-Heating capacity (ID 70/60 OD 47/43F) | 7800 | | 8900 | | 14500 | | 15400 | | 21200 | | 26800 | |
| Frequency(Hz) (High/Standard/Low) | 70/41/15 | | 63/44/15 | | 80/57/15 | | 75/65/15 | | 100/60/15 | | 100/60/15 | |
| Power Input (W) (High/Standard/Low) | 1050/690/180 | | 1100/700/220 | | 1450/1000/120 | | 1500/1200/220 | | 2500/1500/335 | | 2650/1700/400 | |
| Rated Current (A) (High/Standard) | A:13.5/7.9 B:6.5/3.2 | | A:14.5/7.5 B:6.8/3.5 | | A:14.5/11 B:7.0/3.2 | | A:15.5/12.5 B:7.5/3.0 | | 12.0/7.5 | | 12.5/6/7.7 | |
| SEER / HSPF (Bluh.w) | 22 | | 9.8 | | 20 | | 9.6 | | 18.0 | | 10.2 | |
| EER (Bluh.w) | 14.0 | | 12.5 | | 12.5 | | 12.5 | | 12.5 | | 12.5 | |
| Dehumidifying Volume (Pints/Hr.) | 1.7 | | 2.5 | | 4.2 | | 5.5 | | 10 | | 16 | |
| Model of Indoor Unit | WMMS-09E-V2A/B(58) | | WMMS-12E-V2A/B(58) | | WMMS-18E-V2B(58) | | WMMS-24E-V2B(58) | | WMMS-30E-V2B(58) | | WMMS-36E-V2B(58) | |
| Fan Motor Speed (RPM) (SH/HML) | 1300/1060/900/740 | | 1320/1200/1100/960 | | 1300/1080/900/740 | | 1300/1160/1040/920 | | 1350/1200/1050/900 | | 1420/1200/1150/1050 | |
| Air Flow Volume (CFM) (SH/HML) | 300/277/253/218 | | 330/295/253/218 | | 500/460/383/324 | | 560/471/412/353 | | 740/670/640/580 | | 740/670/640/580 | |
| Output of Fan Motor (w) | 20 | | 20 | | 20 | | 35 | | 40 | | 40 | |
| Input of Heater (w) | / | | / | | / | | / | | / | | / | |
| Fan Motor Capacitor (uF) | 4.0 / 1.0 | | 4.0 / 1.0 | | 1.5 | | 2.5 | | 3.5 | | 3.5 | |
| Fan Motor RLA(A) | 0.38 / 0.20 | | 0.38 / 0.20 | | 0.25 | | 0.45 | | 0.4 | | 0.4 | |
| Fan Type-Piece | Cross flow fan-1 | | Cross flow fan-1 | | Cross flow fan-1 | | Cross flow fan-1 | | Cross flow fan-1 | | Cross flow fan-1 | |
| Fan Wheel Diameter-Length (In) | φ 3.6 X 25.4 | | φ 3.6 X 25.4 | | φ 3.9 X 28.0 | | φ 3.9 X 28.0 | | φ 4.25 X 41.0 | | φ 4.25 X 41.0 | |
| Evaporator Coil Type | Aluminum fin-copper tube | | Aluminum fin-copper tube | | Aluminum fin-copper tube | | Aluminum fin-copper tube | | Aluminum fin-copper tube | | Aluminum fin-copper tube | |
| Coil-Copper Pipe Diameter (In) | φ 0.28 | | φ 0.28 | | φ 0.28 | | φ 0.28 | | φ 0.28 | | φ 0.28 | |
| Row-FPI | 2-18.2 | | 2-18.2 | | 2-18.2 | | 2-16.9 | | 2-19 | | 2-19 | |
| Coil length (L) x Height (H) x depth (D) (In) | 25.4X1X10.5 | | 25.4X1X10.5 | | 28.1X1X12X1 | | 30.1X1X13.5X1 | | 42.25X15X1 | | 42.25X15X1 | |
| Swing Motor Model | MP24AA | | MP24AA | | MP28VB | | MP35XX | | MP24BA | | MP24BA | |
| Output of Swing Motor (W) | 2.4 | | 2.4 | | 2.5 | | 2.5 | | 2.5 | | 2 | |
| Fuse (A) | PCB 3.15A | | PCB 3.15A | | PCB 3.15A Transformer 0.2A | |
| Sound Pressure Level dB (A) (SH/HML) | 38/34/30/26 | | 40/36/32/26 | | 46/44/40/35 | | 48/44/40/35 | | 52/50/48/40 | | 52/50/48/40 | |
| Sound Power Level dB (A) (SH/HML) | 48/44/40/36 | | 50/46/42/36 | | 56/54/50/45 | | 58/54/50/45 | | 62/60/58/50 | | 62/60/58/50 | |
| Model of Outdoor Unit | WMMS-09C-V2A/B(58) | | WMMS-12C-V2A/B(58) | | WMMS-18C-V2B(58) | | WMMS-24C-V2B(58) | | WMMS-30C-V2B(58) | | WMMS-36C-V2B(58) | |
| Compressor Manufacturer | SANYO / MITSUBISHI | | SANYO / MITSUBISHI | | SANYO / MITSUBISHI | | SANYO / MITSUBISHI | | MITSUBISHI | | MITSUBISHI | |
| Compressor Model | C-6R2110H1A | | C-6R2110H1A | | C-6R2146H1A | | C-6R2146H1A | | TNB220FLHMC | | TNB306PGM | |
| Compressor Type | Twin Rotary DC | | Twin Rotary DC | | Twin Rotary DC | | Twin Rotary DC | | Rotary DC | | Rotary DC | |
| L.R.A (A) | 33 | | 33 | | 41 | | 41 | | 45 | | 67 | |
| Compressor RLA(A) | 4.59 | | 4.59 | | 8.4 | | 8.4 | | 9.7 | | 13.5 | |
| Compressor Power Input(W) | 800 | | 800 | | 1640 | | 1640 | | 2200 | | 3010 | |
| Overload Protector | 1NT11L-3979 | | 1NT11L-3979 | | 1NT11L-3979 | | 1NT11L-3979 | | CS01F272H01 | | CS01F272H01 | |
| Throttling Method | Electronic Expansion Valve | | Electronic Expansion Valve | | Electric Expansion Valve | | Electric Expansion Valve | | Capillary | | Capillary | |
