

Mr.Slim®  
**MXZ** INVERTER DRIVEN  
 MULTI-HEAT PUMP SYSTEM



MXZ30TN Outdoor Unit

**30,000**  
**Btu/h Capacity**

Looking for superior cooling or heating in more than one room? The MXZ system is the solution. It delivers powerful cooling and heating for up to three wall-mounted indoor units with only one outdoor unit, giving you greater design flexibility and multi-zoned air conditioning. The MXZ three-to-one system provides flexibility of up to seven different indoor unit combinations. Two popular examples are shown at the lower right.

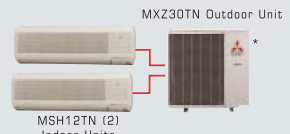


MXZ30TN Outdoor Unit

This 3:1 multi-system provides up to 30,500 Btu/h of cooling or 36,000 Btu/h of heating.



This 2:1 multi-system provides up to 27,900 Btu/h of cooling or 36,890 Btu/h of heating.



\* Requires joint piping adapter accessory (See page 15 for more details.)



**SPECIFICATIONS**

**MXZ30TN HEAT PUMPS**

REQUIRES CONNECTION OF AT LEAST TWO INDOOR UNITS FOR PROPER OPERATION.



SYSTEM		MXZ30TN: MSH09TW(2), MSH12TN(1)	
Capacity	Cooling Btu/h *1		28,400
Capacity	Heating 47°F Btu/h *1		28,600
Capacity	Heating 17°F Btu/h *2		18,100
Power Consumption	Cooling W *1		3,550
Power Consumption	Heating W *1		2,720
Power Consumption	Heating 17°F Btu/h *2		2,310
S.E.E.R.	Cooling		11.0
HSPF IV (V)	Heating		3.7
CDP	Heating 47°F *1		3.08
<b>OUTDOOR UNIT</b>		<b>MXZ30TN</b>	
External Finish			Munsell 5Y 8/1
Sound Level			48.0
Power Supply	V, Phase, Hz		208 / 230, 1.60
Max. Fuse Size	(Time Delay) A		30.0
Min. Ampacity			25.0
Fan Motor	F.L.A.		0.6
Compressor	Model (Type)		THV-247FBA
Compressor	Winding Resistance (@ 68°F)Ω		UV0.61 V-W0.61 W-U0.61
Compressor	R.L.A.		10.0
Compressor	L.R.A.		37.0
Refrigerant Control			LEV
Defrost Method			Reverse Cycle
Outdoor Unit Width	Inches		35-7/16
Outdoor Unit Depth	Inches		12-5/8(+1-3/8 w/feet)
Outdoor Unit Height	Inches		35-7/16
Weight	Pounds		179.0
Remote Controller			Wireless Type
Control Voltage	(By Built-In Transformer)		12VDC
Refrigerant Piping Size	(Liquid x Gas) Inches		A= 1/4 x 1/2, B= 1/4 x 3/8, C= 1/4 x 3/8

\*1, \*2. See page 27 for rating conditions.

\*1 LIMITED WARRANTY | 6-year warranty on compressor. 1-year warranty on parts.

