



# 16 SEER



## DC INVERTER-SINGLE ZONE (57) Symphony Solo 09K, 12K, 18K, 24K

### World-Class Compressors and Advanced Adaptive Control



#### Name Few Advantages over Central Systems:

- \* Eliminate health threats from dust or mold or fungus which hide and grow in central duct system
- \* Lower noise for better and more comfort
- \* Zone control and high energy efficiency help save much of your utility payment
- \* Removable (by professional), if needed, to go wherever you direct to



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

#### APPLICATIONS:

- \* LIBRARIES
- \* HOTELS
- \* HOMES
- \* SUNROOMS
- \* CONDOS
- \* RESORTS
- \* GALLERIES
- \* NURSING HOMES
- \* APARTMENTS
- \* OFFICES
- \* RESTAURANTS
- \* MOBILE HOMES

#### FEATURES:

- \* DC INVERTER
- \* ADAPTIVE SMART CONTROL
- \* HIGH EFFICIENCY
- \* QUICK COOLING AND HEATING
- \* INDEPENDENT DEHUMIDIFICATION
- \* INTELLIGENT DEFROSTING
- \* QUIET OPERATION
- \* SOFT START
- \* LOW VOLTAGE START
- \* STABLE OPERATION AT LOW FREQUENCY
- \* RANDOM PITCH CROSS FLOW FAN WHEEL
- \* WIDE ANGLE AIR DISTRIBUTION
- \* LONG AIR THROW
- \* WASHABLE FILTER
- \* AUTO DRYING & CLEANING
- \* DRY ANTI-MOLD COIL
- \* REMOTE CONTROL
- \* 12 OR 24-HOUR TIMER
- \* MEMORIES & AUTO RESTART
- \* PRE-HEATING PRIOR TO HEATING START
- \* OVERCORRECT & THERMAL PROTECTION
- \* SLEEP MODE
- \* ENHANCED COPPER/COIL
- \* PRE-CHARGED
- \* DIGITAL DISPLAY (LIGHT ON/OFF)
- \* EASY OPERATION
- \* EASY DIAGNOSIS & TROUBLE-SHOOTING
- \* THOROUGHLY TESTED
- \* RELIABLE QUALITY

#### ADD-ON ACCESSORIES:

- \* ADVANCED HEALTHY KIT (HEPA/Enzyme/Cold Catalyst Filter, Anion Generator)
- \* "U-TOUCH" REMOTE CONTROL
- \* REMOTE CONTROL LOCK
- \* BRACKETS (FOR OUTDOOR UNIT)
- \* FOOT RISERS (FOR OUTDOOR UNIT)
- \* COPPER/WIRE/ACC.SET (ACC. KIT)
- \* LINESSET COVERS
- \* WINTER WIND BAFFLE



Bracket for Outdoor Unit



Foot Riser for Outdoor Unit



Copper Lineset Covers



Accessory Kit (Copper/Wiring Set, Piping Wrap, Wall Sleeve, Putty, Drain Hose)

