

**APEX Heat Pump 48,000**

**TQSDT**

**TU60-48WADU  
TUD48-24AH2ADU**

Project Name:

Location:

Engineer Name:

Purchaser:

Unit Designation:

Schedule No.

Submitted To:

Date:

### **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:**

48K Capacity (Min Rated Max, Btu/h) 34,000-48,000-48,000

SEER\* 18

EER (Btu/h)/w\* 11

#### **Heating:**

48K Capacity (Min Rated Max, Btu/h) 34,000-48,000-52,000

HSPF\* 10.5

COP (W/W)\* 3.6

### **Unit Specification**

Refrigerant Type	R410A
Refrigerant Control	EEV/TXV
Sound Pressure (dB(A))	58
Net Weight (lbs)	308
Heat Exchanger Coating	BlueFin™

### **Electrical Specification**

Power Supply	208-230V / 60Hz
Communications Wire Size	AWG 18/5
MOP (A)	45
MCA (A)	35
Cooling Rated Amps (A)	30
Heating Rated Amps (A)	31
Control Voltage	24VAC

### **Compressor:**

Quantity	1
Type	Inverter Rotary
Oil/Type	RB68EP

### **Fan**

Type	Axial-flow
Quantity	2
Motor/Drive	DC motor/Direct drive

### **Piping**

Refrigerant Charge (ozs)	220.5
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



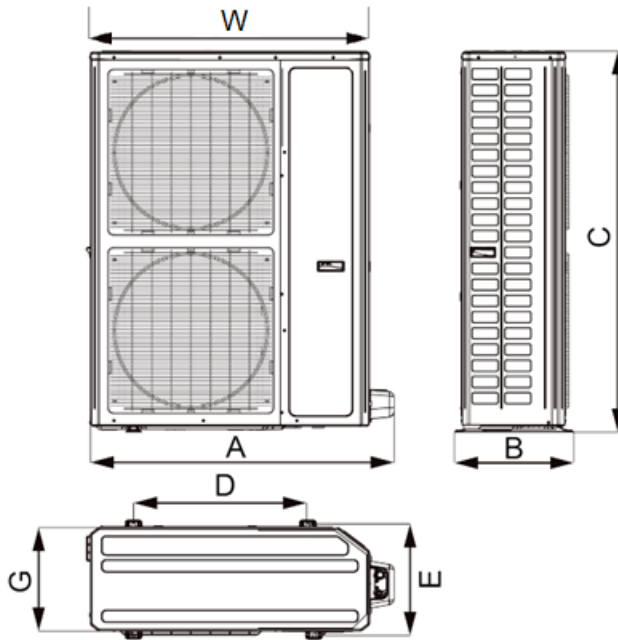
\*Efficiency ratings when paired with a tested, certified AHRI matched indoor unit.

**APEX Heat Pump 48,000**

**TQSDT**

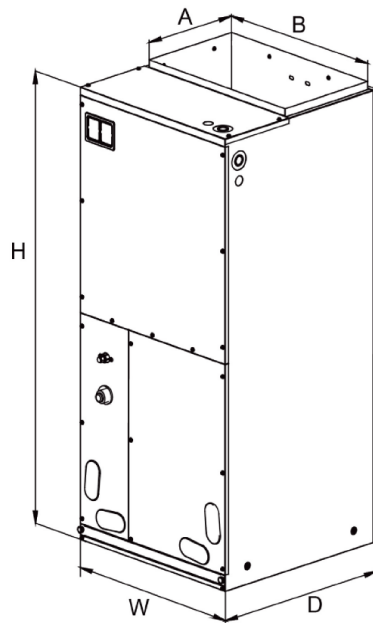
**TU60-48WADU  
TUD48-24AH2ADU**

### Outline Dimension Diagram



#### Outdoor Unit

Dimensions	
A	42 3/4
B	16 7/8
C	53 5/8
D	24 3/8
E	15 5/8
G	14 1/2
W	39 3/8



#### Indoor Unit

W	D	H
24 3/4"	21 1/4"	57"

#### Supply Air Opening

A	B
11 5/8"	20"

#### Filter Size

20 5/8" x 20 5/16" x 1"

**APEX Heat Pump 48,000**

**TQSDT**

**TU60-48WADU  
TUD48-24AH2ADU**



Air Handler		TUD48-24AH2ADU
Cooling Capacity (btu/h)		48,000
Heating Capacity (btu/h)		48,000
Power Supply		208-230/1/60
Power Consumption (W)		746
Air Flow Volume (CFM)		1,380
MOP*		15A
ESP (MAX, in. W.G.)		1.0
Sound Pressure Level dB(A)		50
Liquid Pipe	In.	3/8
Gas Pipe	In.	3/4
Net Weight	lbs	202

\*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 48K	Speed 1	1640	1500	1450	1400								
	Speed 2	1680	1560	1530	1470	1300							
	Speed 3	1810	1690	1620	1550	1380							
	Speed 4	1930	1830	1770	1710	1580	1430	1280					
	Speed 5	2200	2110	2040	1980	1860	1720	1620	1490	1380			
	Speed 6	2240	2190	2145	2100	2010	1870	1750	1615	1500	1380		
	Speed 7	2280	2240	2200	2180	2130	2080	2000	1880	1750	1600	1420	
	Speed 8	2300	2260	2220	2190	2140	2090	2040	1980	1930	1800	1700	1550

**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
	HNRD15**	15	52 + 26	60 + 30	948
	HNRD20**	20	52 + 52	60 + 60	1,264

\*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.

\*\*Additional jumper bar required for proper breaker mounting. SEE BULLETIN.

315 Boulevard Industriel, Châteauguay, Contact: +1 (450) 698-4000  
QC, Canada J6J 4Z2