



**HARMONY STANDARD
PTAC/PTHP**

**HARMONY MINI
TTWA**

**HARMONY VRF
PTHP**

HARMONY SERIES

Portable Terminal Air Conditioners & Heat Pumps

FEATURES & SPECIFICATIONS

YMGI Group

601 Arrow Ln, O'Fallon, MO 63366 • info@ymgigroup.com • ymgigroup.com • 866-833-3138

WELCOME



Introducing the Symphony Harmony PTAC/PTHP, TTWA and VRF PTHP

**Where Comfort and Performance
Live in Perfect Harmony.**

YMGI's Harmony line of Packaged HVAC systems offers high quality, affordable, energy efficient products and dedicated service to deliver reliable performance, and provide quiet and clean heating and cooling to our customers. YMGI let's you enjoy healthier air, energy savings, ease of use, and peace of mind.

Efficient, Reliable, and Stylish

YMGI products are engineered and built with quality components that deliver reliability and longevity. Indoor and outdoor units have a contemporary style, a sleek silhouette, and an attractive neutral color. YMGI stands behind our products to ensure our customers complete satisfaction with their YMGI ownership experience.

Meet the Symphony Conductor

YMGI designs, manufactures and sells air conditioners and heat pumps for use in residential, institutional, hospitality, light commercial, and industrial applications. As an environmentally friendly HVAC technology manufacturer, YMGI aims to design products that create harmony between our customers and their environments. Our HVAC and refrigeration products offer the best value available and are friendly to the environment, contractors, and end users.

A Talented Ensemble Working in Perfect Harmony

YMGI's R&D team consists of highly trained and experienced professionals that seek to create new, and improve existing HVAC technologies. Our team tests, designs and tests the components for quality and longevity. Our Quality Assurance team rigidly controls all aspects of part manufacturing, assembly, unit inspection and shipment.

Discover Maximum Comfort.

If Hospitality is
Your Business,
Make YMGI
Your Partner.

**YMGI is the BEST Value in
State-of-the-Art HVAC Products.**



Table of Contents

Introduction

About PTAC/PTHP

- Introduction to PTAC/PTHP
- PTAC/PTHP Benefits
- PTAC/PTHP Features
- Specifications

About TTWA

- Introduction to TTWA
- WMMP Benefits
- WMMP Features
- Specifications

About VRF PTHP

- Introduction to VRF PTHP
- Specifications

YMGI Advantages

- Ease of Installation
- Technical Support
- Customer Service
- Warranty Overview
- Credentials and Certification
- Tax Credits

Meet the Symphony Performers

The YMGI Symphony Harmony Series are Packaged Ductless Systems. These full featured, user friendly, self-contained units that are simple to install and maintain. They deliver the right amount of warm and cool air needed, and are more efficient than many conventional systems.

The Harmony series consists of YMGI's Packaged Terminal Air Conditioner (PTAC), Packaged Terminal Heat Pump (PTHP), Through The Wall Air Conditioner (TTWA), and VRF PTHP units.

These systems are designed for cooling and heating hotel rooms, dormitories, apartments, condominiums, sunrooms, mobile homes, room additions and more. So, relax and enjoy the personalized comfort that each of our Harmony HVAC systems can provide your guests.



PTAC/PTHP

High Efficiency

HARMONY systems are among the most efficient in the industry, with SEER's up to 12.6 and COP up to 3.6. All of YMGJ's Harmony systems are AHRI Certified, and UL listed in the US and Canada.

Optimized System Design

PTAC and TTWA components are individually and systematically optimized to ensure all HARMONY systems work in wide ranges of applications, and deliver the right amount of heating or cooling when you need it, and with maximum efficiency.



How Do PTAC/PTHP Systems Work?

PTAC/PTHP are through-wall mounted systems that consist of 3 major components: the main unit, the wall sleeve, and the grille. PTAC systems use an electrically driven compressor to pump refrigerant through the coils, pipes, and other components to cool indoor air. PTAC systems use an electric heater for warming the air

PTHP systems use an electrically driven compressor in the same way, but use a reverse refrigeration cycle as its primary heat source. PTHPs can also utilize an electric heater as a back-up heat source when outdoor temperatures fall below freezing.

YMGJ's PTAC/PTHP systems are equipped with a locking air damper lever that allows control of the air source. Open the lever to let fresh air in. Close the lever to stop fresh air from entering the room, allowing you to heat or cool more quickly and efficiently.

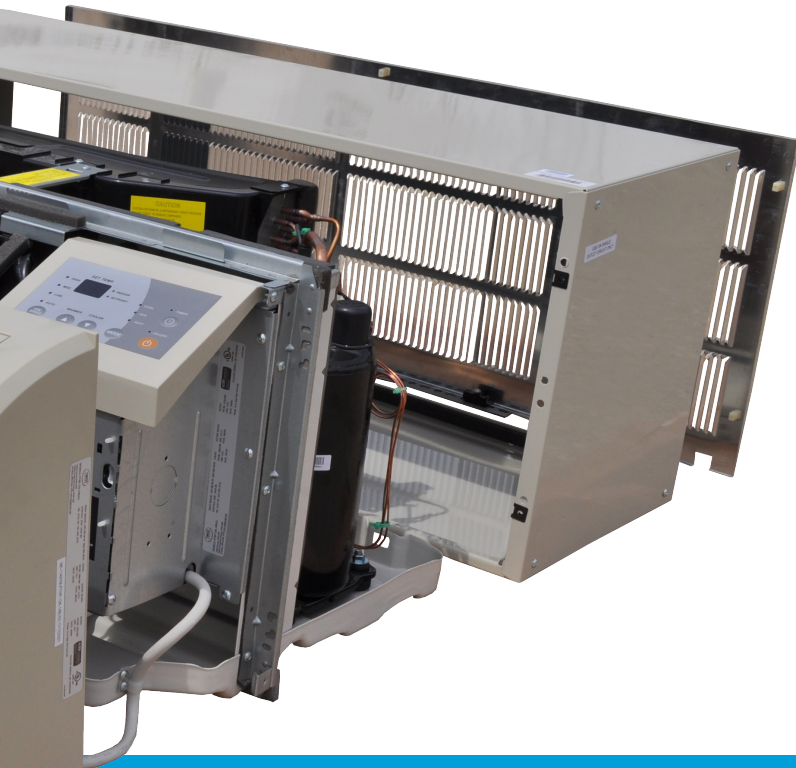


PTAC/PTHP Construction

PTAC and PTHP systems are larger than through-the-window mounted, or through-the-wall air conditioners/heat pumps. A PTAC/PTHP system's larger size allows for greater cooling and heating capacities, with greater energy efficiency, and at low speeds, noise levels as quiet as 47 dB.

The main refrigeration unit consists of the evaporator coil, condensing coil, fan motors, compressor, and electronic components mounted to a powder coated steel chassis.

YMGJ's PTAC/PTHP systems mount through the wall, using a steel sleeve. The 42" x 16" x 13 3/4" knock-down wall sleeve is powder coated steel. The steel sleeve provides a sturdy housing to protect and support the refrigeration unit.



Quiet Operation

Unique low-noise design makes our systems one of the quietest on the market.

Back-up Electric Heater

YMGI offers PTAC systems equipped with electric heaters, so a single system can take care of all of a room's heating or cooling needs. We also offer PTHP systems with a secondary electric heater that warms spaces in weather that may be too cold to effectively utilize a heat pump.

Perfect with Any Decor

YMGI's HARMONY STANDARD line of PTAC/PTHP systems have an ABS fascia, molded in a neutral color that compliments any decor. The low profile fascia conceals the tactile controls and digital display.

The grille attaches to the exterior side of the wall sleeve, and protects the unit from debris, while it helps control air flow across the condensing coil. YMGI offers both stamped aluminum and architectural grilles.

PTAC/PTHP is an easy and efficient way to cool and heat a room with a single piece of equipment. There is no need for refrigeration piping or special wiring. Installation is simple and fast. A small section of the wall is cut out to install the wall sleeve, which houses the main unit. Units can be plugged into a wall electrical outlet or hard wired to a disconnect switch box.



YMGI's PTAC/PTHP is equipped with a digital control panel. Systems come preconfigured to be easily converted for use with wired and wireless thermostats.

The PTAC/PTHP systems also come with Energy Management & Thermostat Connections and Dip Switches allowing you to also use Door and Occupancy Sensors.



BENEFITS

Perfect Temperature in Every Room

YMGI HARMONY PTAC/PTHP are self-contained systems, allowing each guests' room to be independently controlled. Room temperature is set with the control panel. HARMONY systems allow each guest to experience personalized comfort. Make each room cool and dry in the summer and warm and cozy during the winter.