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## Product Specifications

1	System Model (Indoor Unit and Outdoor Unit)	--	WMMS-09K-V2A(57)2	WMMS-12K-V2A(57)2	WMMS-18K-V2B(57)3	WMMS-24K-V2B(57)3
2	Power Supply	V/Ph/Hz	115/1/60	115/1/60	208-230/1/60	208-230/1/60
3		Connection	Circuit Breaker-Disconnect Switch-Outdoor-Indoor Unit			
4	Standard/ Min. /Max. Cooling Capacities	Btu/h	9000 /3,500 /11,000	11800 /3,300 /12,500	18000 /4,500 /21,000	22000 /6,400 /24,000
5	Standard/ Min. /Max. Heating Capacities	Btu/h	9800 /2,500 /11,000	13000 /3,400 /13,500	19200 /4,000 /23,000	26600 /4,100 /26,600
6	Standard/ Min. /Max. Cooling Power Input	W	750 /220/1,100	1260 /260 /1,340	1620 /200 /2,400	2,200 /300 /2,550
7	Standard/ Min. /Max. Heating Power Input	W	830 /230 /1,230	1,320 /250 /1,360	2,600 /300 /2,600	2,800 /320 /2,800
8	Cooling /Heating Current	Amp.	9 /9.5	15 /15.5	7.85 / 7.10 11.77 / 10.65	11.50 / 10.50 13.00 / 12.80
9	Rated Power Input	W	1230	1360	2600	2800
10	Min. Current (MCA)	Amp.	12.2	19.2	14.3	16.6
11	Max. Over Current Protection	Amp.	20	25/ 30	20	25/ 30
12	EER /COP /SEER /HSPF	Btu/h.W	12/12/16/8.6	9.4/9.8/16/8.6	11.1/8.0/16.0/8.0	10.0/10.0/16.0/9.5
13	Air Flow Volume-Indoor Unit	CFM	330 / 277 / 224 / 188	341 / 288 / 235 / 200	471 / 400 / 330 / 271	589 / 441 / 306 / 206
14	Dehumidifying Capacity	Pints /Day	1.69	2.96	3.8	4.5
15						
16	<b>Indoor Unit Model</b>	--	<b>WMMS-09E-V2A(57)2</b>	<b>WMMS-12E-V2A(57)2</b>	<b>WMMS-18E-V2B(57)3</b>	<b>WMMS-24E-V2B(57)3</b>
17	Fan Type	--	Cross-flow	Cross-flow	Cross-flow	Cross-flow
18	Fan Wheel Diameter x Length (DxL)	Inch	φ3 3/5 × 23 2/5	φ 3 3/5 × 23 2/5	φ 3 6/7 × 25 3/5	φ 3 6/7 × 30 1/8
19	Cooling Speed SH/HML	RPM	1300 /1100 /900 /700 /-	1350 /1150 /950 /750 /-	1400 /1150 /1000 /850	1350 /1150 /1000 /850
20	Heating Speed SH/HML	RPM	1300 /1140 /980 /820 /-	1350 /1190 /1020 /850 /-	1450 /1250 /1100 /950	1350 /1150 /1000 /900
21	Fan Motor Power Output	W	10	10	20	35
22	Fan Motor RLA	Amp.	0.38	0.38	0.32	0.31
23	Fan Motor Capacitor	μF	4	4	1.5	2.5
24	Ele. Heater	W	NA	NA	NA	NA
25	Evaporator Type	--	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
26	Evaporator Pipe Diameter	Inch	φ 3/10	φ 3/10	φ 3/10	φ 3/10
27	Evaporator Row-Fin Gap	Inch	2-3/50	2-3/50	2-7/127	2-7/127
28	Evaporator Coil W × H × D	Inch	24×11 3/5×1	24×11 3/5×1	25 13/15×12×1	512/17×27X1
29	Swing Motor Model	--	MP24BA	MP24BA	MP28VB	MP35XX
30	Swing Motor Power Output	W	2	2	2	2
31	Fuse Location-Size	Amp.	PCB 3.15 Transformer 0.2	PCB 3.15 Transformer 0.2	PCB 3.15 Transformer 0.2	PCB 3.15 Transformer 0.2
32	Set Temperature Range	°F	60.8~86	60.8~86	60.8~86	60.8~86
33	Sound Pressure Level	dB (A)	41 /37 /35 /32	43 /39 /35 /32	48 /43 /38 /34	49 /43 /39 /34
34	Sound Power Level	dB (A)	51 /47 /45 /42	53 /49 /45 /42	58 /53 /48 /43	59 /53 /49 /44
35	Dimension of Unit (W × H × D)	Inch	30.3 × 11.1 × 7.9	30.3 × 11.1 × 7.9	34.1 × 12.0 × 8.5	39.7 × 12.4 × 8.7
36	Dimension of Carton Box (W × H × D)	Inch	33.2 × 13.5 × 10.3	33.2 × 13.5 × 10.3	37.2 × 15.0 × 11.6	42.2 × 15.6 × 12.3
37	Net /Gross Weight	LBS	18.7 /25.4	18.7 /25.4	27.0 /35.3	33.1 /44.1
38	<b>Outdoor Unit Model</b>	--	<b>WMMS-09C-V2A(57)2</b>	<b>WMMS-12C-V2A(57)2</b>	<b>WMMS-18C-V2B(57)3</b>	<b>WMMS-24C-V2B(57)3</b>
39	Compressor Trade mark	LD	LD	LD	MITSUBISHI	SANYO
40	Compressor Model	--	QXA-A091ZE190	QXA-A091ZE190	SNB130F GY MC	C-6RZ146H1A
