

SAMPLE SIZE COMBINATIONS AND PERFORMANCE DATA

| WMMS-30CH-V2B(59)2- Cooling Performance Nominal | | | | | | | |
|---|----------------|--------|--------|--------|--------|-----------------------------------|--------------------------------------|
| Indoor Unit Combinations | Total Capacity | Room A | Room B | Room C | Room D | Capacity Rating-Btu/h (Min.~Max.) | Input Power Rating-Watts (Min.~Max.) |
| 9K | 9K | 10880 | | | | 10880 (9180~12240) | 1050 (1000~1300) |
| 12K | 12K | 11900 | | | | 11900 (9180~14960) | 1050 (1000~1500) |
| 18K | 18K | 17000 | | | | 17000 (11220~22780) | 1400 (1000~2600) |
| 9+9K | 18K | 8500 | 8500 | | | 17000 (11220~22780) | 1400 (1000~2600) |
| 9+12K | 21K | 8500 | 11900 | | | 20400 (11220~26520) | 1800 (1000~3300) |
| 12+12K | 24K | 11900 | 11900 | | | 23800 (11220~27880) | 2300 (1000~3800) |
| 9+18K | 27K | 8840 | 15300 | | | 24140 (11220~32300) | 2200 (1000~4600) |
| 12+18K | 30K | 11900 | 12240 | | | 24140 (11220~32300) | 2200 (1000~4600) |

| WMMS-36CH-V2B(59)2- Cooling Performance Nominal Data | | | | | | | |
|--|----------------|--------|--------|--------|--------|-----------------------------------|--------------------------------------|
| Indoor Unit Combinations | Total Capacity | Room A | Room B | Room C | Room D | Capacity Rating-Btu/h (Min.~Max.) | Input Power Rating-Watts (Min.~Max.) |
| 9+9K | 18K | 8500 | 8500 | | | 17000 (11220~22780) | 1400 (1000~2600) |
| 9+12K | 21K | 8500 | 11900 | | | 20400 (11220~26520) | 1800 (1000~3300) |
| 12+12K | 24K | 11900 | 11900 | | | 23800 (11220~27880) | 2300 (1000~3800) |
| 9+18K | 27K | 8840 | 15300 | | | 24140 (11220~32300) | 2200 (1000~4600) |
| 12+18K | 30K | 11900 | 12240 | | | 24140 (11220~32300) | 2200 (1000~4600) |
| 9+9+9K | 27K | 8075 | 8075 | 8075 | | 24140 (11220~32300) | 2200 (1000~4600) |
| 9+9+12K | 30K | 7140 | 7140 | 9860 | | 24140 (11220~32300) | 2200 (1000~4600) |
| 9+12+12K | 33K | 6460 | 8840 | 8840 | | 24140 (11220~32640) | 2200 (1000~4650) |
| 12+12+12K | 36K | 8075 | 8075 | 8075 | | 24140 (11220~32640) | 2200 (1000~4650) |
| 9+9+18K | 36K | 7480 | 7480 | 9180 | | 24140 (11220~32640) | 2200 (1000~4650) |
| 9+12+18K | 39K | 7140 | 7820 | 9180 | | 24140 (11220~32640) | 2200 (1000~4650) |
| 12+12+18K | 42K | 7820 | 7820 | 8500 | | 24140 (11220~32640) | 2200 (1000~4650) |

| WMMS-42CH-V2B(59)2- Cooling Performance Nominal Data | | | | | | | |
|--|----------------|--------|--------|--------|--------|-----------------------------------|--------------------------------------|
| Indoor Unit Combinations | Total Capacity | Room A | Room B | Room C | Room D | Capacity Rating-Btu/h (Min.~Max.) | Input Power Rating-Watts (Min.~Max.) |
| 9+9K | 18K | 8500 | 8500 | | | 10880 (9180~12240) | 1400 (1000~2600) |
| 9+12K | 21K | 8500 | 11900 | | | 11900 (9180~14960) | 1800 (1000~3300) |
| 12+12K | 24K | 11900 | 11900 | | | 20400 (11220~26520) | 2200 (1000~4600) |
| 9+18K | 27K | 8840 | 15300 | | | 17000 (11220~22780) | 2300 (1000~3800) |
| 12+18K | 30K | 11900 | 12240 | | | 17000 (11220~22780) | 2200 (1000~4600) |
| 9+9+9K | 27K | 8044 | 8044 | 8044 | | 23800 (11220~27880) | 2200 (1000~4600) |
| 9+9+12K | 30K | 7140 | 7140 | 9860 | | 24140 (11220~32300) | 2200 (1000~4600) |
| 9+12+12K | 33K | 6460 | 8840 | 8840 | | 24140 (11220~32300) | 2200 (1000~4650) |
| 9+9+18K | 36K | 7480 | 7480 | 9180 | | 24140 (11220~32300) | 2200 (1000~4650) |
| 9+12+18K | 39K | 7140 | 7820 | 9180 | | 24140 (11220~32640) | 2200 (1000~4650) |
| 12+12+18K | 42K | 7820 | 7820 | 8500 | | 24140 (11220~32640) | 2200 (1000~4650) |
| 9+9+9+9K | 36K | 6800 | 6800 | 6800 | | 24140 (11220~32640) | 2480 (1000~4650) |
| 9+9+9+12K | 39K | 1750 | 1750 | 1750 | 2750 | 24140 (11220~32640) | 2480 (1000~4650) |
| 9+9+12+12K | 42K | 1500 | 1500 | 2500 | 2500 | 24140 (11220~32640) | 2480 (1000~4700) |
| 9+12+12+12K | 45K | 1700 | 2100 | 2100 | 2100 | 27200 (11220~32640) | 2480 (1000~4700) |

| WMMS-30CH-V2B(59)2- Heating Performance Nominal Data | | | | | | | |
|--|----------------|--------|--------|--------|--------|-----------------------------------|--------------------------------------|
| Indoor Unit Combinations | Total Capacity | Room A | Room B | Room C | Room D | Capacity Rating-Btu/h (Min.~Max.) | Input Power Rating-Watts (Min.~Max.) |
| 9K | 9K | | 9860 | | | 9860 (6630~15980) | 1100 (850~2450) |
| 12K | 12K | | | 13260 | | 13260 (6800~17000) | 1450 (850~2500) |
| 18K | 18K | 19720 | | | | 19720 (8670~27880) | 1850 (900~2950) |
| 9+9K | 18K | 10880 | 10880 | | | 21760 (8670~29240) | 2050 (900~2950) |
| 9+12K | 21K | 10880 | 13600 | | | 24480 (8670~30600) | 2300 (900~3300) |
| 12+12K | 24K | 13260 | 13260 | | | 26520 (10200~32640) | 2400 (900~3500) |
| 9+18K | 27K | 12240 | 17000 | | | 28860 (10200~31620) | 2400 (900~3500) |
| 12+18K | 30K | 12240 | 15300 | | | 27540 (10540~33660) | 2600 (900~3800) |
| 9+9+9K | 27K | 9632 | 9632 | 9632 | | 28900 (10540~37400) | 2600 (900~3800) |
| 9+9+12K | 30K | 9010 | 9010 | 10880 | | 28900 (10540~37400) | 2600 (900~3800) |
| 9+12+12K | 33K | 7820 | 10880 | 10880 | | 29580 (10540~37400) | 2600 (900~3800) |
| 9+9+18K | 36K | 7990 | 7990 | 13600 | | 29580 (10540~37400) | 2400 (1000~3900) |
| 12+12+12K | 36K | 9860 | 9860 | 9860 | | 29580 (10540~37400) | 2350 (1000~4000) |
| 9+12+18K | 39K | 7480 | 9180 | 12920 | | 29580 (10540~37400) | 2350 (1000~4000) |
| 12+12+18K | 42K | 8500 | 8500 | 12580 | | 29580 (10540~37400) | 2400 (1000~4000) |

