



# ENGINEERING SUBMITTALS-

## 2010.08.26

### WALL MOUNT MINI SPLIT (WMMS) -SINGLE ZONE –DC INVERTER AC & HEAT PUMP-09, 12, 18, 24K Btu/h -- **Up to 22 SEER-Series M6**

#### Introduction

Wall mount mini split (WMMS) is one type of ductless systems YMGI manufactures. Products are designed for high performance, easy installation and service.

As the name reads, the single-zone WMMS system consists of 1 indoor unit and 1 outdoor unit. The indoor unit is hung on the wall via a wall bracket. It also comes with a remote controller as default. Line controller and wall mount thermostat controllers are optional. The outdoor unit is designed for horizontal venting, which makes condenser installation at tight place a piece of cake. Air is drawn through the coil from rear side of the unit and then discharged to the front horizontally. These units are perfect choice for apartments, condos, lofts, multi-families and high-rise buildings in residential, commercial, institutional, industrial and other applications.

With the most mini split models being developed and sold in the world, our products bring the owners and installers with a wide variety of applications and installation flexibilities.

Acoustically and thermally balanced design and systematically optimized system give each unit a healthy birth off the assembly line with quality and reliability. Each unit is fully tested with to keep unit from any possible component or system issue, while being filled with peace and satisfaction for customers all around the world.



#### Standard Features

- 115 or 208-230/1/60 power input
- Cooling only and/or heat pump
- **DC Inverter technology**
- High efficiency and quiet operation
- Wide working ambient ranges
- Fancy indoor unit digital display
- Stylish out-looking
- Remote controller



- Compact outdoor unit- side discharge
- Outdoor unit-pre-charged.
- World-class compressors- Sanyo, Panasonic, Toshiba...
- Heavy powder coated cabinet
- Default flare brass connection valves
- Knock-out for ref. pipes and wires
- Built to ETL/UL/CSA/ARI standards
- Easy installation and maintenance



#### System Options

- Indoor unit-Variou Color
- Indoor unit-HEPA filter, UV light
- Outdoor unit-pre-treated coil

#### Accessories

Copper line set, wire cables, wind baffle, Copper line set cover, brackets, risers...

**ENGINEERING SUBMITTALS-WMMS(SINGLE ZONE)-DC Inverter Inverter**



**Model-Thermal and Electrical Data**

Model	Rated MBH	Sensible Heat Ratio	MBH @ 47F/17F/6F	Power V/Ph/Hz	OD Motor-DC		Compressor		Total Amps.		Min. Wire Gauge Sizes		HVAC Circuit Breaker/Fuse
					FLA	Watts	RLA	LRA	AC	HP	ID-OD	OD-Disconnect	
09K	9.0	0.72	9.5/8.6/7.8	115 or 208-230	0.17	40	4.59	33	7.0/3.2	7.5/3.5	16 AWG	14 AWG	20 AMP
12K	12.0	0.72	13.0/11.0/8.9	208-230	0.17	40	4.59	33	11/5.2	12.5/6.0	16 AWG	14 AWG	25 AMP
18K	18.0	0.72	25/16.4/14.5	208-230/1/60	0.62	60	8.4	41	12.0/7.5	12.6/7.7	16 AWG	14 AWG	20 AMP
24K	24.0	0.71	26/17.8/15.4	230/1/60	0.90	90	8.4	41	12.7/8.2	13.2/8.6	16 AWG	14 AWG	25 AMP

**Notes:**

- 1) MBH-1000 But/h. FLA-Full load amp. RLA-Rated load amp. LRA-Locked rotor amp. AC-Air conditioning. HP-Heat pump. ID-indoor unit. OD-Outdoor unit; 2) Standard cooling capacity is rated at indoor 80/67F, outdoor 95F, 25' copper pipe length with 7ft ID/OD elevation difference; 3) Standard heat pump heating capacity is rated at indoor 70/60F, outdoor 47/43F, 25' copper pipe length with 7ft ID/OD elevation difference.