Control All Your Systems from Your Computer

YMGI offers an optional control board and software package that will allow hotel operators to control all of their HARMONY systems in multiple buildings from a Windows PC. When installed and configured, the software will display the full details of each system, and can be viewed from the front desk or remotely. The settings of each system can be monitored or changed remotely, and automatically generated emails can be sent when a system requires maintenance. Up to 170 PTAC/PTHPs can be monitored through a single controller. For buildings with over 170 systems, additional controllers can be installed to expand the network. This can also be used to monitor and control systems on multiple properties.

Indoor Air, and your Health

- Indoor Air is up to 70 times more polluted than outdoor air.
- The average house generates up to 40 lbs of dust annually.
- Headaches and respiratory infections can be caused by poor indoor air quality.
- Allergies and asthma can be aggravated by poor indoor air quality.



Breath Healthier

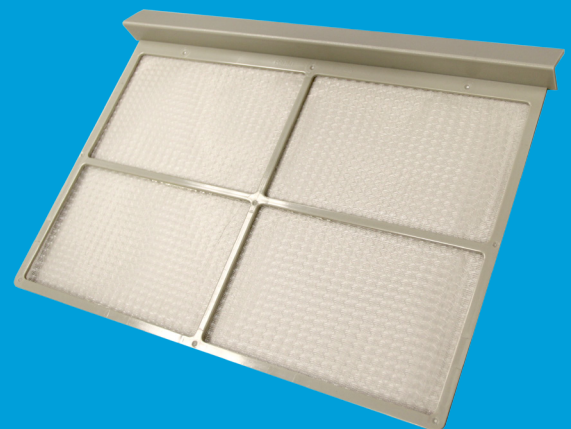
Conventional ducted systems are notorious for poor air quality. Ductwork used in these systems create an ideal breeding ground for viruses, bacteria, and mold. When air passes through the ducting, dust, pollen and other allergens can be spread throughout a home, and adversely affect your health. Because YMGI PTAC systems have no ducting, your circulated air is cleaner and you can breathe healthier.

Air Filtration

Every YMGI indoor unit incorporates our washable and reusable particulate air filter. It traps mold, dust and dander, and is easy to remove and clean.

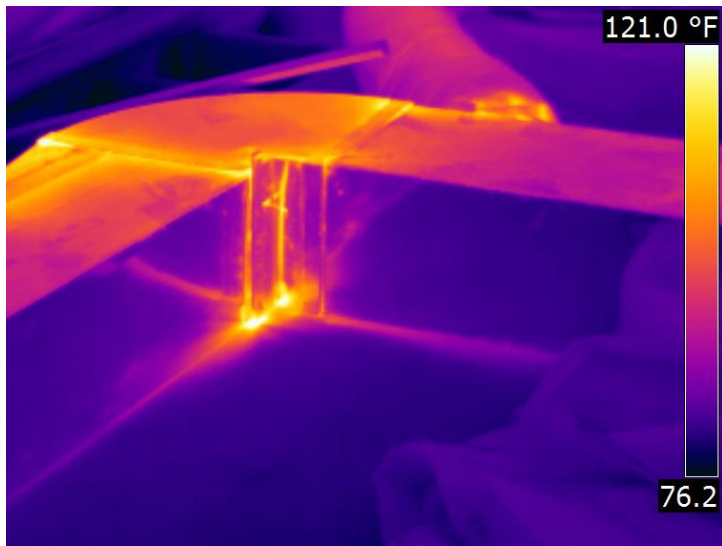
Easy Filter Cleaning

Filters easily lift from the top of the unit, and can be washed with water or a mild detergent. Allow them to dry thoroughly before reinserting into system.



Reduce Your Carbon Footprint

Up to half of the energy used in your home, office or business goes toward heating and cooling. On average, over 30% of the heat generated by conventional central air systems escapes from the ducts before it ever reaches your rooms. The Symphony HARMONY systems let you reduce your carbon footprint by eliminating ducts, and eliminating energy waste.



The bright yellow areas in this thermal image, demonstrate the heat loss common in conventional ducted HVAC systems.

Save Money

Every function of a HARMONY STANDARD system is aimed at reducing energy consumption and saving you money with lower energy costs while protecting the environment.

Eco-friendly Refrigerant

YMGI's green mission doesn't end with reduced energy consumption. Older systems use R-22 refrigerant. Every YMGI system uses R-410A refrigerant, which is non-ozone depleting.

Trusted by the Biggest Names in Hospitality

YMGI's PTAC and PTHP systems are used by some of the biggest names in the Hospitality Industry, in multiple locations across the United States.



UNIQUE FEATURES

both ***Simple*** & ***Profound***

Quality & More

Guests can be tough on equipment, and YMGI's HARMONY STANDARD systems are designed using thicker steel and fewer plastic parts than many competing systems on the market. Most of the steel components we use have a baked on powder coat finish, for a durable, attractive and rust free cabinet, and sleeve.

The front panel is impact resistant ABS, molded in a neutral color, that easily coordinates with any rooms' decor.

Comfort & Convenience

Condensate Evaporation

For rapid evaporation, the YMGI PTAC/PTHP uses a sling on the outdoor fan blades to throw any condensate onto the outdoor coil. This increases cooling efficiency and minimizes water run-off.

Network Control Ready

This special order option allows you to manage up to 170 systems through a single PC interface. More units and properties can be added with additional control boards.

Sleep Mode

YMGI HARMONY STANDARD systems are designed with Sleep Mode, a feature that can give you the best night's sleep you've ever experienced. In Sleep Mode, YMGI SOLO & CHOIR systems automatically and gently adjust a room's temperature to your body temperature and sleep pattern, so you remain comfortable all night long. Sleep Mode conserves energy as well.

Replace Your Older Systems

YMGI HARMONY STANDARD systems fit into a standard 42 1/4" x 16 1/4" opening, to easily replace older less efficient or higher maintenance units.

With all these great features, discover the best value in state-of-the-art PTAC/PTHP systems.



Easy Installation

The HARMONY STANDARD PTAC/PTHP systems use a rigid steel 4 piece knock-down wall sleeve to fit into a universal 42 1/4" x 16 1/4" opening. The grille is mounted to the wall sleeve on the exterior side, and secured from the inside. Condensate drains to the exterior side of the wall sleeve. A condensate drain kit may optionally be installed on the heat pump models to allow easy drainage during winter. Finally, the system is plugged into a wall outlet or wired to a dedicated disconnect switch.

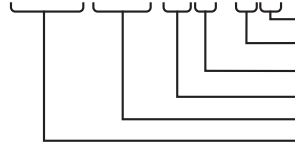
That's it! Your HARMONY STANDARD system is now ready to cool and heat all your round.

Nomenclature

Model Number:

PTAC-07K-12B (43)

PTHP-15K-14D (45)



Heater Size: 3kw | 5kw

Refrigerant: 410A

Voltage: B: 208-230V | D 265-277V

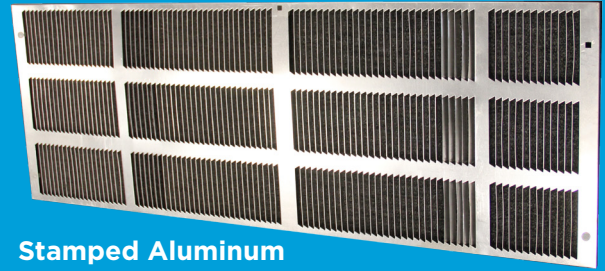
Unit: 12: Cooling Only | 14: Heat Pump

Cooling Capacity: 07k Btu/h - 15k Btu/h

PTAC: Portable Terminal Air Conditioner

PTHP: Portable Terminal Heat Pump

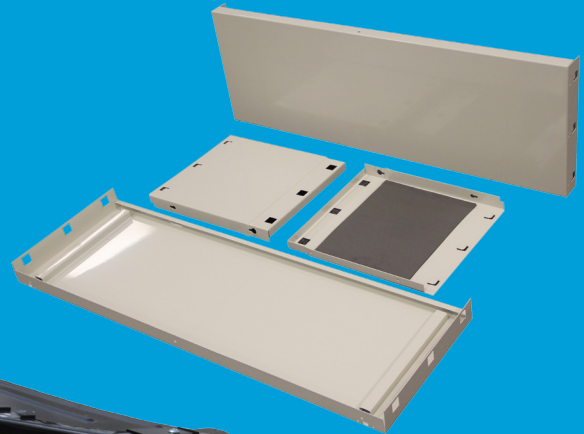
Accessories



**Stamped Aluminum
Standard Grille**



**Brushed Aluminum Finish
Architectural Grille**



**4 Piece
Knock-Down sleeve.**



**One LCDI cord
included with unit**



PTAC/PTHP SYSTEM

YMGI PACKAGED TERMINAL AIR CONDITIONER (PTAC) PACKAGED TERMINAL HEAT PUMP (PTHP)



HARMONY STANDARD Systems are available in cooling capacities from 7,000 to 15,000 Btu/h and heating capacities from 7,000 to 15,000 Btu/h.