| WMMS-36CH-V2B(59)2- Heating Performance Nominal Data | | | | | | | |
|--|----------------|--------|--------|--------|--------|-----------------------------------|--------------------------------------|
| Indoor Unit Combinations | Total Capacity | Room A | Room B | Room C | Room D | Capacity Rating-Btu/h (Min.~Max.) | Input Power Rating-Watts (Min.~Max.) |
| 9+9K | 18K | 10880 | 10880 | | | 21760 (8670~29240) | 2050 (900~2950) |
| 9+12K | 21K | 10880 | 13600 | | | 24480 (8670~30600) | 2300 (900~3300) |
| 12+12K | 24K | 13260 | 13260 | | | 26520 (10200~32640) | 2400 (900~3500) |
| 9+18K | 27K | 12240 | 17000 | | | 28860 (10200~31620) | 2400 (900~3500) |
| 12+18K | 30K | 12240 | 15300 | | | 27540 (10540~33660) | 2600 (900~3800) |
| 9+9+9K | 27K | 9632 | 9632 | 9632 | | 28900 (10540~37400) | 2600 (900~3800) |
| 9+9+12K | 30K | 9010 | 9010 | 10880 | | 28900 (10540~37400) | 2600 (900~3800) |
| 9+12+12K | 33K | 7820 | 10880 | 10880 | | 29580 (10540~37400) | 2600 (900~3800) |
| 9+9+18K | 36K | 7990 | 7990 | 13600 | | 29580 (10540~37400) | 2400 (1000~3900) |
| 12+12+12K | 36K | 9860 | 9860 | 9860 | | 29580 (10540~37400) | 2350 (1000~4000) |
| 9+12+18K | 39K | 7480 | 9180 | 12920 | | 29580 (10540~37400) | 2350 (1000~4000) |
| 12+12+18K | 42K | 8500 | 8500 | 12580 | | 29580 (10540~37400) | 2400 (1000~4000) |

| WMMS-42CH-V2B(59)2- Heating Performance Nominal Data | | | | | | | |
|--|----------------|--------|--------|--------|--------|-----------------------------------|--------------------------------------|
| Indoor Unit Combinations | Total Capacity | Room A | Room B | Room C | Room D | Capacity Rating-Btu/h (Min.~Max.) | Input Power Rating-Watts (Min.~Max.) |
| 9+9K | 18K | 10880 | 10880 | | | 21760 (8670~27880) | 2050 (900~2950) |
| 9+12K | 21K | 10880 | 13600 | | | 24480 (8670~28900) | 2300 (900~3300) |
| 12+12K | 24K | 13260 | 13260 | | | 27540 (10540~33660) | 2400 (900~3500) |
| 9+18K | 27K | 9860 | 17000 | | | 26520 (10200~31620) | 2400 (900~3500) |
| 12+18K | 30K | 12240 | 15300 | | | 26860 (10200~31620) | 2400 (1000~3900) |
| 9+9+9K | 27K | 9180 | 9180 | 9180 | | 27540 (10540~33660) | 2400 (1000~4000) |
| 9+9+12K | 30K | 8500 | 8500 | 10540 | | 27540 (10540~33660) | 2400 (1000~4000) |
| 9+12+12K | 33K | 7480 | 10370 | 10370 | | 28220 (10540~33660) | 2450 (1000~4000) |
| 9+9+18K | 36K | 7990 | 7990 | 11560 | | 27540 (10540~33660) | 2400 (1000~4000) |
| 12+12+12K | 36K | 9690 | 9690 | 9690 | | 29070 (10540~33660) | 2500 (1000~4000) |
| 9+12+18K | 39K | 7480 | 9180 | 10880 | | 27540 (10540~33660) | 2400 (1000~4000) |
| 12+12+18K | 42K | 8500 | 8500 | 10540 | | 27540 (10540~33660) | 2400 (1000~4000) |
| 9+9+9+9K | 36K | 8160 | 8160 | 8160 | 8160 | 32640 (11220~37400) | 2600 (1100~4200) |
| 9+9+9+12K | 39K | 7480 | 7480 | 7480 | 10200 | 32640 (11220~37400) | 2600 (1100~4200) |
| 9+9+12+12K | 42K | 7140 | 7140 | 9180 | 9180 | 32640 (11220~37400) | 2600 (1100~4200) |
| 9+12+12+12K | 45K | 6120 | 8840 | 8840 | 8840 | 32640 (11220~37400) | 2600 (1100~4200) |

Important Notes:

- In DC inverter multiple zone system, not all indoor units will need to work at rated capacity all the time. Zoning capability of mini split multiple system is one of the reasons it has higher energy efficiency than central system.
- Instructions for selecting multiple-zone indoor and outdoor unit models, following these steps in a sequence:**
 - The installing HVAC contractor checks job site, collects all info. and uses commercially available cooling/heating load calculation program such as Wrightsoft Manual J to calculate each room's design cooling load and design heating load.
 - Select the unit model of the most closest standard rating for each room. Keep in mind: HVAC equipment's cooling capacity/efficiency drops as ambient temperature rises, while its heating output capacity/efficiency drops as ambient temperature drops. Need to select a 2nd source heater as back-up heating to make up or replace heat pump during some cold hours when heat pump is not able to generate enough heat.
 - Divide all rooms into # of thermal zones. In each thermal zone, all indoor units will be used working at standard capacity ratings most of time.
 - Add up all the standard rating capacities of all indoor units in each thermal zone, and then find out the largest Zone Sub-total capacity.
 - Then use the Sub-total capacity found in step D to match outdoor unit model that has the closest stand rating capacity.

Example 1: A remodeling house project has 4 rooms A, B, C, D.
 Zone 1: A 17,200 Btu/h design load pick 18K indoor unit, B 10,400 Btu/h design load pick 12K indoor unit, Sub-total for zone 1=18K+12K=30K.
 Zone 2: C 9,100 Btu/h design load pick 09K indoor unit, D 12,800 Btu/h design load pick 12K indoor unit, Sub-total for zone 2=9K+12K=21K.
 30K>21K, so outdoor unit WMMS-48CH-V2B(59)2 is the 1st choice and WMMS-42CH-V2B(59)2 the 2nd if pipes are less than 4x25'=100ft.

Example 2: If all indoor units need to run at rating capacities ALL THE TIME(A,B,C,D are in one zone), then WMMS-60CH-V2B(59)2 should be selected.
- All indoor units must work in same thermal mode. Shall not run cooling in one unit and heating in another one, or mode conflict error code E7 shows up.

