



TOSOT

SUBMITTAL DATA

Single Zone 29 Seer 12KBTU

Model: TWH12AVD29R32A1AI/ TWH12AVD29R32A1AO

Job Name

Location

Date

Purchaser

Engineer

Submitted to

For

Unit Designation

Schedule No.



YBE1FB9F



TWH12AVD29R32A1AI



TWH12AVD29R32A1AO



XE71 (Optional)

GENERAL FEATURES:

- R32 Refrigerant
- High Efficiency DC Inverter Technology
- Compact and Quiet Design
- Wireless Remote with LCD Display
- Wired Controller Options
- I Feel
- Wi-Fi Included
- Low Ambient Cooling down to -20°F (Up to 122°F)
- Low Ambient Heating down to -22°F (Up to 75°F)
- Coil (Indoor and Outdoor) Copper Tube / Aluminum Fin
- Blue Colored Fin - 500 Hrs Salt Spray Tested

Americo HVAC Supply LLC



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SPECIFICATIONS & FUNCTIONS:

Model		TWH12AVD29R32A1A
Power Supply	VAC / Phase / Hertz	208-230/1/60
Power Supply Mode	-	Outdoor
Cooling Capacity	Btu/h	12000
Heating Capacity	Btu/h	12200
Cooling Power Input	W	790
Heating Power Input	W	786
Rated Input	W	1650
Rated Current	A	7.8
EER	(Btu/h)/W	15.19
COP	(Btu/h)/W	15.52
SEER	SEER2	27
HSPF	HSPF2	10
Air Flow Volume(H-L)	CFM	565×441×371×212
Dehumidifying Volume	Pint/h	2.96
Application Area	sq ft	130-194

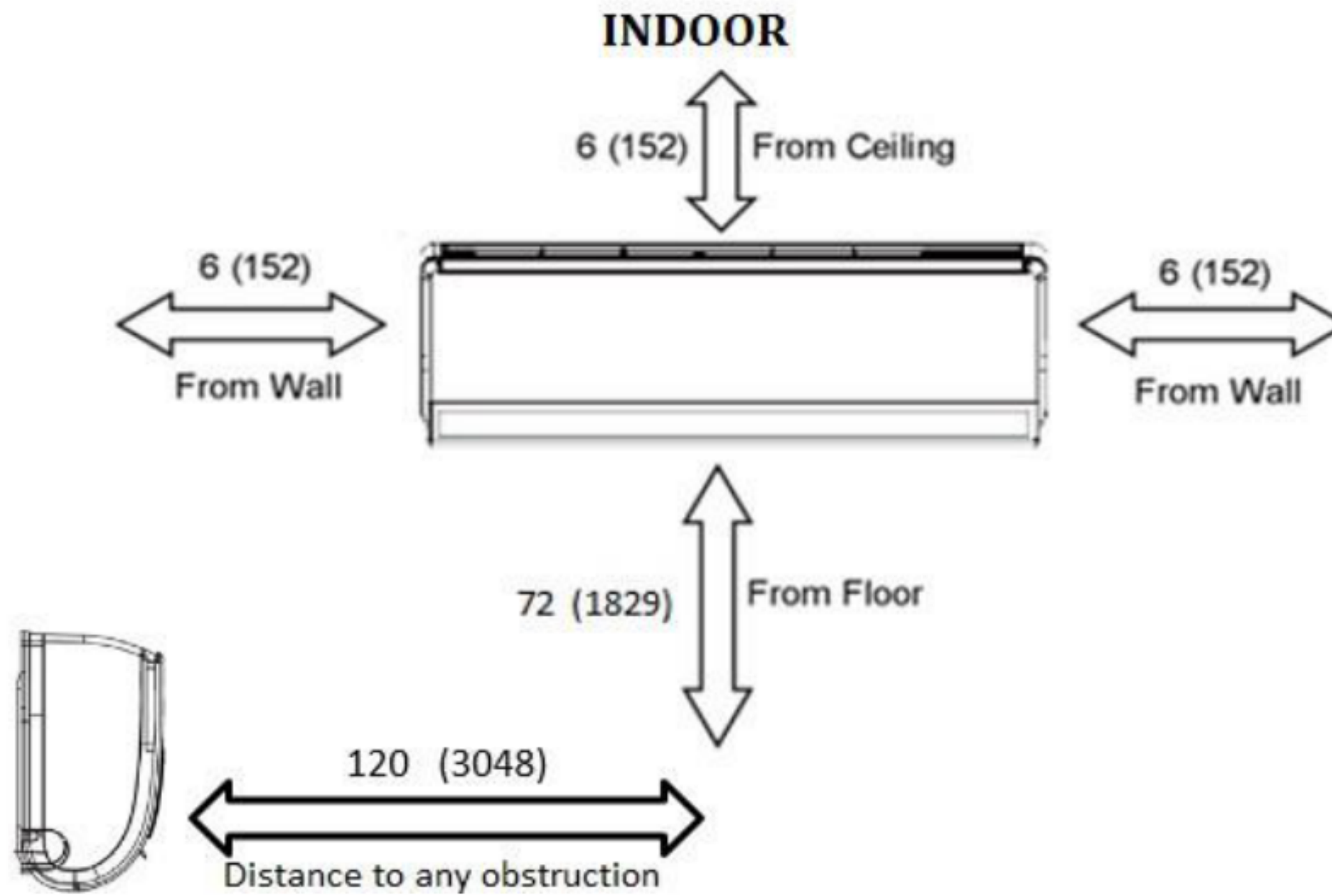
Indoor Unit Model		TWH12AVD29R32A1AI
Fan Type	-	Cross-flow
Fan Diameter Length (D×L)	mm	Φ108X691
Cooling Speed	r/min	1080/1040/1000/960/ 800/700/650/500
Heating Speed	r/min	1200/1150/1040/ 980/930/880/800
Fan Motor Power Output	W	50
Fan Motor RLA	A	0.22
Motor ratings	hp	0.07
Evaporator Form	-	Aluminum Fin-copper Tube
Evaporator Pipe Diameter	mm	φ5
Evaporator Row-fin Gap	mm	2-1.2
Evaporator Coil Length (L×D×W)	mm	701×22.8×381
Swing Motor Model	-	MP24HF/MP24AQ/MP35CV
Swing Motor Power Output	W	1.5/1.5 /2.5
Fuse Current	A	3.15
Set Temperature Range	°F	Cooling:61-86; Heating:46-87
Sound Pressure Level Cooling mode	dB (A)	43/42/40/39/33/29/27/19
Sound Power Level Cooling mode	dB (A)	53/52/50/49/43/39/37/29
Sound Pressure Level Heating mode	dB (A)	45/43/41/39/37/36/32
Sound Power Level Heating mode	dB (A)	55/53/51/49/47/46/42
Dimension (W x H x D)	inch	38 12/64×13 42/64×10 8/64
Net Weight	lb	33.1
Gross Weight	lb	38.6

