

Solar HVAC | Model "Z" 2 Ton Mini-Split Residential Heat Pump

Part Number

SHMSPZ- 24 G - 5

Type (1)	BTU's (2,3)	Voltage (4)	Options (5)
P - Heat Pump	24 - 24,000 BTUs	G - 230 VAC 1 ϕ	0 - No Options D - Condenser Coil (UG) E - Mounting Kit Y - Start Up 7 - Phase Monitor

Description

A Solar HVAC mini-split is more than twice as efficient as a standard mini-split.

A solar box equipped with chambers lined with specialty reflective film is mounted to the top of the condensing unit. Through a patented process, ambient light is converted to thermal energy which reduces the energy demand on the compressor.

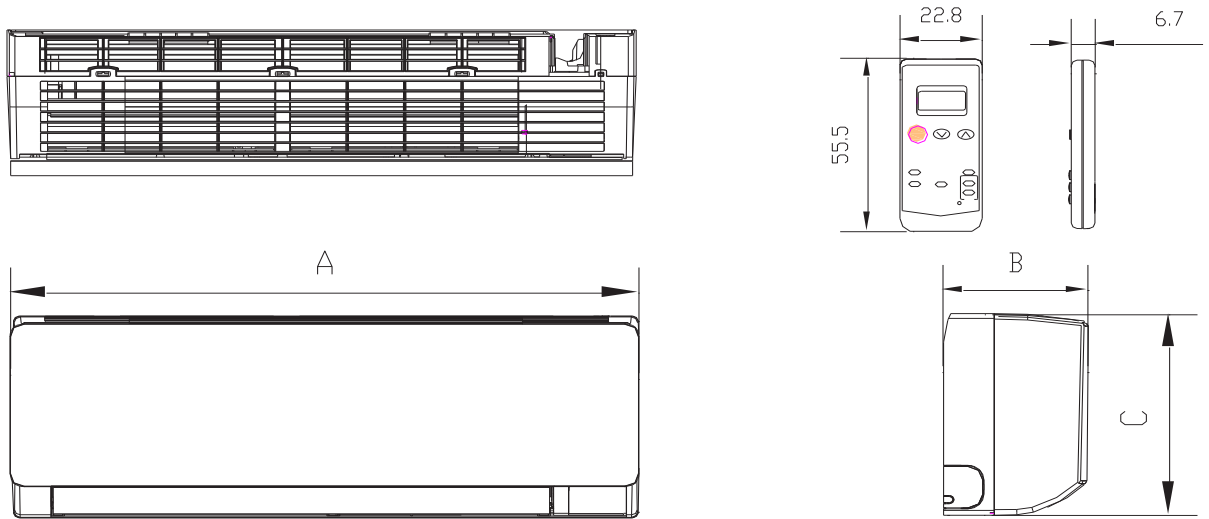
Units come with a 1-year parts warranty.



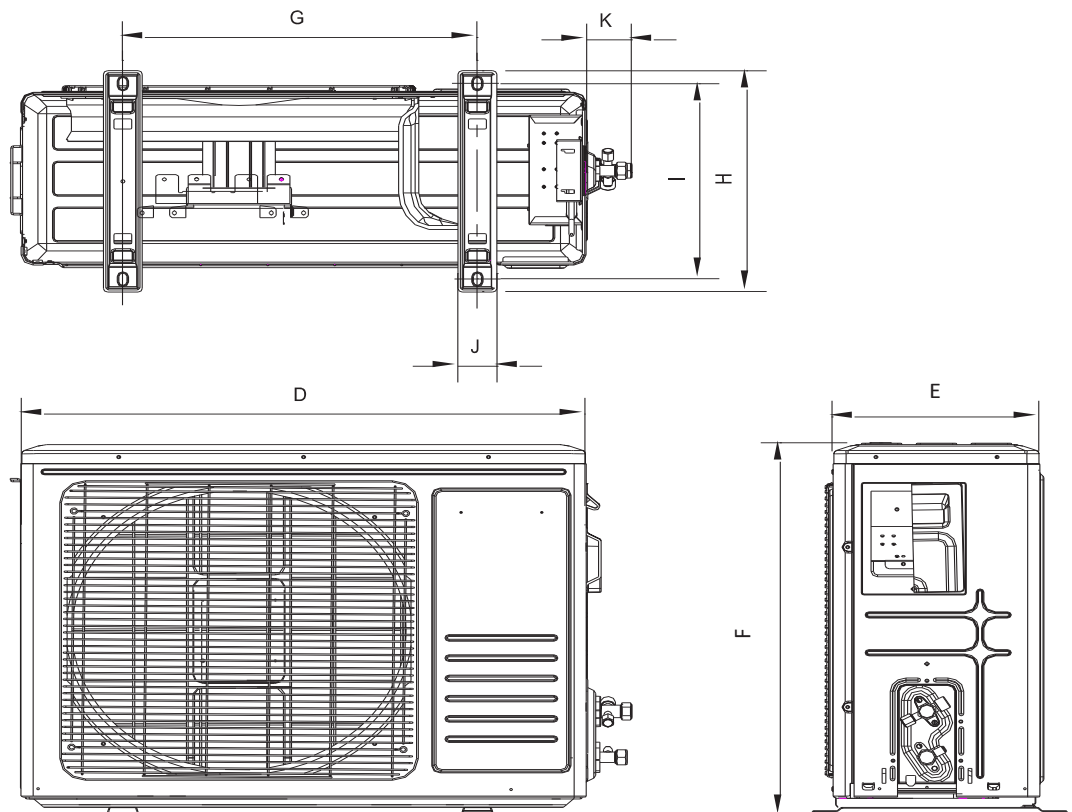
SHMSPZ-24 | Solar HVAC Mini-Split Dimensions