**Model-Physical Data (Indoor Unit)**

Model	Liq. Line	Gas Line	Wire Connections	Weight (LB)		Dimensions W x H x D (In)		Condensate Pipe	
				Net	Gross	Unit	Package	ID/OD	Length (Ft)
09K	1/4"	3/8"	Inside Control Box and/or At the Rear Side of the Indoor Unit	24	31	33.3x 10.8 x 7.1	36.0 x 14.0 x 10.0	1/2, 3/4	5-6
12K	1/4"	3/8"		24	31	33.3x 10.8 x 7.1	36.0 x 14.0 x 10.0		
18K	1/4"	1/2"		28.7	37.5	37.0x 11.7 x 7.9	39.8 x 15.0 x 11.2		
24K	1/4"	5/8"		35.3	46.3	39.7 x 12.4 x 8.6	42.2 x 15.6 x 12.3		

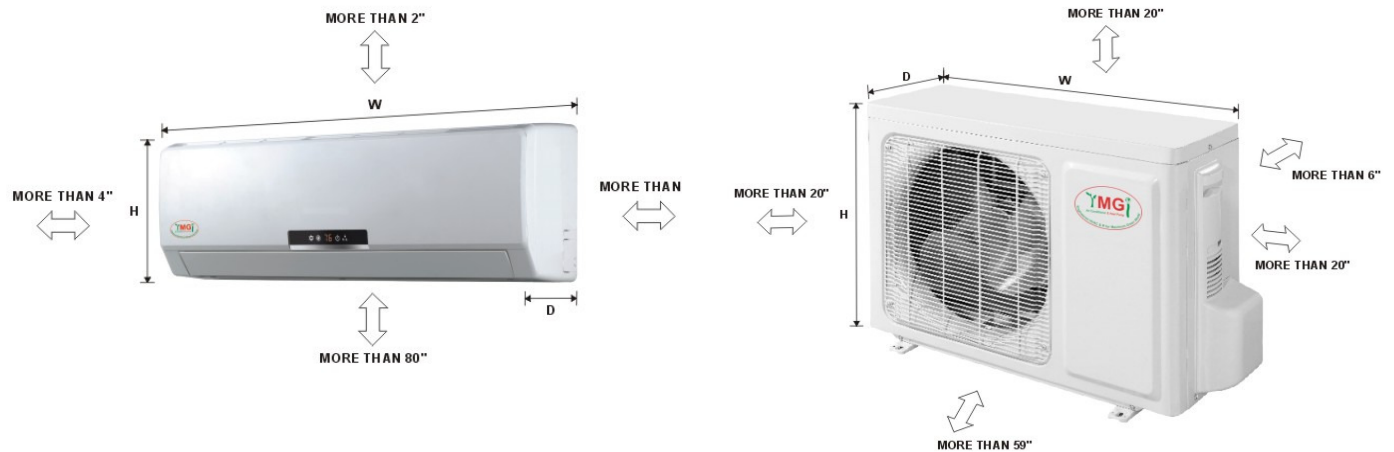
**Model-Physical Data (Outdoor Unit)**

Model	Liq. Line	Gas Line	Wire Knock-out @	Recommended Pipe Length				Weight (LB)		Dimensions W x H x D (In)	
				Min.	Max.	Lift	Drop	Net	Gross	Unit	Package
09K	1/4"	3/8"	Refrigerant Pipe Side, Top, Close to Handle	15	70	35	45	79	90	33.4x 21.3 x 12.6	34.6x 22.8 x 14.2
12K	1/4"	3/8"		15	75	35	45	88	97		
18K	1/4"	1/2"		15	100	50	60	110	121	35.0x27.6x13.4	40.6 x 28.9 x 18.1
24K	1/4"	5/8"		15	100	50	60	132	119	36.2x31.1x14.4	41.9 x 33.1 x 19.0

**Notes:**

- 1) Outdoor unit is pre-charged for 25' copper pipe (indoor unit 7' above outdoor unit); 2) May need to enlarge copper pipe size and adjust refrigerant charge by pressure/temperature (superheat) on job site, if longer pipe is needed.

**Installation Clearance Requirements-Indoor and Outdoor Units**



**Important Notes:** structure or appearance of the indoor unit and/or outdoor unit may change from time to time, for marketing purpose.

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