Outdoor Unit Model		TWH12AVD29R32A1AO
Compressor Manufacturer	-	LANDA
Compressor Model	-	QXF-A088zE170S
Compressor Oil	-	FW68L
Compressor Type	-	Rotary
Compressor RLA	A	7
Compressor Power Input	W	845
Outdoor Unit Fan Type	-	Cross-flow
Outdoor Unit Fan Diameter	mm	445
Fan Motor Speed	rpm	850
Fan Motor Power Output	W	40
Motor ratings	hp	0.06
Fan Motor RLA	A	0.7
Air Flow Volume	CFM	1766
Condenser Form	-	-
Condenser Pipe Diameter	mm	φ7.94
Condenser Rows-fin Gap	mm	2-1.4
Condenser Coil Length (L×D×W)	mm	865×38.1×528
Permissible Excessive Operating Pressure for the Discharge Side	P.S.I.G.	624
Permissible Excessive Operating Pressure for the Suction Side	P.S.I.G.	363
Maximum Allowable Pressure	P.S.I.G.	710
Cooling Operation Ambient Temperature Range	°F	-20 ~ 122
Heating Operation Ambient Temperature Range	°F	-22 ~ 75
Metering Device	Electronic expansion valve	
Defrosting Method	Automatic Defrosting	
Sound Pressure Level (H)	dB (A)	55
Sound Power Level (H)	dB (A)	65
Dimension (WxHxD)	inch	34 24/64×21 54/64×14 51/64
Outdoor Unit Net Weight	lb	78.3
Outdoor Unit Gross Weight	lb	84.9
Refrigerant	--	R32
Factory Refrigerant Charge	oz	35.3
Connection Pipe Length	ft	24.6
Connection Pipe Gas Additional Charge	oz/ft.	0.2
Outer Diameter of Liquid Pipe	inch	1/4"
Outer Diameter of Gas Pipe	inch	1/2"
Max Distance Height	ft	33
Max Distance Length	ft	66

