



High Static Innovative Ducted Mini Split Solution

Submittal Data: UMAT42HP230V1BD 42,000 BTUH Slim Duct Heat Pump System

Job Name _____ Location _____ Date _____

Purchaser _____ Engineer _____

Submitted To _____ For Reference Approval Construction

Unit Designation _____ Schedule No. _____

GENERAL FEATURES

- Multi-Speed Fan
- High External Static Pressure Capability
- Return Air From Rear or Bottom
- Internal Condensate Drain Pump
- Sentry Condensate Overflow Protection
- XK60 Wired Remote Controller
- Acrylic Resin/Anti-Corrosion Fin Coating
- 5 yr. Limited Compressor & Parts Warranty (Residential Only)



AHRI Certified Ref No: [203372381](#)

System Ratings

Cooling

| | |
|-------------------|---------------------|
| Rated Capacity | 41,000 BTU/H |
| Capacity Range | 12,000-42,500 BTU/H |
| Power Input (Max) | 4,800 W |
| SEER | 16.0 |
| EER | 10.3 |

Heating at 47° F

| | |
|-------------------|---------------------|
| Rated Capacity | 47,000 BTU/H |
| Capacity Range | 13,000-52,500 BTU/H |
| Power Input (Max) | 5,000 W |
| HSPF | 9.0 |
| COP | 3.2 |

Heating at 17° F

| | |
|----------------|--------------|
| Rated Capacity | 28,600 BTU/H |
|----------------|--------------|

Operating Range

| | | |
|---------|-------|--------------|
| Cooling | (Max) | 115°F (48°C) |
| | (Min) | 0°F (-18°C) |
| Heating | (Max) | 75°F (24°C) |
| | (Min) | 0°F (-18°C) |

Refrigerant Piping Data

| | |
|--------------------------------|-----------|
| Gas Pipe Size (OD) | 5/8-in |
| Liquid Pipe Size (OD) | 3/8-in |
| Connection Method | Flared |
| Factory Charge | 131 oz |
| Additional Charge | 0.6 oz/ft |
| Pre-Charge Length | 25-ft |
| MAX Refrigerant Pipe Length | 230-ft |
| MIN Refrigerant Pipe Length | 10-ft |
| MAX Refrigerant Pipe Elevation | 49-ft |

Indoor Unit Data

| | | |
|---------------------------------------|----------------------------|---------------------------|
| Fan Motors | Output Power | 3/4 HP |
| | FLA | 4 A |
| Airflow - Nominal | | |
| | Cooling Wet | 1300 CFM |
| | Heating Dry | 1300 CFM |
| Sound Pressure Level | | |
| | Cooling (H/M/L) | 46/45/44 dB(A) |
| | Heating (H/M/L) | 46/45/44 dB(A) |
| Dehumidification | | 1.42 pt/hr |
| Condensate Drain Lift (Height) | | 33-in |
| Power Supply | | |
| | Normal Operational Voltage | 208/230 V, 1 Phase, 60 Hz |
| | Voltage Range | 187 - 253 V |
| | Interconnecting Wire Size | 18-2 AWG / 300V THHN |
| | MCA | 5 A |
| | MOCP/Breaker Size | 15 A |

Outdoor Unit Data

| | | |
|-----------------------------|----------------------------|---------------------------|
| Compressor | | DC Inverter Driven Rotary |
| | RLA | 32.5 A |
| Refrigerant Type | | R410A |
| Fan Motor | Output Power | 2 x 1/6 HP |
| | FLA | 2 x 2.0 A |
| Sound Pressure Level | | |
| | Cooling/Heating | 59/59 dB(A) |
| | Main Supply Wire Size | 8 AWG |
| Power Supply | | |
| | Normal Operational Voltage | 208/230 V, 1 Phase, 60 Hz |
| | Voltage Range | 187 - 253 V |
| | Main Supply Wire Size | 8 AWG |
| | MCA | 45 A |
| | MOCP/Breaker Size | 70 A |

