



# High Static Innovative Ducted Mini Split Solution

## Submittal Data: UMAT24HP230V1BD 24000 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 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)



### System Ratings

<b>Cooling</b>		
Rated Capacity		23800 BTU/H
Capacity Range		8200-29000 BTU/H
Power Input (Max)		2350 W
SEER		16.0
EER		10.35
<b>Heating at 47° F</b>		
Rated Capacity		27200 BTU/H
Capacity Range		8200-32400 BTU/H
Power Input (Max)		2400 W
HSPF		9.0
COP		3.2
<b>Heating at 17° F</b>		
Rated Capacity		16700 BTU/H
<b>Operating Range</b>		
Cooling	(Max)	115°F (46°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	77.7 oz
Additional Charge	0.5 oz/ft
Pre-Charge Length	25-ft
MAX Refrigerant Pipe Length	164-ft
MIN Refrigerant Pipe Length	10-ft
MAX Refrigerant Pipe Elevation	49-ft

### Indoor Unit Data

<b>Fan Motor</b>	Output Power	373 W
	FLA	1.5 A
<b>Airflow</b>		
Cooling Wet (Lo/Hi)		570/820 CFM
	Heating Dry (Lo/Hi)	570/820 CFM
<b>Sound Pressure Level</b>		
Cooling (S/H/M/L)		47/46/44/40 dB(A)
	Heating (S/H/M/L)	47/46/44/40 dB(A)
<b>Dehumidification</b>		.9 pt/hr
<b>Condensate Drain Lift (Height)</b>		33-in
<b>Power Supply (Dedicated Circuit: Size Per Local Code)</b>		
Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz	
Voltage Range	187 - 253 V	
MCA	2 A	
MOCP/Breaker Size	15 A	
<b>Communication Wire Size</b>	18-2 AWG / 300V THHN	

### Outdoor Unit Data

<b>Compressor</b>	DC Inverter Driven Rotary	
RLA	18 A	
<b>Refrigerant Type</b>	R410A	
<b>Fan Motor</b>	Output Power	138 W
	FLA	.6 A
<b>Sound Pressure Level</b>		
Cooling/Heating	55/55 dB(A)	
<b>Power Supply (Dedicated Circuit)</b>		
Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz	
Voltage Range	187 - 253 V	
Main Supply Wire Size	10 AWG	
MCA	24 A	
MOCP/Breaker Size	40 A	



**SYSTEM FEATURES**

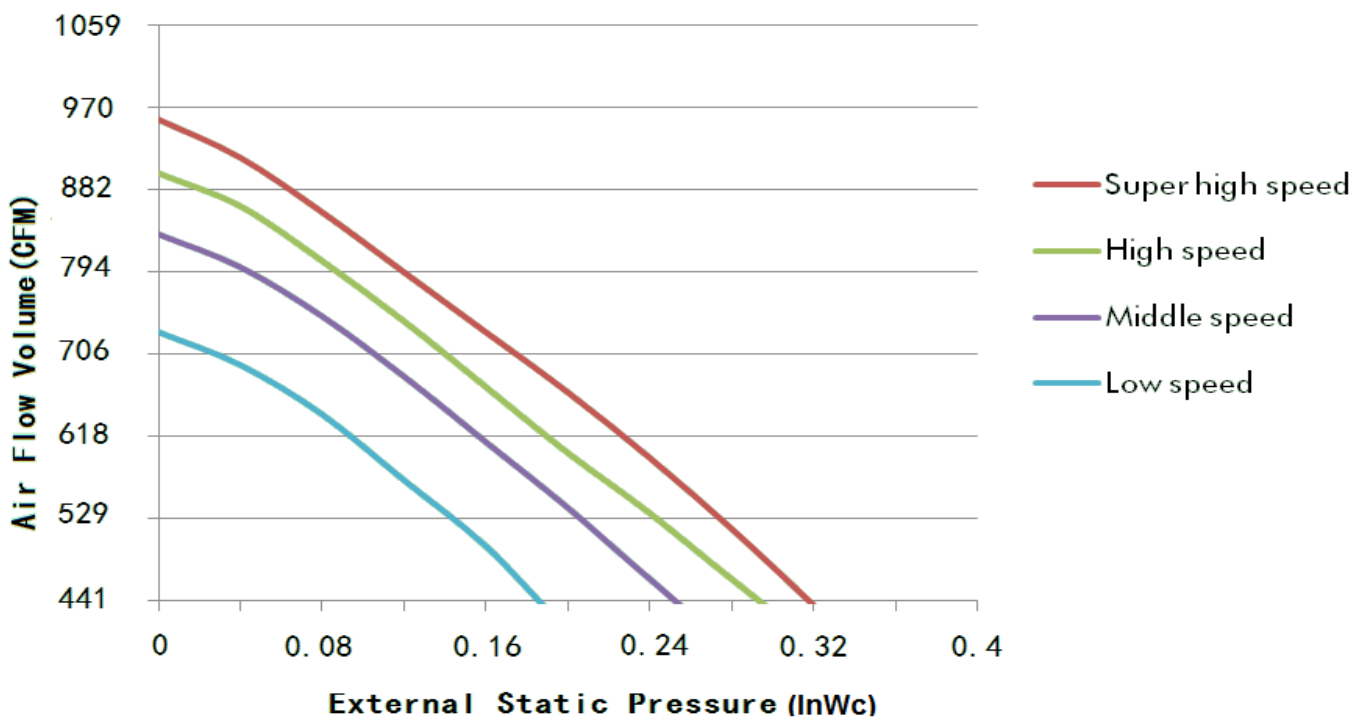
Inverter Type	G10
Ultra Low Frequency Torque Control	YES
Power Factor Correction	YES
Compressor Type	Rotary
Refrigerant Type	R410A
Electronic Expansion Valve (EEV)	YES
Basepan With Electric Heater	YES
Compressor With Electric Heater	NO
Outdoor Fin Coating (Blue)	Acrylic Resin
Intelligent Defrosting	YES
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