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YMG Group, POB 1559, YMG Group (New Energy), POB 1668 O'Fallon, MO 63366, USA Tel:(866)833-3138 Fax:(866)377-3355 Web Site: www.ymggroup.com Email: info@ymggroup.com



SYMPHONY-CHOIR (59)2 DC Inverter Any Mix & Match-II

1 Outdoor Unit, to Work with Up to 5 Indoor Units

More Than 130 Indoor Unit Type/Size Combinations, of Four Styles: Wall, Ceiling, Ceiling/Floor, and Recessed Fan Coil Unit (Low Profile) Crankcase Heater and/or De-ice/Snow Heater, Low Ambient Control for a Better Performance in Cold Weather

MANY ADVANTAGES OVER CONVENTIONAL CENTRAL SYSTEMS:

- * Eliminate health issues from dust, mold or fungus which exists in central duct systems
- * Reduce noise for quiet operation and more comfort
- * Zone control and high energy efficiency to help save utility bills
- * Removable by professional, if needed, to new location

INDOOR UNIT OPTIONS (Run Same Mode on All Indoor Units)



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

APPLICATIONS:

- * LIBRARIES
- * HOTELS
- * HOMES
- * SUNROOMS
- * CONDOS
- * RESORTS
- * GALLERIES
- * NURSING HOMES
- * APARTMENTS
- * OFFICES
- * RESTARAUNTS
- * 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)
- * LINESET COVERS
- * WINTER WIND BAFFLE



INDOOR UNIT-ANY ONE OR FEW OF FOLLOWING CONFIGURATIONS (TO CONNECT TO OUTDOOR UNIT)

INDOOR UNIT OPTION-CEILING MOUNT CASSETTE



EC

Notes:
Unit Appearance and Specifications Are Subject to Change for Continuous Improvement without Any Prior Notice.

| Items | Unit / Conditions | WMMS-12EC-V2B(59)2 | WMMS-18EC-V2B(59)2 | WMMS-24EC-V2B(59)2 |
|------------------------------------|-------------------------|--|--------------------|--------------------|
| Power Supply | Voltage/Ph/Hz | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 |
| | Allowed Voltage Range | 187-253V | 187-253V | 187-253V |
| Cooling Capacity (Btu/h) | High/Standard/Low | 13900/12000/5200 | 20800/17200/6200 | 26500/22800/9600 |
| | ID 70/60, OD 47/43F | 13000 | 18100 | 27400 |
| | ID 70/60, OD 17/15F | 11600 | 16200 | 23800 |
| Heating Capacity (Btu/h) | ID 70/60, OD 17/5F | 9000 | 13100 | 20600 |
| | Btu/h.W | 16 | 16 | 16 |
| | HSPF | 8.2 | 8.2 | 8.2 |
| Dehumidifying Capacity | Pints/Hr. | 2.96 | 3.8 | 5.28 |
| Air Flow (CFM) | High/Medium/Low | 353/312/245 | 353/312/245 | 694/522/366 |
| Air-throw (FT) | Horizontal Installation | 25-18 Upon Mounting Height/Speed/Temp. | | |
| External Static Pressure | Water In. | 0 | 0 | 0 |
| | Pressure dB(A) (H/M/L) | 39/37/35 | 39/37/35 | 45/43/41 |
| Sound Level | Power dB(A) (H/M/L) | 49/47/45 | 49/47/45 | 55/53/51 |
| | Model | FN11T-2 | FN11T-2 | FN35B-1 |
| Fan Motor | Shaft | Single | Single | Single |
| | Speed (RMP, H/M/L) | 700/600/515 | 700/600/515 | 570/520/280 |
| | Output (W) | 11 | 11 | 50 |
| | Input (W) | 50 | 50 | 165 |
| | Capacitor (uF) | 1 | 1 | 3 |
| Fan Wheel | Type-Piece | Centrifugal-1 | Centrifugal-1 | Centrifugal-1 |
| | Diameter x Height (In.) | 11.1 x 5.8 | 11.1 x 5.8 | 17.7 x 4.4 |
| Swing/Step Motor | Model | MP35CB | MP35CB | MP35CB |
| | Piece | 2 | 2 | 2 |
| Input Power of Ele. Heater | Output (W) | 2 | 2 | 2 |
| | Type-W | NA | NA | NA |
| Electrical Protection Fuse | PCB / Transformer | T3.15A 250V / 0.2A | | |
| Evaporator Coil | Type | Alu. Fin/Inner Grooved Copper Tube | | |
| | Color | Blue | Blue | Blue |
| Copper Line Connections | Sealed by Dry Nitrogen | Yes | Yes | Yes |
| | Flare/Nut-Liquid + Gas | 1/4" + 3/8" | 1/4" + 1/2" | 3/8" + 5/8" |
| Drain Hose Connection | OD (In.) | 1.22 | 1.22 | 1.22 |
| Condensate Pump | Installed-Lift (In.) | Yes-25 | Yes-25 | Yes-25 |
| Refrigerant Environmental Friendly | R410A | Yes | Yes | Yes |
| Filter | Type-Feature | Standard-Washable | Standard-Washable | Standard-Washable |
| | Size WxH (In.) - Qty. | 13.56 x 13.13 - 1 | 13.56 x 13.13 - 1 | 21.38 x 21.34 - 1 |
| Clean Coil Surface | Anti-Mildew Function | Yes | Yes | Yes |
| Pre-heating Function | Anti-Cold Blowing | Yes | Yes | Yes |
| Memory of Previous Set-ups | Power is Lost/Resumed | Yes | Yes | Yes |
| Auto-Restart Function | If Power is Resumed | Yes | Yes | Yes |
| Unit Dimensions | Net L x W x H (In.) | 22.4 x 22.4 x 9.1 | 22.4 x 22.4 x 9.1 | 33.1 x 33.1 x 9.4 |
| | Package L x W x H (In.) | 33.4 x 28.7 x 12.2 | 33.4 x 28.7 x 12.2 | 37.8 x 37.8 x 12.2 |
| | Net (LBs) | 39.7 | 39.7 | 66 |
| Unit Weight | Packaged (LBs) | 50.7 | 50.7 | 84 |
| | Net L x W x H (In.) | 25.6 x 25.6 x 2 | 25.6 x 25.6 x 2 | 37.4 x 37.4 x 2.4 |
| | Package L x W x H (In.) | 28.7 x 26.4 x 4 | 28.7 x 26.4 x 4 | 40.9 x 40.4 x 4.5 |
| Face Panel Weight | Net (LBs) | 5.5 | 5.5 | 14 |
| | Packaged (LBs) | 8.1 | 8.1 | 22 |
| Loading Capacity | 20/40/40/HQ | 102/209/246 | 102/209/246 | 72/72/144 |

INDOOR UNIT OPTION-WALL MOUNT



EW

Notes:
Unit Appearance and Specifications Are Subject to Change for Continuous Improvement without Any Prior Notice.

