



TOSOT

SUBMITTAL DATA

Single Zone 29 Seer 24KBTU

Model: TWH24AVE29R32A1AI/ TWH24AVE29R32A1AO

Job Name

Location

Date

Purchaser

Engineer

Submitted to

For

Unit Designation

Schedule No.



YBE1FB9F



TWH24AVE29R32A1AI



TWH24AVE29R32A1AO



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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Hayward, CA. 94544



SPECIFICATIONS & FUNCTIONS:

Model		TWH24AVE29R32A1A
Power Supply	VAC / Phase / Hertz	208-230/1/60
Power Supply Mode	-	Outdoor
Cooling Capacity	Btu/h	22000
Heating Capacity	Btu/h	24000
Cooling Power Input	W	1573
Heating Power Input	W	1803
Rated Input	W	4800
Rated Current	A	21.5
EER	(Btu/h)/W	13.98
COP	(Btu/h)/W	13.31
SEER	SEER2	27.5
HSPF	HSPF2	10
Air Flow Volume(H-L)	CFM	765×441×383×212
Dehumidifying Volume	Pint/h	7.4
Application Area	sq ft	495-750

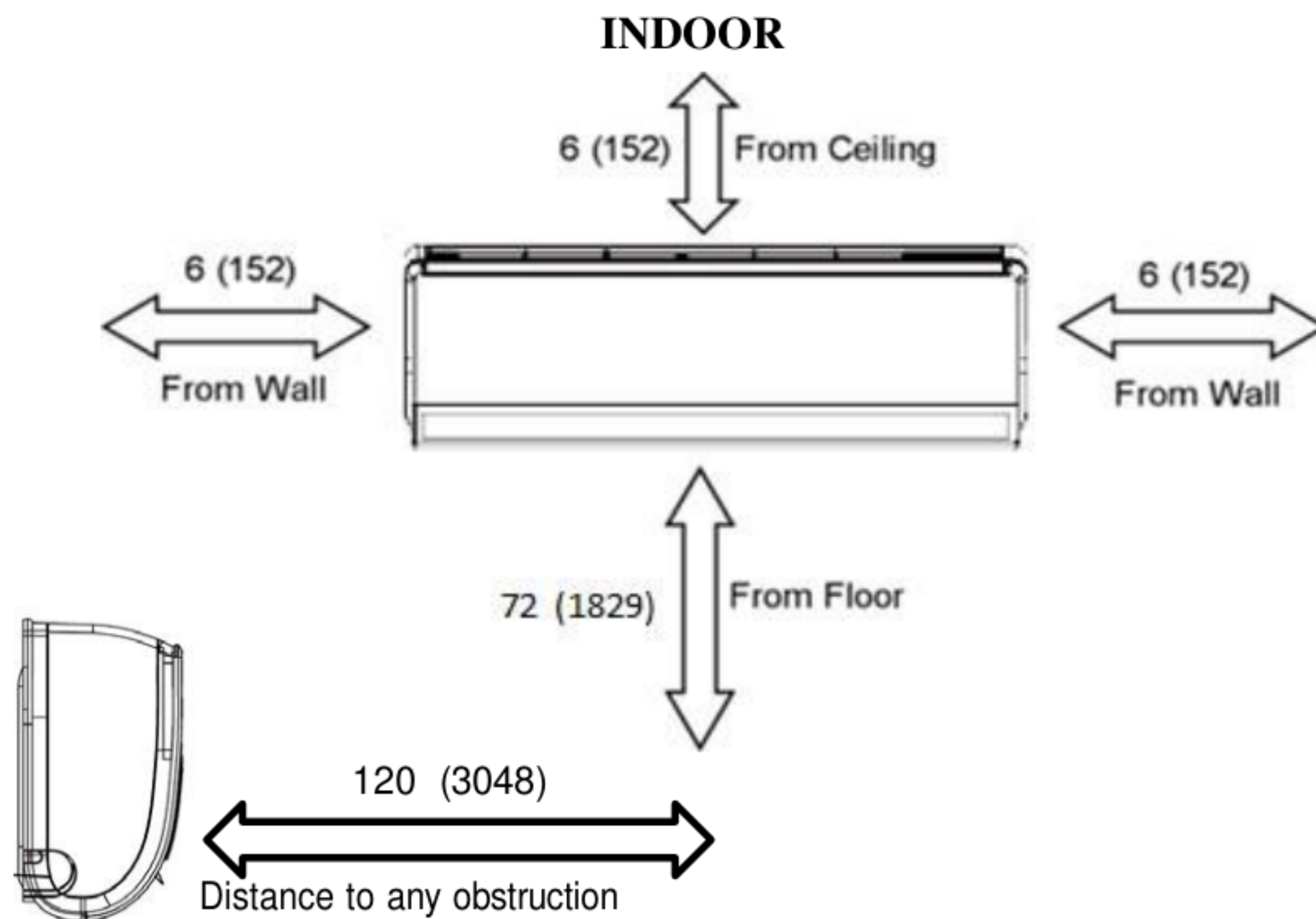
Indoor Unit Model		TWH24AVE29R32A1AI
Fan Type	-	Cross-flow
Fan Diameter Length (D×L)	mm	φ111.5×830
Cooling Speed	r/min	1450/1150/1100/ 1000/950/900/850
Heating Speed	r/min	1450/1200/1100/ 1050/1000/950/850;
Fan Motor Power Output	W	110
Fan Motor RLA	A	0.85
Motor ratings	hp	0.15
Evaporator Form	-	Aluminum Fin-copper Tube
Evaporator Pipe Diameter	mm	φ7
Evaporator Row-fin Gap	mm	2-1.2
Evaporator Coil Length (L×D×W)	mm	840×25.4×381
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:46-89
Sound Pressure Level Cooling mode	dB (A)	53/45/44/41/39/38/36
Sound Power Level Cooling mode	dB (A)	65/57/56/53/51/50/48
Sound Pressure Level Heating mode	dB (A)	65/57/56/53/51/50/48
Sound Power Level Heating mode	dB (A)	65/57/55/53/52/51/48
Dimension (W x H x D)	inch	43 45/64×13 42/64×10 8/64
Net Weight	lb	39.7
Gross Weight	lb	46.3