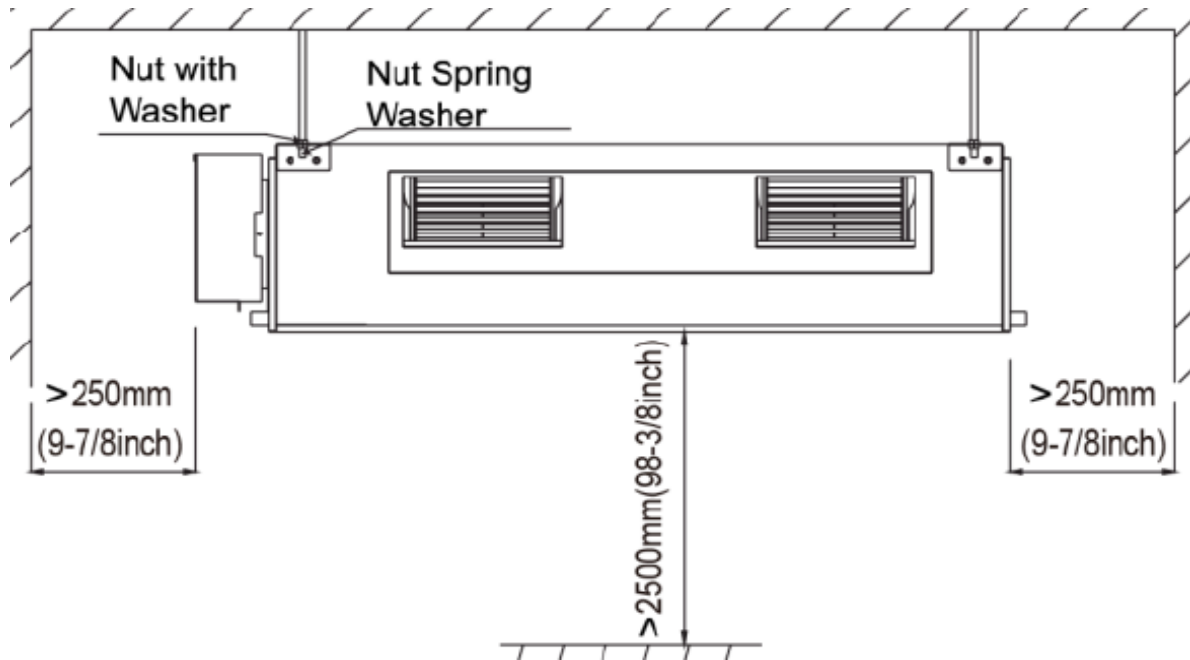


**Note:** During installation there are 9 dip switches in the control box used set static pressure from 0" to .8". You can select P01, P02, P03, P04, P05, P06, P07, P08, P09 in fan mode of indoor fan motor, which means different fan mode combinations are corresponding to different static pressure. Ex-factory 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