| Fuse Circuit Breaker of HVAC Type | A:30 B:20 | | A:30 B:20 | | 20 | | 30 | | 30 | | 40 | |
| Starting Method | Transducer starting | | Transducer starting | | Transducer starting | | Transducer starting | | Transducer starting | | Transducer starting | |
| Recommended Working Ambient Temp Range (F) | 15°F ≤ T ≤ 115°F 5°F ≤ T ≤ 86°F | | 15°F ≤ T ≤ 115°F 5°F ≤ T ≤ 86°F | | 15°F ≤ T ≤ 115°F 5°F ≤ T ≤ 86°F | | 15°F ≤ T ≤ 115°F 5°F ≤ T ≤ 86°F | | 15°F ≤ T ≤ 115°F 5°F ≤ T ≤ 86°F | | 15°F ≤ T ≤ 115°F 5°F ≤ T ≤ 86°F | |
| Condenser Coil Type | Aluminum fin-copper tube | | Aluminum fin-copper tube | | Aluminum fin-copper tube | | Aluminum fin-copper tube | | Aluminum fin-copper tube | | Aluminum fin-copper tube | |
| Coil-Copper Pipe Diameter (In) | φ 0.28 | | φ 0.35 | | φ 0.28 | | φ 0.28 | | φ 13/16 | | φ 3/8 | |
| Rows-FPI | 2-18.2 | | 2-18.2 | | 2-18.2 | | 2-18.2 | | 2-1.4 | | 2-1.4 | |
| Coil Length (L) x Height (H) x Depth (D) (In) | 23.9X20.0X1.7 | | 29.4X20.0X1.7 | | 33.0X20.0X1.5 | | 38.1X29.4X1.5 | | 37.5X29.5X1.5 | | 37.0X30.0X1.7 | |
| Fan Motor Speed (rpm) (HL) | 900/650 | | 900 ± 20 | | 690/500 | | 780/500 | | 830 | | 830 | |
| Output of Fan Motor (W) | 40 | | 40 | | 60 | | 90 | | 90 | | 120 | |
| Fan Motor RLA (A) | 0.17 | | 0.17 | | 0.62 | | 0.90 | | 0.45 | | 0.45 | |
| Fan Motor Capacitor (uF) | (DC) | | (DC) | | 3 | | 4 | | 5 | | 5 | |
| Air Flow Volume of Outdoor Unit CFM | 1120 | | 1120 | | 1890 | | 2480 | | 2860 | | 2860 | |
| Fan Type-Piece | Axial-1 | | Axial-1 | | Axial-1 | | Axial-1 | | Axial-flow | | Axial-flow | |
| Fan Diameter (In) | 15.7 | | 15.7 | | 20.5 | | 21.7 | | 21.75 | | 21.75 | |
| Defrosting Type | Auto defrost | | Auto defrost | | Auto defrost | | Auto defrost | | Automatic Defrosting | | Automatic Defrosting | |
| Designed for Climate Type | T1 | | T1 | | T1 | | T1 | | T1 | | T1 | |
| Isolation | I | | I | | I | | I | | I | | I | |
| Moisture Protection | IP24 | | IP24 | | IP24 | | IP24 | | IP24 | | IP24 | |
| MAX. Operating Pressure for the Discharge Side (PSIG) | 551 | | 551 | | 551 | | 551 | | 560 | | 560 | |
| MAX. Operating Pressure for the Suction Side (PSIG) | 174 | | 174 | | 174 | | 174 | | 170 | | 170 | |
| Sound Pressure Level dB (A) (HML) | ≤ 53 | | ≤ 55 | | 54 | | 56 | | 58/56 | | 59/57 | |
| Sound Power Level dB (A) (HML) | ≤ 63 | | ≤ 65 | | 64 | | 66 | | 68/66 | | 69/67 | |
| Outer Diameter | Liquid Pipe (In) | | φ 1/4 | |
| | Gas Pipe (In) | | φ 3/8 | | φ 3/8 | | φ 1/2 | | φ 5/8 | | φ 5/8 | |
| Max Distance | ID Above/Blow OD (FL) | | 35/45 | | 35/45 | | 50/60 | | 50/60 | | 50/60 | |
| | Length (FL) | | 70 | | 75 | | 100 | | 125 | | 125 | |
| | Additional Refrigerant charge(OZ/Ft) | | 0.28 | | 0.32 | | 0.32 | | 0.38 | | 0.54 | |
| Dim. & Weight-Indoor Unit | Dimensions-Net W x H x D (Inches) | | 33.3 x 10.8 x 7.1 | | 33.3 x 10.8 x 7.1 | | 37.0 X 11.7 X 7.9 | | 39.7 X 12.4 X 8.6 | | 53.1 X 12.8 X 10.0 | |
| | Dimensions of Carton Box W x H x D (Inches) | | 36.0 x 14.0 x 10.0 | | 36.0 x 14.0 x 10.0 | | 39.8 X 15.0 X 11.2 | | 42.2 X 15.6 X 12.3 | | 56.6 X 16.5 X 13.5 | |
| | Gross / Net Weight (LBS) | | 31/24 | | 31/24 | | 37.5/28.7 | | 46.3/35.3 | | 60/44 | |
| Dim. & Weight-Outdoor Unit | Dimensions-Net W x H x D (Inches) | | 33.4 x 21.3 x 12.6 | | 33.4 x 21.3 x 12.6 | | 35.0 X 27.6 X 13.4 | | 36.2 X 31.1 X 14.6 | | 38.5 X 31.3 X 16.8 | |
| | Dimensions of Carton Box W x H x D (Inches) | | 34.6 x 22.8 x 14.2 | | 34.6 x 22.8 x 14.2 | | 40.6 X 28.9 X 18.1 | | 41.9 X 33.1 X 19.0 | | 42.5 X 33.3 X 19.3 | |
| | Gross / Net Weight (LBS) | | 90/79 | | 97/88 | | 121/110 | | 132/119 | | 163/155 | |
| Container Loading | Assumed-One Model/Container/Sets (20/40/40HQ) | | 109/232/252 | | 109/232/252 | | 60/125/145 | | 47/96/114 | | 36/75/92 | |
| Certification | Safety Approval (Third Party) | | ETL (C & US) | |
| | Performance Approval (Third Party) | | AHRI / Energy Star | | AHRI | |

