



Submittal

Solar HVAC | Model "M" 4 Ton Multi-Split Residential Heat Pump

Part Number

SHMUPM-480-0

Configuration

MU - Multi-Split

Type

P - Heat Pump

Brand

M - Midea

BTU's

48 - 48,000 BTUs

CU/AHU

0 - Condenser Only

Options

0 - No Options

Description

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

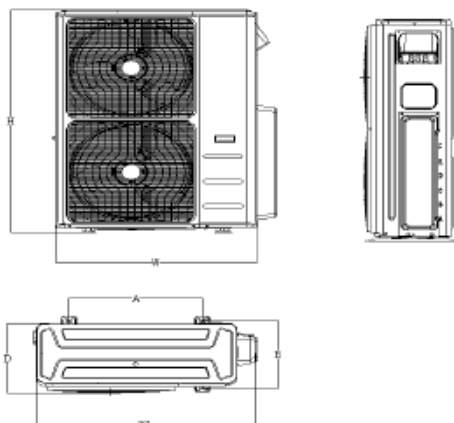
A solar box equipped with chambers lined with specialty reflective film is mounted to the top of the condensing unit. Through a patented process, ambient light is converted to thermal energy which reduces the energy demand on the compressor.

Units come with a 1-year parts warranty.



SHMUPM-480 | Solar HVAC Multi-Split Dimensions

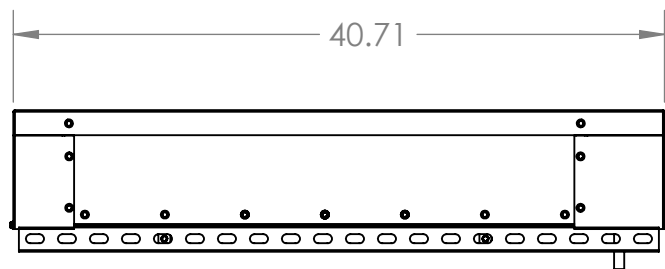
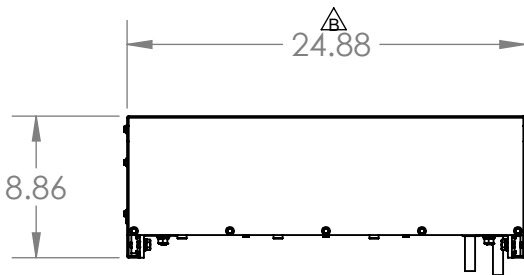
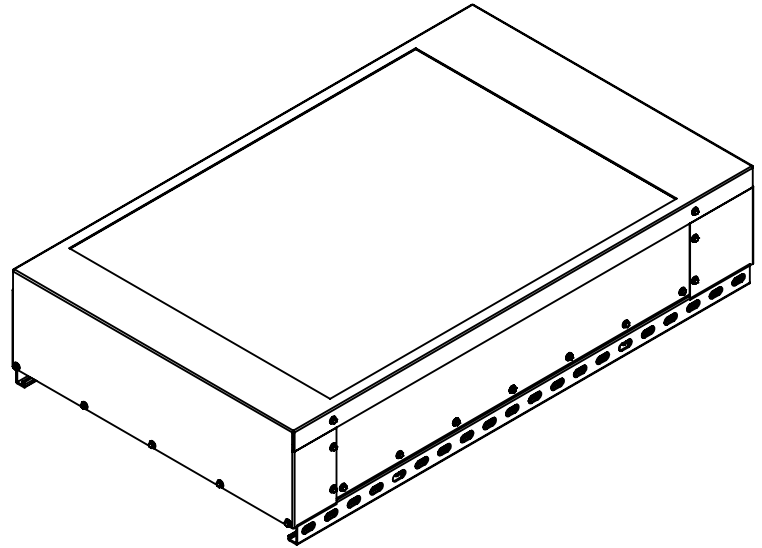
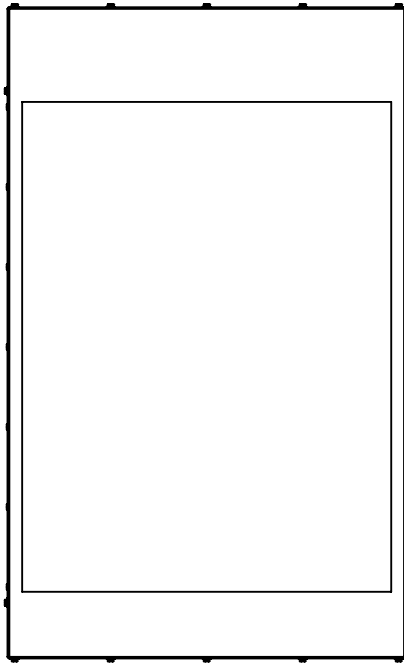
Outdoor Unit:

