

TOSOT

MULTI-ROOM DUCTLESS HEAT-PUMP SYSTEMS

42000 BTU / H WALL MOUNTED HEAT- PUMP SYSTEM

SUBMITTAL DATA: TM42H30

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
10064025 (NON-DUCTED) &
10064026 (DUCTED)**



GENERAL FEATURES

- Up to 5 Indoor Units(5-Port)
- EnergyStar Rated
- G10 DC Inverter 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	
Non-Ducted Indoor		Compressor	
Rated Cooling Capacity	39,000 BTUH	Type	DC Inverter Driven Rotary
Cooling Capacity (min-max)	8,871-40,944 BTUH	RLA	17.8 A
Rated Heating Capacity	45,000 BTUH	Compressor Crankcase and Base Pan Heaters included	
Heating Capacity (min-max)	8,871-46,062 BTUH	Fan Motor	
SEER/EER	21/10.4	Output Power	170 W
HSPF/COP	10.2/3.6	FLA	0.8 A
Ducted Indoor		Air Flow (Max)	4,531 CFM
Rated Cooling Capacity	39,500 BTUH	Sound Pressure Level	
Cooling Capacity (min-max)	13,800-42,800 BTUH	Cooling	61 db(A)
Rated Heating Capacity	46,500 BTUH	Heating	61 db(A)
Heating Capacity (min-max)	7,500-47,000 BTUH	Dimensions & Weights	
SEER/EER	14.7/9.8	Unit Dimensions (LxHxD)	42.5 x 43.4 x 17.3 -in
Operating Range		Weight (Net/Shipping)	198.0/216.0 LBS
Cooling (min-max)	0 ~ 118°F	Min. Number of Indoor Units	1
	-18 ~ 48°C	Max. Number of Indoor Units	5
Heating (min-max)	-5 ~ 86°F	REFRIGERANT PIPING DATA	
	-21 ~ 30°C	Refrigerant Type	R410A
Power Supply		Refrigerant Charge	128.8 oz
Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz	Additional Charge Per Line Length	0.21-oz/ft
Voltage Range	187 - 253 V	Connection Method	Flared
Main Power Wire Size	8-2 AWG	Factory Charge for Total Line Length	131-ft
Interconnecting Cable Wire Size	14-4 AWG	Total Refrigerant Pipe Length	246-ft
MCA	24 A	Max Refrigerant Piping Length to any Indoor Unit	82-ft
MOCB/Breaker Size	40 A	Min Refrigerant Piping Length to any Indoor Unit	10-ft
		Max Elevation between Indoor Units	25-ft
		Max Lift from Outdoor to Indoor Unit	49-ft
		Max Drop from Outdoor to Indoor Unit	49-ft



FEATURES & FUNCTION SUMMARY: TM42H30

SYSTEM FEATURES	
Inverter Type	G10
Ultra Low Frequency Torque Control	YES
Power Factor Correction	YES
Compressor Type	Inverter Rotary
Refrigerant Type	R410A
Basepan With Electric Heater	YES
Compressor With Electric Heater	YES
Condenser Fan	Axial
Condenser Motor Type	DC
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
REMOTE CONTROLLER FUNCTIONS	See individual Indoor Unit Controllers Functions
XK19 WIRED CONTROLLER FUNCTIONS ²	
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

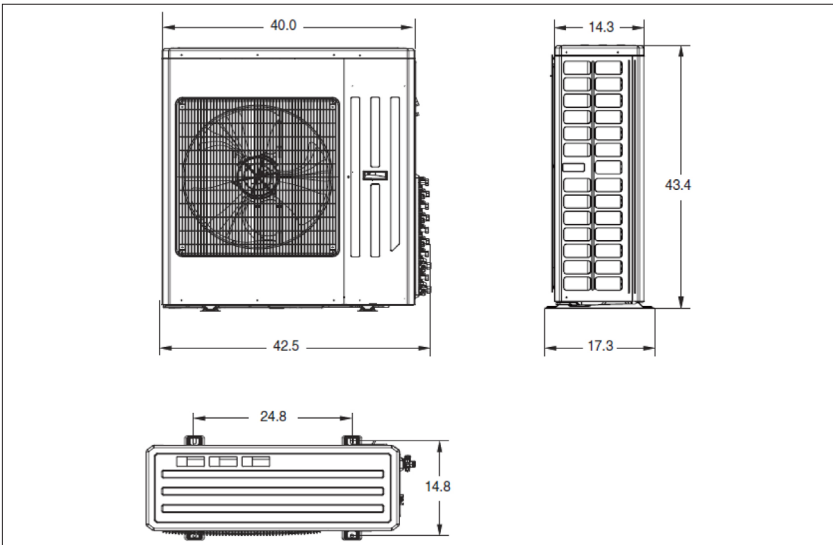
Note: Some indoor models may not support specific system features or functions.