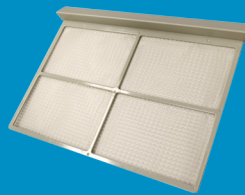
The **HARMONY STANDARD** features touch pad controls, a digital display, that provides precise climate control, so your guests can customize their comfort level. Two efficient direct-drive motors power an outdoor condensing cool fan, and a 3 speed cross-flow random pitch indoor blower engineered to deliver cooling and heating evenly throughout any room.



Touch Pad Control with Digital Display



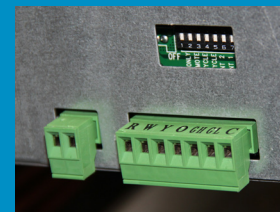
Main Control Board



Washable and Reusable Particulate Air Filter



Condensate Anti-freeze Drainage Valve



Energy Management & Thermostat Connections

PTAC BASIC

YMGI HARMONY BASIC PTAC WALL MOUNT PACKAGED SYSTEM



HARMONY BASIC PTAC Systems are available in cooling capacities from 7,000 to 15,000 and have a 3 kw electric heater. HARMONY BASIC Systems have a 10.0 to 11.9 EER rating.

The HARMONY BASIC features touch pad controls, a digital display, that provides precise climate control, so your guests can customize their comfort level. Two efficient direct-drive motors power an outdoor condensing cool fan, and a 3 speed cross-flow random pitch indoor blower engineered to deliver cooling and heating evenly throughout any room.



Touch Pad Control with Digital Display



Main Control Board



Washable and Reusable Particulate Air Filter



Condensate Anti-freeze Drainage Valve



Energy Management & Thermostat Connections

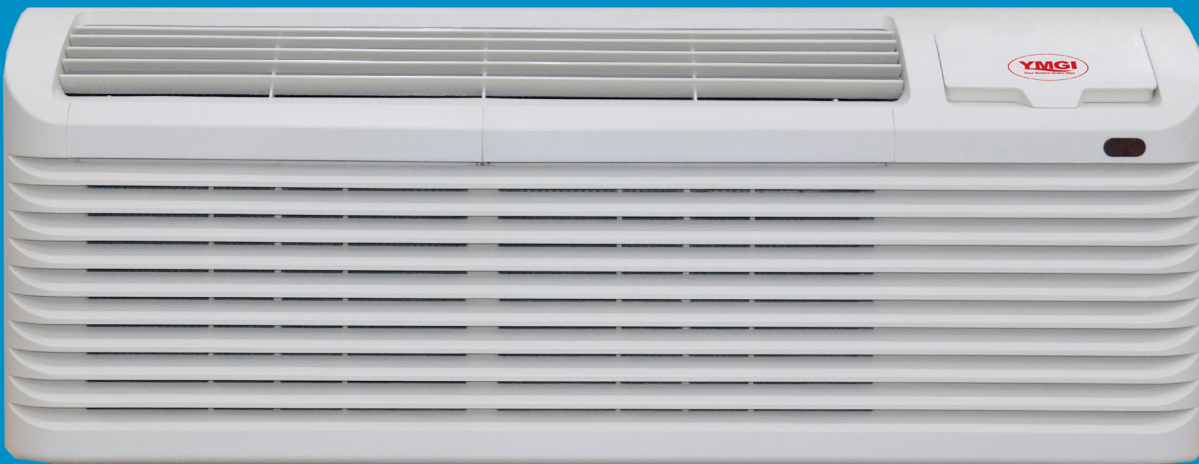
01 Model PTAC System Product Specifications

PTAC w/ Electric Heater

Model		PTAC-07K-04B(43)	PTAC-09K-04B(43)	PTAC-12K-04B(43)	PTAC-15K-04B(43)	PTAC-15K-04B(45)		
Cooling (AC)	Power supply	V/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60		
	Capacity	Btu/h	7400/7200	9500/9300	12200/12000	14500/14300		
	Input	W	620/605	835/815	1140/1120	1450/1430		
Heating (Heat Pump)	EER	Btu/h.W	11.9/11.9	11.4/11.4	10.7/10.7	10.0/10.0		
	Capacity	Btu/h	/	/	/	/		
	Input	W	/	/	/	/		
Electric heating	COP	Btu/h.W	/	/	/	/		
	Capacity	Btu/h	8300/10200	8300/10200	8300/10200	8300/10200		
	Power input	W	2450/3000	2450/3000	2450/3000	2450/3000		
Cooling power factor	Rated current	A	12/13.2	12/13.2	12/13.2	12/13.2		
	Heating power factor		0.992/0.994	0.987/0.990	0.956/0.963	0.985/0.991	0.985/0.991	
Max. input consumption	W	750	1050	1460	1950	1950		
Max. current	A	3.6	5.1	7.3	9.4	9.4		
Moisture Removal	Pints/hr	0.21	1.16	2.18	3.27	3.27		
Compressor	Model		39B142G	39B202A	ASM113N1UDZ	44B342U		
	Type		Rotary	Rotary	Rotary	Rotary		
	Brand		RECHI	RECHI	GMCC	RECHI		
	Capacity	Btu/h	5555± 5%	7815± 5%	11500/11450±5%	13370±5%	13370±5%	
	Input	W	565 ± 5%	790 ± 5%	1090/1075 ±5%	1330 ±5%	1330 ±5%	
	Rated current (RLA)	A	2.5	3.5	4.9/5.3 ±5%	5.9	5.9	
	Locked rotor Amp (LRA)	A	13±10%	16.5±10%	28.5±10%	28.9±10%	28.9±10%	
	Thermal protector	°C	135±5 (Built-in)	135±5 (External)	135±5 (Built-in)	135±5 (Built-in)	135±5 (Built-in)	
	Capacitor	uF	15	25	40	30	30	
	Refrigerant oil	ml	240	240	320	370	370	
Indoor fan motor	Model		YDK-25-4P2	YDK-25-4P2	YDK-30-4P2	YDK-30-4P2		
	Type		Single-axis structure motor	Single-axis structure motor	Single-axis structure motor	Single-axis structure motor		
	Brand		KB/CG	KB/CG	KB/CG	KB/CG		
	Insulation class		A	A	A	A		
	Safe class		IP20	IP20	IP20	IP20		
	Input	W	55	55	64	64		
	Output	W	25	25	30	30		
	Rated current	A	0.25	0.25	0.29	0.29		
	Capacitor	uF	1.5	1.5	1.5	1.5		
	Speed (hi/mi/lo)	rpm	900/650	900/650	1050/850	1050/850		
Indoor fan wheel	Material		Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy		
	Type		Cross-flow fan blade	Cross-flow fan blade	Cross-flow fan blade	Cross-flow fan blade		
	Diameter / Height	In	4.724" / 27.795"	4.724" / 27.795"	4.724" / 27.795"	4.724" / 27.795"		
Indoor coil	Number of rows		2	2	2	3		
	Tube pitch x row pitch	mm	21 x 13.37	21 x 13.37	21 x 13.37	21 x 13.37		
	Fin spacing	mm	1.4	1.4	1.4	1.6		
	Fin type (code)		Window fin	Window fin	Window fin	Window fin		
	Tube outside dia. and type	mm	Ø7x0.24+0.18xC	Ø7x0.24+0.18xC	Ø7x0.24+0.18xC	Ø7x0.24+0.18xC		
	Coil length x height	mm	704*252	704*252	704*252	722*252		
	Number of circuits		2	2	2	2		
Indoor air flow (Hi/Lo)	CFM	424/365 CFM	424/365 CFM	442/383 CFM	471/412 CFM	471/412 CFM		
Indoor external static pressure (Hi)	Pa	0	0	0	0	0		
Indoor sound pressure level	dB(A)	49/41	49/40	53/47	52/49	52/49		
Outdoor fan motor	Model		YDK-55-4P2-4	YDK-55-4P2-4	YDK-55-4P2-4	YDK-55-4P2-4		
	Type		Uniaxial iron shell	Uniaxial iron shell	Uniaxial iron shell	Uniaxial iron shell		
	Brand		GI	GI	GI	GI		
	Insulation class		A	A	A	A		
	Safe class		IPX4	IPX4	IPX4	IPX4		
	Input	W	104	104	104	104		
	Output	W	55	55	55	55		
	Rated current	A	0.46	0.46	0.46	0.46		
	Capacitor	uF	3	3	3	3		
	Speed	rpm	1600	1600	1600	1600		
Outdoor fan	Material		ABS+G15	ABS+G15	ABS+G15	ABS+G15		
	Type		Axial-flow	Axial-flow	Axial-flow	Axial-flow		
	Diameter x Height	mm	348 x 104	348 x 104	348 x 104	348 x 104		
Outdoor coil	Number of rows		2	2	2	3		
	Tube pitch x row pitch	mm	14.5*12.56	14.5*12.56	14.5*12.56	21*13.37		
	Fin spacing	mm	1.3	1.3	1.3	1.5		
	Fin type (code)		Hydrophilic Window fin	Hydrophilic Window fin	Hydrophilic Window fin	Hydrophilic Window fin		
	Tube outside coil	mm	Ø5	Ø5	Ø5	Ø7		
	Coil length x height	mm	Ø4.9x0.2+0.15xC	Ø4.9x0.2+0.15xC	Ø4.9x0.2+0.15xC	Ø7x0.24+0.18xC		
	Number of circuits		2	2	2	4		
Outdoor air flow	CFM	706.8	706.8	706.8	706.8	706.8		
Outdoor sound pressure level	dB(A)	66	66	66	66	66		
Unit	Dimension (WxHxD)	In.	41.97 x 16.06 x 21.06	41.97 x 16.06 x 21.06	41.97 x 16.06 x 21.06	41.97 x 16.06 x 21.06		
	Packing (WxHxD)	In.	45.28 x 18.9 x 24.8	45.28 x 18.9 x 24.8	45.28 x 18.9 x 24.8	45.28 x 18.9 x 24.8		
	Net/Gross weight	Lbs.	93.6 / 104.6	93.6 / 104.6	101.3 / 112.3	107.9 / 118.9	107.9 / 118.9	
Refrigerant Charge	Oz.	20.11OZ	19.4OZ	26.46OZ	34.22OZ	34.22OZ		
Metering Device		Capillary	Capillary	Capillary	Capillary	Capillary		
Design pressure	PSIG	450/232 PSIG	450/232 PSIG	450/232 PSIG	450/232 PSIG	450/232 PSIG		
Power Wires	Wire Size	mm2	3.3081	3.3081	3.3081	5.2615		
	LCDI Cord Plug	Built-in	LCDI-20A	LCDI-20A	LCDI-20A	LCDI-30A		
Controller			Standard: Touch Pad Optional: Remote Remote Energy Management Ready	Standard: Touch Pad Optional: Remote Remote Energy Management Ready	Standard: Touch Pad Optional: Remote Remote Energy Management Ready	Standard: Touch Pad Optional: Remote Remote Energy Management Ready		
	Indoor controllable temperature ranges	°C	16-32°C	16-32°C	16-32°C	16-32°C		
Outdoor ambient temperature ranges		°F	61-90°F	61-90°F	61-90°F	61-90°F		
	°C		Back-up Elec. Heater ≤ -8.3°C HP ≤ 5°C AC ≤46.1°C	Back-up Elec. Heater ≤ -8.3°C HP ≤ 5°C AC ≤46.1°C	Back-up Elec. Heater ≤ -8.3°C HP ≤ 5°C AC ≤46.1°C	Back-up Elec. Heater ≤ -8.3°C HP ≤ 5°C AC ≤46.1°C	Back-up Elec. Heater ≤ -8.3°C HP ≤ 5°C AC ≤46.1°C	
		°F		Back-up Elec. Heater ≤ 17°F HP ≤ 41°F AC ≤ 115°F	Back-up Elec. Heater ≤ 17°F HP ≤ 41°F AC ≤ 115°F	Back-up Elec. Heater ≤17°F HP ≤ 41°F AC ≤115°F	Back-up Elec. Heater ≤17°F HP ≤ 41°F AC ≤ 115°F	Back-up Elec. Heater ≤ 17°F HP ≤ 41°F AC ≤ 115°F