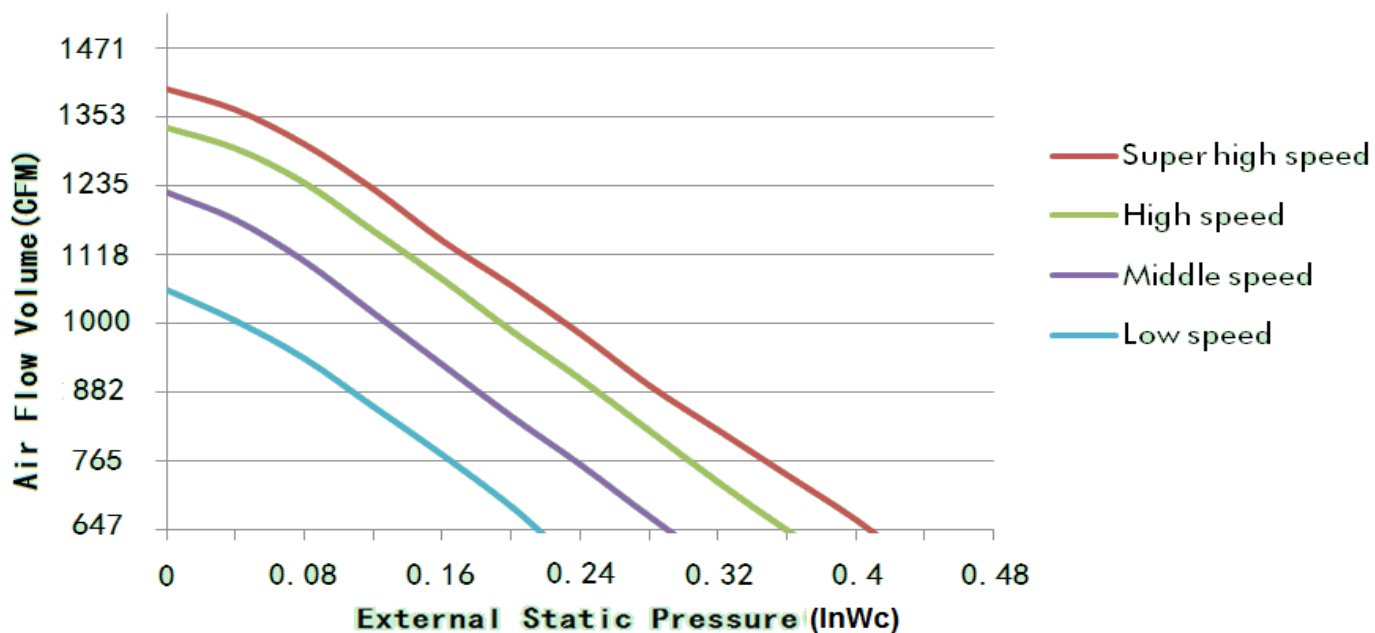


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|------------------------------------|---------------|
| Inverter Type | G10 |
| Ultra Low Frequency Torque Control | YES |
| Power Factor Correction | YES |
| Compressor Type | Rotary |
| Refrigerant Type | R410A |
| Electronic Expansion Valve (EEV) | YES |
| Basepan With Electric Heater | YES |
| Compressor With Electric Heater | NO |
| Outdoor Fin Coating (Blue) | Acrylic Resin |
| Intelligent Defrosting | YES |
| Intelligent Preheating | YES |
| Low Voltage Startup | YES |
| Memory/Power Failure Recovery | YES |
| Self Diagnosis | YES |
| Low Ambient Cooling | YES |
| Internal Condensate Pump | YES |
| XK60 Wired Controller Interface | YES |
| Wi-Fi Interface | NO |
| Indoor Fan Type | Centrifugal |
| Multi Fan Speeds | 3 Speeds |
| LED Display Indoor Unit | NO |
| Advance Filter | NO |
| Auxiliary Electrical Heater | NO |
| Ventilation (Outdoor Air) | Optional |

| WIRED CONTROLLER FUNCTIONS | |
|-----------------------------------|-----|
| Auto Mode | YES |
| Auto Fan | YES |
| Auto Swing (Continuous Sweep) | NO |
| Adjustable Swing Louvers (5 pos.) | NO |
| Clock on Remote Controller | YES |
| Dry Mode | YES |
| Dry Anti-Mildew (X-Fan) Mode | YES |
| Energy Saving Mode | NO |
| Dirty Filter Alert | NO |
| I Feel Function | YES |
| Lock on Wired Controller | YES |
| Quiet Mode | NO |
| Room Temperature Display (5 sec.) | YES |
| Sleep Mode | YES |
| Timer Mode | YES |
| Turbo Mode | YES |
| Display On/Off Control | NO |
| Freeze Guard Mode | YES |

FAN PERFORMANCE CURVES

Rated External Static Pressure - .2 InWc
 External Static Pressure Range- 0 - .8 InWc