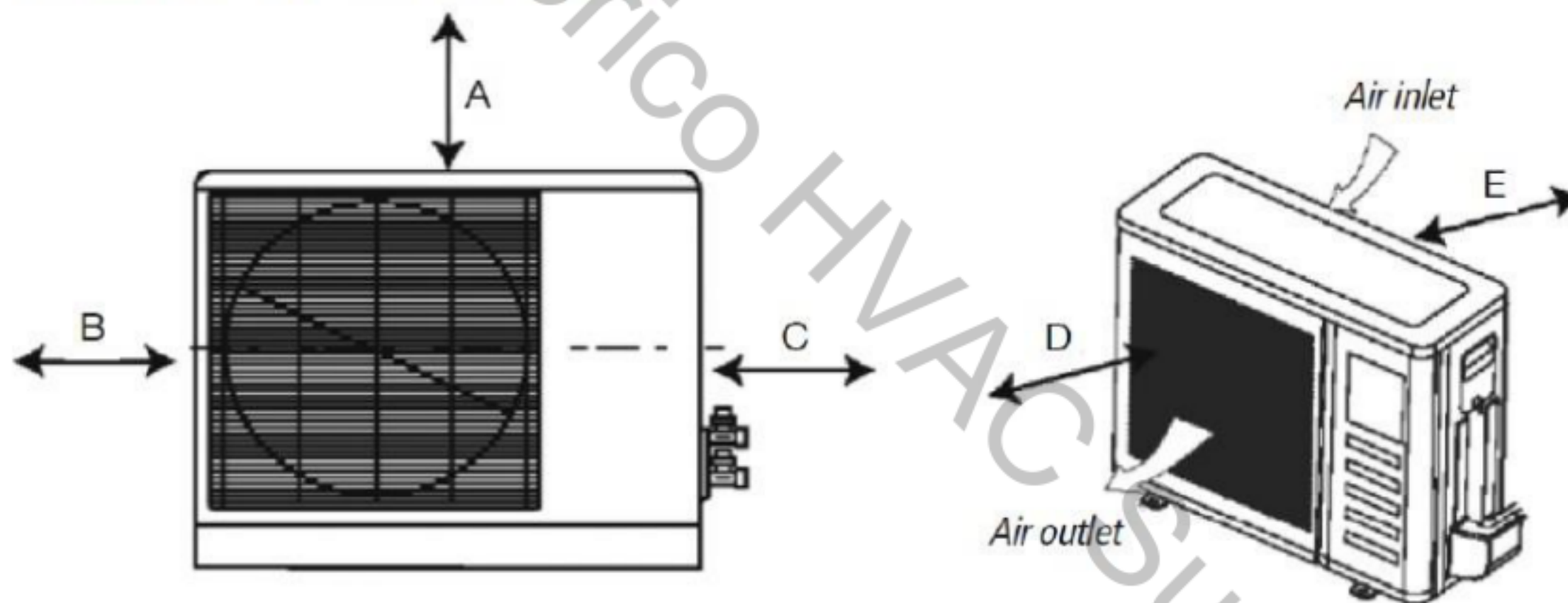
Functions				
Auto	Self-Diagnosis	Quiet	Energy Saving	Horizontal Auto Swing
Cooling	Lock	I Feel	8°C Heating Mode	Auto Fan
Heating	Filter Dirty Alarm	Intelligent Preheating	Turbo Cooling	Intelligent Defrosting
Dehumidify	Compressor Electric Heater Function	Ventilation	Low Ambient Cooling	Force Defrosting
WIFI	Chassis Electric Heater Function	Dry Anti-mildew Design	Low Ambient Heating	Timer Feature
Sleep Mode	LCD (Back Light)	Several Optional Filters	Low Voltage Startup	Memory
Vertical Auto Swing	LED	Auto Clean	Standby	Multi Speeds

MINIMUM SPACING REQUIREMENTS

Units: inch (mm)



Minimum Outdoor Clearances



Outdoor Unit	Minimum Distances in (mm)
A	20 (500)
B	12 (305)
C	20 (500)
D	80 (2032)
E	12 (305)