PTHP BASIC

YMGI HARMONY BASIC PTHP WALL MOUNT PACKAGED SYSTEM



HARMONY BASIC PTHP Systems are available in cooling capacities from 7,000 to 15,000 Btu/h and heating capacities from 6,000 to 13,600 Btu/h. They also include a 3 kw electric heater, that can help warm the room when the weather falls below freezing. All HARMONY BASIC Systems have a 10.0 to 11.9 EER rating.

The HARMONY BASIC features touch pad controls and a digital display to provide precise climate control, so your guests can customize their comfort level. Two efficient direct-drive motors power an outdoor condensing cool fan, and a 3 speed cross-flow random pitch indoor blower fan that is engineered to deliver cooling and heating evenly throughout any room.



Touch Pad Control with Digital Display



Main Control Board



Washable and Reusable Particulate Air Filter



Condensate Anti-freeze Drainage Valve



Energy Management & Thermostat Connections

O1 Model PTHP System Product Specifications

PTHP Specifications

Model			PTHP-07K-04B(43)	PTHP-09K-04B(43)	PTHP-12K-04B(43)	PTHP-15K-04B(43)	PTHP-15K-04B(45)
Cooling (AC)	Power supply	V/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
	Capacity	Btu/h	7200/6800	9200/9000	12000/11800	14500/14300	14500/14300
	Input	W	605/570	805/790	1130/1110	1450/1430	1450/1430
	EER	Btu/h.W	11.9/11.9	11.4/11.4	10.6/10.6	10.0/10.0	10.0/10.0
Heating (Heat Pump)	Capacity	Btu/h	6000/5800	8300/8100	10800/10500	13600/13200	13600/13200
	Input	W	520/500	715/700	960/930	1245/1210	1245/1210
	COP	Btu/h.W	3.4/3.4	3.4/3.4	3.2/3.2	3.2/3.2	3.2/3.2
Electric heating	Capacity	Btu/h	8300/10200	8300/10200	8300/10200	8300/10200	13900/17000
	Power input	W	2450/3000	2450/3000	2450/3000	2450/3000	4085/5000
	Rated current	A	12/13.2	12/13.2	12/13.2	12/13.2	19.8/21.9
Cooling power factor		0.992/0.994	0.987/0.990	0.956/0.963	0.985/0.991	0.985/0.991	
Heating power factor		0.990/0.991	0.987/0.988	0.936/0.940	0.983/0.991	0.983/0.991	
Max. input consumption	W	750	1050	1460	1950	1950	
Max. current	A	3.6	5.1	7.3	9.4	9.4	
Moisture Removal	Pints/hr	0.21	1.16	2.18	3.27	3.27	
Compressor	Model		39B142G	39B202A	ASM113N1UDZ	44B342U	44B342U
	Type		Rotary	Rotary	Rotary	Rotary	Rotary
	Brand		RECHI	RECHI	GMCC	RECHI	RECHI
	Capacity	Btu/h	5555±5%	7815±5%	11500/11450±5%	13370±5%	13370±5%
	Input	W	565±5%	790±5%	1090/1075±5%	1330±5%	1330±5%
	Rated Current (RLA)	A	2.5	3.5	4.9/5.3±5%	5.9	5.9
	Locked Rotor Amp (LRA)	A	13±10%	16.5±10%	28.5±10%	28.9±10%	28.9±10%
	Thermal protector	°C	135±5 (Built-in)	135±5 (External)	135±5 (Built-in)	135±5 (Built-in)	135±5 (Built-in)
	Capacitor	uF	15	25	40	30	30
	Refrigerant oil	ml	240	240	320	370	370
Indoor Fan Motor	Model		YDK-25-4P2	YDK-25-4P2	YDK-30-4P2	YDK-30-4P2	YDK-30-4P2
	Type		Single-axis structure motor	Single-axis structure motor	Single-axis structure motor	Single-axis structure motor	Single-axis structure motor
	Brand		KB/CG	KB/CG	KB/CG	KB/CG	KB/CG
	Insulation class		A	A	A	A	A
	Safe class		IP20	IP20	IP20	IP20	IP20
	Input	W	55	55	64	64	64
	Output	W	25	25	30	30	30
	Rated current	A	0.25	0.25	0.29	0.29	0.29
	Capacitor	uF	1.5	1.5	1.5	1.5	1.5
	Speed (Hi/Med/Lo)	rpm	900/650	900/650	1050/850	1050/950	1050/950
Indoor Fan Wheel	Material		Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
	Type		Cross-flow fan blade	Cross-flow fan blade	Cross-flow fan blade	Cross-flow fan blade	Cross-flow fan blade
	Diameter / Height	Inch	4.724" / 27.795"	4.724" / 27.795"	4.724" / 27.795"	4.724" / 27.795"	4.724" / 27.795"
Indoor Coil	Number of rows		2	2	2	3	3
	Tube pitch x row pitch	mm	21 x 13.37	21 x 13.37	21 x 13.37	21 x 13.37	21 x 13.37
	Fin spacing	mm	1.4	1.4	1.4	1.6	1.6
	Fin type (code)		Window fin	Window fin	Window fin	Window fin	Window fin
	Tube outside dia. and type	mm	Ø7x0.24+0.18xC Screwed pipe	Ø7x0.24+0.18xC Screwed pipe	Ø7x0.24+0.18xC Screwed pipe	Ø7x0.24+0.18xC Screwed pipe	Ø7x0.24+0.18xC Screwed pipe
	Coil length x height	mm	704 x 252	704 x 252	704 x 252	722 x 252	722 x 252
	Number of circuits		2	2	2	2	2
Indoor Air Flow (Hi/Lo)	CFM	424/365 CFM	424/365 CFM	424/365 CFM	471/412 CFM	471/412 CFM	
Indoor External Static Pressure (Hi)	Pa	0	0	0	0	0	
Indoor Sound Pressure Level	dB(A)	49/41	49/40	49/41	52/49	52/49	
Outdoor Fan Motor	Model		YDK-55-4P2-4	YDK-55-4P2-4	YDK-55-4P2-4	YDK-55-4P2-4	YDK-55-4P2-4
	Type		Uniaxial iron shell	Uniaxial iron shell	Uniaxial iron shell	Uniaxial iron shell	Uniaxial iron shell
	Brand		GI	GI	GI	GI	GI
	Insulation class		A	A	A	A	A
	Safe class		IPX4	IPX4	IPX4	IPX4	IPX4
	Input	W	104	104	104	104	104
	Output	W	55	55	55	55	55
	Rated current	A	0.46	0.46	0.46	0.46	0.46
	Capacitor	uF	3	3	3	3	3
	Speed	r/min	1600	1600	1600	1600	1600
Outdoor Fan	Material		ABS+G15	ABS+G15	ABS+G15	ABS+G15	ABS+G15
	Type		Axial-flow	Axial-flow	Axial-flow	Axial-flow	Axial-flow
	Diameter x Height	mm	348 x 104	348 x 104	348 x 104	348 x 104	348 x 104
Outdoor Coil	Number of rows		2	2	2	3	3
