

**Ultra Heat Multi Zone Heat Pump**

**TOSOT**

**MODEL: TM24H50**

Project Name:

Location:

Engineer Name:

Purshaser:

Unit Designation:

Schedule No.

SubmittedTo:

Date:



**General Features**

- High And Low Pressure Protection Features
- Over Load Protection Features
- 100% Heating Capacity at -4F
- 80% Heating Capacity at -22F
- Stable Operation at -31F!
- Drain Pan Heater Included

- Over-Current Protection
- Anti Freeze Protection
- Optional BMS Integration

**Unit Performance:**

Cooling:	-	-
Capacity (Min Rated Max, Btu/h)	7,500-22,000-33,000	
SEER		23
EER (Btu/h)/w		12.5
Heating:	-	-
Capacity (Min Rated Max, Btu/h)	7,650-26,000-31,000	
HSPF		10.5
COP (W/W)		3.66

**Unit Specification**

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure (dB(A))	60
Net Weight (lbs)	174
Min. Number IDU	1
Max. Number IDU	3
Dehumidification (Pint/h)	N/A
Heat Exchanger Coating	GoldFin™

**Piping**

Refrigerant Charge (lbs)	6
Liquid Line (in)	1/4
Gas Line (in)	3/8
Max Total Piping (ft)	229.6
Max ODU to IDU Piping (per zone, ft)	82
Total Piping Length (with factory charge, ft)	98.4
Max Elevation between ODU and IDU (ft)	26
Max Elevation between IDU and IDU (ft)	26

**Electrical Specification**

Power Supply	208-230V / 60Hz
Communications Wire Size	AWG 14/4
MOP (A)	40
MCA (A)	30
Cooling Rated Amps (A)	7.65
Heating Rated Amps (A)	9.1
Compressor RLA (A)	17
Fan Motor RLA (A)	0.38
Nominal Cooling Power Input (kW)	1.76
Nominal Heating Power Input (kW)	2.09

**Operating Range:**

Cooling (°F)	0~118
Heating (°F)	-31~75

**Compressor:**

Quantity	1
Type	Inverter Rotary
Oil/Type	FW68DA

**Fan**

Type	Axial-flow
Quantity	1
Motor/Drive	DC motor/Direct drive
Max Air Flow Rate (CFM)	2530



Outline Dimension Diagram

Size and clearance				
	L	920	mm	
	P	380	mm	
	H	790	mm	

**GLOSSARY**

- SEER - Seasonal Energy Efficiency Ratio
- EER - Energy Efficiency Ratio
- HSPF - Heating Seasonal Performance Factor
- MOP - Maximum Overcurrent Protection
- MCA - Minimum Circuit Ampacity

Ultra Heat Multi Zone Heat  
Pump

**TOSOT**

MODEL: TM24H5O

Approved By:

---

Signature

Date

**TOSOT**

315 Boulevard Industriel, Châteauguay, QC, Canada J6J 4Z2  
Contact: +1 (450) 698-4000  
[info@tosotamerica.com](mailto:info@tosotamerica.com)  
[tosotamerica.com](http://tosotamerica.com)