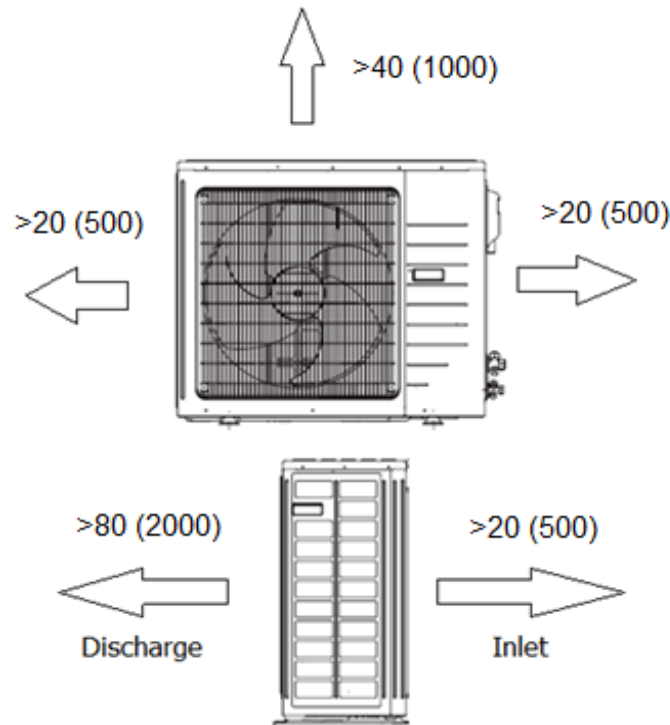
Units: inch (mm)

#### INDOOR



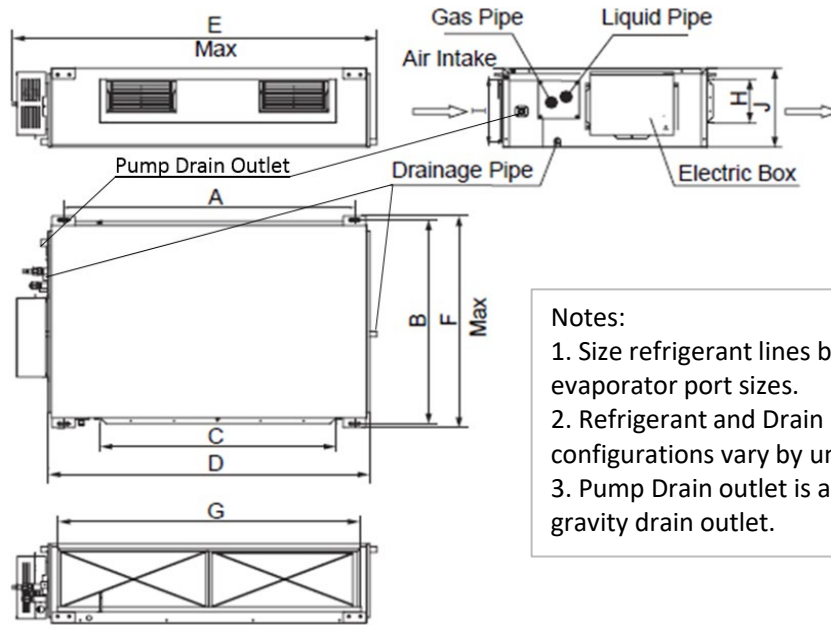
Units: inch (mm)

#### OUTDOOR



**INDOOR UNIT DIMENSIONS & WEIGHTS**

Units: inch



**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.

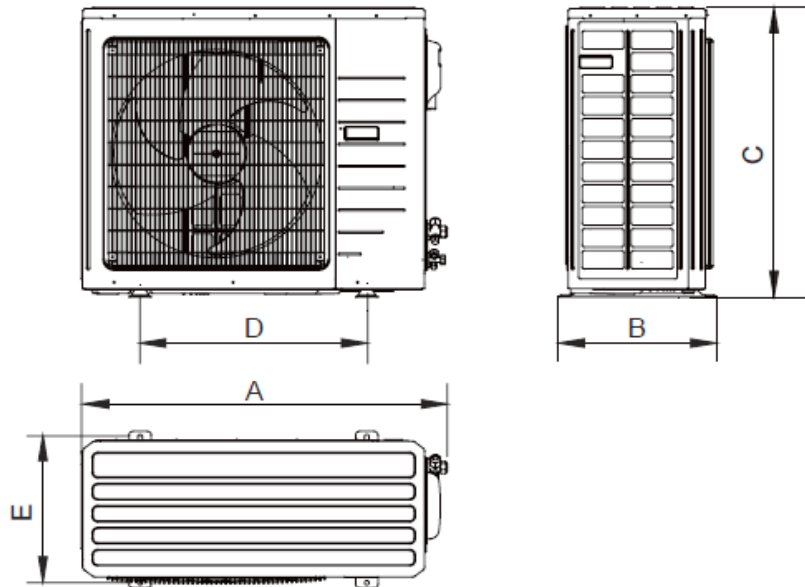
A	39-3/4
B	29-1/2
C	32-1/4
D	43-7/8
E	48-1/4
F	30-1/2
G	38-5/8
H	6-1/4
I	9.0
J	11-3/8

Net Weight	108 lbs
Shipping Weight	126 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	38-5/8 (980)
B	16-3/4 (425)
C	31-1/8 (790)
D	24 (610)
E	15-1/2 (390)

Net Weight	150 lbs
Shipping Weight	161 lbs

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

- Notes:**
1. Recommended Communication WireType 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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