PRODUCT SPECIFICATIONS



YMGi Symphony **CHOIR**

.....
DC INVERTER
Dual, Triple, Quad & Five Zone
Mini Split Systems

CHOIR DC INVERTER Multiple Zone-Wall Mounted Indoor Unit

The CHOIR multiple-zone wall mounted indoor unit, as the most popular evaporator style, offers a heating and cooling solution that runs quietly and fits tastefully into any multiple-room applications. The installation of each indoor unit uses an integrated mounting plate and only requires a 3" opening through the wall to run a conduit, which houses all necessary condensate drain hose, refrigerant pipes and electrical wiring. Units mounted high on the wall, out of sight. A motorized louver system helps quietly distribute an even airflow throughout the space providing a quiet, precise temperature control and energy efficiency, for a comfortable living and work environment.



CHOIR DC INVERTER Ceiling/Floor Mounted Indoor Unit

The CHOIR multiple zone ceiling/floor mounted indoor unit is ideal for rooms that don't have false ceilings. The unit installs directly against the ceiling, providing maximum efficiency while delivering consistent heating and cooling comfort in rooms with ceiling heights up to 12.5 ft without loss of capacity.



CHOIR DC INVERTER Ceiling Mount Cassette Unit

The CHOIR multiple zone ceiling mounted indoor unit is the perfect solution for rooms with a false ceiling. The CHOIR Ceiling Mount Cassette Unit provides a discreet custom look, fitting flush into the false ceiling. This allows maximum headroom and more wall space for furniture, decoration and fittings. This quiet and energy efficient unit is rated for ceiling heights up to 13.8 ft without loss of capacity.

INDOOR UNIT- WALL MOUNT



INDOOR UNIT- CEILING/FLOOR MOUNT



INDOOR UNIT - CEILING MOUNT CASSETTE



| Item | Indoor Unit-Ceiling/Floor Mount Type-Performance Data | | | |
|--|---|---|---|---|
| | WMMS-09EU-V2B(59) | WMMS-12EU-V2B(59) | WMMS-18EU-V2B(59) | WMMS-24EU-V2B(59) |
| Power Supply | 208-230/1/60 | | | |
| Total Capacity (Btu/h) (High/ Standard/Low) | AC:10720/9150/4635 HP:11220/9650/3400 | AC:14120/12150/4700 HP:14620/13150/3450 | AC:22470/18150/6200 HP:25120/19150/4300 | AC:30720/24150/6700 HP:34620/28150/4300 |
| Nominal heating capacity (ID 70/60 OD 47/43F) | 9650 | 13150 | 21500 | 25150 |
| Standard Set-up Tested in Lab-Heating capacity (ID 70/60 OD17/15F) | 8800 | 11200 | 16600 | 16600 |
| Standard Set-up Tested in Lab-Heating capacity (ID 70/60 OD 5F) | 8020 | 9120 | 14720 | 14720 |
| SEER | 16.0 | 16.0 | 16.0 | 16.0 |
| HSPF | 8.2 | 8.2 | 8.2 | 8.2 |
| Dehumidifying Volume (Pints/Hr.) | 1.7 | 2.5 | 4.2 | 4.2 |
| Fan Motor Speed (RPM) (SH/H/M/L) | 790/670/550 | 790/670/550 | 1070/970/870 | 1070/970/870 |
| Air Flow Volume (CFM) (SH/H/M/L) | 360/330/310/290 | 410/360/340/290 | 580/530/453/404 | 580/530/453/404 |
| Output of Fan Motor (W) | 10 | 10 | 40 | 40 |
| Input Power of Heater (W) | / | / | / | / |
| Fan Motor Capacitor (uF) | 1 | 1.5 | 3 | 3 |
| Fan Motor RLA (A) | / | / | / | / |
| Fan Type-Piece | Centrifugal fan-2 | | | |
| Fan Wheel Diameter-Length (Inches) | φ4.9X5.3 φ3.6 X 24.3 | | | |
| Evaporator Heat Exchanger Type | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube |
| Coil-Copper Pipe OD Diameter (Inches) | φ9/32 | φ9/32 | φ9/32 | φ9/32 |
| Row-Fin Gap (FPI) | 2-15.9 | 3-15.9 | 3-15.9 | 3-15.9 |
| Coil Width (W) x Height (H) x Depth (D) (Inches) | 23.1X9.7X1.0 | 23.1X9.7X1.5 | 23.1X9.7X1.5 | 23.1X9.7X1.5 |
| Connection Copper Size Liquid/Gas (Inches) | 1/4+3/8 | 1/4+3/8 | 1/4+1/2 | 1/4+1/2 |
| Swing Motor Model | MP35CB/P35CA | MP35CB/P35CA | MP35CB/P35CA | MP35CB/P35CA |
| Output of Swing Motor (W) | 2/2 | 2/2 | 2/2 | 2/2 |
| Fuse (A) | T3.15AL 250V | | | |
| Sound Pressure Level dB (A) (H/M/L) | 45/40/32 | 46/43/36 | 54/50/47 | 54/50/47 |
| Sound Power Level dB (A) (H/M/L)*** | 55/50/42 | 56/53/46 | 64/60/57 | 64/60/57 |
| Dimension (W/H/D) (Inches) | 32.9 X 27.4X 9.37 | | | |
| Dimension of Package (W x L x H) (Inches) | 36.8 X 31.7 X 11.6 | | | |
| Net Weight / Gross Weight (Lbs) | 59.5 / 78.2 | | | |
| 20' Container | 112 | 112 | 112 | 112 |
| 40' Container | 232 | 232 | 232 | 232 |
| 40'HQ Container | 274 | 274 | 274 | 274 |

