



High Static Innovative Ducted Mini Split Solution

Submittal Data: UMAT18HP230V1BD 18,000 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 Static Pressure Capability
- Selectable Static Pressure using dip-switches
- Flexible Return Air From Bottom Or Rear
- 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: [203365113](#)

System Ratings

Cooling

Rated Capacity	17,100 BTU/H
Capacity Range	5,400-19,800 BTU/H
Power Input (Max)	1,550 W
SEER	16.0
EER	10.0

Heating at 47° F

Rated Capacity	19,100 BTU/H
Capacity Range	4,700-23,200 BTU/H
Power Input (Max)	1,600 W
HSPF	9.0
COP	3.5

Heating at 17° F

Rated Capacity	10,900 BTU/H
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Operating Range

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)	1/2-in
Liquid Pipe Size (OD)	1/4-in
Connection Method	Flared
Factory Charge	49.4 oz
Additional Charge	0.24 oz/ft
Pre-Charge Length	25-ft
MAX Refrigerant Pipe Length	165-ft
MIN Refrigerant Pipe Length	10-ft
MAX Refrigerant Pipe Elevation	49-ft

Indoor Unit Data

Fan Motor	Output Power	1/5 HP
	FLA	1.1 A
Airflow - Nominal		
	Cooling Wet (Lo/Hi)	362/585 CFM
	Heating Dry (Lo/Hi)	362/585 CFM
Sound Power Level		
	Cooling (H/M/L)	43/41/40 dB(A)
	Heating (Min/Max)	43/41/40 dB(A)
Dehumidification		.7 pt/hr
Condensate Drain Lift (Height)		33-in
Power Supply (Dedicated Circuit: Size Per Local Code)		
	Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz
	Voltage Range	187 - 253 V
	MCA	2.0 A
	MOCP/Breaker Size	15 A
Communication Wire Size		18-2 AWG / 300V THHN

Outdoor Unit Data

Compressor		DC Inverter Driven Rotary
	RLA	12.0 A
Refrigerant Type		R410A
Fan Motor	Output Power	1/5 HP
	FLA	.7 A
Sound Pressure Level		
	Cooling/Heating	55/55 dB(A)
Power Supply (Dedicated Circuit)		
	Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz
	Voltage Range	187 - 253 V
	Main Supply Wire Size	10 AWG
	MCA	16 A
	MOCP/Breaker Size	25 A



SYSTEM FEATURES

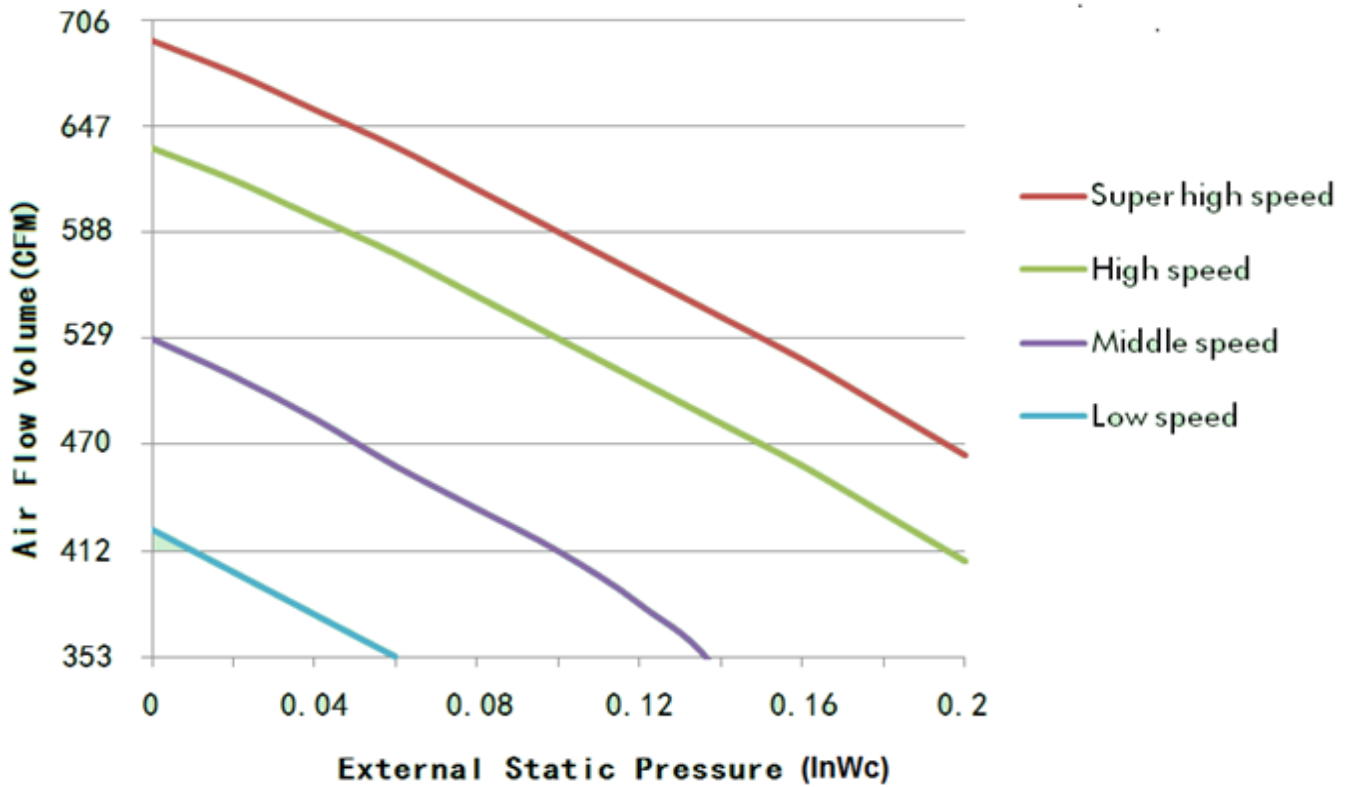
Inverter Type	G10
Ultra Low Frequency Torque Control	YES
Power Factor Correction	YES
Compressor Type	Rotary
Refrigerant Type	R410A
Electronic Expansion Valve (EEV)	YES
Basepan With Electric Heater	YES
Compressor With Electric Heater	NO
Outdoor Fin Coating (Blue)	Acrylic Resin
Intelligent Defrosting	YES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