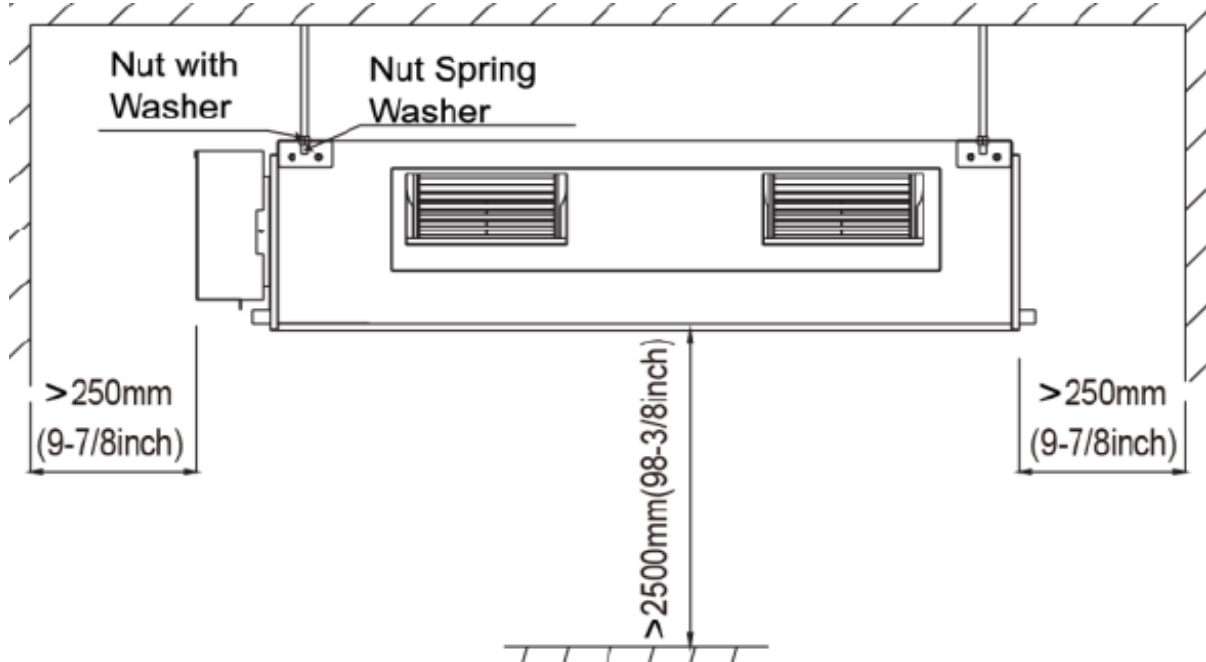


Note: During installation there are 9 dip switches in the control box used set static pressure from 0" to .8". You can select P01, P02, P03, P04, P05, P06, P07, P08, P09 in fan mode of indoor fan motor, which means different fan mode combinations are corresponding to different static pressure. Ex-factory defaulted mode is P05. You can set the mode through wired controller. S01, S02, S03.....S12, S13 means the rotation speed of indoor unit is from low to high.

MINIMUM SPACING REQUIREMENTS

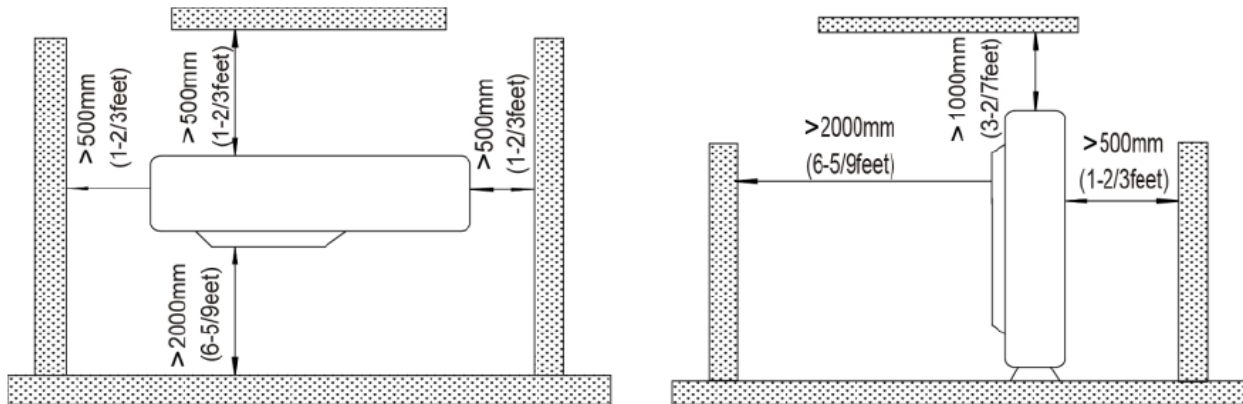
Units: mm(inch)

INDOOR



Units: mm(ft)