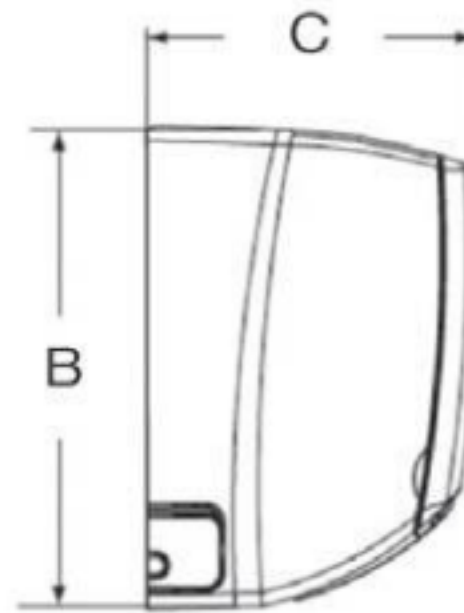
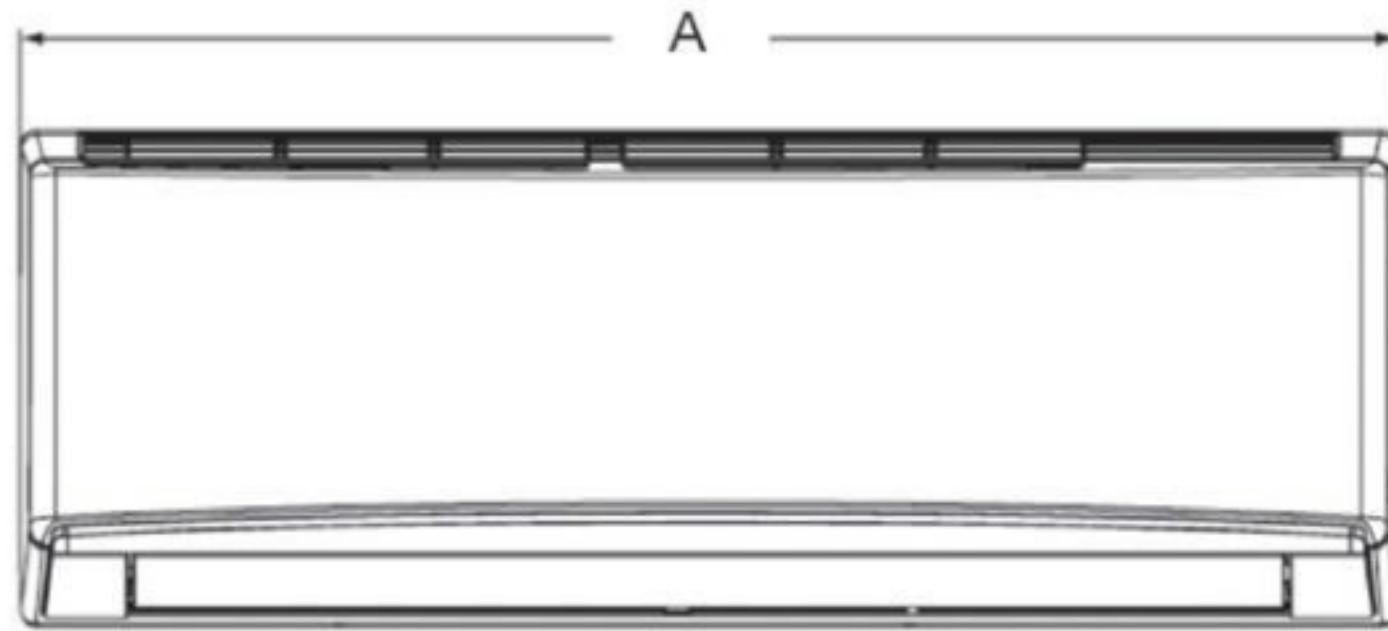
DIMENSIONAL SPECIFICATIONS

