

Z-MAX Series | Ductless Single-Zone System

Indoor Model			ZMSB-09HVT-USR1-S23-I	ZMSB-09HVT110-USR1-S23-I	ZMSB-12HVT-USR1-S24-I	ZMSB-12HVT110-USR1-S24-I	ZMSB-18HVT-USR1-S24-I	ZMSB-24HVT-USR1-S23-I
Outdoor Model			ZMSB-09HVT-USR1-S23-O	ZMSB-09HVT110-USR1-S23-O	ZMSB-12HVT-USR1-S24-O	ZMSB-12HVT110-USR1-S24-O	ZMSB-18HVT-USR1-S24-O	ZMSB-24HVT-USR1-S23-O
			9K-230V	9K-115V	12K-230V	12K-115V	18K-230V	24K-230V
Type			cooling&heating	cooling&heating	cooling&heating	cooling&heating	cooling&heating	cooling&heating
Control type			remote	remote	remote	remote	remote	remote
Power supply			208/230V~/60Hz/1P	115V~/60Hz/1P	208/230V~/60Hz/1P	115V~/60Hz/1P	208/230V~/60Hz/1P	208/230V~/60Hz/1P
Rated Cooling (95F/35C)	Rated Cooling Capacity (95°F/35°C)	Btu/h	9000	9000	12000	12000	18000	23000
	Cooling Capacity Range	Btu/h	2000~13000	4100~12000	3400~13500	3400~13500	5000~19000	5000~26000
	EER2 (95°F/35°C)	Btu/W.h	12.0	12.0	13.0	13.0	12.0	12.0
	SEER2	Btu/W.h	23.0	23.0	24.0	24.0	24.0	23.0
Rated Heating	Rated Heating Capacity (47°F/8.3°C)	Btu/h	9000	9000	12000	12000	18000	24000
	Rated Heating Capacity (17°F/-8.3°C)	Btu/h	9000	9000	11500	11500	15500	21500
	Range Heating Capacity	Btu/h	2000~13000	4100~12000	3400~16500	3400~16500	5000~20000	5000~26500
	HSPF2 Rating (Region IV)	Btu/W.h	9.5	10	10	10	10	10
	HSPF2 Rating (Region V)	Btu/W.h	/	/	/	/	/	/
	COP2 (47°F/8.3°C)	W/W	4	4	4	4	3	3.66
	Max. Heating Capacity (5°F/-15°C)	Btu/h	8000	8000	10000	10000	15000	17500
	5F Heating Ratio		89%	89%	83%	83%	83%	73%
	COP2 (5°F/-15°C)	W/W	1.8	1.8	1.8	1.8	1.8	2.1
	Max. Heating Capacity (-4°F/-20°C)	Btu/h	/	/	8500	8500	/	/
	Max. Heating Capacity (-13°F/-25°C)	Btu/h	/	/	7200	7200	/	/
Rated Input Consumption	Cooling	W	650	653	890	920	1465	1900
	Heating	W	630	634	890	920	1774	2000
Rated Current	Cooling	A	2.9	5.8	5.8	8.0	6.6	8.5
	Heating	A	2.9	5.7	5.8	8.0	8.0	9.0
NEEP, Canada			YES	YES	YES	YES	YES	YES
Energy Star			YES	YES	YES	YES	YES	YES
Energy cold climate			YES	YES	YES	YES	YES	YES
Min. Circuit Ampacity		A	17.0	16.0	11.0	10.0	17.0	19.0
Max. Fuse size		A	25	25	15	15	25	30
Moisture removal		Liters/h	0.6	0.6	1.4	1.4	2.2	3.2
MXimum Operation Pressure		Mpa	5	5	5	5	5	5
Indoor Noise Level at Cooling	Turbo/High/Med./Low/Mute	dB(A)	43/40/33/31/30	43/40/33/31/30	46/44/36/32/30	46/44/36/32/30	46/44/36/32/30	50/47/43/38/34
Outdoor Noise Level		dB(A)	54	54	56	56	57.0	59
Connecting Pipe	Gas	inches	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"
	Liquid	inches	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Connecting Wiring	Size x Core number		4×16AWG	4×16AWG	4×16AWG	4×16AWG	4×16AWG	4×16AWG
Power Cord (BOM)	Size x Core number		3×14AWG	3×14AWG	3×14AWG	3×14AWG	3×14AWG	3×12AWG
Suitable area		sq.ft	118~183	118~183	161~270	161~270	215~377	323~538

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Outdoor Model			ZMSB-09HVT-USR1-S23-O	ZMSB-09HVT110-USR1-S23-O	ZMSB-12HVT-USR1-S24-O	ZMSB-12HVT110-USR1-S24-O	ZMSB-18HVT-USR1-S24-O	ZMSB-24HVT-USR1-S23-O
*** Outdoor Unit ***								
Refrigerant		Type	R32	R32	R32	R32	R32	R32
		g	600	550	770	770	870	1270
	1oz=28.35g	oz	21.16	19.40	27.16	27.16	30.69	44.80
Factory Precharge Line		(m/ft)	7.5/25	7.5/25	7.5/25	7.5/25	7.5/25	7.5/25
MXimum Line Length		(m/ft)	15 / 50	15 / 50	15 / 50	15 / 50	20 / 67	20 / 67
MXimum Height Difference Between Indoor and Outdoor		(m/ft)	10 / 33	10 / 33	10 / 33	10 / 33	10 / 33	10 / 33
Additional Refrigerant Charge		(g/m, oz/ft)	16 / 0.56	16 / 0.56	16 / 0.56	16 / 0.56	16 / 0.56	16 / 0.56
Operation Temperature		°C	16~31	16~31	16~31	16~31	16~31	16~31
Ambient temperature	Indoor(cooling/ heating)	°C	17~32/0~27	17~32/0~27	17~32/0~27	17~32/0~27	17~32/0~27	17~32/0~27
	Outdoor(cooling/heating)	°C	-15~53/-25~24	-15~53/-25~24	-15~53/-25~24	-15~53/-25~24	-15~53/-25~24	-15~53/-25~24
Ambient temperature	Indoor(cooling/ heating)	°F	63~90/32~81	63~90/32~81	63~90/32~81	63~90/32~81	63~90/32~81	63~90/32~81
	Outdoor(cooling/heating)	°F	5~127/-13~75	5~127/-13~75	5~127/-13~75	5~127/-13~75	5~127/-13~75	5~127/-13~75
Net dimensions (W x D x H)	Indoor	inch	32 -1/4"×7 -5/8"×12"	32 -1/4"×7 -5/8"×12"	36 -1/4"×7 -5/8"×12"	36 -1/4"×7 -5/8"×12"	36 -1/4"×7 -5/8"×12"	43 -1/4"×8 -3/4"×13 -1/8"
	Outdoor (含阀护盖)	inch	31"×11 -3/8"×19 -5/8"	31 -7/8"×12"×21 -5/8"	31 -1/2"×12"×21 -3/4"	31 -1/2"×12"×21 -3/4"	36 -1/8"×14 -3/4"×27 -1/2"	38 -1/2"×16 -5/8"×31 -5/8"
Net weight	Indoor	lbs	20.5	20.5	22.0	22.0	24.3	30.9
	Outdoor	lbs	48.5	51.8	57.3	58.0	84.9	99.2