| Items | Unit / Conditions | WMMS-09EW-V2B(59)2 | WMMS-12EW-V2B(59)2 | WMMS-18EW-V2B(59)2 | WMMS-24EW-V2B(59)2 |
|------------------------------------|-------------------------|--|--------------------|--------------------|--------------------|
| Power Supply | Voltage/Ph/Hz | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 |
| | Allowed Voltage Range | 187-253V | 187-253V | 187-253V | 187-253V |
| Cooling Capacity (Btu/h) | High/Standard/Low | 12000/9000/4400 | 14000/12000/4500 | 21500/17000/6800 | 26500/22800/9600 |
| | Max./Min. | 12500/3400 | 14500/3800 | 22500/9500 | 28500/9800 |
| | ID 70/60, OD 47/43F | 9500 | 13000 | 18700 | 27400 |
| Heating Capacity (Btu/h) | ID 70/60, OD 17/15F | 8800 | 11600 | 16600 | 23600 |
| | ID 70/60, OD 17/5F | 8000 | 9100 | 13800 | 20600 |
| | Btu/h.W | 22-16 | 20-16 | 18-16 | 18-16 |
| HSPF | Btu/h.W | 9.8-8.2 | 9.6-8.2 | 10.2-8.2 | 10.2-8.2 |
| Dehumidifying Capacity | Pints/Hr. | 1.7 | 2.96 | 3.8 | 5.28 |
| Air Flow (CFM) | High/Medium/Low | 300/253/218 | 330/253/218 | 460/380/320 | 470/410/350 |
| Air-throw (FT) | Horizontal Installation | 35-30 Upon Mounting Height/Speed/Temp. | | | |
| External Static Pressure | Water In. | 0 | 0 | 0 | 0 |
| | Pressure dB(A) (H/M/L) | 34/30/26 | 36/32/26 | 45/42/40 | 48/46/44 |
| Sound Level | Power dB(A) (H/M/L) | 44/40/36 | 46/42/36 | 55/52/50 | 58/56/54 |
| | Model | FN20T-PG | FN20T-PG | FN20W-PG | FN25B-PG |
| Fan Motor | Shaft | Single | Single | Single | Single |
| | Speed (RMP, H/M/L) | 1050/980/920 | 1050/980/920 | 1200/1050/900 | 1150/1000/850 |
| | Output (W) | 20 | 20 | 20 | 35 |
| | RLA (AMP) | 0.2 | 0.2 | 0.25 | 0.45 |
| | Capacitor (uF) | 1 | 1 | 1.5 | 2.5 |
| Fan Wheel | Type-Piece | Cross Flow-1 | Cross Flow-1 | Cross Flow-1 | Cross Flow-1 |
| | Diameter x Width (In.) | φ 3.6 x 25.4 | φ 3.6 x 25.4 | φ 3.9 x 28 | φ 3.9 x 30 |
| Swing/Step Motor | Model | MP24AA | MP24AA | MP28VB | MP35XX |
| | Piece | 2 | 2 | 2 | 2 |
| Input Power of Ele. Heater | Output (W) | 2.4 | 2.4 | 2 | 2 |
| | Type-W | NA | NA | NA | NA |
| Electrical Protection Fuse | PCB / Transformer | T3.15A 250V / 0.2A | | | |
| Evaporator Coil | Type | Alu. Fin/Inner Grooved Copper Tube | | | |
| | Color | Blue | Blue | Blue | Blue |
| Copper Line Connections | Sealed by Dry Nitrogen | Yes | Yes | Yes | Yes |
| | Flare/Nut-Liquid + Gas | 1/4" + 3/8" | 1/4" + 3/8" | 1/4" + 1/2" | 1/4" + 5/8" |
| Drain Hose Connection | OD (In.) | 0.67 | 0.67 | 0.67 | 0.67 |
| Condensate Pump | Installed-Lift (In.) | NA | NA | NA | NA |
| Refrigerant Environmental Friendly | R410A | Yes | Yes | Yes | Yes |
| Filter | Type-Feature | Standard-Washable | Standard-Washable | Standard-Washable | Standard-Washable |
| | Qty. | 2 | 2 | 2 | 2 |
| Clean Coil Surface | Anti-Mildew Function | Yes | Yes | Yes | Yes |
| Pre-heating Function | Anti-Cold Blowing | Yes | Yes | Yes | Yes |
| Memory of Previous Set-ups | Power is Lost/Resumed | Yes | Yes | Yes | Yes |
| Auto-Restart Function | If Power is Resumed | Yes | Yes | Yes | Yes |
| Unit Dimensions | Net WxHxD (In.) | 30.3 x 9.8 x 7.5 | 32.7 x 11.2 x 7.9 | 37 x 11.7 x 7.9 | 39.7 x 12.4 x 7.9 |
| | Package WxHxD (In.) | 33.7 x 13.0 x 10.4 | 35.7 x 15.2 x 10.7 | 39.8 x 15.0 x 11.2 | 42.2 x 15.6 x 12.3 |
| | Net (LBs) | 18.7 | 24.3 | 28.6 | 35.2 |
| Unit Weight | Packaged (LBs) | 27.5 | 30.8 | 37.4 | 46.3 |
| | 20/40/40/HQ | 378/792/890 | 240/480/540 | 207/431/488 | 200/410/450 |

INDOOR UNIT OPTION-CEILING/FLOOR MOUNT UNIVERSAL



EU

Notes:
Unit Appearance and Specifications
Are Subject to Change for Continuous
Improvement without Any Prior Notice.

