



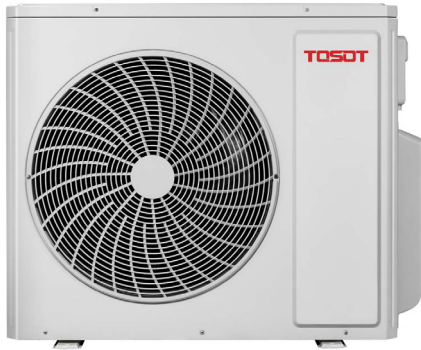
# MULTI-ROOM DUCTLESS HEAT-PUMP SYSTEMS

36,000 BTU / H WALL MOUNTED HEAT- PUMP SYSTEM

## SUBMITTAL DATA: TM36HX40

Job Name	Location	Date
Purchaser	Engineer	
Submitted To	For	<input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction
Unit Designation	Schedule No.	

**AHRI CERTIFIED REF  
211164242 (NON-DUCTED) &  
211164247 (DUCTED)**



### GENERAL FEATURES

- Up to 5 Indoor Units(5-Port)
- Heating as low as -22F
- DC Inverter Twin Rotary Technology
- Quiet Operation - Both Indoor & Outdoor
- Acrylic Resin/Anti-Corrosion Coil Protection
- Intelligent Defrost
- Auto Restart on Power Outages
- Multi-point Diagnostics

SYSTEM RATINGS		OUTDOOR UNIT DATA	
<b>Non-Ducted Indoor</b>		<b>Compressor</b>	
Rated Cooling Capacity(95F)	34,000 BTUH	Type	DC Inverter Driven Twin Rotary
Cooling Capacity (min-max)		RLA	18.2 A
Rated Heating Capacity(47F)	36,000 BTUH	<b>Compressor Crankcase and Base Pan Heaters included</b>	
Low temperature heating(17F)	30,800 BTUH	<b>Fan Motor</b>	
Heating Capacity (min-max)		Output Power	130W
SEER2/EER2	21/12	FLA	/
HSPF2/COP	10/3.6	Air Flow (Max)	3,413 CFM
<b>Ducted Indoor</b>		<b>Sound Pressure Level</b>	
Rated Cooling Capacity(95F)	34,000 BTUH	Cooling	56 db(A)
Cooling Capacity (min-max)		Heating	56 db(A)
Rated Heating Capacity(47F)	36,000 BTUH	<b>Dimensions &amp; Weights</b>	
Low temperature heating(17F)	30,000 BTUH	Unit Dimensions (LxHxD)	40.2 x 32.5 x 16.8 -in
Heating Capacity (min-max)		Weight (Net/Shipping)	172/187.4 LBS
SEER2/EER2/HSPF2	16/11/8	Min. Number of Indoor Units	1
<b>Operating Range</b>		Max. Number of Indoor Units	4
Cooling (min-max)	-22 ~ 118°F	<b>REFRIGERANT PIPING DATA</b>	
	-30 ~ 48°C	Refrigerant Type	R410A
Heating (min-max)	-22 ~ 75.2°F	Refrigerant Charge	130.5oz
	-30 ~ 24°C	Additional Charge Per Line Length	0.20-oz/ft
<b>Power Supply</b>		Connection Method	Flared
Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz	Factory Charge for Total Line Length	131.2-ft
Voltage Range	187 - 253 V	Max Total Refrigerant Pipe Length	262.5-ft
Main Power Wire Size	10-2 AWG	Max Refrigerant Piping Height Distance(indoor and outdoor)	82-ft
Interconnecting Cable Wire Size	14-4 AWG	Max Refrigerant Piping Length to any Indoor Unit	82-ft
Rated Current (Cooling/Heating)	20.4/21.7 A	Max Refrigerant Piping Height Distance(up indoor and outdoor)	82-ft
MCA	26 A	Max Refrigerant Piping Height Distance(indoor and up outdoor)	82-ft
MOCB	35 A		
Suggested Breaker Size	30 A		

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## FEATURES & FUNCTION SUMMARY: TM36HX40