Outdoor Unit Model		TWH24AVE29R32A1AO
Compressor Manufacturer	-	LANDA
Compressor Model	-	QXFS-B221zX070S
Compressor Oil	-	FW68DA or equivalent
Compressor Type	-	Twin Rotary
Compressor RLA	A	18
Compressor Power Input	W	1775
Outdoor Unit Fan Type	-	Axial-flow
Outdoor Unit Fan Diameter	mm	570
Fan Motor Speed	rpm	800
Fan Motor Power Output	W	90
Motor ratings	hp	0.12
Fan Motor RLA	A	1.7
Air Flow Volume	CFM	2648
Condenser Form	-	-
Condenser Pipe Diameter	mm	φ7
Condenser Rows-fin Gap	mm	2-1.4
Condenser Coil Length (L×D×W)	mm	955×38.1×704
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.	798
Cooling Operation Ambient Temperature Range	°F	-20~122
Heating Operation Ambient Temperature Range	°F	-22~86
Metering Device	Electronic expansion valve	
Defrosting Method	Automatic Defrosting	
Sound Pressure Level (H)	dB (A)	62
Sound Power Level (H)	dB (A)	72
Dimension (WxHxD)	inch	39 24/64×29 24/64×16 52/64
Outdoor Unit Net Weight	lb	115.8
Outdoor Unit Gross Weight	lb	126.8
Refrigerant	--	R32
Factory Refrigerant Charge	oz	56.4
Connection Pipe Length	ft	24.6
Connection Pipe Gas Additional Charge	oz/ft.	0.4
Outer Diameter of Liquid Pipe	inch	1/4"
Outer Diameter of Gas Pipe	inch	5/8"
Max Distance Height	ft	82
Max Distance Length	ft	131