Model in (mm)	Indoor Unit			Outdoor Unit							
	A	B	C	D	E	F	G	H	I	J	K
SHMSxZ-24	46.93 (1192)	14.17 (360)	10.24 (260)	33.27 (845)	14.96 (380)	27.52 (699)	24.95 (634)	17.99 (457)	16.54 (420)	1.97 (50)	2.48 (63)

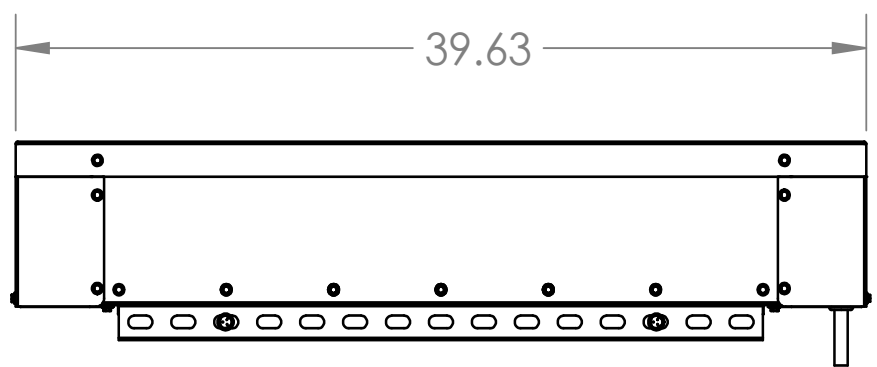
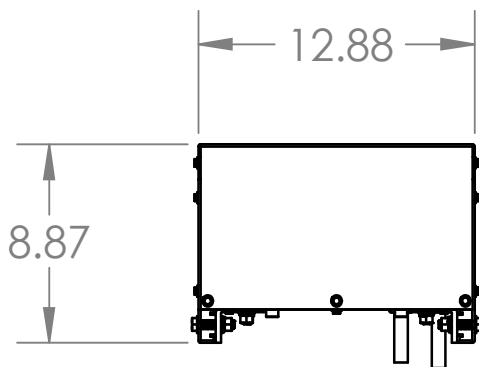
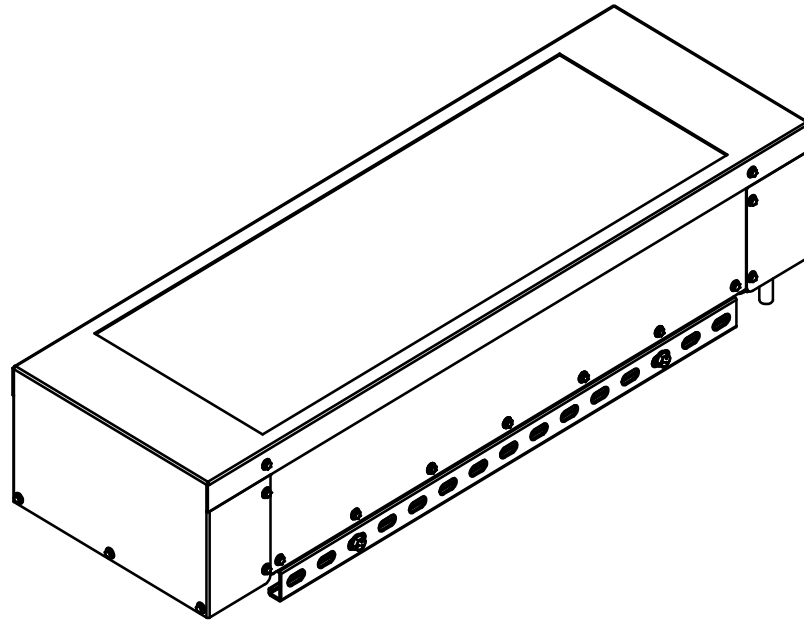
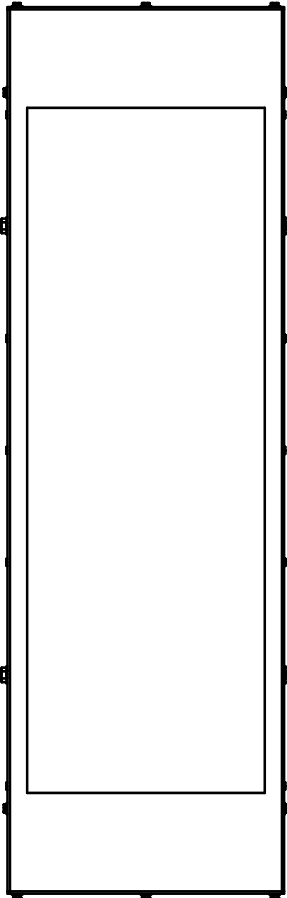
Indoor Unit:



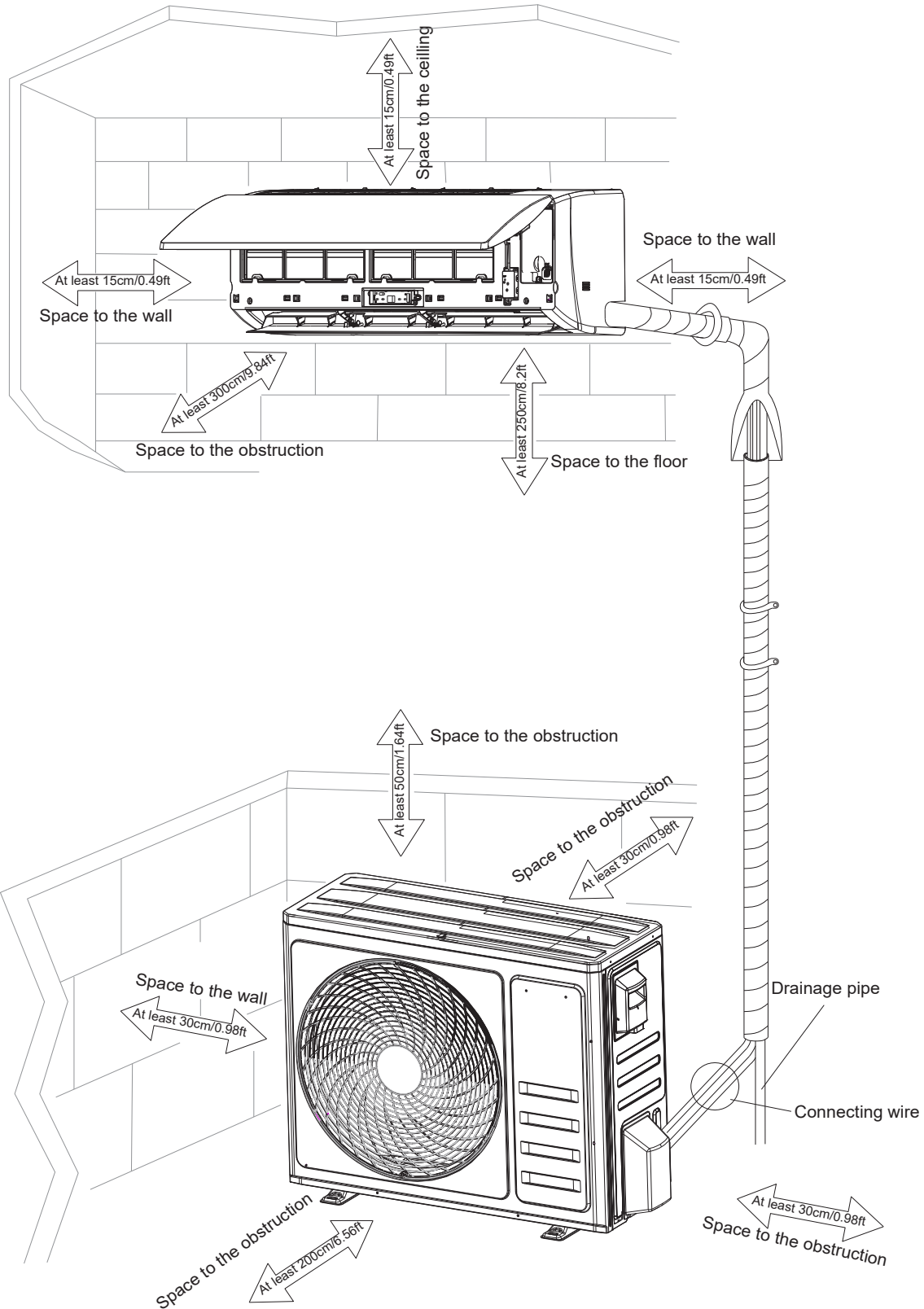
Outdoor Unit:



Solar Box Dimensions



SHMSxZ-xx | Solar HVAC Model “Z” Mini-Split Clearances





Specifications

SHMSPZ-24 | Solar HVAC Model "Z" Mini-Split Specifications

Electrical - Mechanical Specifications

Control type			remote
Power supply			208/230V~/60Hz/1P
"Rated Cooling (95F/35C)"	Rated cooling capacity (95F/35C)	Btu/h	24000
	EER2 (95F/35C)	Btu/W.h	10
	SEER2	Btu/W.h	20
Rated Heating	Rated Heating capacity(47F/8.3C)	Btu/h	24400
	HSPF2 Rating (Region IV)	Btu/W.h	8.5
	HSPF2 Rating (Region V)	Btu/W.h	7
	COP2 (47F/8.3C)	W/W	3.21
	Max. Heating capacity (5F/-15F)	W/W	15100
			62%
	COP2 (5F/-15F)	W/W	1.75
Suitable area		sq.ft	Up to 1500
Operation temperature		F	60.8~87.8
Ambinet temperature	Indoor(cooling/ heating)	F	>=62/<=86
	Outdoor(cooling/heating)	F	5~122/-4~86

*** Indoor Unit ***			
Indoor Motor	Motor Type		DC
	Output	W	45
	Speed	rpm	1150/950/800
Indoor air circulation/Hi		CFM	847/700/641

*** Outdoor Unit ***			
Outdoor Motor	Motor Type		DC
	Output	W	85

Rated Current	Cooling	A	11
	Heating	A	10.5
Indoor noise level at cooling	Turbo/High/Med./Low/Mute		51/48/43/38/35
Outdoor noise level		dB(A)	58
Connecting Wiring	Size x Core number		4×16AWG

Connecting Pipe	Gas	inches	1/2"
	Liquid	inches	1/4"
Maximum Line Length		(m/ft)	20 / 65
Maximum Height Difference Between Indoor and Outdoor		(m/ft)	15 / 49



Specifications

SHMSPZ-24 | Solar HVAC Model "Z" Mini-Split Specifications (cont'd)

Weight and Packing Dimensions

Net dimensions (W x D x H)	Indoor	mm	1192×360×260
		inch	46.93x14.17x10.23
	Outdoor	mm	845×380×699
		inch	33.26x14.96x27.51
	Solar Box	mm	1003.81x324.36x225.3
		inch	39.52x12.77x8.87
Net weight	Indoor	kg	16.5
		lbs	36.4
	Outdoor	kg	41
		lbs	90.4
	Solar Box	kg	22.72727273
		lbs	50
Indoor Packing dimensions (W x D x H)		mm	1265×435×337
		inch	49.80x17.13x13.27
"Outdoor Packing dimensions (W x D x H) (without pipe)"	Outdoor	mm	950×420×750
		inch	37.40x16.53x29.53
	Solar Box	mm	1104.19x356.79x247.83
		inch	43.47x14.05x9.76
*Gross weight (without pipe)	Indoor	kg	20.5
		lbs	45.2
	Outdoor	kg	45.5
		lbs	100.3
	Solar Box	kg	25
		lbs	55

Note:

Unit should be UL 1995 listed

Unit should be OG-100 Certified to the Solar Certification on ICC901/SRCC100

Face Solar Panels south for optimal performance

*Gross = Net Weight + Shipping Box