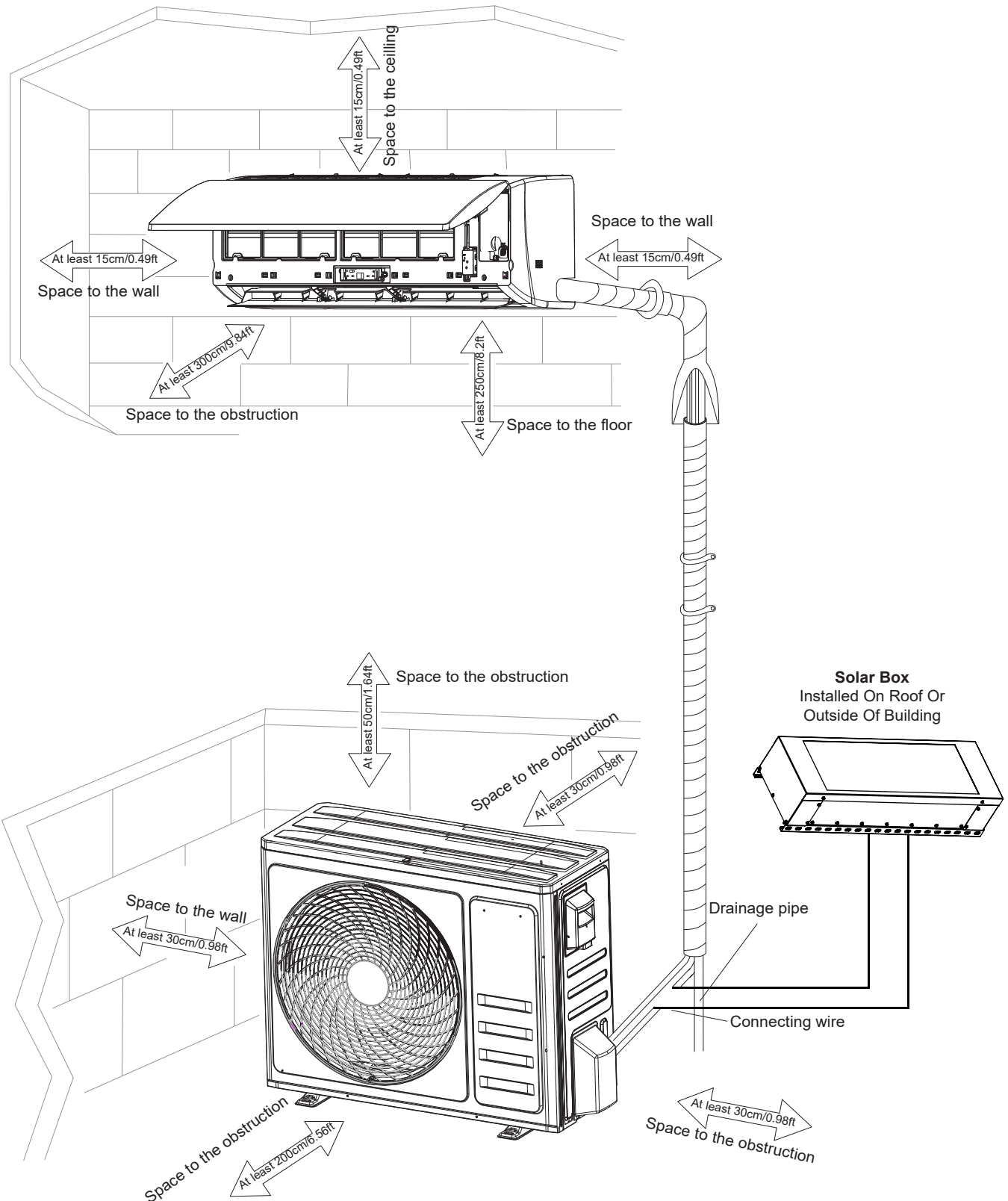


Unit	W	D	HE	W1	A	B
mm	952	415	1333	1069	634	404
inch	37.5	16.3	52.5	41.7	25.0	15.9

Solar Box Dimensions

Solar Box Weight: 100 lbs.







Specifications

SHMUPM-480 | Solar HVAC Model “M” Multi-Split Specifications

SYSTEM PERFORMANCE DATA

Power supply		
Normal Operational Voltage	(V, Ph, Hz)	208/230V, 1Ph, 60Hz
Voltage Range	(V)	187-253
Electrical		
Minimum circuit ampacity	(A)	40.0
Max.fuse	(A)	60.0
Connection wiring		14AWG*4 Stranded, unshielded
Cooling		
Capacity	(Btu/h)	48000(19000~50000)
Power Input	(W)	3840(750~4990)
Current	(A)	16.8(4.3~21.9)
SEER2	(Btu/W)	23.4
EER2	(Btu/W)	12.5
Heating		
Capacity	(Btu/h)	48000(12500~52000)
Power Input	(W)	3940(770~5300)
Current	(A)	17.1(4.4~23.3)
HSPF2-4	(Btu/W)	8.7
HSPF2-5	(Btu/W)	6.8
COP	W/W	3.57
Heat at 17F(H32)	(Btu/h)	34000
Heat at 5F(H42)	(Btu/h)	33000
COP at 5F(H42)	W/W	1.80

REFRIGERANT PIPE DATA

Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	162.0
Refrigerant precharge	(ft)	25x5
Additional charge for each ft (Φ6.35 (1/4") liquid pipe)	(oz/ft)	0.16
	(g/ft)	15.0