| Item | Indoor Unit-Wall Mount Type Performance Data | | | |
|--|--|---|---|---|
| | WMMS-09EW-V2B(59) | WMMS-12EW-V2B(59) | WMMS-18EW-V2B(59) | WMMS-24EW-V2B(59) |
| Power Supply | 208-230/1/60 | | | |
| Total Capacity (Btu/h) (High/ Standard/Low) | AC:10480/8850/4235 HP:10980/9350/3000 | AC:13880/11850/4300 HP:14380/12850/3050 | AC:22230/17850/5800 HP:24880/18850/3900 | AC:30680/24850/6000 HP:34380/28850/3900 |
| Nominal heating capacity (ID 70/60 OD 47/43F) | 9350 | 12850 | 24850 | 24850 |
| Standard Set-up Tested in Lab-Heating capacity (ID 70/60 OD17/15F) | 8400 | 10900 | 16200 | 16200 |
| Standard Set-up Tested in Lab-Heating capacity (ID 70/60 OD 5F) | 7580 | 8980 | 14280 | 14280 |
| SEER | 16.0 | 16.0 | 16.0 | 16.0 |
| HSPF | 8.2 | 8.2 | 8.2 | 8.2 |
| Dehumidifying Volume (Pints/Hr.) | 1.7 | 2.5 | 4.2 | 4.2 |
| Fan Motor Speed (RPM) (SH/H/M/L) | 1150/1050/900/750 | 1250/1050/950/800 | 1350/1200/1050/900 | 1350/1200/1050/900 |
| Air Flow Volume (CFM) (SH/H/M/L) | 280/250/240/220 | 330/290/260/220 | 500/460/383/324 | 500/460/383/324 |
| Output of Fan Motor (W) | 14 | 20 | 20 | 20 |
| Input Power of Heater (W) | / | / | / | / |
| Fan Motor Capacitor (uF) | 1 | 1 | 1 | 1 |
| Fan Motor RLA (A) | 0.17 | 0.21 | 0.28 | 0.28 |
| Fan Type-Piece | Cross flow fan 1 | Cross flow fan 1 | Cross flow fan 1 | Cross flow fan 1 |
| Fan Wheel Diameter x Length (Inches) | 3.82 x 23.0 | 3.8 X 24.3 | 3.8 X 31.4 | 3.8 X 31.4 |
| Evaporator Heat Exchanger Type | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube | Aluminum fin-copper tube |
| Coil-Copper Pipe OD Diameter (Inches) | φ9/32 | φ9/32 | φ9/32 | φ9/32 |
| Row-Fin Gap (FPI) | 2-15.9 | 2.5-18.1 | 2-15.9 | 2-15.9 |
| Coil Width (W) x Height (H) x Depth (D) (Inches) | 22.8 X 9 X 1.0 | 26.8 X 12.8 X 1.5 | 31.0 X 15 X 1.0 | 31.0 X 15 X 1.0 |
| Connection Copper Size Liquid/Gas (Inches) | 1/4+3/8 | 1/4+3/8 | 1/4+1/2 | 1/4+1/2 |
| Swing Motor Model | MP28VC | MP28VC | MP35XX | MP35XX |
| Output of Swing Motor (W) | 2 | 2 | 2.5 | 2.5 |
| Fuse (A) | PCB 3.15A Transformer 0.2A | PCB 3.15A Transformer 0.2A | PCB 3.15A Transformer 0.2A | PCB 3.15A Transformer 0.2A |
| Sound Pressure Level dB (A) (H/M/L) | 38 / 34 / 31 / 28 | 40 / 34 / 32 / 30 | 46 / 43 / 40 / 36 | 46 / 43 / 40 / 36 |
| Sound Power Level dB (A) (H/M/L)*** | 48 / 44 / 41 / 38 | 50 / 44 / 42 / 40 | 56 / 53 / 50 / 46 | 56 / 53 / 50 / 46 |
| Dimensions of Indoor Unit (W x H x D) (Inches) | 30.3 X 9.8 X 7.5 | 32.7 X 11.2 X 7.9 | 40.2 X 12.2 X 9.0 | 40.2 X 12.2 X 9.0 |
| Dimensions of Indoor Unit Package (W x H x D) (Inches) | 33.7 X 13.0 X 10.7 | 35.7 X 15.2 X 10.4 | 42.4 X 12.8 X 15.4 | 42.4 X 12.8 X 15.4 |
| Net / Gross Weight (Lbs) | 18.7 / 27.5 | 24.3 / 30.8 | 28.6 / 37.4 | 28.6 / 37.4 |
| 20' Container | 378 | 240 | 207 | 207 |
| 40' Container | 792 | 480 | 431 | 431 |
| 40' HQ Container | 890 | 540 | 488 | 488 |