| Items | Unit / Conditions | WMMS-09EU-V2B(59)2 | WMMS-12EU-V2B(59)2 | WMMS-18EU-V2B(59)2 | WMMS-24EU-V2B(59)2 |
|------------------------------------|-------------------------|--|--------------------|--------------------|--------------------|
| Power Supply | Voltage/Ph/Hz | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 |
| | Allowed Voltage Range | 187-253V | 187-253V | 187-253V | 187-253V |
| Cooling Capacity (Btu/h) | High/Standard/Low | 10700/8500/4600 | 14100/11900/5900 | 21500/17000/6800 | 26500/22800/9600 |
| | ID 70/60, OD 47/43F | 9500 | 13100 | 18700 | 27400 |
| Heating Capacity (Btu/h) | ID 70/60, OD 17/15F | 8800 | 11600 | 16600 | 23600 |
| | ID 70/60, OD 17/5F | 8000 | 9100 | 13800 | 20600 |
| SEER | Btu/h.W | 16 | 16 | 16 | 16 |
| HSPF | Btu/h.W | 8.2 | 8.2 | 8.2 | 8.2 |
| Dehumidifying Capacity | Pints/Hr. | 1.7 | 2.96 | 3.8 | 5.28 |
| Air Flow (CFM) | High/Medium/Low | 383/324/265 | 383/324/265 | 559/412/294 | 736/530/412 |
| | Horizontal Installation | 35-30 Upon Mounting Height/Speed/Temp. | | | |
| Air-throw (Ft.) | Upright Installation | 35-20 Upon Mounting Location/Speed/Temp. | | | |
| | Water In. | 0 | 0 | 0 | 0 |
| External Static Pressure | Pressure dB(A) (H/M/L) | 40/38/36 | 40/38/36 | 45/42/40 | 48/46/44 |
| | Power dB(A) (H/M/L) | 50/48/46 | 50/48/46 | 55/52/50 | 58/56/54 |
| Sound Level | Model | FG10A | FG10A | FG20E | FG50A |
| | Shaft | Double | Double | Double | Double |
| | Speed (RMP, H/M/L) | 690/610/480 | 690/610/480 | 985/800/680 | 985/800/680 |
| | Output (W) | 15 | 15 | 20 | 40 |
| | Input (W) | 55 | 55 | 110 | 145 |
| Fan Motor | Capacitor (uF) | 1 | 1 | 2.5 | 2 |
| | Type-Piece | Centrifugal-2 | Centrifugal-2 | Centrifugal-4 | Centrifugal-4 |
| Fan Wheel | Diameter x Width (In.) | 5.5 x 4.1 | 5.5 x 4.1 | 5.5 x 4.1 | 5.5 x 4.1 |
| | Model | MP35CB | MP35CB | MP35CB | MP35CB |
| Swing/Step Motor | Piece | 2 | 2 | 2 | 2 |
| | Output (W) | 2 | 2 | 2 | 2 |
| Input Power of Ele. Heater | Type-W | NA | NA | NA | NA |
| Electrical Protection Fuse | PCB/Transformer | T3.15A 250V / 0.2A | | | |
| Evaporator Coil | Type | Alu. Fin/Inner Grooved Copper Tube | | | |
| | Color | Blue or the Like | Blue or the Like | Blue or the Like | Blue or the Like |
| Copper Line Connections | Sealed by Dry Nitrogen | Yes | Yes | Yes | Yes |
| | Flare/Nut-Liquid + Gas | 1/4" + 3/8" | 1/4" + 3/8" | 1/4" + 1/2" | 1/4" + 5/8" |
| Drain Hose Connection | OD (In.) | 0.67 | 0.67 | 0.67 | 0.67 |
| Condensate Pump | Installed-Lift (In.) | NA | NA | NA | NA |
| Refrigerant Environmental Friendly | R410A | Yes | Yes | Yes | Yes |
| Filter | Type-Feature | Standard-Washable | Standard-Washable | Standard-Washable | Standard-Washable |
| | Size WxH (In.) - Qty. | 21.8 x 8.68 - 2 | 21.8 x 8.68 - 2 | 21.8 x 8.68 - 2 | 21.8 x 8.68 - 2 |
| Clean Coil Surface | Anti-Mildew Function | Yes | Yes | Yes | Yes |
| Pre-heating Function | Anti-Cold Blowing | Yes | Yes | Yes | Yes |
| Memory of Previous Set-ups | Power is Lost/Resumed | Yes | Yes | Yes | Yes |
| Auto-Restart Function | If Power is Resumed | Yes | Yes | Yes | Yes |
| Unit Dimensions | Net WxHxD (In.) | 48 x 27.6 x 8.9 | 48 x 27.6 x 8.9 | 48 x 27.6 x 8.9 | 48 x 27.6 x 8.9 |
| | Package WxHxD (In.) | 52.8 x 32.3 x 11.8 | 52.8 x 32.3 x 11.8 | 52.8 x 32.3 x 11.8 | 52.8 x 32.3 x 11.8 |
| Unit Weight | Net (LBs) | 88 | 88 | 88 | 99 |
| | Packaged (LBs) | 110 | 110 | 110 | 119 |
| Loading Capacity | 20/40/40HQ | 66/132/132 | 66/132/132 | 66/132/132 | 66/132/132 |

INDOOR UNIT OPTION - FAN COIL RECESSED MOUNT



EF

Notes:
Unit Appearance and Specifications
Are Subject to Change for Continuous
Improvement without Any Prior Notice.

| Items | Unit / Conditions | WMMS-09EF-V2B(59)2 | WMMS-12EF-V2B(59)2 | WMMS-18EF-V2B(59)2 | WMMS-24EF-V2B(59)2 |
|------------------------------------|-------------------------|--|--------------------|--------------------|--------------------|
| Power Supply | Voltage/Ph/Hz | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 |
| | Allowed Voltage Range | 187-253V | 187-253V | 187-253V | 187-253V |
| Cooling Capacity (Btu/h) | High/Standard/Low | 10700/8500/4600 | 14100/11900/5900 | 21500/15300/6800 | 26500/23800/9600 |
| | ID 70/60, OD 47/43F | 9500 | 13100 | 18700 | 27400 |
| Heating Capacity (Btu/h) | ID 70/60, OD 17/15F | 8800 | 11600 | 16600 | 23600 |
| | ID 70/60, OD 17/5F | 8000 | 9100 | 13800 | 20600 |
| SEER | Btu/h.W | 16 | 16 | 16 | 16 |
| HSPF | Btu/h.W | 8.2 | 8.2 | 8.2 | 8.2 |
| Dehumidifying Capacity | Pints/Hr. | 1.7 | 2.96 | 3.8 | 5.28 |
| Air Flow (CFM) | High/Medium/Low | 260/180/150 | 320/240/180 | 410/350/295 | 590/440/320 |
| | Horizontal Installation | 25-20 Upon Mounting Height/Speed/Temp. | | | |
| Air-throw (Ft.) | Water In. | 0 | 0 | 0 | 0 |
| | Pressure dB(A) (H/M/L) | 37/34/31 | 39/35/32 | 41/37/33 | 42/38/34 |
| External Static Pressure | Power dB(A) (H/M/L) | 47/44/41 | 49/45/42 | 51/47/43 | 52/48/44 |
| | Model | FG30A | FG40A | FG60A | FG20E |
| Sound Level | Shaft | Double | Double | Double | Double |
| | Speed (RMP, H/M/L) | 970/760/640 | 960/830/700 | 920/780/720 | 985/800/680 |
| | Output (W) | 40 | 49 | 75 | 2 x 45 |
| | Input (W) | 80 | 90 | 100 | 2 x 85 |
| | Capacitor (uF) | 1 | 3 | 3 | 3 |
| Fan Motor | Type-Piece | Centrifugal-2 | Centrifugal-2 | Centrifugal-2 | Centrifugal-4 |
| | Diameter x Width (In.) | 5.5 x 5.3 | 5.5 x 5.3 | 5.5 x 5.3 | 5.5 x 5.3 |
| Fan Wheel | Model | NA | NA | NA | NA |
| | Piece | NA | NA | NA | NA |
| Swing/Step Motor | Output (W) | NA | NA | NA | NA |
| | Type-W | NA | NA | NA | NA |
| Input Power of Ele. Heater | Type-W | NA | NA | NA | NA |
| Electrical Protection Fuse | PCB/Transformer | T3.15A 250V / 0.2A | | | |
| Evaporator Coil | Type | Alu. Fin/Inner Grooved Copper Tube | | | |
| | Color | Blue | Blue | Blue | Blue |
| Copper Line Connections | Sealed by Dry Nitrogen | Yes | Yes | Yes | Yes |
| | Flare/Nut-Liquid + Gas | 1/4" + 3/8" | 1/4" + 3/8" | 1/4" + 1/2" | 1/4" + 5/8" |
| Drain Hose Connection | OD (In.) | 1 | 1 | 1 | 1 |
| Condensate Pump | Installed-Lift (In.) | NA | NA | NA | NA |
| Refrigerant Environmental Friendly | R410A | Yes | Yes | Yes | Yes |
| Filter | Type-Feature | Standard-Washable | Standard-Washable | Standard-Washable | Standard-Washable |
| | Size WxH (In.) - Qty. | 23.7 x 7.6 - 1 | 23.7 x 7.6 - 1 | 31.6 x 7.6 - 1 | 39.4 x 7.7 - 1 |
| Clean Coil Surface | Anti-Mildew Function | Yes | Yes | Yes | Yes |
| Pre-heating Function | Anti-Cold Blowing | Yes | Yes | Yes | Yes |
| Memory of Previous Set-ups | Power is Lost/Resumed | Yes | Yes | Yes | Yes |
| Auto-Restart Function | If Power is Resumed | Yes | Yes | Yes | Yes |
| Unit Dimensions | Net WxHxD (In.) | 27.6 x 24.2 x 7.9 | 27.6 x 24.2 x 7.9 | 35.4 x 24.2 x 7.9 | 43.3 x 24.2 x 7.9 |
| | Package WxHxD (In.) | 35.0 x 29.1 x 11.4 | 35.0 x 29.1 x 11.4 | 44.0 x 29.1 x 11.4 | 52.0 x 29.1 x 11.4 |
| Unit Weight | Net (LBs) | 48 | 51 | 59 | 68 |
| | Packaged (LBs) | 59 | 64 | 79 | 90 |
| Loading Capacity | 20/40/40HQ | 108/234/234 | 108/234/234 | 90/192/192 | 72/162/162 |