SYSTEM FEATURES	
Inverter Type	DC Inverter
Ultra Low Frequency Torque Control	YES
Power Factor Correction	YES
Compressor Type	Twin Rotary
Refrigerant Type	R410A
Basepan With Electric Heater	YES
Compressor With Electric Heater	YES
Condenser Fan	Axial
Condenser Motor Type	ECM
Condenser Motor Drive	Direct
Condenser Coil	Aluminum Fin/Copper Tube
Outdoor Fin Coating (Blue)	Acrylic Resin
Intelligent Defrosting	YES
Low Voltage Startup	YES
Memory/Power Failure Recovery	YES
Self Diagnosis	YES
Low Ambient Cooling	YES
XK19 Wired Controller Interface	YES
<b>REMOTE CONTROLLER FUNCTIONS</b>	<b>See individual Indoor Unit Controllers Functions</b>
XK19 WIRED CONTROLLER FUNCTIONS <sup>2</sup>	
On/Off	YES
Operating Mode	YES
Fan Speed	YES
Room Setpoint	YES
Model Numbers	YES
Timer Mode	YES
Sleep Mode	YES
Turbo Mode	YES
X-Fan Mode	YES
Privacy Lock	YES

Note: Some indoor models may not support specific system features or functions.



## EXTENDED RATINGS: TM36HX40

COOLING PERFORMANCE																					
Outdoor Ambient Temperature (DB)		Return Air Temperature																			
		70°F (DB) / 59°F (WB)					75°F (DB) / 63°F (WB)					80°F (DB) / 67°F (WB)					90°F (DB) / 73°F (WB)				
		TC (Btu/h)	SC (Btu/h)	SHR	EER	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER (Btu/(h·W))	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER (Btu/(h·W))	Power Input (W)	TC (Btu/h)	SC (Btu/h)	SHR	EER (Btu/(h·W))	Power Input (W)
MAX OUTPUT*	-22°F																				
	-4°F																				
	5°F																				
	14°F																				
	23°F																				
	32°F																				
	41°F																				
	50°F																				
	59°F																				
	68°F																				
	77°F																				
	86°F																				
	95°F																				
104°F																					
113°F																					
118°F																					

\*Maximum Output values are not based on AHRI test conditions

<b>LEGEND:</b>	<b>W - Watts</b>
	<b>DB - Dry Bulb</b>
	<b>TC - Total Capacity</b>
	<b>SC - Sensible Capacity</b>
	<b>SHR - Sensible Heat Ratio</b>
	<b>COP - Coefficient of Performance</b>





## EXTENDED RATINGS: TM36HX40

HEATING PERFORMANCE										
Outdoor Ambient Temperature (DB)	Return Air Temperature									
	70°F (DB) / 59°F (WB)			75°F (DB) / 63°F (WB)			80°F (DB) / 67°F (WB)			
	TC (Btu/h)	COP (W/W)	Power Input (W)	TC (Btu/h)	COP (W/W)	SHR Power Input (W)	TC (Btu/h)	COP (W/W)	Power Input (W)	
<b>MAX OUTPUT*</b>	-22°F	24,020	1.58	4,460	23,708	1.52	4,558	23,107	1.45	4,661
	-5°F	29,048	1.85	4,604	28,670	1.79	4,705	27,944	1.70	4,811
	0°F	30,724	1.94	4,652	30,325	1.87	4,754	29,556	1.78	4,861
	5°F	32,400	2.02	4,700	31,979	1.95	4,803	31,169	1.86	4,912
	7°F	32,171	2.02	4,660	31,753	1.95	4,763	30,949	1.86	4,870
	17°F	30,800	2.04	4,420	30,400	1.97	4,517	29,630	1.88	4,619
	28°F	32,750	2.49	3,850	32,324	2.41	3,935	31,506	2.30	4,023
	38°F	34,375	2.99	3,375	33,928	2.88	3,449	33,069	2.75	3,527
	47°F	36,000	3.64	2,900	35,532	3.51	2,964	34,632	3.35	3,031
	57°F	37,080	3.92	2,771	36,598	3.79	2,832	35,671	3.61	2,896
	68°F	38,520	4.14	2,727	38,019	4.00	2,787	37,056	3.81	2,849
77°F	39,600	4.35	2,665	39,085	4.21	2,724	38,095	4.01	2,785	