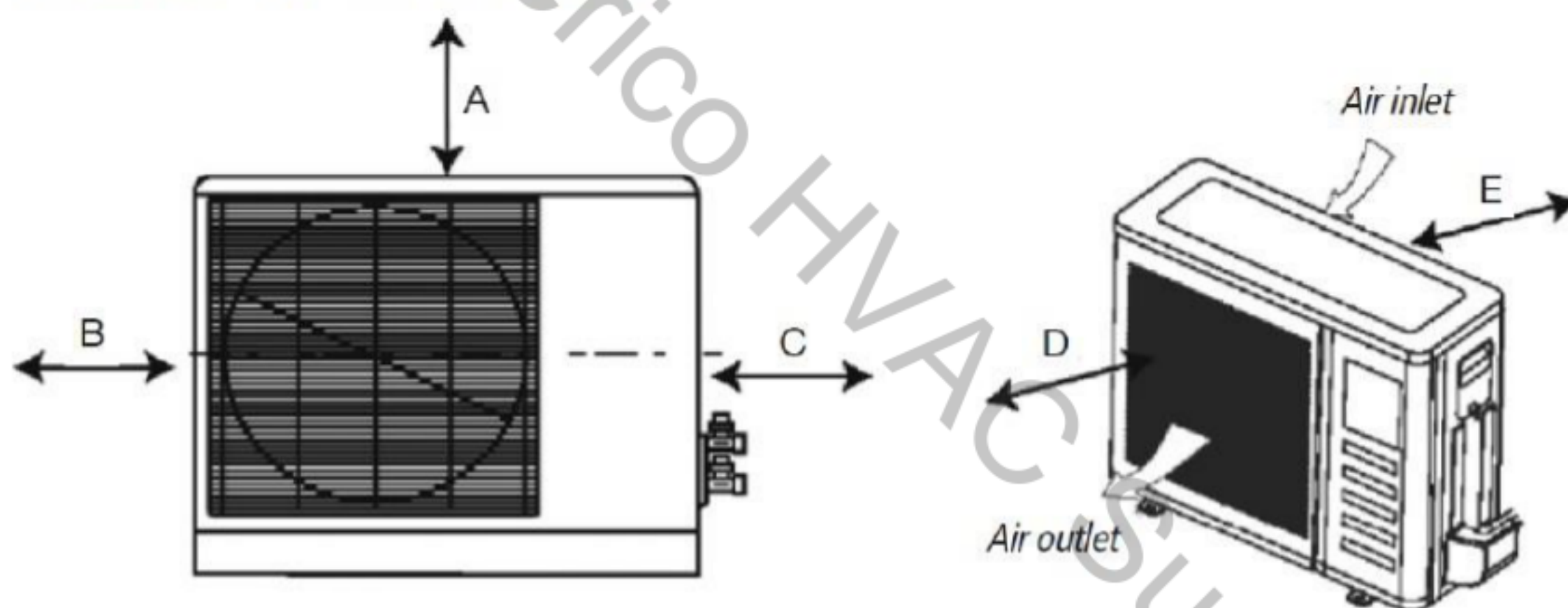
Functions				
Auto	Self-Diagnosis	Quiet	Energy Saving	Horizontal Auto Swing
Cooling	Lock	I Feel	8°C Heating Mode	Auto Fan
Heating	Filter Dirty Alarm	Intelligent Preheating	Turbo Cooling	Intelligent Defrosting
Dehumidify	Compressor Electric Heater Function	Ventilation	Low Ambient Cooling	Force Defrosting
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)