	Tube pitch x row pitch	mm	14.5 x 12.56	14.5 x 12.56	14.5 x 12.56	21 x 13.37	21 x 13.37
	Fin spacing	mm	1.3	1.3	1.3	1.5	1.5
	Fin type (code)		Hydrophilic Window fin	Hydrophilic Window fin	Hydrophilic Window fin	Hydrophilic Window fin	Hydrophilic Window fin
	Tube outside coil	mm	Ø5	Ø5	Ø5	Ø7	Ø7
	Coil length x height	mm	Ø4.9x0.2+0.15xC	Ø4.9x0.2+0.15xC	Ø4.9x0.2+0.15xC	Ø7x0.24+0.18xC	Ø7x0.24+0.18xC
	Number of circuits		4	2	2	4	4
Outdoor air flow	CFM	706.8	706.8	706.8	706.8	706.8	
Outdoorsound pressure level	dB(A)	66	66	66	66	66	
Unit	Dimension(W x H x D)	Inch	41.97x16.06x21.06 in.	41.97x16.06x21.06 in.	41.97x16.06x21.06 in.	41.97x16.06x21.06 in.	41.97x16.06x21.06 in.
	Packing (W x H x D)	Inch	45.28 x 18.9 x 24.8 in.	45.28 x 18.9 x 24.8 in.	45.28 x 18.9 x 24.8 in.	45.28 x 18.9 x 24.8 in.	45.28 x 18.9 x 24.8 in.
	Net/Gross weight	Lbs.	93.6 / 104.6 LBS	94.7 / 105.7 LBS	102.4 / 113.4 LBS	109.0 / 120.0 LBS	109.0 / 120.0 LBS
Charged refrigerant type	Oz.	20.11Ozs	21.16Ozs	26.46Ozs	34.22Ozs	34.22Ozs	
Metering device		Capillary	Capillary	Capillary	Capillary	Capillary	
Design pressure	PSIG	450/232 PSIG	450/232 PSIG	450/232 PSIG	450/232 PSIG	450/232 PSIG	
Power Wires	Wire Size	mm2	3.3081	3.3081	3.3081	5.2615	5.2615
	LCDI Cord Plug	Built-in	LCDI-20A	LCDI-20A	LCDI-20A	LCDI-20A	LCDI-30A
Controller			Standard: Touch Pad Optional: Remote Remote Energy Management Ready	Standard: Touch Pad Optional: Remote Remote Energy Management Ready	Standard: Touch Pad Optional: Remote Remote Energy Management Ready	Standard: Touch Pad Optional: Remote Remote Energy Management Ready	Standard: Touch Pad Optional: Remote Remote Energy Management Ready
	Indoor controllable temperature ranges	°C	16-32 °C	16-32 °C	16-32 °C	16-32 °C	16-32 °C
Outdoor ambient temperature ranges		°F	61-90 °F	61-90 °F	61-90 °F	61-90 °F	61-90 °F
		°C	Back-up Elec. Heater ≤ -8.3°C ≤ HP 5°C ≤ AC ≤ 46.1°C	Back-up Elec. Heater ≤ -8.3°C ≤ HP 5°C ≤ AC ≤ 46.1°C	Back-up Elec. Heater ≤ -8.3°C ≤ HP 5°C ≤ AC ≤ 46.1°C	Back-up Elec. Heater ≤ -8.3°C ≤ HP 5°C ≤ AC ≤ 46.1°C	Back-up Elec. Heater ≤ -8.3°C ≤ HP 5°C ≤ AC ≤ 46.1°C
		°F	Back-up Elec. Heater ≤ 17°F ≤ HP 41°F ≤ AC ≤ 115°F	Back-up Elec. Heater ≤ 17°F ≤ HP 41°F ≤ AC ≤ 115°F	Back-up Elec. Heater ≤ 17°F ≤ HP 41°F ≤ AC ≤ 115°F	Back-up Elec. Heater ≤ 17°F ≤ HP 41°F ≤ AC ≤ 115°F	Back-up Elec. Heater ≤ 17°F ≤ HP 41°F ≤ AC ≤ 115°F

TTWA

High Efficiency

HARMONY MINI systems are among the most efficient in the industry, with SEER's up to 12.6 and COP up to 3.6. All of our Harmony Mini systems are AHRI Certified, and UL listed in the US and Canada.

Optimized System Design

Components are both individually and systematically optimized to ensure HARMONY MINI systems work in a wide range of applications, and deliver the right amount of heating or cooling when you need it, and with maximum efficiency.

How Do TTWA Systems Work?

TTWA are through-wall mounted systems that consist of 3 major components: the main unit, the wall sleeve, and the grille. TTWA systems utilize an electrically driven compressor to pump refrigerant through the coils to cool indoor air. Some TTWA systems have an electric heater for warming the air.

Heat Pump TTWA systems use the electrically driven compressor to cool, but can also use a reverse refrigeration cycle to heat a room as well. TTWA also have an electric heater as a back-up heat source that can be used when the outdoor temperature falls below freezing.

TTWA Construction

Smaller than a standard PTAC/PTHP units, TTWAs have similar cooling and heating capacities. TTWAs compact size allows for higher energy efficiency, and noise levels as quiet as 55 dB. TTWAs are quieter and more efficient than window units.

YMG's TTWA systems are mounted through the wall using a knock-down wall sleeve. The sleeve is constructed using powder coated steel, and provides a sturdy housing for the main unit.



The main refrigeration unit consists of the evaporator coil, condensing coil, fan motors, compressor and electronic components, all mounted to a powder coated steel chassis that measures 26" x 15.6" x 21.5".

The grille is designed to protect the condensing coil and direct the air flow across it. It is attached to the exterior side of the wall sleeve.

TTWA is an efficient way to cool and heat a room with a single piece of equipment. There is no need for refrigeration piping or special wiring. Installation is simple and fast. A small section of the wall is removed to install the wall sleeve, which houses the main unit. Units can plug into a standard electrical outlet or can be hard wired to a quick disconnect switch box.



Back-up Electric Heater

YMGI offers TTWA systems equipped with electric heaters, so a single system can take care of all of a room's heating or cooling needs.

We also offer TTWP systems with a secondary electric heater that heats spaces when weather is too cold to effectively utilize a heat pump.