Model Combination	Cooling Capacity (Btu/h)*1			Outdoor Unit		Current (AMP.)	
	UNIT (1)	UNIT (2)	UNIT (3)	TOTAL (Min-Max)	Power Consumption (W)	208V	230V
MSH09TW	8,800	-	-	8,800 (4,169-9,210)	1,000 (510-1,280)	4.5	4.0
MSH12TN	12,900	-	-	12,900 (5,600-15,350)	1,260 (610-1,680)	5.4	4.9
MSH15TN	14,600	-	-	14,600 (5,600-17,010)	1,260 (610-1,780)	5.4	4.9
MSH17TN	16,200	-	-	16,200 (6,470-18,720)	2,200 (850-2,620)	9.5	8.6
MSH09TW(2)	8,800	8,800	-	17,600 (5,470-18,880)	2,200 (850-3,200)	9.5	8.6
MSH09TW+MSH12TN	8,800	12,900	-	21,700 (6,240-22,760)	2,280 (840-3,470)	9.9	8.9
**MSH09TW+MSH15TN	8,800	14,600	-	23,400 (6,240-24,030)	2,280 (840-3,430)	9.9	8.9
**MSH09TW+MSH17TN	8,800	16,200	-	25,000 (6,220-27,170)	3,680 (850-4,000)	11.6	10.5
**MSH12TN(2)	12,900	12,900	-	25,800 (6,300-27,300)	2,700 (840-4,100)	11.7	10.6
**MSH09TW(3)	8,800	8,800	8,800	26,400 (9,740-28,150)	3,500 (770-4,500)	15.1	13.6
MSH09TW(2)+MSH12TN(1)	7,370	7,370	13,660	28,400 (9,940-30,500)	3,800 (810-4,610)	16.4	14.9

\*1 See page 27 for rating conditions.

Model Combination	Heating Capacity (Btu/h)*1			Outdoor Unit		Current (AMP.)	
	UNIT (1)	UNIT (2)	UNIT (3)	TOTAL (Min-Max)	Power Consumption (W)	208V	230V
MSH09TW	10,500	-	-	10,500 (5,700-16,950)	1,100 (560-1,990)	4.8	4.3
MSH12TN	13,500	-	-	13,500 (6,400-22,400)	1,200 (560-2,340)	5.2	4.7
MSH15TN	14,800	-	-	14,800 (6,470-23,180)	1,400 (570-2,480)	6.1	5.5
MSH17TN	17,200	-	-	17,200 (6,520-23,550)	1,600 (600-2,710)	6.9	6.3
MSH09TW(2)	10,500	10,500	-	21,000 (6,520-26,900)	1,950 (620-2,900)	8.4	7.6
MSH09TW+MSH12TN	10,500	13,500	-	24,000 (6,700-30,000)	2,210 (640-3,130)	9.6	8.6
**MSH09TW+MSH15TN	10,500	14,800	-	25,300 (7,490-32,240)	2,400 (640-3,360)	10.4	9.4
**MSH09TW+MSH17TN	10,500	17,200	-	27,700 (8,140-37,100)	2,700 (690-3,900)	11.7	10.6
**MSH12TN(2)	13,500	13,500	-	27,000 (7,660-36,890)	2,500 (650-3,850)	10.9	9.9
**MSH09TW(3)	9,530	9,530	9,530	28,590 (8,900-37,500)	2,720 (710-3,920)	11.8	10.6
MSH09TW(2)+MSH12TN(1)	7,820	7,820	12,960	28,600 (9,040-38,000)	2,800 (710-3,970)	12.1	11.0

All models 60 Hz. Refer to the Service Manual for additional indoor and outdoor unit specifications.

\*\* This combination requires joint piping adapter accessory. Please refer to charts below for more details.

MXZ30TN Outdoor Unit Refrigerant Piping Size		
Circuit	Liquid	Suction
A	1/4	1/2
B	1/4	3/8
C	1/4	3/8

JOINT PIPING ACCESSORIES				
MXZ30TN Outdoor Unit Circuits				
COMBINATIONS	A	B	C	Part #
	09	09	09	MAC455JP
	15	09	-	MAC456JP
	17	09	-	MAC456JP
	12	12	-	MAC454JP
	-	09	09	-
	12	09	-	-
12	09	09	-	

FLARED CONNECTIONS	
Pipe Length and Height Difference	
Limits	
Pipe Length Per Indoor Unit	82 ft. Max.
Total Pipe Length for Multi-System	197 ft. Max.
Height Difference	33 ft. Max.
No. of Bends Per Indoor Unit	25 Max.
Total No. of Bends for Multi-System	60 Max.