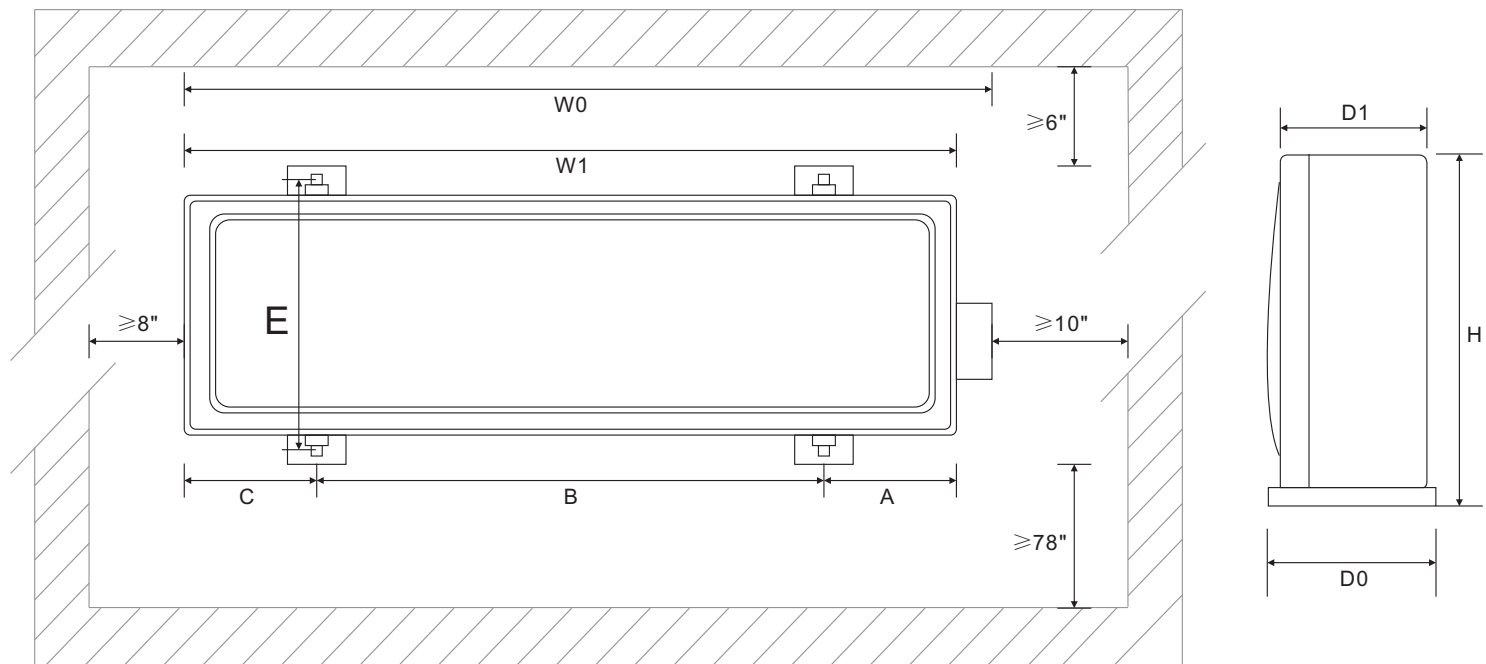
OUTDOOR UNIT SPECIFICATION AND ENGINEERING SUBMITTAL