Perfect with Any Decor

YMGI's HARMONY MINI line of TTWA systems have a low profile fascia that houses the tactile controls and LED display. The fascia is made of impact resistant ABS plastic molded in a neutral color that compliments any decor.



Quality & Reliability

HARMONY MINI Systems are thoroughly tested under stringent conditions. We construct each unit to ensure many years of trouble free service, and easy maintenance. YMGI stands behind each product with technical support, and warranty coverage.

Quiet Operation

Unique low noise design makes our system among the quietest on the market. The TTWA runs at about 55 db, which is about as loud as a coffee maker.

YMGI's HARMONY MINI is equipped with an easy to use, tactile control panel. Systems come preconfigured for wired and wireless thermostats.

HARMONY MINI systems come with Energy Management and Thermostat Connections, and Dip Switches that allow you to use optional Door and Occupancy Sensors.



UNIQUE FEATURES

both ***Simple*** & ***Profound*** YMGI Technology

Optimized System Design

Components are both individually and systematically optimized to ensure HARMONY MINI systems work in wide ranges of applications, and deliver the right amount of heating or cooling when you need it, and with maximum efficiency.

Flexible Control Options

Your YMGI HARMONY ELITE comes with a standard control, but can easily be configured to allow use of a wired or wireless thermostat, or network control.

Thermostat and Front-Desk Control Ready

The internal control board is pre-installed, allowing your HARMONY MINI Systems to work with any manufacturer's standard wall mounted thermostat.

LED Indicators

The HARMONY MINI control panel has LED indicators that correspond to operating mode, fan speed, and unit status.

Adjustable Indoor Fan Speed

You can select low, medium, high or auto. In Auto mode, the unit will choose the most efficient running speed.

Permanently Lubricated Fan Motors

All units HARMONY MINI units have two fan motors, for quiet operation and maximum efficiency. These motors are permanently lubricated to reduce maintenance and are sealed to keep the motor windings dirt and moisture free.

Weather Protected Electrical Components

All electronic components are placed on the indoor side of the weather barrier to protect them from the elements.

Environmentally Friendly Inside & Out

Reusable Washable Filter

The YMGI HARMONY MINI comes with a standard washable particulate filter. It traps mold, dust and dander, and is simple to remove and clean.



Easy Filter Cleaning

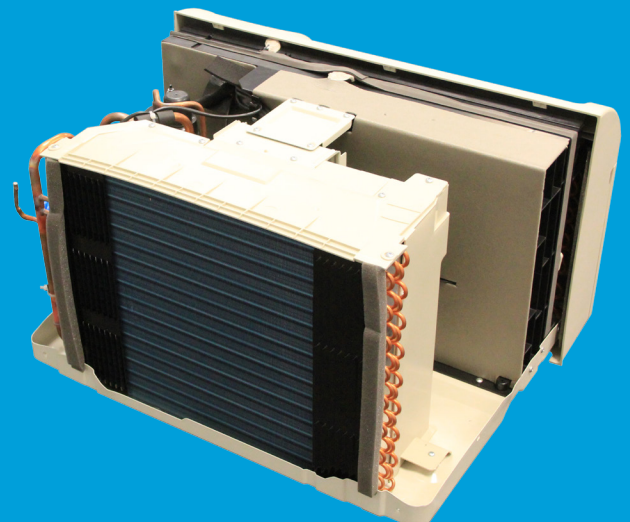
Filters easily lift from the top of the unit, and can be washed with water or a mild detergent. Allow them to dry thoroughly before reinserting into system.

Eco-Friendly R410A Refrigerant

All Harmony PTAC and TTWA systems use R-410A refrigerant, which is Hydro Fluorocarbon (HFC) Free with zero ODP (Ozone Depletion Potential).

RoHS Approved Materials

RoHS restricts the use of harmful substances commonly used in electronic equipment. YMGI only uses RoHS approved materials.



Smart & Safe

Rotary Compressor

Smooth and quiet, the rotary compressor is dependable and efficient.

Energy Saver Mode

In COOLING or HEATING mode, the Energy Saver Mode shuts off the indoor fan 15 seconds after the compressor turns off, reducing energy use.

Optional LS Control

The function interface is located on the 24v thermostat connection board allowing you to control the system from the front desk.

Compatible with Optional 24v Thermostats

If you prefer to install your systems with a standard wall mounted thermostat, the HARMONY MINI has a thermostat interface built in.

Two Speed Outdoor Fan

The system monitors the outdoor condenser coil temperature. If the outdoor ambient temperature drops, the fan is programmed to run at low speed, to reduce noise, keeping it quiet for your guests while they sleep.

Microprocessor Controls

The HARMONY MINI has microprocessor controls that are programmed to interface with the temperature sensors to maximize efficiency and comfort, while providing multiple ways to customize your environment.

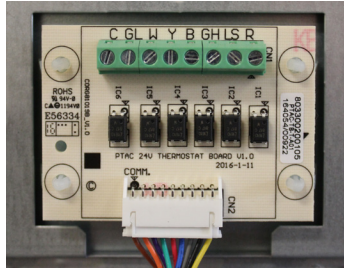
Thermistors are used to increase sensitivity to temperature variations, and allow the microprocessor to monitor and adjust the system to closely maintain the desired comfort level.

Automatic 3 Minute Compressor Lockout

If the compressor cycles off, it will wait 3 minutes before restarting.

High Temperature Protection

In COOLING mode, the unit will automatically shut down the compressor if it exceeds the safe operating temperature. Once the temperature drops to a safe level, the unit will restart. If this failure occurs 4 times within an hour, the control panel will display an E9 Error Code.



Random Restart Delay.

To help eliminate power surges after a power outage, the unit is equipped with a two to four minute random restart delay. Whenever the unit is plugged in, the master switch is turned on, and the mode switch is set in Cooling or Heating mode, a random restart will occur. The

automatic restart condition can be avoided by setting the Mode switch to "Fan Only", or the setting the Power switch to "OFF" before wiring or plugging in the unit.

Failure Tolerance.

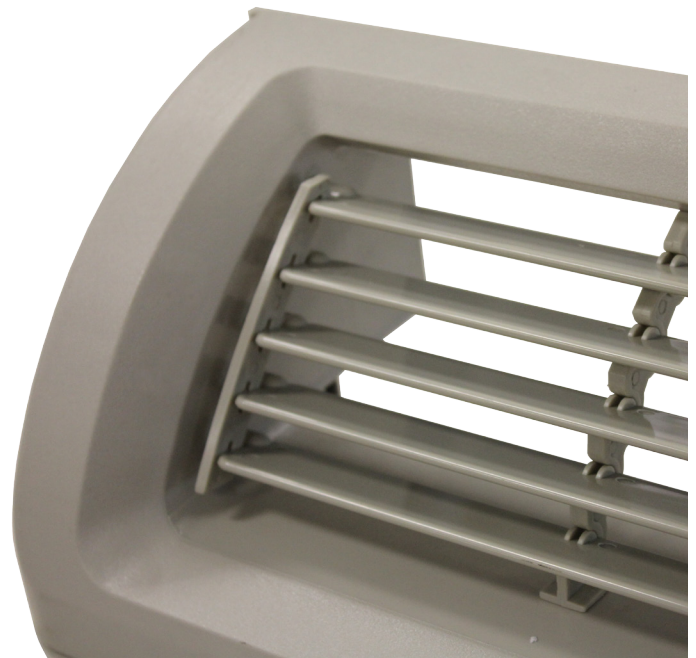
Only after the system enters a protection mode 4 times in less than an hour will the system shut itself down, and require a manual restart.

Emergency Heat on Heat Pump Units

If the heat pump fails, these units are designed to use electric resistance heat.

High Temperature Protection

Designed to protect the compressor, in the event that the heat pump is run when indoor units with a high coil temperature. If the indoor coil temperature exceeds operating parameters, power is shut off to the outdoor fan and compressor to avoid damaging the compressor and other components.



TTWA SYSTEM

YMGI THROUGH THE WALL (TTWA) AIR CONDITIONER & HEAT PUMP HARMONY MINI

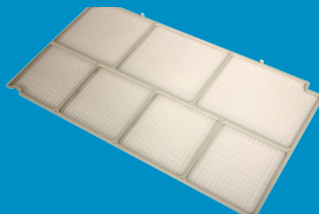


HARMONY MINI Systems are available in 110v and 220v models, with cooling capacities from 7,000 to 12,000 Btu/h and heating capacities from 6,800 to 8,800 Btu/h.