41	Compressor Oil	--	FVC68D	FVC68D	FV50S	FV50S
42	Compressor Type	--	Rotary	Rotary	Rotary	Rotary
43	Compressor LRA	Amp.	18.60	18.60	27.00	41
44	Compressor RLA	Amp.	6	6	10.86	8.38
45	HVAC Type Circuit Breaker	Amp.	20	20	30	30
46	Compressor Power Input	W	980	980	2500	1630
47	Compressor Overload Protector	--	1NT11L-6233	1NT11L-6233	1NT11L-6578	1NT11L-3979
48	Fan Type	--	Axial-flow	Axial-flow	Axial-flow	Axial-flow
49	Fan Blade Diameter	Inch	φ15 3/4	φ15 3/4	φ 20 1/2	φ 20 1/2
50	Fan Motor Speed	RPM	900 / 850	900 / 850	690	690
51	Fan Motor Power Output	W	30	30	60	60
52	Fan Motor RLA	Amp.	0.18	0.18	0.62	0.59
53	Fan Motor Capacitor	μF	NA (DC)	NA (DC)	3.5	3.5
54	Condenser Form	--	Aluminum Fin-Copper Tube	Aluminum Fin-Copper Tube	Aluminum Fin-Copper Tube	Aluminum Fin-Copper Tube
55	Condenser Pipe Diameter	Inch	φ 2/7	φ 2/7	φ 2/7	φ 2/7
56	Condenser Rows-Fin Gap	Inch	2-3/50	2-3/50	2-7/127	2-7/127
57	Condenser Coil LxDxW	Inch	29 5/7 × 1 × 19 1/2	29 5/7 × 1 × 19 1/2	32 20/21 × 1 1/2 × 26	32 20/21 × 1 1/2 × 26
58	Max. Pressure for the Discharge Side	PSIG	623.5	623.5	623.5	623.5
59	Max. Pressure for the Suction Side	PSIG	362.5	362.5	362.5	362.5
60	Cooling Operation Outdoor Ambient Temperature Ranges	°F	64.4~113	64.4~113	55~118	55~114.8
61	Heating Operation Outdoor Ambient Temperature Ranges	°F	5~75	5~75	5~75	5~75.2
62	Throttling Method	--	Electron Expansion Valve	Electron Expansion Valve	Capillary	Electron Expansion Valve
63	Defrosting Method	--	Automatic Defrosting	Automatic Defrosting	Automatic Defrosting	Automatic Defrosting
64	Climate Type /Zone	--	T1 /Sub-Tropical Zone	T1 /Sub-Tropical Zone	T1 /Sub-Tropical Zone	T1 /Sub-Tropical Zone
65	Isolation /Moisture Protection	--	I /IP24	I /IP24	I /IP24	I /IP24
66	Sound Pressure / Power Level	dB (A)	53 /63	55 /65	56 /66	53 /63
67	Dimensions of Unit (W × H × D)	Inch	33.4 × 12.6 × 21.3	33.4 × 12.6 × 21.3	37.6 × 15.6 × 27.6	37.6 × 15.6 × 27.6
68	Dimensions of Carton Box (W × H × D)	Inch	34.6 × 14.2 × 22.9	34.6 × 14.2 × 22.9	40.4 × 17.9 × 28.9	40.4 × 17.9 × 28.9
69	Net /Gross Weight	LBS	68.4 /77.2	68.4 /77.2	106 /117	115 /126
70	Refrigerant Name	--	R410A	R410A	R410A	R410A
71	Refrigerant Factory Charge	OZs	35.30	35.3	45.86	54.7
72	Length without Adjusting Refrigerant	Ft.	25	25	25	25
73	Additional Refrigerant Charge	OZs/Ft	0.2	0.2	0.2	0.215
74	Outer Diameter of Liquid Pipe	Inch	1/4"	1/4"	1/4"	1/4"
75	Outer Diameter of Gas Pipe	Inch	3/8"	3/8"	1/2"	1/2"
76	Max. Allowed ID-OD Elevation Difference	Ft.	32.8	32.8	33	32.8
77	Max. Allowed ID-OD Distance/Length	Ft.	65.6	65.6	82	82
77	<b>Loading Qty.</b>	( 20' / 40' GP / 40' HQ )	Systems	101 / 218 / 252	62 / 131 / 149	59 / 123 / 142

- Notes:**  
 1. Performance rated for matched system at standard conditions-cooling ID 80/67F, OD 95F; heating ID 70/60F, OD 47/43F. Unit performance varies when weather changes from the standard one.  
 2. Select equipment capacity sizes per space load calculation schedule and cooling & heating hours. Not to over size or under size equipment.  
 3. Watch unit operation during extreme weather conditions in summer and winter. wind baffle helps system cooling & heating performance in low ambient temperature ranges.

**YMGI Group**, POB 1559  
 O'Fallon, MO 63366, USA  
 Tel:(866)833-3138 Fax:(866)377-3355  
 Web Site: www.ymgigroup.com  
 Email: info@ymgigroup.com

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