| Outdoor Unit Models | WMMS-30CH-V2B(59)2 (1 to 2) | WMMS-36CH-V2B(59)2 (1 to 3) | WMMS-42CH-V2B(59)2 (1 to 4) | WMMS-48CH-V2B(59)2 (1 to 4) | WMMS-60CH-V2B(59)2 (1 to 5) | |
|---|-----------------------------|-----------------------------|-----------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Power Supply | | | | | | |
| 208-230/1/60 | | | | | | |
| Cooling Capacity* (Btu/h) | Max. IDU Cap. Total 2) | 30,000 | 36,000 | 48,000 | 57,000 | 72,000 |
| | Rated 1) | 18,000 | 24,000 | 28,000 | 30,000 | 42,000 |
| | Min. | 7,200 | 10,000 | 10,000 | 10,000 | 12,000 |
| Total Power Input in Cooling Mode* (W) | Max. | 2300 | 3300 | 4500 | 4500 | 5100 |
| | Rated | 1550 | 2250 | 2600 | 2600 | 3950 |
| | Min. | 650 | 800 | 900 | 1000 | 1200 |
| SEER | | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| HSPF | | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| Heating Capacity* (Btu/h) | Max. IDU Cap. Total 2) | 32,000 | 38,000 | 50,000 | 59,000 | 74,000 |
| | Rated 1) | 19,000 | 29,500 | 31,000 | 33,000 | 46,000 |
| | Min. | 6,500 | 9,000 | 9,000 | 9,000 | 10,000 |
| Total Power Input in Heating Mode* | Max. | 2400 | 3000 | 3500 | 3500 | 4800 |
| | Rated | 1750 | 2500 | 2920 | 2920 | 4400 |
| | Min. | 650 | 800 | 900 | 1000 | 1200 |
| Liquid Valve Size | | 2 x 1/4" | 3 x 1/4" | 4 x 1/4" | 4 x 1/4" | 4 x 1/4" + 3/8" |
| Gas Valve Size | | 2 x 3/8" | 3 x 3/8" | 4 x 3/8" | 4 x 3/8" | 2x3/8"+2x1/2"+5/8" |
| Compressor Manufacturer/trademark | | Sanyo / Mitsubishi / Others | | | | |
| Compressor Oil | | / FV50S / | / FV50S / | / FV50S / | / FV50S / | / FV50S / |
| L.R.A. (A) | | 27 | 45 | 45 | 45 | 55 |
| Compressor RLA (A) | | 8.4 | 9.7 | 9.7 | 10 | 13 |
| Compressor Power Input (W) | | 1245 | 2200 | 2200 | 2200 | 3000 |
| MCA (A) | | 15 | 20 | 20-All IDUs EW / 30-All IDUs EC or EU | 30-All IDUs EW / 40-All IDUs EC or EU | 40 |
| Fuse or Circuit Breaker (HVAC Type) | | 30 | 30 | 30-All IDUs EW / 40-All IDUs EC or EU | 40-All IDUs EW / 50-All IDUs EC or EU | 40-All IDUs EW / 50-All IDUs EC or EU |
| Throttling Method | | Electronic Expansion Valve | | | | |
| Starting Method | | Transducer starting | | | | |
| Recommended Working Ambient Temp Ranges (F) | | AC: 20 to 115 HP: 5 to 75 | | | | |
| Condenser | | Aluminum fin-copper tube | | | | |
| Output of Fan Motor (W) | | 60 | 60 | 60 | 60 | 140 |
| Fan Motor RLA (A) | | 0.65 | 0.65 | 0.65 | 0.65 | 1.1 |
| Fan Motor Capacitor (uF) | | 3 | 3.5 | 3.5 | 3.5 | 6 |
| Air Flow Rate of Outdoor Unit | | / | / | / | / | / |
| Fan Type-Piece | | Axial fan 1 | Axial fan 1 | Axial fan 1 | Axial fan 1 | Axial fan 1 |
| Fan Diameter (Inches) | | 18.1 | 18.1 | 18.1 | 18.1 | 22.5 |
| Defrosting Method | | Auto Defrost | Auto Defrost | Auto Defrost | Auto Defrost | Auto Defrost |
| Climate Type | | T1 | T1 | T1 | T1 | T1 |
| Isolation | | I | I | I | I | I |
| Moisture Protection | | IP24 | IP24 | IP24 | IP24 | IP24 |
| Max. Operating Pressure at High Side (PSI) | | 550 | 550 | 550 | 550 | 550 |
| Max. Operating Pressure at Low Side (PSI) | | 175 | 175 | 175 | 175 | 175 |
| Sound Pressure Level dB (A) (H/L) | | 56/54 | 56/54 | 56/54 | 56/54 | 56/54 |
| Sound Power Level dB (A) (H/L) | | 66/64 | 66/64 | 66/64 | 66/64 | 66/64 |
| Dimensions of Outdoor Unit (W x H x D) (Inches) | | 33.3 x 27.0 x 11.8 | 37.4 X 27.5 X 15.5 | 37.2 X 27.6 X 15.75 | 37.4 X 27.5 X 15.5 | 42.25 X 43.5 X 17.5 |
| Dimensions of Package (W x H x D) (Inches) | | 39.1 x 29.5 x 16.9 | 40.6 X 29.5 X 16.5 | 40.5 X 29.5 X 18.0 | 40.6 X 29.5 X 16.5 | 46.0 X 48.6 X 19.4 |
| Net Weight /Gross Weight (LBs) | | 115 / 126 | 150 / 161 | 165 / 176 | 165 / 176 | 225 / 248 |
| Refrigerant /Factory Pre-Charge for 25' (LBs) | | R410A / 2.97 | R410A / 4.84 | R410A / 4.84 | R410A / 4.84 | R410A / 10.6 |
| Loading Quantity | 20' Container | 87 | 80 | 80 | 80 | 50 |
| | 40' Container | 183 | 170 | 170 | 170 | 100 |
| | 40' High Cube Container | 183 | 170 | 170 | 170 | 100 |

IMPORTANT NOTES-ABOUT THE DC INVERTER SYSTEM'S VARIOUS PERFORMANCES:

- 1) The rated performance data printed on the unit nameplate are tested per AHRI 210/240 standards at standard indoor & outdoor conditions and standard installation set-up.
- 2) Actually the DC inverter outdoor unit will modulate to match whatever capacity needs called/requested from indoor unit side, to produce a wide range of capacities, minimum could be about 15% of the rated number and maximum could be around 160% of the rated number.
- 3) Once the DC inverter system is installed, each indoor unit's output and so the outdoor unit performance will all vary over the operation period: soft-starting, turbo quick cooling/heating, maintaining, defrosting, switching, and other condition changes.
- 4) Actual performance varies upon many factors such as indoor and outdoor temperatures, inter-connecting pipe length/ bending, elevation difference between indoor and outdoor units, refrigerant charging level, vacuum level, leakage, air or moisture or contamination level, foreign substance left in the piping, indoor filter clean level, indoor and outdoor coil conditions, and other factors such as zoning factor ZR (=max. zone capacity sub-total / all zone capacity total).

DIMENSIONS OF OUTDOOR UNITS AND INSTALLATION CLEARANCE



| Dim. | WMMS-30CH-V2B (59)2 | WMMS-36CH-V2B(59)2 | WMMS-42CH-V2B(59)2 | WMMS-48CH-V2B(59)2 | WMMS-60CH-V2B(59)2 |
|------|---------------------|--------------------|--------------------|--------------------|--------------------|
| A | 5.8 | 6.25 | 6.25 | 7.6 | 7.75 |
| B | 21.7 | 22.75 | 22.75 | 22.5 | 24.75 |
| C | 5.8 | 6.25 | 6.25 | 7.3 | 7.75 |
| E | 13.5 | 13.5 | 13.5 | 13.5 | 16.9 |
| W1 | 33.3 | 35.25 | 35.25 | 37.4 | 40.25 |
| W0 | 35.3 | 37.25 | 37.25 | 39.4 | 42.25 |
| H | 23.5 | 27.6 | 27.6 | 27.5 | 43.5 |
| D1 | 12.75 | 13.5 | 13.5 | 13.5 | 14.0 |
| D0 | 15.0 | 15.75 | 15.75 | 15.75 | 17.5 |



WMMS-30CH-V2B(59)2
(1 to 2)



WMMS-36CH-V2B(59)2
(1 to 3)



WMMS-42CH-V2B(59)2
(1 to 4)



WMMS-48CH-V2B(59)2
(1 to 4)



WMMS-60CH-V2B(59)2
(1 to 5)

Notes:
Unit Appearance and Specifications
Are Subject to Change for Continuous
Improvement without Any Prior Notice.