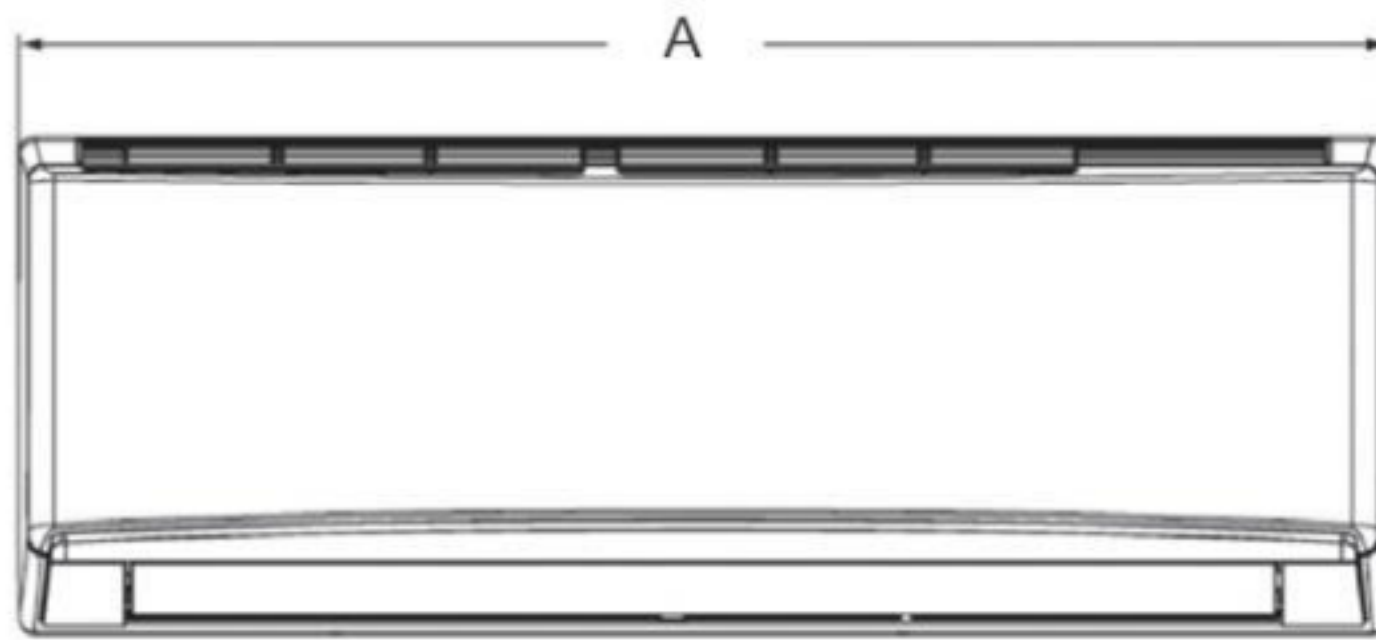
DIMENSIONAL SPECIFICATIONS

TWH24AVE29R32A1A

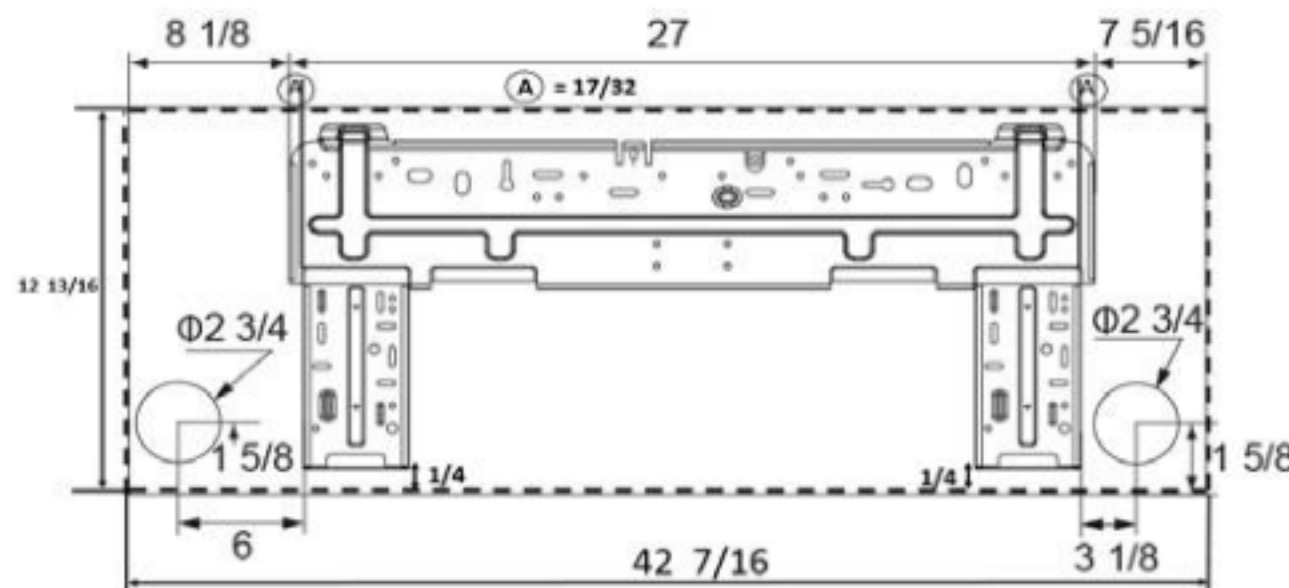
INDOOR UNIT DIMENSIONS

Units: inch

Model No: TWH24AVE29R32A1AI



Dimensions	
A	42.5
B	12.8