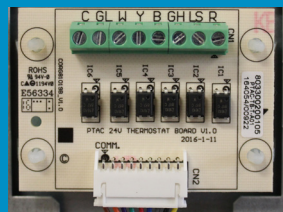
The HARMONY MINI features touch pad controls that provide precise climate control, and an LED display, so your guests can customize their comfort level. Two efficient direct-drive motors power an outdoor condensing cool fan, and a 3 speed cross-flow random pitch indoor blower engineered to deliver cooling and heating evenly throughout any room.



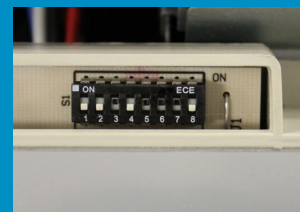
Touch Pad Control with
Digital Display



Washable Particulate
Filters



Energy Management
& Thermostat
Connections



Energy Management
& Thermostat
Connections

TTWA Product Specifications

TTWA Heat Pump Models

Model			TTWP-09K-04A(41)	TTWP-07K-04B(43)	TTWP-09K-04B(43)	TTWP-12K-04B(43)
Power supply		V/Ph/Hz	115/1/60	230-208/1/60	230-208/1/60	230-208/1/60
Power supply type			LCDI power cord	LCDI power cord	LCDI power cord	LCDI power cord
Cooling	Capacity	Btu/h	9000	7400/7200	9300/9100	
	Input	W	920	720/680	940/910	1220/1200
	CEER	Btu/h.W	9.7	10.1/10.4	9.7/9.8	9.5/9.5
	EER	Btu/h.W	9.8	10.3/10.6	9.9/10.0	9.6/9.6
Heating	Capacity	Btu/h	8500	6800/6600	8800/8600	11400/11200
	Input	W	805	640/620	830/810	1160/1140
	COP	W/W	3.1	3.1/3.1	3.1/3.1	2.9/2.9
Electric heater		W	1200	3400/2780	3400/2780	3400/2780
Max. input consumption		W	1390	3465	3465	3465
Max. current		A	12.09	15.20	15.20	15.20
Compressor	Model		44A221A	39A162A	44A222A	ASM113N1UDZ
	Type		Rotary	Rotary	Rotary	Rotary
	Brand		RECHI	RECHI	RECHI	GMCC
	Capacity	Btu/h	8890	6483	8830	11498
	Input	W	885	655	860	1090
	Rated current(RLA)	A	7.8	2.9	3.9	4.9
	Locked rotor Amp(LRA)	A	41.5	15	21	28.5
Capacitor	uF	60	20	30	40	
Indoor fan motor	Model		YDK-30B-6P2	YDK-30B-6P2	YDK-30B-6P2	YDK-30B-6P2
	Input	W	64	64	64	64
	Output	W	30	30	30	30
	Rated current	A	0.3	0.3	0.3	0.3
	Capacitor	uF	1.5	1.5	1.5	1.5
	Speed (h / m / l)	rpm	1000/850/650	1000/850/650	1000/850/650	1000/850/650
Indoor fan blade	Material		AS+GF20%	AS+GF20%	AS+GF20%	AS+GF20%
	Type		Centrifugal fan blade	Centrifugal fan blade	Centrifugal fan blade	Centrifugal fan blade
	Diameter	mm	ø205	ø205	ø205	ø205
	Height	mm	100	100	100	100
Indoor coil	Number of rows		3	3	3	3
	Tube pitch(a)x row pitch(b)	mm	21 x 13.37	21 x 13.37	21 x 13.37	21 x 13.37
	Fin spacing	mm	1.35~1.40	1.35~1.4	1.35~1.4	1.35~1.4
	Fin type (code)		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
	Tube outside dia. and type	mm	ø7	ø7	ø7	ø7
	Coil length x height	mm	427*252	427*252	427*252	427*252
	Number of circuits		18*U	18*U	18*U	18*U
Indoor air flow (Hi / Med / Lo)		cfm	270	270	270	270
Indoor external static pressure (Hi)		Pa	0	0	0	0
Indoor sound level (sound pressure level)-Cooling		dB(A)	60/52	60/52	60/52	60/52
Outdoor fan motor	Model		YDK-65-4P1	YDK-65-4P2	YDK-65-4P2	YDK-65-4P2
	Input	W	93	93	93	93
	Output	W	65	65	65	65
	Rated current	A	0.45	0.45	0.45	0.45
	Capacitor	uF	3.5	3.5	3.5	3.5
	Speed	rpm	1530 / 1230	1530 / 1230	1530 / 1230	1530 / 1230
Outdoor fan blade	material		AS+GF20%	AS+GF20%	AS+GF20%	AS+GF20%
	Diameter	mm	ø350	ø350	ø350	ø350
	Height	mm	95	95	95	95
Outdoor coil	Number of rows		4	4	3	4
	Tube pitch(a)x row pitch(b)	mm	21*13.37	21*13.37	14.5*12.56	21*13.37
	Fin spacing	mm	1.6±0.05	1.6±0.05	1.3±0.05	1.6±0.05
	Fin type (code)		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
	Tube outside dia. and type	mm	ø7	ø7	ø5	ø7
	Coil length x height	mm	448*357	448*357	452*348	448*357
Number of circuits		34*U	34*U	36*U	34*U	
Outdoor sound level (sound pressure level) Cooling		dB(A)	67/64	67/64	67/64	67/64
Unit	Dimension(W*D*H)	In.	26"x 21.57"x 15.59"	26"x 21.57"x 15.59"	26"x 21.57"x 15.59"	26"x 21.57"x 15.59"
	Packing (W*D*H)	In.	30.12"x 24.8"x 18.9"	30.12"x 24.8"x 18.9"	30.12"x 24.8"x 18.9"	30.12"x 24.8"x 18.9"
	Net/Gross weight	Kg	82.67/ 92.59	80.47/ 90.39	84.88/ 94.80	88.18 / 97
Charged refrigerant		oz.	24.3	22.9	21.2	31.75
Throttle type			Capillary	Capillary	Capillary	Capillary
Design pressure		MPa	3.3/1.6	3.3/1.6	3.3/1.6	3.3/1.6
Connection wiring	Power wiring	mm2	2.081	2.081	2.081	2.081
	Signal wiring	mm2	0.2047	0.2047	0.2047	0.2047
Drainage pipe outside diameter		mm2	9.52mm	9.52mm	9.52mm	9.52mm
Controller			Control board	Control board	Control board	Control board
Operation temp.		°F	60.8 - 89.6	60.8 - 89.6	60.8 - 89.6	60.8 - 89.6
Ambient temp.		°F	60.8 - 114.98	60.8 - 114.98	60.8 - 114.98	60.8 - 114.98

VRF PTHP

High Efficiency

VRF PTHP systems provide a combination of heating and cooling, allowing room by room comfort for all your guests. VRF PTHPs use up to two indoor units to distribute heating and cooling throughout your guests' rooms.

Optimized System Design

Components are individually and systematically optimized to ensure VRF PTAC systems work in a wide range of applications, and deliver efficient heating or cooling when your guests want it, with maximum efficiency.

How Do VRF PTHP Systems Work?

VRF PTHP are through-wall mounted systems that can easily replace a previously installed PTAC or PTHP system. They differ from PTACs because they connect to one or two mini split style indoor units to circulate heated or cooled air through the room.

The major components of the system include the main unit, the wall sleeve, and the indoor units.

VRF PTHP systems use an electrically driven compressor to pump refrigerant through the coils, pipes, and other components to cool indoor air. They also employ a reverse refrigeration cycle as a heat source. VRF PTHP units have a wide operating range, and can operate efficiently at temperatures as low as -4°F.

VRF PTHP systems are the same size as a standard Portable Terminal Air Conditioner/Portable Terminal Heat Pump units. The system's separate heating and cooling Indoor Unit allows for greater installation flexibility, while providing superior heating and cooling performance.



Construction

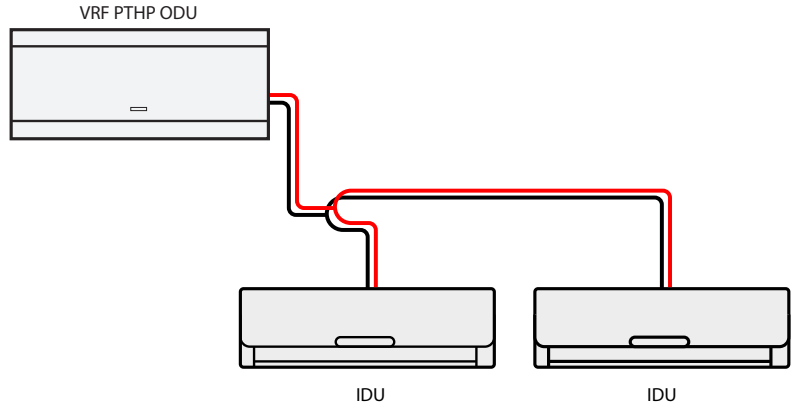
YMG's VRF PTHP Outdoor Unit consists of the evaporator coil, condensing coil, compressor, fan motors and electronic components, all mounted to a powder-coated steel chassis.

