

Single zone inverter mini split

MODEL: UHD12KCH31S

WILLIS

Job Name:

Location:

Engineer Name:

File  Resubmit

Contractor:

System No:

Approval  Other

Date:

**General Features**

- Ultra Heat
- Ultra Efficient
- Extended pipe length
- Wi-Fi
- Fan Delay Function
- Intelligent Pre-heating / Defrost
- LED display
- Control lock
- Auto Swing (Vertical&horizontal)
- Heated Belt Around Compressor
- Pan Heater
- High And Low Pressure Protection Features
- Load Protection Features
- Over-Current Protection
- Anti Freeze Protection



**Unit Performance:**

<i>Cooling:</i>	
Capacity (Min-Rated-Max, Btu/h)	2,900-12,000-15,354
SEER	30,5
EER	15,3
<i>Heating:</i>	
Capacity (Min-Rated-Max, Btu/h)	3,071-12,200-18,766
HSPF	14
COP (W/W)	3,8

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**Unit Specification**

Refrigerant Type	R410A
Refrigerant Charge (oz)	49,4
ODU Sound Pressure (dB(A))	53
IDU Sound Pressure (dB(A))	49/46/43/40/37/34/22
ODU Net Weight (lbs)	99,2
IDU Net Weight (lbs)	29,8
Dehumidifying (Pint/h)	2,96

*Fan*

ODU / IDU Type	Axial-flow/Cross-flow
Quantity (ODU + IDU)	1+1
Motor/Drive	Direct Drive
ODU Max Air Flow Rate (CFM)	1413
IDU Air Flow Rate (CFM)	235/500

**Compressor**

Cooling Operation Ambient temp. Range	0~129°F
Heating Operation Ambient temp. Range	-22~75°F
Compressor Type	Rotary
Fan Motor Output (W)	30
Crankcase Heater	Yes

**Electrical Specification**

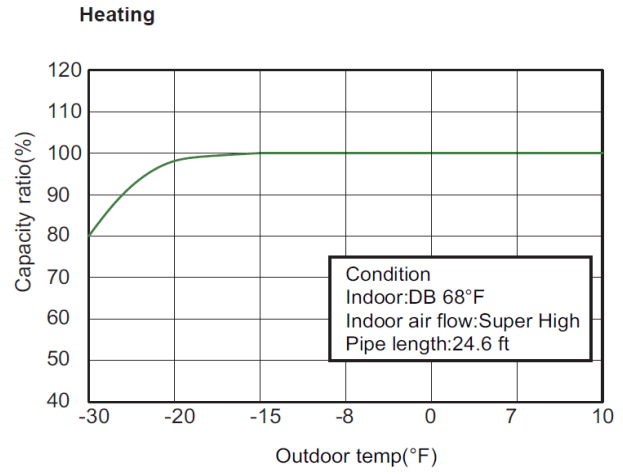
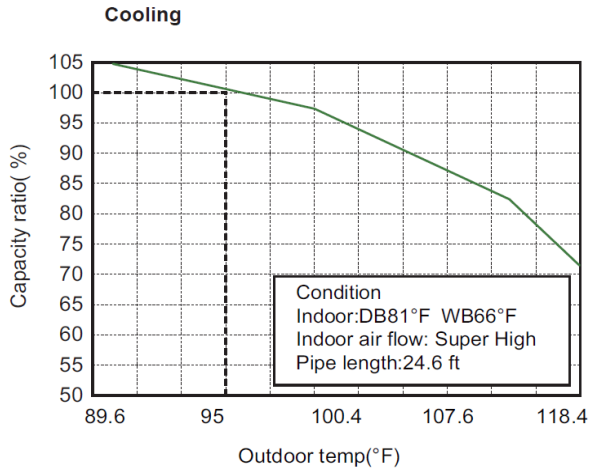
Power Supply	208-230V / 60Hz
Communications Wire Size	AWG 16
MOP (A)	15
MCA (A)	9
Cooling Rated Amps (A)	6,5
Heating Rated Amps (A)	6,9
Compressor RLA (A)	6,9
Indoor Fan Motor RLA (A)	0,09
Outdoor Fan Motor RLA (A)	0,24
Nominal Cooling Power Input (kW)	0,78
Nominal Heating Power Input (kW)	0,94

*Piping*

Liquid Line (in, OD)	1/4
Gas Line (in, OD)	1/2
Additional Refrigerant (oz./ft.)	0.2
Max Pipe Length (ft.)	49.2
Piping Length (no add'l refrigerant, ft.)	24.6
Max Elevation (ft.)	32.8



**Capacity Variation Ratio According to Temperature**

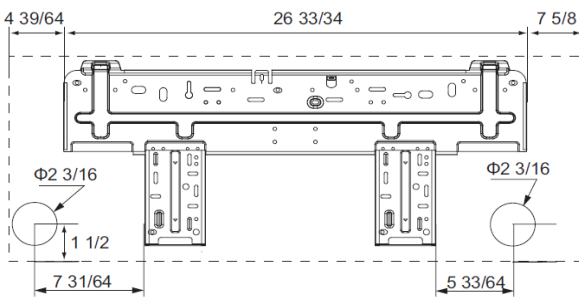
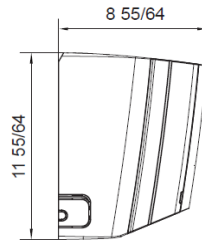
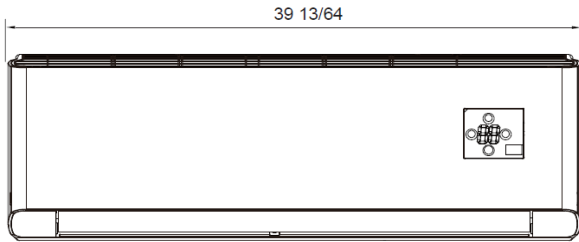


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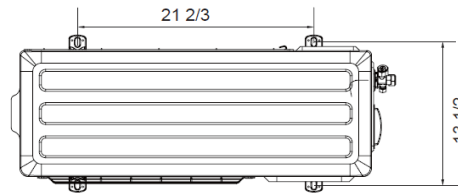
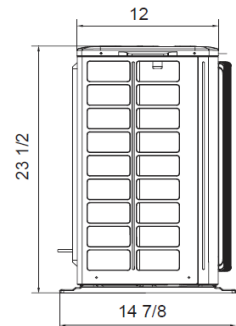
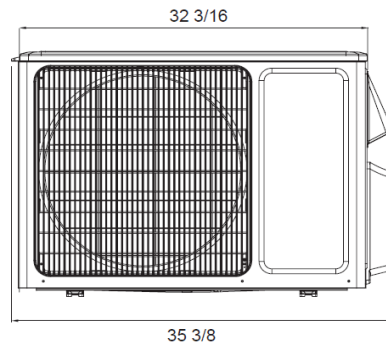
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**Outline Dimension Diagram**



Unit:inch



Unit:inch

**GLOSSARY**

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

HSPF - Heating Seasonal Performance Factor

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

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