

**APEX Heat Pump 24,000**

**TQSDT**

**TU36-24WADU  
TUD24-24AH2ADU**

Project Name:

Engineer Name:

Unit Designation:

Submitted To:

Date:

Location:

Purchaser:

Schedule No.

### **General Features**

- High And Low Pressure Protection Features
- Over Load Protection Features
- 80% Heating Capacity at -20C/-4F
- Stable Operation at -30C/-22F
- Built-In Drain Pan Heater
- Intelligent Defrost



- 24V Controls Compatibility
- Field Adjustable Capacity
- Universal Indoor Unit Compatibility

### **Unit Performance:**

Cooling:	-	-
24K Capacity (Min Rated Max, Btu/h)	12,000-24,000-24,000	
SEER*	20*	
EER (Btu/h)/w*	12.5*	
Heating:	-	-
24K Capacity (Min Rated Max, Btu/h)	12,000-24,000-30,000	
HSPF*	10	
COP (W/W)*	4.2	

### **Piping**

Refrigerant Charge (ozs)	148
Liquid Line (in)	3/8
Gas Line (in)	3/4
Max Total Piping (ft)	100
Total Piping Length (with factory charge, ft)	31
Max Elevation between ODU and IDU (ft)	50

### **Operating Range:**

Cooling (°F)	-5~118
Heating (°F)	-22~86

### **Unit Specification**

Refrigerant Type	R410A
Refrigerant Control	EEV/TXV
Sound Pressure (dB(A))	52/55
Net Weight (lbs)	217
Heat Exchanger Coating	BlueFin™

### **Electrical Specification**

Power Supply	208-230V / 60Hz
Communications Wire Size	AWG 18/5
MOP (A)	35
MCA (A)	24
Cooling Rated Amps (A)	21
Heating Rated Amps (A)	25
Control Voltage	24VAC

### **Compressor:**

Quantity	1
Type	Inverter Rotary
Oil/Type	RB68EP

### **Fan**

Type	Axial-flow
Quantity	1
Motor/Drive	DC motor/Direct drive



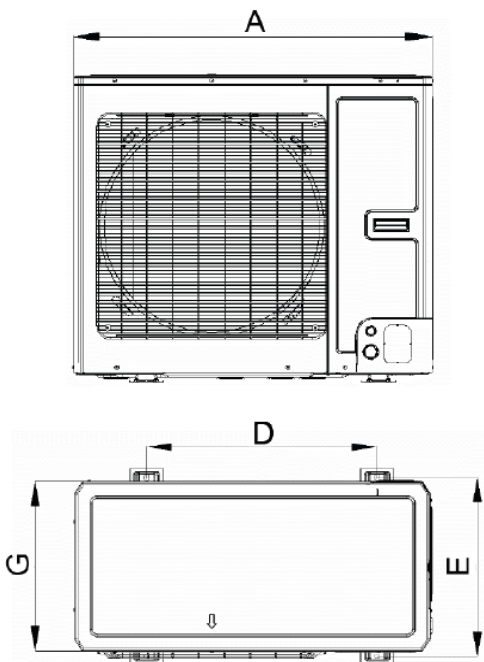
\*Efficiency ratings when paired with a tested, certified AHRI matched indoor unit.

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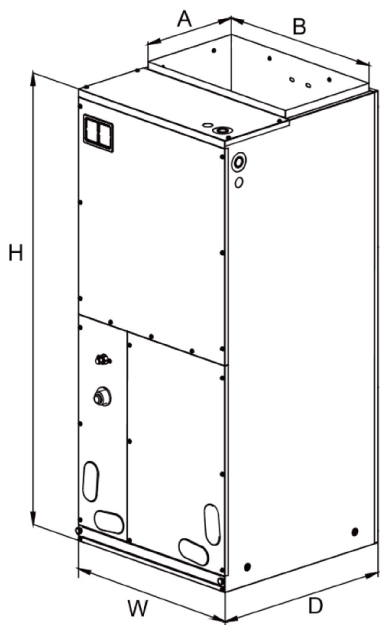
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Outline Dimension Diagram



Outdoor Unit

Dimensions	
A	37
B	20 1/8
C	32 1/4
D	24
E	19 1/8
G	18 1/8



Indoor Unit

W	D	H
21 1/4"	21 1/4"	48 1/4"

Supply Air Opening

A	B
11 5/8"	20"

Filter Size

19 1/4" x 20 1/4" x 1"
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Air Handler			TUD24-24AH2ADU
Cooling Capacity (btu/h)			24,000
Heating Capacity (btu/h)			24,000
Power Supply			208-230/1/60
Power Consumption (W)			373
Air Flow Volume (CFM)			960
MOP*			15A
ESP (MAX, in. W.G.)			1.0
Sound Pressure Level dB(A)			45
Liquid Pipe	In.		3/8
Gas Pipe	In.		3/4
Net Weight	lbs		156

\*MOP rating only for installations with no auxiliary heat

		Static Pressure-In. W.C.											
		0	0.1	0.15	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
CFM	Speed 1	1030	900	840	760								
	Speed 2	1080	960	900	840	760							
	Speed 3	1220	1120	1060	990	850							
	Speed 4	1390	1290	1240	1180	1070	960	800					
	Speed 5	1580	1490	1440	1390	1290	1180	1090	970	830			
	Speed 6	1720	1640	1600	1550	1450	1360	1250	1130	960	800		
	Speed 7	1800	1730	1680	1630	1550	1460	1370	1270	1150	970	830	
	Speed 8	1850	1820	1790	1740	1660	1580	1500	1410	1340	1200	1080	930

Optional Electric Auxiliary Heaters (Breaker(s) Included)					
	Heat Kit Model	KW	MCA	MOP	Min. CFM*
Available Sizes	HNRD8	8	40	45	505
	HNRD10	10	52	60	632
*Minimum CFM required to achieve 50F temperature rise. CFM MUST be field verified. Improper CFM may result in equipment damage and personal injury, and will void the equipment warranty.					

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