DIMENSIONAL SPECIFICATIONS: TM42H30

42,000 BTUH MODEL

Model # TM42H30 42,000 BTUH 230V

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
Port E	3/8-in OD Flared

Liquid Line Port Size

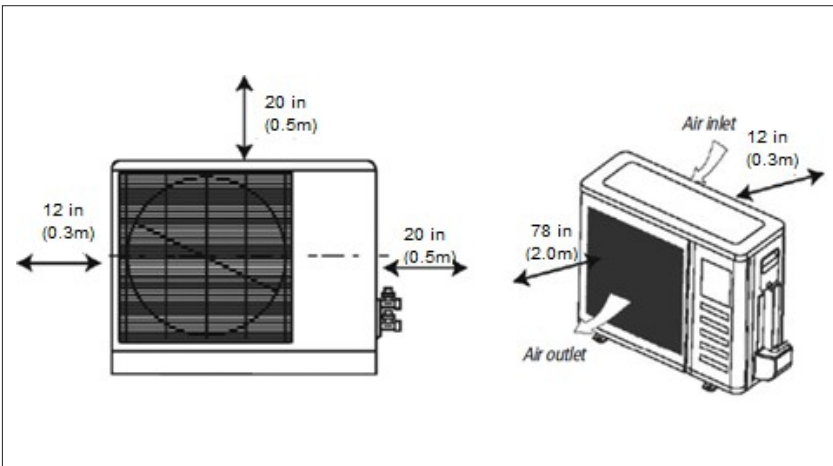
Port A	1/4-in OD Flared
Port B	1/4-in OD Flared
Port C	1/4-in OD Flared
Port D	1/4-in OD Flared
Port E	1/4-in OD Flared

Factory Supplied Piping Adapters

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



OPERATIONAL PERFORMANCE SPECIFICATIONS: TM42H30

COOLING CAPACITY (BTUH)						
Indoor Units Combinations	Rated System Capacity (BtuH)	Indoor Unit A (BtuH)	Indoor Unit B (BtuH)	Indoor Unit C (BtuH)	Indoor Unit D (BtuH)	Indoor Unit E (BtuH)
9+9	19,500	9,000	9,000	NA	NA	NA
9+12	21,000	9,000	12,000	NA	NA	NA
9+18	25,500	8,000	17,500	NA	NA	NA
9+24	26,300	7,000	19,300	NA	NA	NA
12+12	24,000	12,000	12,000	NA	NA	NA
12+18	28,400	11,400	17,000	NA	NA	NA
12+24	32,700	10,000	22,700	NA	NA	NA
18+18	31,680	15,840	15,840	NA	NA	NA
18+24	33,190	14,240	18,950	NA	NA	NA
24+24	35,120	17,560	17,560	NA	NA	NA
9+9+9	24,600	8,200	8,200	8,200	NA	NA
9+9+12	24,900	7,500	7,500	9,900	NA	NA
9+9+18	30,200	7,200	7,200	15,800	NA	NA
9+9+24	34,900	6,600	6,600	21,700	NA	NA
9+12+12	29,600	8,000	10,800	10,800	NA	NA
9+12+18	32,900	7,400	9,800	15,700	NA	NA
9+12+24	36,100	6,800	9,100	20,200	NA	NA
9+18+18	36,100	6,500	14,800	14,800	NA	NA
12+12+12	31,200	10,400	10,400	10,400	NA	NA
12+12+18	35,100	9,960	9,960	15,180	NA	NA
12+12+24	37,500	9,300	9,300	18,900	NA	NA
12+18+18	37,500	8,900	14,300	14,300	NA	NA
9+9+9+9	35,480	8,870	8,870	8,870	8,870	NA
9+9+9+12	36,490	8,460	8,460	8,460	11,110	NA
9+9+9+18	38,350	7,650	7,650	7,650	15,400	NA
9+9+12+12	39,000	8,300	8,300	11,200	11,200	NA
9+9+12+18	39,840	7,470	7,470	9,960	14,940	NA
9+12+12+12	39,280	7,000	10,760	10,760	10,760	NA
9+12+12+18	40,010	6,760	9,600	9,600	14,050	NA
12+12+12+12	39,800	9,950	9,950	9,950	9,950	NA
9+9+9+9+9	39,600	7,920	7,920	7,920	7,920	7,920
9+9+9+9+12	39,700	7,430	7,430	7,430	7,430	9,980

Capacity data is based on the following conditions :

Cooling Nominal Test Conditions	Heating Nominal Test Conditions
Indoor: 80°F DB/67°F WB	Indoor: 70°F DB/60°F WB
Outdoor: 95°F DB/75°F WB	Outdoor: 47°F DB/43°F WB