| Item | Indoor Unit Type-Ceiling Mount Cassette Performance Data | | | |
|--|--|---|---|---|
| | WMMS-12EC-V2B(59) | WMMS-18EC-V2B(59) | WMMS-24EC-V2B(59) | WMMS-30EC-V2B(59) |
| Power Supply | 208-230/1/60 | | | |
| Total Capacity (Btu/h) (High/ Standard/Low) | AC:14120/12150/4700 HP:14620/13150/3450 | AC:22470/18150/6200 HP:25120/19150/4300 | AC:30720/24150/6700 HP:34620/28150/4300 | AC:39020/31150/7000 HP:43520/35150/4300 |
| Nominal heating capacity (ID 70/60 OD 47/43F) | 13150 | 21500 | 25150 | 25150 |
| Standard Set-up Tested in Lab-Heating capacity (ID 70/60 OD17/15F) | 11200 | 16600 | 16600 | 16600 |
| Standard Set-up Tested in Lab-Heating capacity (ID 70/60 OD 5F) | 9120 | 14720 | 14720 | 14720 |
| SEER | 16.0 | 16.0 | 16.0 | 16.0 |
| HSPF | 8.2 | 8.2 | 8.2 | 8.2 |
| Dehumidifying Volume (Pints/Hr.) | 2.5 | 4.2 | 4.2 | 4.2 |
| Fan Motor Speed (RPM) (SH/H/M/L) | 820/720/620 | 820/720/620 | 820/720/620 | 820/720/620 |
| Air Flow Volume (CFM) (SH/H/M/L) | 410/360/340/290 | 410/360/340/290 | 580/540/463/394 | 580/540/463/394 |
| Output of Fan Motor (W) | 11 | 11 | 11 | 11 |
| Input Power of Heater (W) | / | / | / | / |
| Fan Motor Capacitor (uF) | 1.5 | 2.5 | 2.5 | 2.5 |
| Fan Motor RLA (A) | 0.2 | 0.2 | 0.2 | 0.2 |
| Fan Type-Piece | Centrifugal fan-1 | | | |
| Fan Wheel Diameter-Depth (Inches) | φ11.1 X 5.8 | | | |
| Evaporator Heat Exchanger Type | Aluminum fin-copper tube | | | |
| Coil-Copper Pipe OD Diameter (Inches) | φ3/8" | | | |
| Row-Fin Gap (FPI) | 2-16.9 | 2-16.9 | 2-16.9 | 2-16.9 |
| Coil Width (W) x Height (H) x Depth (D) (Inches) | 37.5 X 8.0 X 1.5 | 37.5 X 8.0 X 1.5 | 37.5 X 8.0 X 1.5 | 37.5 X 8.0 X 1.5 |
| Connection Copper Size Liquid/Gas (Inches) | 1/4+1/2 | 1/4+1/2 | 1/4+1/2 | 1/4+1/2 |
| Condensate Pump Water Lift (Inches) | 25 | 25 | 25 | 25 |
| Swing Motor Model | MP35EA | MP35EA | MP35EA | MP35EA |
| Output of Swing Motor (W) | 4 | 4 | 4 | 4 |
| Fuse (A) | T3.15AL 250V | | | |
| Sound Pressure Level dB (A) (H/M/L) | 44 / 40 / 36 | 47 / 44 / 39 | 47 / 44 / 39 | 47 / 44 / 39 |
| Sound Power Level dB (A) (H/M/L)*** | 54 / 50 / 46 | 57 / 54 / 49 | 57 / 54 / 49 | 57 / 54 / 49 |
| Dimension (W x L x H) (Inches) | Main unit: 23.6 x 23.6 x 9.1 | Panel: 25.6 x 25.6 x 1.97 | Panel: 25.6 x 25.6 x 1.97 | Panel: 25.6 x 25.6 x 1.97 |
| Dimension of Package (W x L x H) (Inches) | Main unit: 33.4 x 26.7 x 12.2 | Panel: 28.7 x 26.4 x 4.0 | Panel: 28.7 x 26.4 x 4.0 | Panel: 28.7 x 26.4 x 4.0 |
| Net Weight /Gross Weight (Lbs) | 44.1 / 59.5 | | | |
| 20' Container | 114 | 114 | 114 | 114 |
| 40' Container | 234 | 234 | 234 | 234 |
| 40' HQ Container | 280 | 280 | 280 | 280 |

OUTDOOR UNIT

1. SUMMARY

4 Models: Normal Rating 21K (1to2), 24K (1to2), 42K(1to3), 45K(1to4)

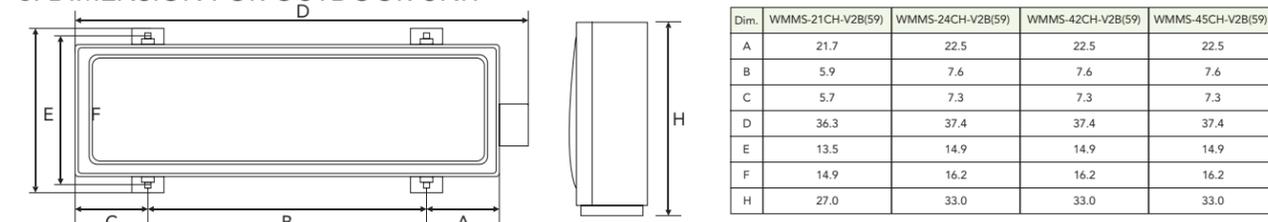
2. SPECIFICATION OF OUTDOOR UNIT

| Outdoor Unit Models | | WMMS-21CH-V2B(59) (1 to 2) | WMMS-24CH-V2B(59) (1 to 2) | WMMS-42CH-V2B(59) (1 to 3) | WMMS-45CH-V2B(59) (1 to 4) |
|---|-------------------------|--|--|--|--|
| Power Supply | | | | | |
| Cooling Capacity* (Btu/h) | Max. | 21,000 | 28,000 | 34,000 | 34,000 |
| | Rated | 18,000 | 24,000 | 28,000 | 28,000 |
| | Min. | 7,200 | 10,000 | 10,000 | 10,000 |
| Total Power Input in Cooling Mode* (W) | Max. | 2300 | 3300 | 4700 | 4700 |
| | Rated | 1550 | 2250 | 2600 | 2600 |
| | Min. | 620 | 1100 | 900 | 900 |
| SEER* | | | | | |
| Heating Capacity* (Btu/h) | Max. | 16.00 | 16.00 | 16.00 | 16.00 |
| | Rated | 22,000 | 33,000 | 37,000 | 37,000 |
| | Min. | 19,000 | 29,500 | 31,000 | 31,000 |
| Total Power Input in Heating Mode* | Max. | 6,500 | 9,000 | 9,000 | 9,000 |
| | Rated | 2400 | 3500 | 3000 | 3000 |
| | Min. | 1750 | 2600 | 2500 | 2500 |
| Sound Pressure Level Indoor Unit | | | | | |
| Outdoor Net Weight / Gross Weight (Lbs) | | 52/57 | 68/73 | 75/80 | 75/80 |
| Liquid Valve Size | | 2 x 1/4" | 2 x 1/4" | 3 x 1/4" | 4 x 1/4" |
| Gas Valve Size | | 2 x 3/8" | 2 x 1/2" | 3 x 3/8" | 4 x 3/8" |
| Compressor Manufacturer/trademark | | | | | |
| Compressor Model | | SANYO / or Other Equivalent C-6RVN93HOV / or Other Equivalent | SANYO / or Other Equivalent C-7RZ233H1A / or Other Equivalent | SANYO / or Other Equivalent C-7RZ233H1A / or Other Equivalent | SANYO / or Other Equivalent C-7RZ233H1A / or Other Equivalent |
| Compressor Type | | Rotary | Rotary | Rotary | Rotary |
| L.R.A. (A) | | 41 | 34 | 34 | 34 |
| Compressor RLA(A) | | 8.96 | 8.2 | 8.2 | 8.2 |
| Compressor Power Input (W) | | 1470 | 1760 | 1760 | 1760 |
| Fuse or Circuit Breaker (HVAC Type) | | 25 | 25 | 40 | 40 |
| Overload Protector | | 1NT11L-3979 | 1NT11L-3979 | 1NT11L-3979 | 1NT11L-3979 |
| Throttling Method | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Starting Method | | Transducer starting | Transducer starting | Transducer starting | Transducer starting |
| Recommended Working Ambient Temp Ranges (F) | | AC: 20 to 115 HP: 5 to 75 | AC: 20 to 115 HP: 5 to 75 | AC: 20 to 115 HP: 5 to 75 | AC: 20 to 115 HP: 5 to 75 |
| Condenser | | | | | |
| Coil-Copper OD Diameter (Inches) | | 3/8 | 3/8 | 3/8 | 3/8 |
| Rows-Fin Gap (FPI) | | 2-18.1 | 2-18.1 | 2-18.1 | 2-18.1 |
| Coil Width (W) x Height (H) x Depth (D) | | 31.7 x 26.0 x 0.87 | 26.7 X 32.0 X 1.73 | 31.7 X 32.0 X 1.73 | 31.7 X 32.0 X 1.73 |
| Fan Motor Speed (RPM) (H/M/L) | | 780/-/600 | 780/-/600 | 840/740/640 | 840/740/640 |
| Output of Fan Motor (W) | | 60 | 68 | 68 | 68 |
| Fan Motor RLA (A) | | 0.65 | 0.65 | 0.68 | 0.68 |
| Fan Motor Capacitor (uF) | | 3 | 3 | 3 | 3 |
| Air Flow Rate of Outdoor Unit | | / | / | / | / |
| Fan Type-Piece | | Axial fan 1 | Axial fan 1 | Axial fan 1 | Axial fan 1 |
| Fan Diameter (Inches) | | 18.1 | 18.1 | 18.1 | 18.1 |
| Defrosting Method | | Auto Defrost | Auto Defrost | Auto Defrost | Auto Defrost |
| Climate Type | | T1 | T1 | T1 | T1 |
| Isolation | | | | | |
| Moisture Protection | | IP24 | IP24 | IP24 | IP24 |
| Max. Operating Pressure at High Side (PSI) | | 550 | 550 | 550 | 550 |
| Max. Operating Pressure at Low Side (PSI) | | 175 | 175 | 175 | 175 |
| Sound Pressure Level dB (A) (H/L) | | 56/54 | 59/58 | 60/54 | 60/54 |
| Sound Power Level dB (A) (H/L) | | 66/64 | 69/68 | 69/68 | 69/68 |
| Dimensions of Outdoor Unit (W x H x D) (Inches) | | 33.3 x 27.0 x 11.8 | 37.4 X 33.1 X 11.7 | 37.4 X 33.1 X 16.5 | 37.4 X 33.1 X 16.5 |
| Dimensions of Package (W x H x D) (Inches) | | 39.1 x 29.5 x 16.9 | 43.3 X 35.6 X 16.5 | 43.3 X 35.6 X 16.5 | 43.3 X 35.6 X 16.5 |
| Net Weight /Gross Weight (Lbs) | | 115 / 126 | 150 / 161 | 165 / 176 | 165 / 176 |
| Refrigerant /Factory Pre-Charge for 25' (Lbs) | | R410A / 3.52 | R410A / 5.51 | R410A / 7.27 | R410A / 7.27 |
| Loading Quantity | 20' Container | 87 | 50 | 50 | 50 |
| | 40' High Cube Container | 183 | 106 | 106 | 106 |

Important Notes:

- Performance data tested per AHRI 210/240 standard indoor and outdoor ambient conditions. Unit performance varies when indoor and outdoor ambient conditions change from the standard one.
- Select equipment capacity sizes per space load calculation schedule and cooling & heating hours. Not to over size or under size equipment.
- Watch unit operation during extreme weather conditions in summer and winter. wind baffle helps system cooling & heating performance in low ambient temperature ranges.
- When the rated total capacity of all the indoor units exceeds the rated capacity of outdoor unit, each indoor unit may not output the rated capacity and one may differ from other, upon other installation/operation factors, it all units are turned on to run compressor simultaneously.

3. DIMENSION FOR OUTDOOR UNIT



WMMS-21CH-V2B(59) (1 to 2) WMMS-24CH-V2B(59) (1 to 2) WMMS-42CH-V2B(59) (1 to 3) WMMS-45CH-V2B(59) (1 to 4)

RECOMMENDED MATCHING-INDOOR UNITS AND OUTDOOR UNIT

| System Model WMMS-3AM21-V2B(59) Outdoor Unit WMMS-21CH-V2B(59) Indoor Unit Options: | | | | | | | | | |
|---|----------------|----|----------------|----|----------------|----|----|----|----|
| 1 Indoor Unit | 2 Indoor Units | | 2 Indoor Units | | 4 Indoor Units | | | | |
| 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E |
| 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E |
| System Model WMMS-3AM24-V2B(59) Outdoor Unit WMMS-24CH-V2B(59) Indoor Unit Options: | | | | | | | | | |
| 1 Indoor Unit | 2 Indoor Units | | 2 Indoor Units | | 4 Indoor Units | | | | |
| 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E |
| 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E |
| System Model WMMS-3AM42-V2B(59) Outdoor Unit WMMS-42CH-V2B(59) Indoor Unit Options: | | | | | | | | | |
| 1 Indoor Unit | 2 Indoor Units | | 2 Indoor Units | | 4 Indoor Units | | | | |
| 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E |
| 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E |
| System Model WMMS-3AM45-V2B(59) Outdoor Unit WMMS-45CH-V2B(59) Indoor Unit Options: | | | | | | | | | |
| 1 Indoor Unit | 2 Indoor Units | | 2 Indoor Units | | 4 Indoor Units | | | | |
| 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E |
| 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E | 1E |

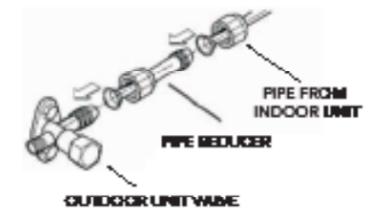
Important Notes:

- When the rated total capacity of all the indoor units exceeds the rated capacity of outdoor unit, each indoor unit may not output the rated capacity and one may differ from other, upon other installation/operation factors, it all units are turned on to run compressor simultaneously.
- WMMS-3AM42-V2B(59) and WMMS-3AM45-V2B(59) are not allowed to work with one indoor unit only.
- Adjust refrigerant charge, following instructions, if the actual installation elevation difference is different from 7' and length is different from the listed numbers above.

| Specification | Description | Unit | WMMS-21CH-V2B(59) | | | | WMMS-24CH-V2B(59) | | | | WMMS-42CH-V2B(59) | | | | WMMS-45CH-V2B(59) | | | |
|-------------------------------|--|------|-------------------|------|----|--------|-------------------|------|----|--------|-------------------|------|----|--------|-------------------|------|----|--------|
| | | | 1/2" | 3/4" | 1" | 1 1/4" | 1/2" | 3/4" | 1" | 1 1/4" | 1/2" | 3/4" | 1" | 1 1/4" | 1/2" | 3/4" | 1" | 1 1/4" |
| Min. pipe length | at least 10ft (3m) for all pipe runs, only if using galvanized pipe. | FL | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | |
| Min. installation height | Outdoor unit is installed above indoor unit. | FL | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | |
| Min. pipe length | if not using galvanized pipe, use copper pipe. | FL | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | |
| Refrigerant charge adjustment | Refrigerant charge adjustment based on the outdoor unit location. | FL | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | |

PIPE REDUCER

Whenever the outdoor unit gas valve of size 3/8" is to connect with indoor unit gas pipe of 1/2", one 1/2"-3/8" reducer is to be used in between. This reducer is packed separately and shall be installed at job site.



SAMPLE SYSTEM PERFORMANCE DATA

| WMMS-3AM21-V2B(59) Cooling Performance Nominal Data | | | | | | | | | |
|---|----------------|--------|--------|--------|--------|-------------------------|----------------------------|------|------|
| Indoor Unit Combination | Total Capacity | Room A | Room B | Room C | Room D | Capacity Rating (Btu/h) | Input Power Rating (Watts) | SEER | EER |
| 1E | 21,000 | 5,250 | 5,250 | 5,250 | 5,250 | 21,000 | 1,550 | 12.5 | 10.5 |
| 2E | 42,000 | 10,500 | 10,500 | 10,500 | 10,500 | 42,000 | 3,100 | 12.5 | 10.5 |
| 3E | 63,000 | 15,750 | 15,750 | 15,750 | 15,750 | 63,000 | 4,650 | 12.5 | 10.5 |
| 4E | 84,000 | 21,000 | 21,000 | 21,000 | 21,000 | 84,000 | 6,200 | 12.5 | 10.5 |

| WMMS-3AM24-V2B(59) Cooling Performance Nominal Data | | | | | | | | | |
|---|----------------|--------|--------|--------|--------|-------------------------|----------------------------|------|------|
| Indoor Unit Combination | Total Capacity | Room A | Room B | Room C | Room D | Capacity Rating (Btu/h) | Input Power Rating (Watts) | SEER | EER |
| 1E | 24,000 | 6,000 | 6,000 | 6,000 | 6,000 | 24,000 | 1,750 | 12.5 | 10.5 |
| 2E | 48,000 | 12,000 | 12,000 | 12,000 | 12,000 | 48,000 | 3,500 | 12.5 | 10.5 |
| 3E | 72,000 | 18,000 | 18,000 | 18,000 | 18,000 | 72,000 | 5,250 | 12.5 | 10.5 |
| 4E | 96,000 | 24,000 | 24,000 | 24,000 | 24,000 | 96,000 | 7,000 | 12.5 | 10.5 |