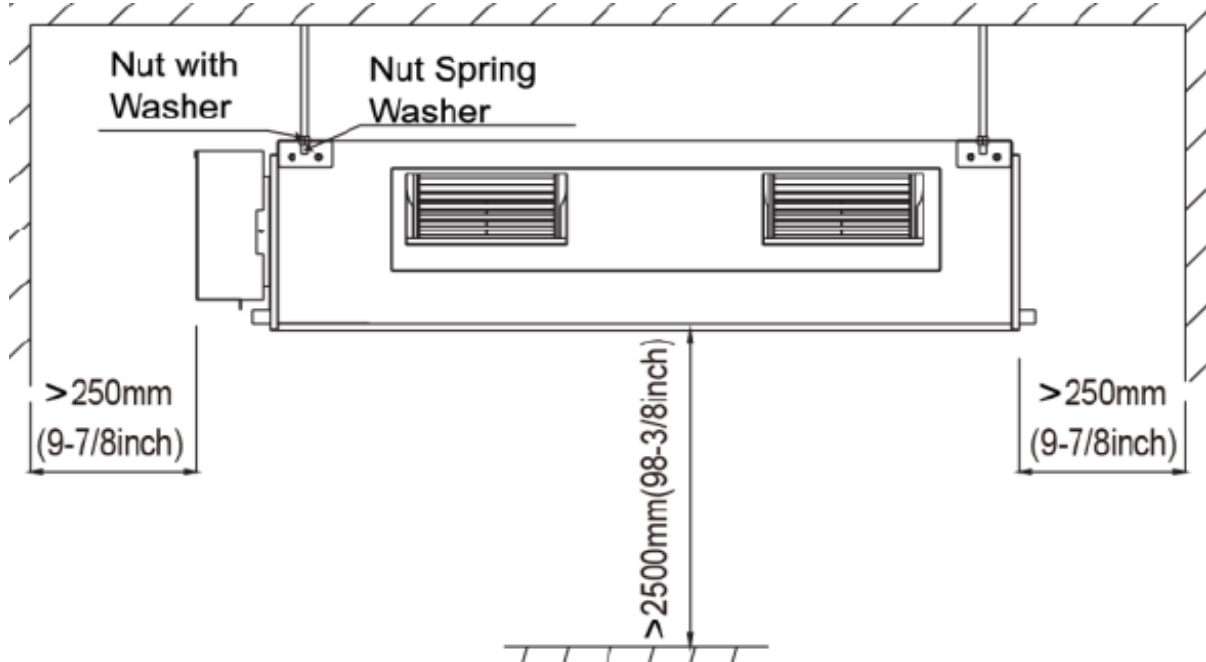


Note: During installation there are 9 dip switches in the control box used set static pressure from 0" to .4". You can select P01, P02, P03, P04, P05, P06, P07, P08, P09 in fan mode of indoor fan motor, which means different fan mode combinations are corresponding to different static pressure. Ex-factory 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