TWH12AVD29R32A1A

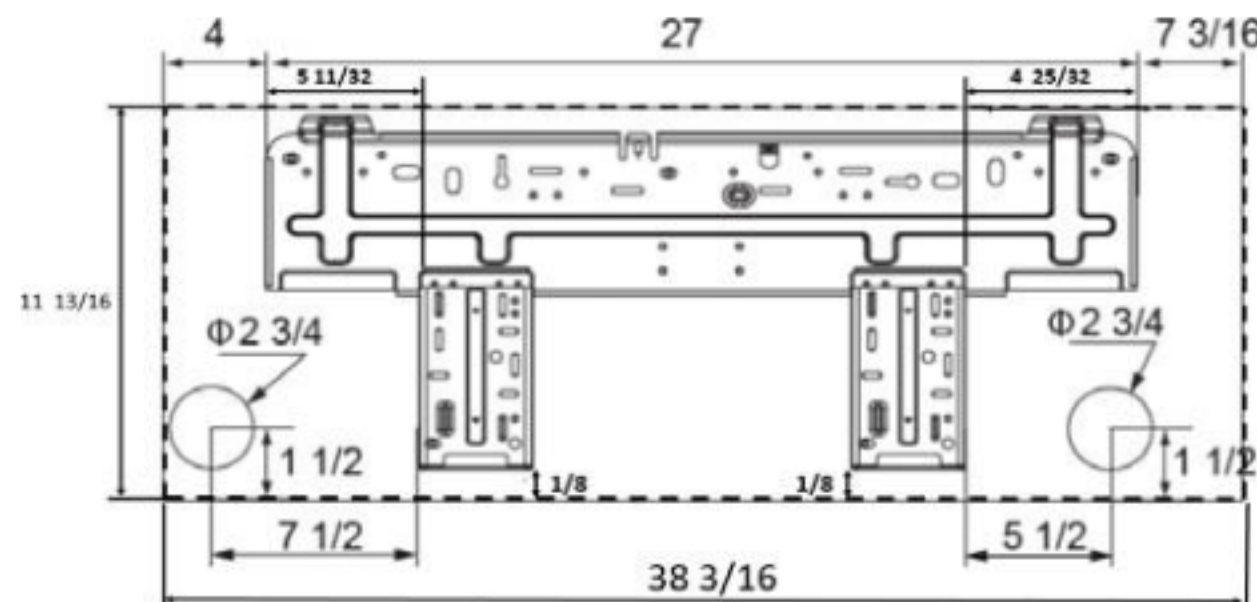
INDOOR UNIT DIMENSIONS

Units: inch

Model No: TWH12AVD29R32A1AI



Dimensions	
A	38.2
B	11.8
C	8.9



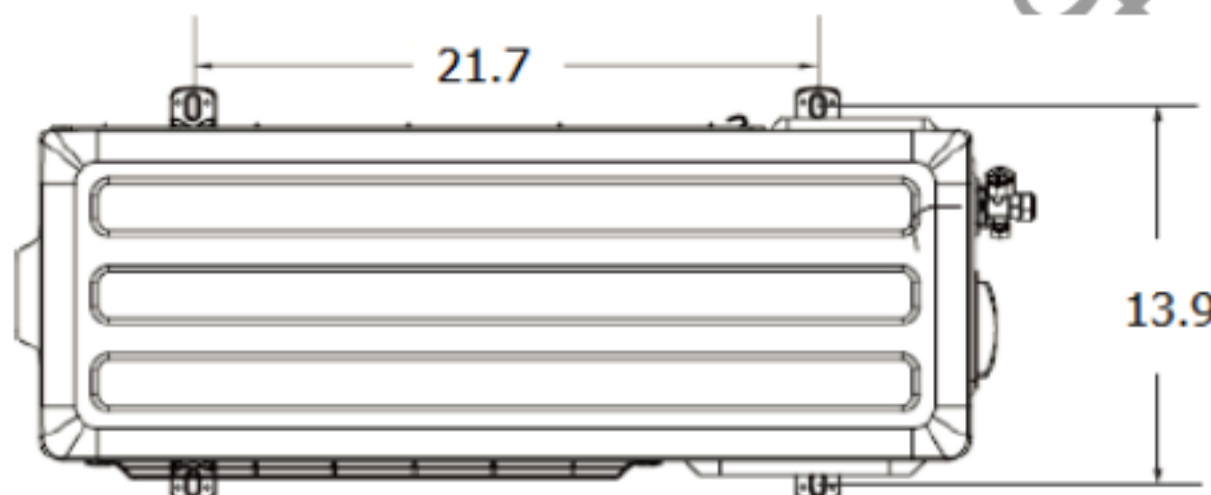
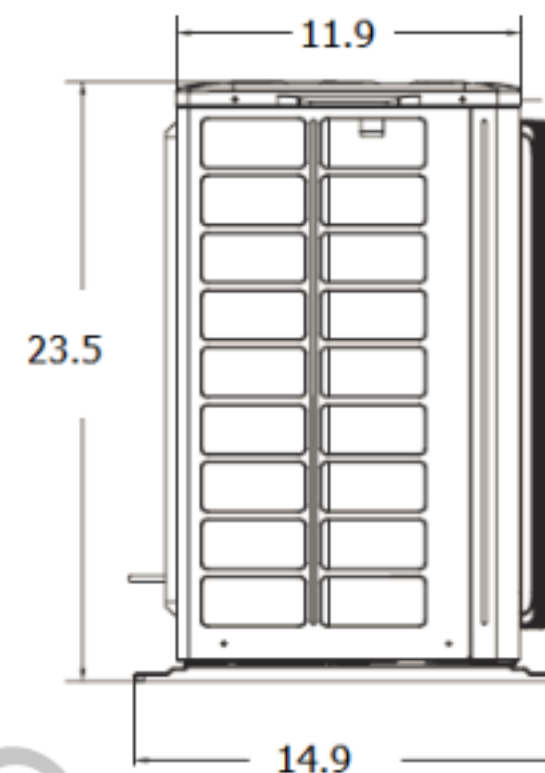
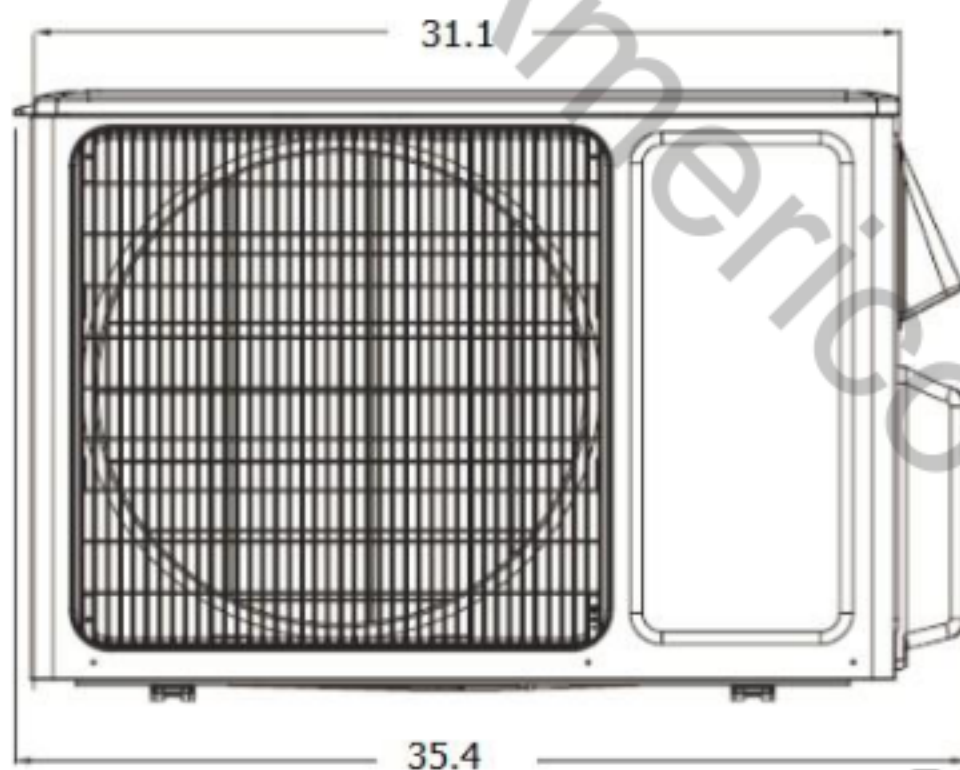
Weight (Net/Shipping) 29.8/36.4 LBS

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	1/2-in OD Flared
Drain Connector	5/8-in OD

OUTDOOR UNIT DIMENSIONS

Units: inch

Model No: TWH12AVD29R32A1AO



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

Weight (Net/Shipping) 99.2/105.8 LBS

Notes:

1. Recommended Interconnecting Cable Type 14 AWG 4 Stranded Copper Conductors THHN 600V Wire
2. Power wiring cable size must comply with applicable national and local codes.
3. Test conditions are based on AHRI 210/240.