OUTDOOR

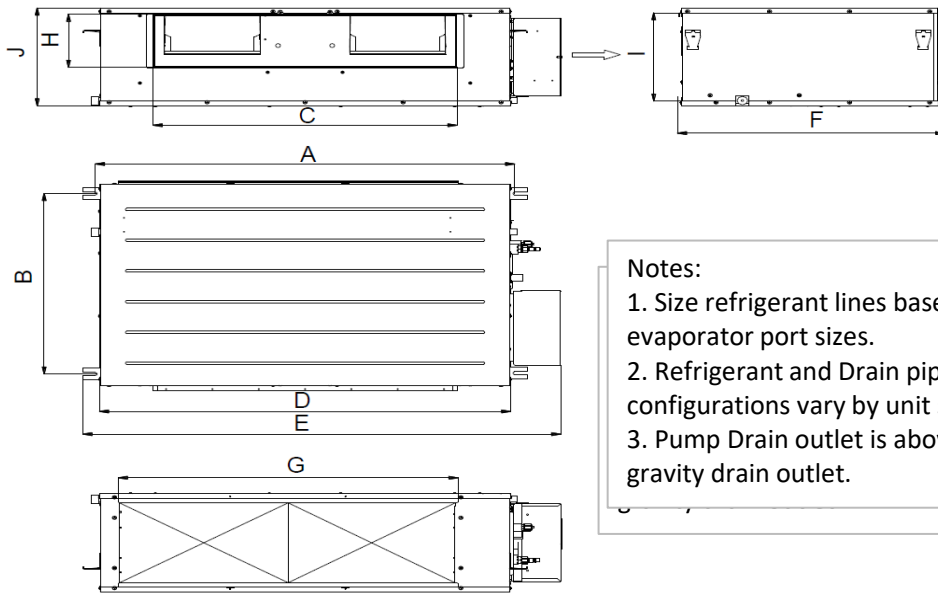


DIMENSIONAL SPECIFICATIONS

UMAT42HP230V1BD

INDOOR UNIT DIMENSIONS & WEIGHTS

Units: inch (mm)



- Notes:**
1. Size refrigerant lines based on evaporator port sizes.
 2. Refrigerant and Drain pipe configurations vary by unit size.
 3. Pump Drain outlet is above gravity drain outlet.

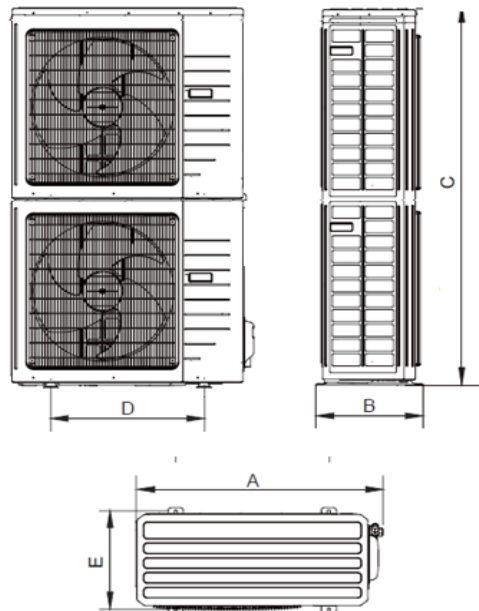
| | | |
|---|--------|--------|
| A | 46-1/4 | (1175) |
| B | 25-3/8 | (645) |
| C | 33-1/2 | (850) |
| D | 45-1/4 | (1150) |
| E | 85-1/4 | (1340) |
| F | 29-1/2 | (750) |
| G | 38-5/8 | (980) |
| H | 7-5/8 | (195) |
| I | 9 | (230) |
| J | 13-3/4 | (350) |

| | |
|-----------------|---------|
| Net Weight | 137 lbs |
| Shipping Weight | 163 lbs |

| | |
|-------------------|------------------|
| Liquid Line Valve | 3/8-in OD Flared |
| Gas Line Valve | 5/8-in OD Flared |
| Drain Connector | 1 in OD |

OUTDOOR UNIT DIMENSIONS & WEIGHTS

Units: inch (mm)



| | | |
|---|--------|--------|
| A | 37-3/4 | (960) |
| B | 16-1/4 | (410) |
| C | 53-1/8 | (1350) |
| D | 22-1/2 | (570) |
| E | 14-3/4 | (375) |

| | |
|-----------------|---------|
| Net Weight | 236 lbs |
| Shipping Weight | 260 lbs |

| | |
|-------------------|------------------|
| Liquid Line Valve | 3/8-in OD Flared |
| Gas Line Valve | 5/8-in OD Flared |

Notes:

1. Recommended Communication Wire Type 18-2 AWG Stranded Copper THHN 300V Wire
2. Power wiring size must comply with applicable national and local codes for both ID and OD dedicated circuits.
3. Test conditions are based on AHRI 210/240.

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