VRF PTHP systems are mounted through the wall. The 42" x 16" x 13 3/4" knock-down wall sleeve is constructed of powder coated steel. This steel sleeve provides a sturdy and corrosion resistant housing for the Outdoor condensing unit.

The grille is designed to protect the internal components, keep debris out, while directing air flow across the condensing coil.

VRF Heating & Cooling

YMGI VRF PTHP systems use Variable Refrigerant Flow for maximum efficiency and performance, even in low temperatures. A single system can provide for all of a room's heating or cooling needs, and offers the flexibility of 1 or 2 heating and cooling zones.



Works with Any Decor

YMGI's VRF PTHP are molded in a neutral color that compliments any decor. The low profile fascia is easy to remove for installation or servicing.

Copper refrigerant lines connect the VRF PTHP Outdoor Unit to one or two Indoor Units.

You can select several different options for the Indoor Units, including: EW Wall Mount, EL Console, EF Recessed Fan Coil, EC Ceiling Cassette, and EU Floor/Ceiling Mount. Installation is simple and fast. The system slides into the wall sleeve, making PTAC replacement simple. For new installation a small section of the wall is cut out to install the wall sleeve, which houses the main unit. The units are hard wired to a disconnect switch box.

Quiet Operation

Unique low-noise design makes our units some of the quietest on the market. At low speeds, these systems are as quiet as 50 dB, about as loud as a refrigerator.

YMGI's VRF PTHP Indoor Units come with a wall mounted controller or a remote control. Both are intuitively designed for easy use.



The VRF PTHP systems can also be used with Energy Management software or standard Thermostats. Dip Switches also allow you to use Door and Occupancy Sensors to control the system.

VRF PTHP

YMGI HARMONY VRF PTHP VARIABLE REFRIGERANT FLOW PACKAGED SYSTEM



HARMONY VRF PTHP Systems are available in 12,000 Btu/h cooling and heating capacities. The HARMONY VRF PTHP System has a 15.5 SEER rating. The HARMONY VRF PTHP is ideal for installations or retrofits where the heating or cooling source will perform best away from an external wall.

The HARMONY VRF PTHP has wall mounted controller or a remote control depending on the type of Indoor Unit selected to work with the ODU. Each provides precise temperature control, allowing occupants to easily set the temperature.



PTAC/PTHP WATER System Product Specifications

Outdoor Unit

Model			GMV-12WP/A-T(U)
Cooling capacity		kW	3.52
		Btu/h	12000
Heating capacity		kW	3.52
		Btu/h	12000
Circulating air volume		m ³ /h	850
		CFM	500
Noise		dB(A)	Indoor 46 / Outdoor 57
Refrigerant charge volume		Kg	0.8
		oz	28.2
EER		(Btu/h)/W	8
SEER			15.5
HSPF			9.5
Power supply			208V/230V~60Hz
Maximum Overcurrent Protection MOP		A	15
Minimum Circuit Ampacity MCA		A	13.5
Rated power input	Cooling	kW	1.4
	Heating	kW	1.1
Fan			
Type / Quantity			Axial Flow x 1
Air Flow Volume		CFM	500
Fan Motor Power Output		W	30
Compressor			
Type / Quantity			Invertor Rotary x 1
Rated Load Amps (RLA)		A	8.5
Refrigerant Oil Type			FV50S
Refrigerant Oil Charge Volume		L/Gal	0.5
Unit Dimensions (WxDxH)		mm	1069x500x406
		inch	42-1/16 x 19-11/16 x 16
Package Dimensions (WxDxH)		mm	1164 x 601 x 470
		inch	45-13/16 x 23-11/16x 18-8/16
Compressor			SNB150FGAMC
Water-proof level			IPX4
Suitable climate			T1
Connection Pipes	Gas	inch	ø1/2
	Liquid	inch	ø1/4
Maximum Equivalent Connection Pipe Length		ft.	98 3/8'
R410A Refrigerant Charge		oz	28.2
Total Capacity of Indoor Units			50%-135% of Outdoor Unit Capacity
Maximum number of IDU			2
Connection Method			Flare Connection
Net weight		lb	121

NOTICE!

- Units conform to design standard: ARI 210/240.
- Specifications may be changed due to product improvement. Please refer to nameplates of the units.
- Noise data is collected from a semi-anechoic room. Decibels may be slightly higher in actual operation due to environmental change.
- Refrigerant charge volume listed in the table is based on the condition where indoor and outdoor units are at a same level and with no connection pipe. Supplementary refrigerant needs to be charged according to actual circumstance.

THE YMGI ADVANTAGE

Ease of Installation

All YMGI HARMONY systems use a rigid 4 piece knock-down wall sleeve. PTACs are designed to fit into a universal 42 ¼" x 16 ¼" opening. TTWA's fit into a standard 26" x 15.6" x 21.5" sleeve. Grilles are mounted to the wall sleeve, and secured from the inside.

A condensate drain kit can optionally be installed on heat pump models to accommodate easy drainage during winter. Most systems come with an LCDI cord or can be plugged into a wall outlet. They can also be hardwired to a dedicated disconnect switch.

Professionally trained YMGI-certified technicians can properly install your system, ensuring your system provides you with a lifetime of worry-free comfort.

Technical Support

YMGI offers full technical support for all heating and cooling systems. If you have any questions about the operation of your unit, please consult your owner's manual. It will help you understand unit operation, various functions, and proper operation and maintenance of your system.

If your HVAC technician has any questions about installation or service, we provide technical assistance at **866-833-3138 ext.703**.



Customer Service

When you or your technician calls YMGI hotlines, you will always talk to a live person. Along with our commitment to quality, customer service is the most important part of our business. Our goal is to exceed your expectations. We value each and every customer.

YMGI Group
601 Arrow Ln
O'Fallon, Missouri 63366
Phone: 1-866-833-3138
Fax: 1-866-377-3355

Sales:
sales@ymgigroup.com

Technical Support:
techsp@ymgigroup.com

Service & Warranty:
customerservice@ymgigroup.com





Warranty

If you aren't satisfied, neither are we. Proper installation matters greatly to the performance and lifespan of your system. Having your system installed by a qualified HVAC installer is the first step.

If you do experience an issue with your unit, please contact YMGI's customer service or technical support. If you do not receive a prompt response, you can call our 24 hour 7 days a week toll free number at 1-866-833-3138 ext. 704 or email us at customerservice@YMGIgroup.com.

To expedite service, please have a copy of your purchase invoice number, contractor installation invoice, unit model number and serial number, a full description of your problem, along with any photos or information or error codes that will help us resolve your issue as quickly as possible.

Credentials & 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

Quality & More Stylish Looks

YMGI units have clean, modern styling and complement any decor.

Thoroughly Tested Before Packaging

Each YMGI system is tested individually, and are packaged only after all safety, operational functions, features and cosmetic details have passed inspection. Our strict quality control tests follow standards that are some the highest of the industry.

Reliable Quality

YMGI products are designed using the latest technology and always keep the end user in mind. Using only highest quality parts, each YMGI unit is built to last. Best of all, every YMGI system is backed by our professional technical support and troubleshooting guidance team.

ENERGY STAR®

ENERGY STAR® is the trusted, government-backed symbol for energy efficiency.. The ENERGY STAR label was established to encourage consumers to identify and purchase energy-efficient products that offer savings on energy bills without sacrificing performance, features, or comfort.



ENERGY STAR

Our DC INVERTER systems, along with many other YMGI products, are ENERGY STAR® qualified with up to a 22SEER rating or higher. The Energy Star label guarantees a product meets or exceeds the guidelines of the ENERGY STAR® program.



IF HOSPITALITY IS YOUR BUSINESS MAKE YMGI YOUR PARTNER



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**
(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.
- **Symphony HARMONY-Packaged Self-Contained 42"x16"**
PTAC/PTHP Electric Heater or Hot Water Coil, and VPAK
- **Symphony CONDUCTOR-Split Type Condensing Units Side Discharge**
VRUO & VRFO

YMGI Group

601 Arrow Ln, O'Fallon, MO 63366

www.ymgigroup.com

Tel: 866-833-3138 • Fax: 866-377-3355

Email: info@YMGIGroup.com

Sales Representative or Distributor: