



Submittal

Solar HVAC | Model "M" 1.5 Ton Multi-Split Residential Heat Pump

Part Number

SHMUPM-180-0

Configuration

MU - Multi-Split

Type

P - Heat Pump

Brand

M - Midea

BTU's

18 - 18,000 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.

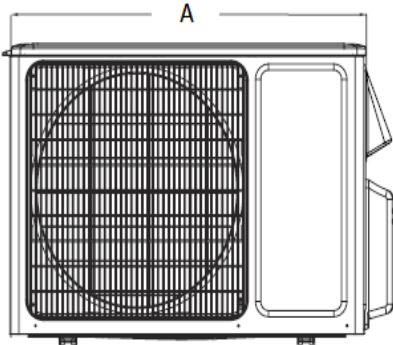




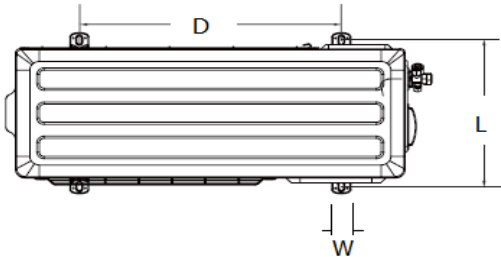
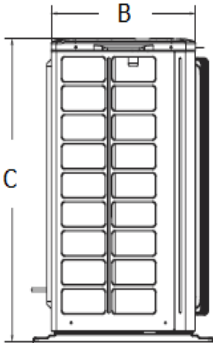
Dimensions

SHMUPM-180 | Solar HVAC Multi-Split Dimensions

Outdoor Unit:



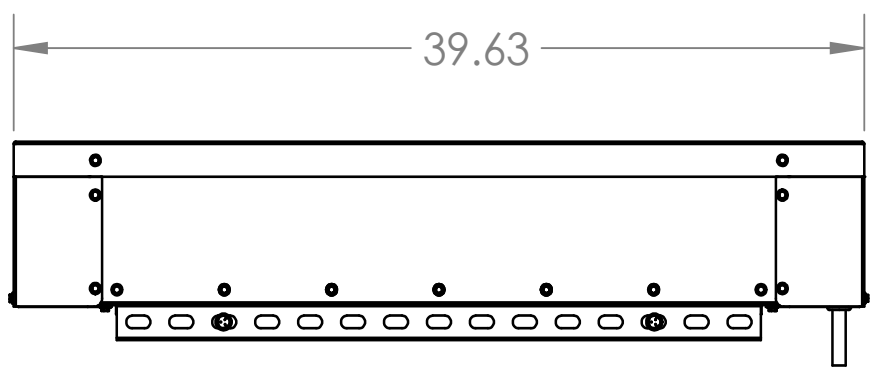
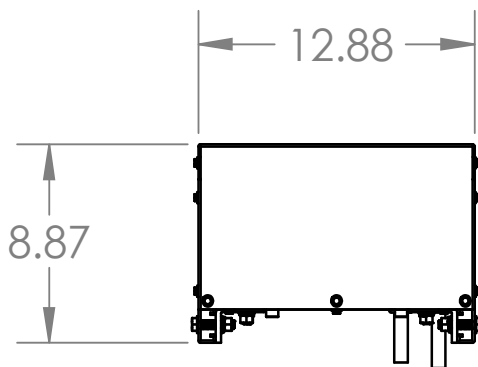
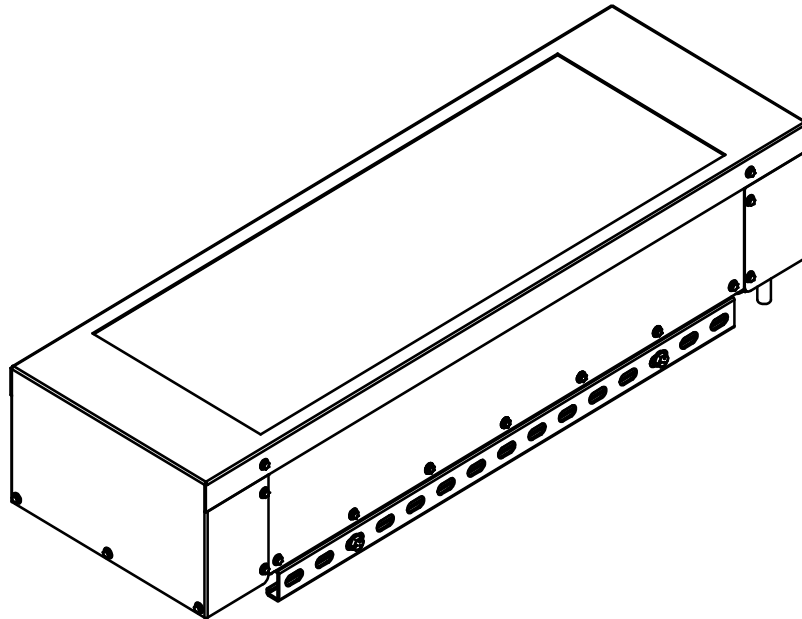
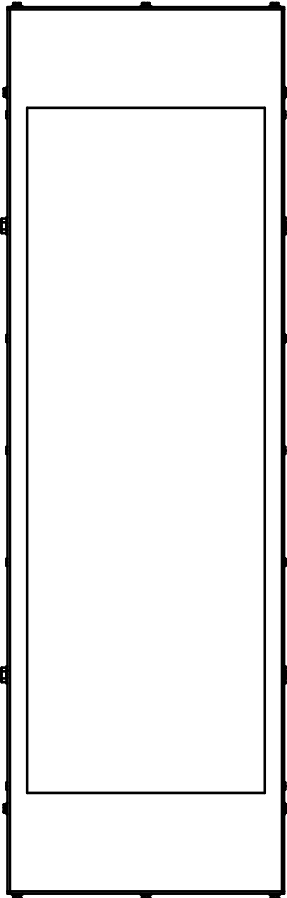
A (in)	36.2
B (in)	14.6
C (in)	31.1