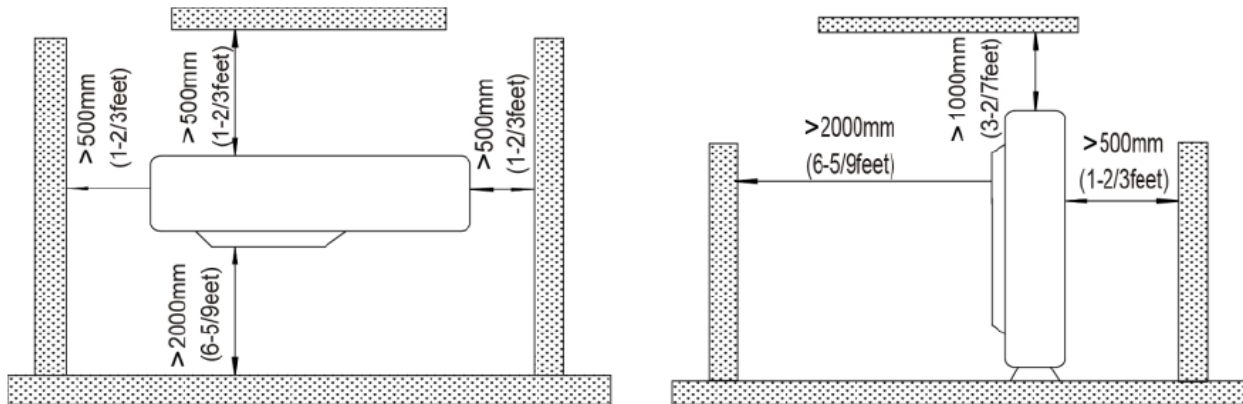
Units: mm(inch)

INDOOR



Units: mm(ft)

OUTDOOR

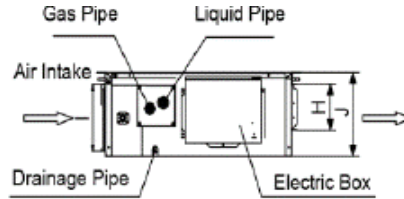
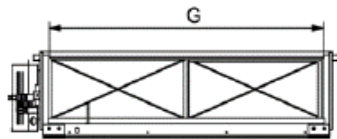
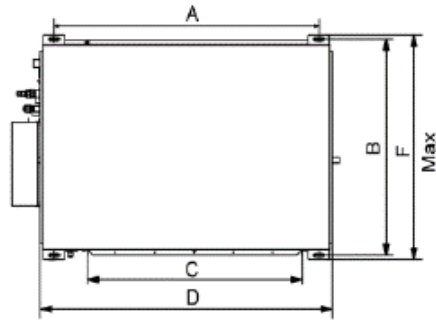
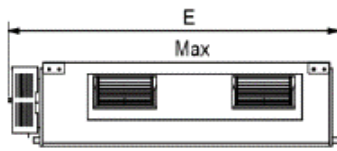


DIMENSIONAL SPECIFICATIONS

UMAT18HP230V1BD

INDOOR UNIT DIMENSIONS & WEIGHTS

Units: inch (mm)



A	43-3/8
B	20-3/8
C	32-1/4
D	45-5/8
E	50-3/8
F	22
G	39-1/2
H	6-1/4
I	9-1/4
J	10-1/2

Notes:

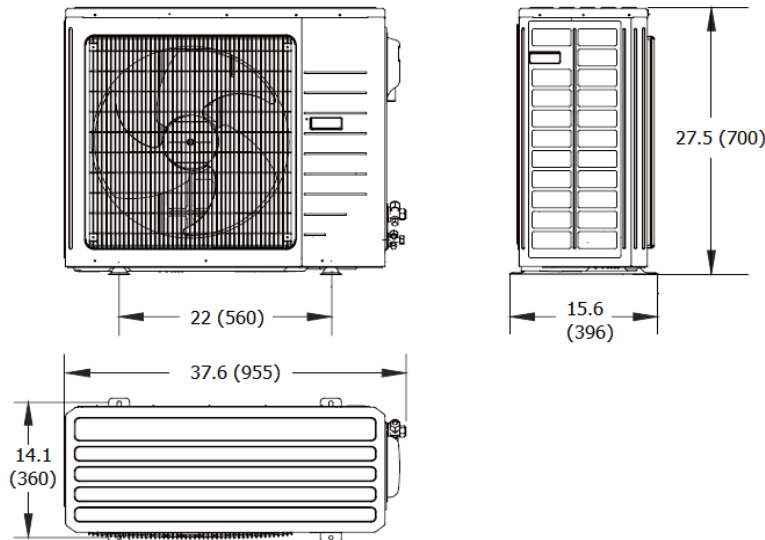
1. Size refrigerant lines based on evaporator port sizes.
2. Refrigerant and Drain pipe configurations vary by unit size.
3. Pump Drain outlet is above gravity drain outlet.

Net Weight	77.0 lbs
Shipping Weight	83.6 lbs

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	1/2-in OD Flared
Drain Connector	1-in OD

OUTDOOR UNIT DIMENSIONS & WEIGHTS

Units: inch (mm)



Net Weight	108 lbs
Shipping Weight	115 lbs

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	1/2-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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