\*Maximum Output values are not based on AHRI test conditions

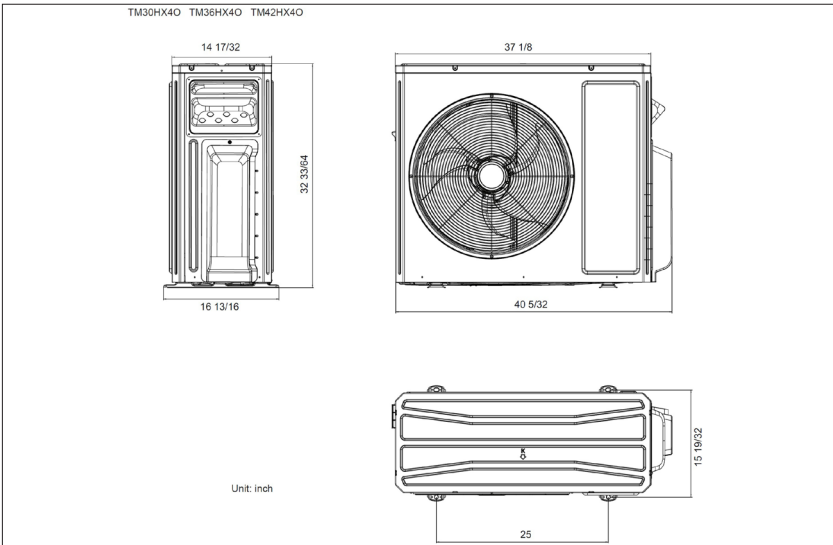
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	<b>SHR - Sensible Heat Ratio</b>
	<b>COP - Coefficient of Performance</b>

## DIMENSIONAL SPECIFICATIONS: TM36HX40

### 36,000 BTUH MODEL

Model # TM36HX40

Units: inch



#### Suction/Gas Line Port Size

Port A	3/8-in OD Flared
Port B	3/8-in OD Flared
Port C	3/8-in OD Flared
Port D	3/8-in OD Flared

#### Liquid Line Port Size

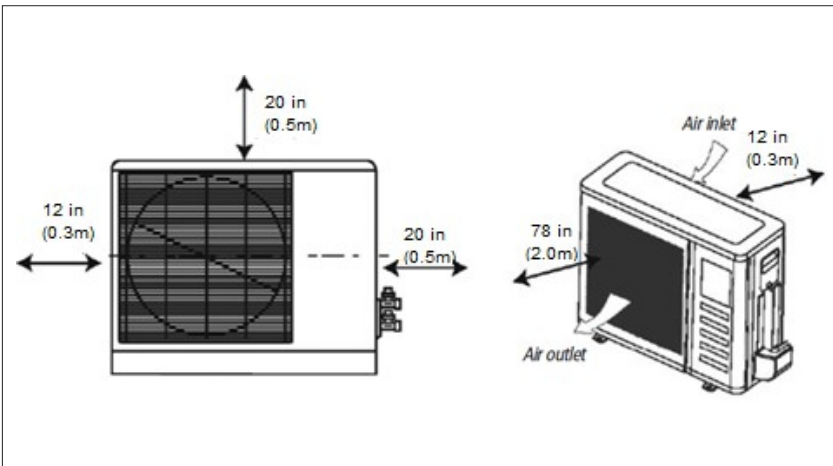
Port A	1/4-in OD Flared
Port B	1/4-in OD Flared
Port C	1/4-in OD Flared
Port D	1/4-in OD Flared

#### Factory Supplied Piping Adapters

Adapter	P/N	Qty
3/8 (F) to 5/8 (M)	6654100009	2
3/8 (F) to 1/2 (M)	6654100013	3
1/4 (F) to 3/8 (M)	6654104	2

### MINIMUM SPACING REQUIREMENTS

Units: inch



#### Notes:

1. Recommended Interconnecting Cable Type  
14 AWG 4 Stranded Copper Conductors Wire.

2. Power wiring cable size must comply with applicable national and local codes.

3. Test conditions are based on AHRI 210/240.