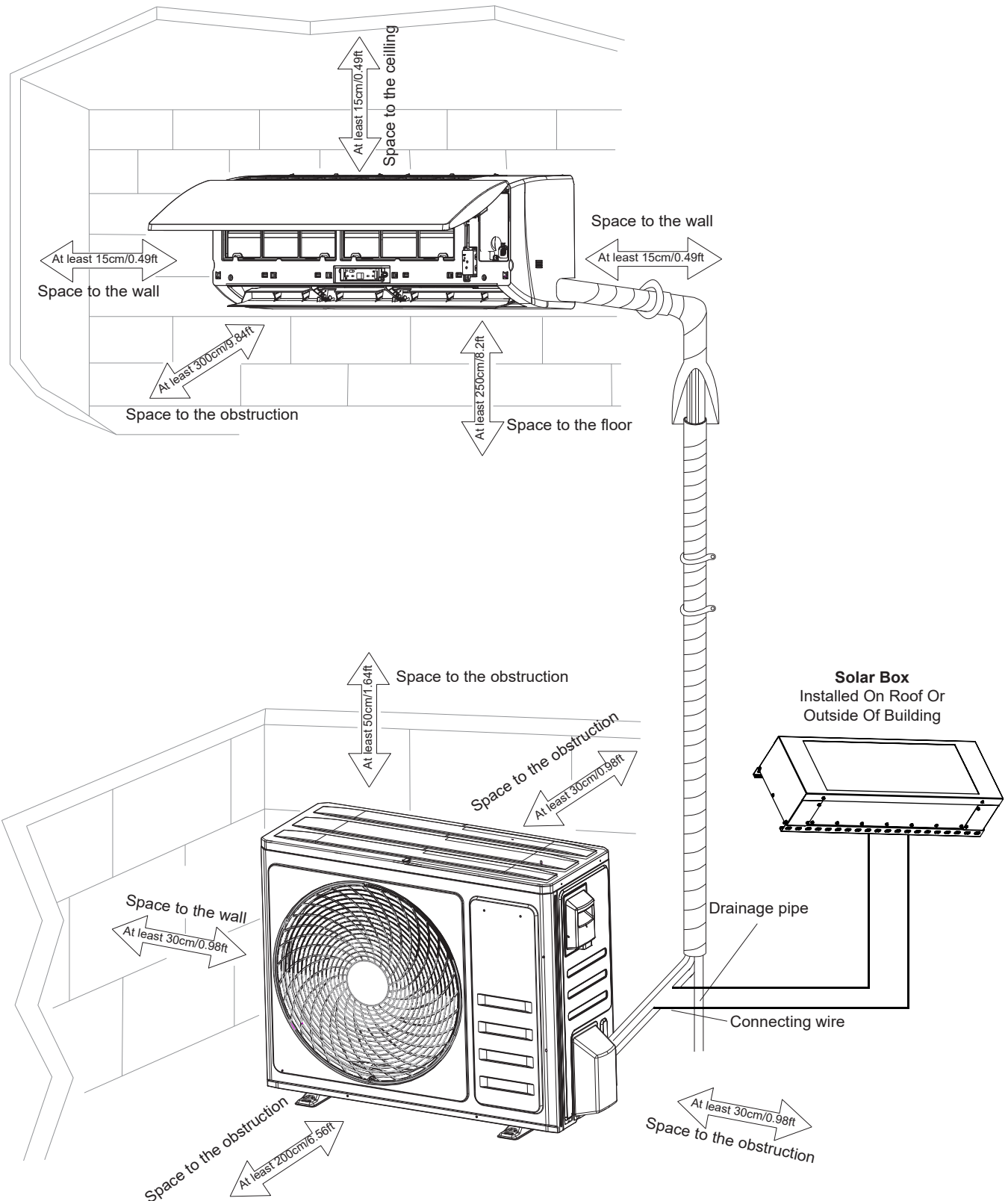


D (in)	24.0
L (in)	15.6
W (in)	2.4

Solar Box Dimensions

Solar Box Weight: 50 lbs.







Specifications

SHMUPM-180 | 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)	18.0
Max.fuse	(A)	25.0
Connection wiring	14AWG*4 Stranded, unshielded	
Cooling		
Capacity	(Btu/h)	18000(5650-22000)
Power Input	(W)	1295(217~2027)
Current	(A)	6.2(1.76~8.93)
SEER2	(Btu/W)	22.9
EER2	(Btu/W)	13.9
Heating		
Capacity	(Btu/h)	19000(5050-24400)
Power Input	(W)	1489(304-2095)
Current	(A)	6.3(2.31~9.21)
HSPF2-4	(Btu/W)	10.5
HSPF2-5	(Btu/W)	8.0
COP	W/W	3.74
Heat at 17F(H32)	(Btu/h)	14300
Heat at 5F(H42)	(Btu/h)	12600
COP at 5F(H42)	W/W	2.00
REFRIGERANT PIPE DATA		
Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	65.3
Refrigerant precharge	(ft)	25x2
Additional charge for each ft (Ø6.35 (1/4") liquid pipe)	(oz/ft)	0.16
	(g/ft)	15.0
Additional charge for each ft (Ø9.52 (3/8") liquid pipe)	(oz/ft)	0.32
	(g/ft)	30.0
Liquid side	(inch)	2x1/4"
	(mm)	2x6.35
Gas side	(inch)	2x3/8"
	(mm)	2x9.52
Max. length for all rooms	(ft)	131.2
	(m)	40.0
Max. length for one indoor unit	(ft)	82.0
	(m)	25.0
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		Twin-ROTARY
Model		KTN150D30UFZA
Brand		GMCC
Capacity	(Btu/h)	16139
Input	(W)	1250
Rated current (RLA)	(A)	/
Refrigerant oil/oil charge	(ml)	ESTER OIL VG74 450
Outdoor fan motor		
Model		ZKFN-80-8-3
Qty		1
Input	(W)	/
Output	(W)	80.00
RLA	(A)	/
Speed	(r/min)	750/600/500
Air flow & Noise level		
Outdoor air flow (Max.)	(CFM)	1764.71
Outdoor noise level	[dB(A)]	58.50
Outdoor unit		
Dimension (W×D×H)	(inch)	35.04x13.46x26.50
	(mm)	890x342x673
Packing (W×D×H)	(inch)	40.55x17.24x29.53
	(mm)	1030x438x750
Net/ Gross weight	(lbs.)	100.31/108.69
	(kg)	45.5/49.3