RECOMMENDED MATCHING INDOOR AND OUTDOOR UNITS (NOT ALL POSSIBILITIES BEING LISTED)

| Indoor Unit Mix and Match Size Possibilities (Samples) for Outdoor Unit WMMS-30CH-V2B(59)2 -Varies Upon Thermal Zone #, See Notes in the Last Page | | | | | | | | | | | |
|---|----------------|---------|-------------|-------------|----------------|-----------------|-----------------|-----------------|-------------------------|-----------------------------|-----------------------------|
| 1 Indoor Unit | 2 Indoor Units | | | | 3 Indoor Units | | | | 4 Indoor Units | | |
| 09K | 12K | 09K+09K | 09K+12K | Not allowed | | | | Not allowed | | | |
| 18K | 24K | 12K+12K | 12K+18K | | | | | | | | |
| Indoor Unit Mix and Match Size Possibilities (Samples) for Outdoor Unit WMMS-36CH-V2B(59)2 -Varies Upon Thermal Zone #, See Notes in the Last Page | | | | | | | | | | | |
| 1 Indoor Unit | 2 Indoor Units | | | | 3 Indoor Units | | | | 4 Indoor Units | | |
| Not allowed | 09K+12K | 12K+12K | 09K+09K+09K | 09K+09K+12K | 09K+09K+18K | Not allowed | | | | | |
| | 09K+18K | 18K+18K | 09K+12K+12K | 09K+12K+18K | 12K+12K+12K | | | | | | |
| Indoor Unit Mix and Match Size Possibilities (Samples) for Outdoor Unit WMMS-42CH-V2B(59)2 -Varies Upon Thermal Zone #, See Notes in the Last Page | | | | | | | | | | | |
| 1 Indoor Unit | 2 Indoor Units | | | | 3 Indoor Units | | | | 4 Indoor Units | | |
| Not allowed | 12K+12K | 09K+18K | 9K+9K+9K | 09K+09K+12K | 09K+12K+12K | 09K+09K+09K+09K | 09K+09K+09K+12K | 09K+09K+12K+12K | | | |
| | 12K+18K | 12K+24K | 9K+9K+18K | 09K+12K+18K | 12K+12K+18K | 09K+12K+12K+12K | 12K+12K+12K+12K | 09K+09K+09K+18K | | | |
| | 18K+18K | 18K+24K | 12K+12K+12K | 09K+09K+24K | 09K+12K+24K | 09K+09K+12K+18K | | | | | |
| Indoor Unit Mix and Match Size Possibilities (Samples) for Outdoor Unit WMMS-48CH-V2B(59)2 -Varies Upon Thermal Zone #, See Notes in the Last Page | | | | | | | | | | | |
| 1 Indoor Unit | 2 Indoor Units | | | | 3 Indoor Units | | | | 4 Indoor Units | | |
| Not allowed | 12K+18K | 09K+24K | 09K+09K+09K | 09K+09K+12K | 09K+12K+12K | 09K+09K+09K+09K | 09K+09K+09K+12K | 09K+09K+09K+18K | | | |
| | 18K+18K | 12K+24K | 09K+09K+18K | 12K+12K+12K | 09K+12K+18K | 09K+09K+12K+18K | 09K+12K+12K+18K | 12K+12K+12K+12K | | | |
| | 18K+24K | 24K+24K | 12K+12K+18K | 09K+12K+24K | 12K+12K+24K | 09K+09K+09K+24K | 09K+09K+12K+24K | 09K+12K+12K+24K | | | |
| Indoor Unit Mix and Match Size Possibilities (Samples) for Outdoor Unit WMMS-60CH-V2B(59)2 -Varies Upon Thermal Zone #, See Notes in the Last Page | | | | | | | | | | | |
| 1 Indoor Unit | 2 Indoor Units | | | | 3 Indoor Units | | | | 4 Indoor Units | | 5 Indoor Units |
| Not allowed | 12K+12K | 12K+18K | 09K+09K+09K | 09K+09K+12K | 09K+12K+12K | 09K+09K+09K+12K | 09K+09K+09K+09K | 09K+09K+09K+18K | 09K+09K+09K+12K/18K/24K | 09K+09K+09K+12K+12K/18K/24K | 09K+09K+09K+12K+12K/18K/24K |
| | 18K+18K | 12K+24K | 09K+09K+18K | 12K+12K+18K | 09K+12K+18K | 09K+09K+12K+18K | 09K+12K+12K+18K | 12K+12K+12K+12K | 09K+09K+12K+12K/18K/24K | 09K+12K+12K+12K+18K | 09K+12K+12K+12K+18K |
| | 18K+24K | 24K+24K | 12K+12K+12K | 12K+12K+24K | 09K+12K+24K | 09K+09K+12K+24K | 09K+12K+12K+24K | 12K+12K+12K+24K | 12K+12K+12K+12K/18K | 09K+09K+12K+12K+18K | 09K+09K+12K+12K+18K |
| | | | | | | | | | 09K+09K+12K+18K+18K | 09K+12K+12K+18K+18K | |
| | | | | | | | | | 12K+12K+12K+18K+18K | | |

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, varying upon copper line size/length/bends, weather conditions, target-room temperature differences, frequency for all indoor indoors to be called for same thermal mode, etc.
- * Must follow pipe length and refrigerant charge adjustment as instructed in the table below:

| Valve sizes at outdoor unit | Model | WMMS-30CH-V2B(59)2 | | WMMS-36CH-V2B(59)2 | | | WMMS-42CH-V2B(59)2 | | | WMMS-48CH-V2B(59)2 | | | WMMS-60CH-V2B(59)2 | | | | | |
|--|---|--------------------|---|--------------------|-----|-----|--------------------|-----|-----|--------------------|-----|-----|--------------------|-----|-----|-----|-----|-----|
| | | Liquid valve | Gas valve | In. | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3/8 | 1/4 | 1/4 | 1/4 | 3/8 |
| Max. pipe length (add up length of all liquid lines only), if not upper sizing pipes | Ft. | | 150 | | 200 | | 230 | | 260 | | 300 | | | | | | | |
| Max. elevation difference allowed between indoor and outdoor unit | Outdoor unit is installed above indoor unit | Ft. | 60 | | 60 | | 70 | | 80 | | 80 | | | | | | | |
| | Outdoor unit is installed below indoor unit | Ft. | 50 | | 50 | | 60 | | 60 | | 60 | | | | | | | |
| Max. pipe length, if not upper-sizing copper lines, adding up all liquid lines only | Ft. | | 50 | | 50 | | 50 | | 50 | | 50 | | | | | | | |
| Maximum / minimum pipe length-each indoor unit, upper-sizing line or not | Ft. | | Maximum 100ft / Minimum 15ft | | | | | | | | | | | | | | | |
| Refrigerant charge adjustment | OZ/Ft. | | If actual pipe length is different from the numbers listed above, +/- 0.23 OZ/Ft. | | | | | | | | | | | | | | | |

- * Factory refrigerant charge is for 25ft. each run. Need to adjust refrigerant by pressure and weight, if the copper line lengths are different from the numbers listed above. Temperature-pressure chart is in the manual and also on the unit.
- * Should any indoor unit be 50' or more apart from the outdoor unit, need to upper-size copper lines to reduce capacity lose.
- * Not all pairs of outdoor valves need to be connected at initial installation. But, there is a minimum amount of indoor units shall be connected (refer to the spec. sheet for details). Check and tight-close unused valves/nut/caps to keep from leakage.
- * Steps to add additional indoor units: pump down, connect new indoor unit, positive and negative vacuum for leakage check, release refrigerant charge from outdoor unit to indoor unit, and conduct all function tests.

PIPE ADAPTOR

For example: whenever the outdoor unit gas valve of size 3/8" is to connect with indoor unit gas pipe of 1/2", one "3/8" female - 1/2"male adaptor" is needed in between. This pipe adaptor is packed separately and shall be installed at job site.