C	9.7



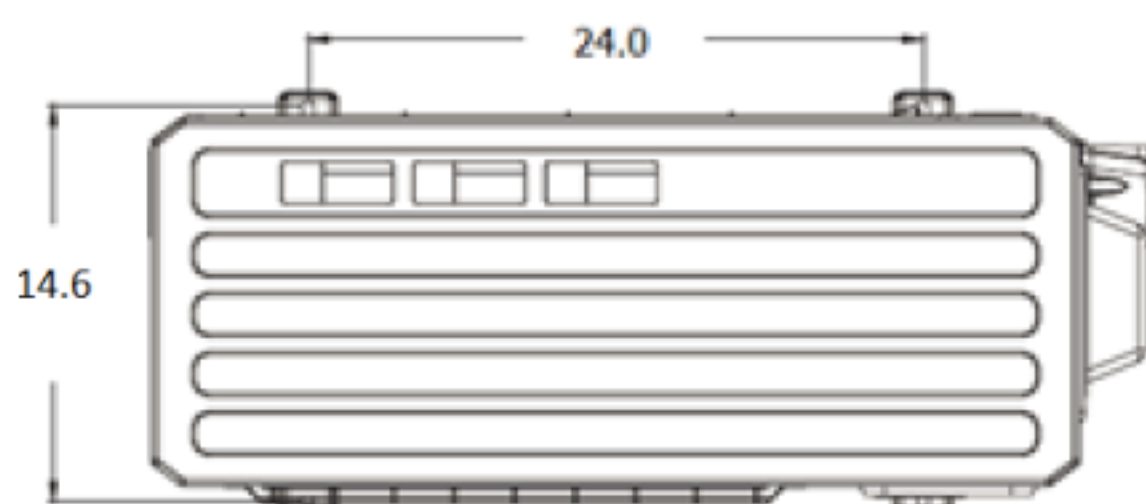
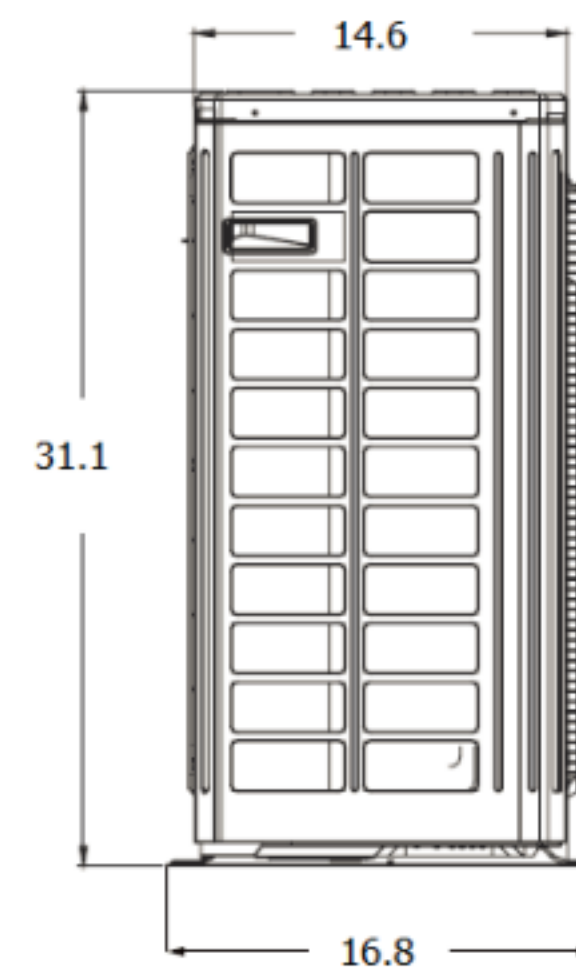
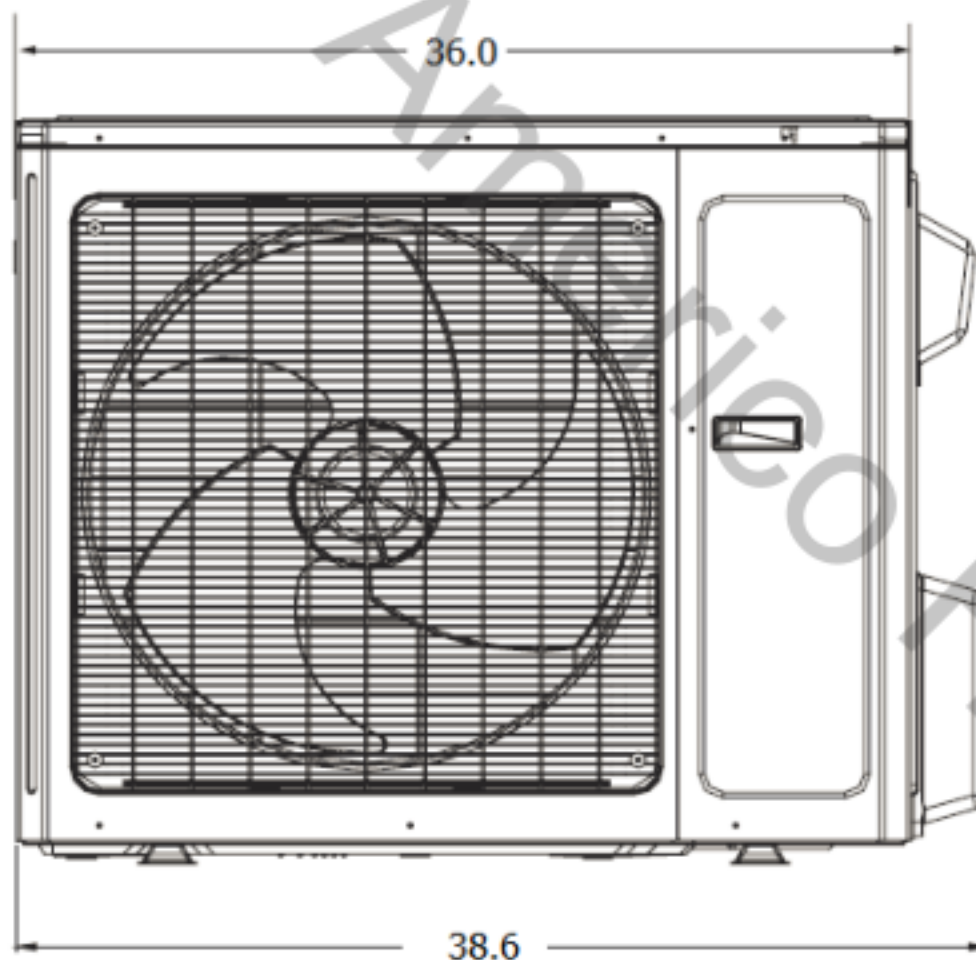
Weight (Net/Shipping) 35.3/41.9 LBS

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

OUTDOOR UNIT DIMENSIONS

Units: inch

Model No: TWH24AVE29R32A1AO



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

Weight (Net/Shipping) 147.7/158.8 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.