THE YMGi ADVANTAGE

Ease of Installation

Easier to install than central systems, the hook-up between the mini split outdoor and indoor units generally requires only a three-inch hole through a wall for the conduit which bands tight to house and contain the condensate drain hose, wires and refrigeration pipes. The outdoor unit can be located up to 150 feet from the indoor unit, making it possible to hide the condensing unit where it can't be seen.

Mini split outdoor condensing units are designed to be installed anywhere regular central air conditioners or heat pumps can be installed, i.e., on the ground, in the back yard, or even in the front of the building. But they can also be hung on the wall, placed on a balcony, below a deck, in the garage, wherever the regular central air conditioners are not good fit or even impossible.

YMGi-certified technicians across the country are professionally trained to properly install your mini split systems, ensuring your system to operate quietly and at the highest efficiency possible and providing you with a lifetime with worry-free comfort, economical diagnosis.



Technical Support

YMGi offers full technical support for all the heating and cooling systems. If you have any questions about the operation of your unit, you can find answers in your manual. This will help you understand how the unit works, what functions are built in, what the differences are, how to operate and maintain the unit correctly and help limit mistakes that might lead to spending money unnecessarily.

If you find for any reason your unit is not working properly, shut down the unit and call your installer or service technician. They have the tools and knowledge to determine what is going on. If your technician has any technical questions, he can have the unit model and serial numbers ready and call our technical support line 866-833-3138x703 from your job site. It is important for your technician to call when he is at your job site for the quickest, most accurate, and most economical diagnosis possible.

Customer Service

When you or your technician calls YMGi hot lines, you will always talk instantly to a real live person who you can count on. That's because, along with our commitment to quality, customer service is the most important part of our business. Our goal is to meet and exceed your expectations, going above and beyond to earn your trust and loyalty. We view and treat each of our customers as partners. So please don't hesitate to contact us.

YMGi Group/YMGi Group New Energy
P.O. Box 1559
O'Fallon, Missouri 63366, USA
Phone: 1-866-833-3138
Fax: 1-866-377-3355
Email Sales: sales@ymgigroup.com
Email Technical Support: techsp@ymgigroup.com
Email Service and Warranty:
customerservice@ymgigroup.com

Warranty Overview

It's simple. If you aren't satisfied, neither are we. All our products are backed by our 100% customer satisfaction guarantee. See specific product warranty policy for details. But, rest assured we will do anything and everything to find a solution whatever the issue is. For specific inquiries, please refer to the contact information in the customer service portion of this catalog. We promise to give you a response within the shortest timeframe possible to any problem or question you submit to us. If for any reason you are not receiving a prompt response, please call our 7/24-hour toll free number at 1-866-833-3138x704 or email to us at customerservice@ymgigroup.com. For fastest service please include a copy of each your purchase invoice #, contractor installation invoice, a full description of your problem and any pictures or other information that will help us understand and resolve your problem as quickly as possible.

Credentials and Certification

All YMGi systems are ETL listed in both the U.S. and Canada. They are also certified by the AHRI and ENERGY STAR® to far exceed the current world standards for energy efficiency.

Tax Credits

When purchasing your YMGi Symphony Series system don't forget to take advantage of any and all available federal tax credits. Many states and utility companies offer tax incentives, too. Be sure to check what is available in your area.



ENERGY STAR®

ENERGY STAR® is the trusted, government-backed symbol for energy efficiency established to help you save money and protect the environment by certifying energy-efficient products and practices. The ENERGY STAR label was established to reduce greenhouse gas emissions and other pollutants caused by the inefficient use of energy; and make it easier for consumers to identify and purchase energy-efficient products that offer savings on energy bills without sacrificing performance, features, and comfort.

Our DC INVERTER system along with many other YMGi products to come, are ENERGY STAR® qualified with up to a 22SEER rating or higher to come. The Energy Star label guarantees a product meets or exceeds the energy efficiency specifications and testing requirements of the ENERGY STAR® program. ENERGY STAR® rating assures you that it provides a more sustainable, environmentally friendly solution for your heating and cooling needs.

MAXIMUM COMFORT



As one of the leaders in the HVAC industry, YMGi is dedicated to designing, manufacturing and distributing the finest energy saving and environment friendly air conditioner and heat pump products, and to providing the finest service and support to all types of customers, to help build a sustainable, efficient and green world.

YMGi Symphony Series Catalogs:

- Symphony SOLO & CHOIR--Ductless Mini DC Inverter - Single Zone & Multiple Zone
- Symphony SOLAR--Ductless Mini DC Inverter – Solar PV & PH Types
- Symphony CLASSIC--Ductless Mini 13SEER – Single & Multiple Zones
- Symphony HARMONY--Ductless Packaged System -- PTAC/PTHP & WMMP
- Symphony CONDUCTOR--Condensing Unit--Split Horizontal Vent SHCR & Through-the-Wall TTWC



YMGi GROUP
POB 1559, O'Fallon, MO 63366

YMGi Group New Energy
POB 1668, O'Fallon, MO 63366

Tel: 866-833-3138 • Fax: 866-377-3355 • Email info@ymgigroup.com
Web Site: www.ymgigroup.com