Additional charge for each ft (Φ9.52 (3/8") liquid pipe)	(oz/ft)	0.32
	(g/ft)	30.0
Liquid side	(inch)	5x1/4"
	(mm)	5x6.35
Gas side	(inch)	3x3/8"+2x1/2"
	(mm)	3x9.52+2x12.7
Max. length for all rooms	(ft)	262.5
	(m)	80.0
Max. length for one indoor unit	(ft)	114.8
	(m)	35.0
Max. height difference between indoor and outdoor unit	(ft)	49.2
	(m)	15.0
Max. height difference between indoor units	(ft)	33.0
	(m)	10.0

Outdoor(cooling)	(Deg. °F)	5~122
	(Deg. °C)	-15~50
Outdoor(heating)	(Deg. °F)	-13~75
	(Deg. °C)	-25~24

OUTDOOR UNIT DATA

Compressor		
Type		ROTARY
Model		ATQ360D1UMU
Brand		GMCC
Capacity	(Btu/h)	38214
Input	(W)	3040
Rated current (RLA)	(A)	24
Refrigerant oil/oil charge	(ml)	VG74/1400

Outdoor fan motor

Model		ZKFN-85-8-22-5
Qty		2
Input	(W)	126.00
Output	(W)	85.00
RLA	(A)	2.50
Speed	(r/min)	900/850/800/750

Air flow & Noise level

Outdoor air flow (Max.)	(CFM)	4500.00
Outdoor noise level	[dB(A)]	64.00

Outdoor unit

Dimension (W×D×H)	(inch)	37.48x16.34x52.48
	(mm)	952x415x1333
Packing (W×D×H)	(inch)	43.11x19.49x58.27
	(mm)	1095x495x1480
Net/ Gross weight	(lbs.)	225.53/256.62
	(kg)	102.3/116.4