MIRE

Submittal

lulti-Split Residential Heat Pump Solar H odel "M" Ton I

Part Number

SHMUPM-180-0

Configuration MU - Multi-Split

Type P - Heat Pump

Brand M - Midea

BTU's



Options

18 - 18,000 BTUs



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.



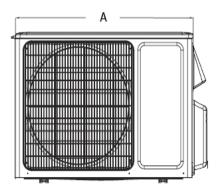


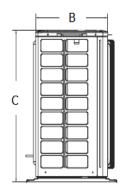


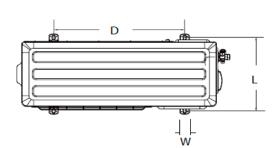
Dimensions

SHMUPM-180 | Solar HVAC Multi-Split Dimensions

Outdoor Unit:







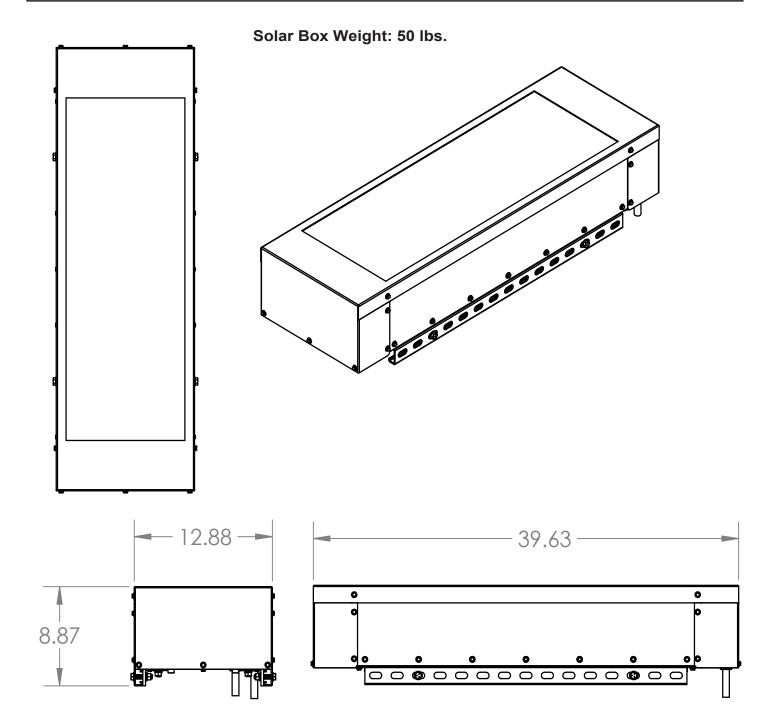
D (in)	24.0
L (in)	15.6
W (in)	2.4

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



Dimensions

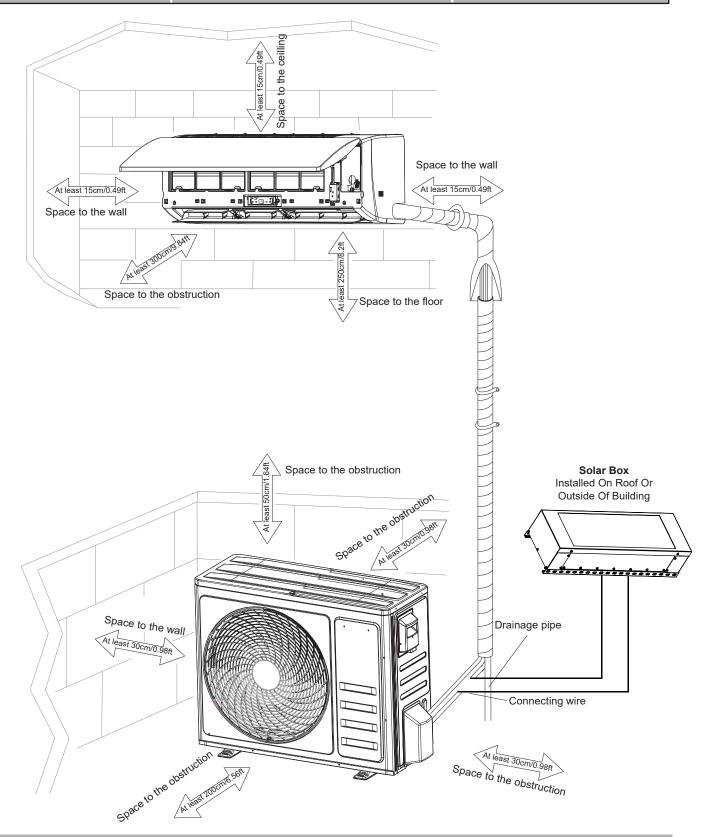
Solar Box Dimensions





Clearances

SHMUxM-xx | Solar HVAC Model "M" Multi-Split Clearances



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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)
Powrer Input	(W)	1295(217~2027)
Current	(A)	6.2(1.76~8.93)
SEER2	(Btu/W)	22.9
EER2	(Btu/W)	13.9
Heating	(D(0/44)	13.9
Capacity	(Btu/h)	19000(5050~24400)
Powrer Input	(Btu/II) (W)	1489(304~2095)
Current	(VV) (A)	6.3(2.31~9.21)
HSPF2-4	(Btu/W)	10.5
HSPF2-4 HSPF2-5	. ,	8.0
HSPF2-5 COP	(Btu/W)	
	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		
	(PSIG)	550/340
REFRIGERANT PIPE DATA Design pressure Refricerant Type	(PSIG)	550/340 R410A
Design pressure Refrigerant Type	(PSIG) oz	
Design pressure Refrigerant Type Refrigerant charge	oz	R410A
Design pressure Refrigerant Type Refrigerant charge Refrigerant precharge	oz (ft)	R410A 65.3
Design pressure Refrigerant Type Refrigerant charge Refrigerant precharge Additional charge for each ft (Ф6.35	oz (ft) (oz/ft)	R410A 65.3 25x2
Design pressure Refrigerant Type Refrigerant charge Refrigerant precharge Additional charge for each ft (Ф6.35 (1/4") liquid pipe)	oz (ft) (oz/ft) (g/ft)	R410A 65.3 25x2 0.16
Design pressure Refrigerant Type Refrigerant charge Refrigerant precharge Additional charge for each ft (Φ6.35 (1/4") liquid pipe) Additional charge for each ft (Φ9.52	oz (ft) (oz/ft) (g/ft) (oz/ft)	R410A 65.3 25x2 0.16 15.0 0.32
Design pressure Refrigerant Type Refrigerant charge Additional charge for each ft (Ф6.35 (1/4") liquid pipe) Additional charge for each ft (Ф9.52 (3/8") liquid pipe)	oz (ft) (oz/ft) (g/ft) (g/ft)	R410A 65.3 25x2 0.16 15.0
Design pressure Refrigerant Type Refrigerant charge Refrigerant precharge Additional charge for each ft (Φ6.35 (1/4") liquid pipe) Additional charge for each ft (Φ9.52	oz (ft) (oz/ft) (g/ft) (oz/ft) (g/ft) (inch)	R410A 65.3 25x2 0.16 15.0 0.32 30.0 2x1/4"
Design pressure Refrigerant Type Refrigerant charge Additional charge for each ft (Ф6.35 (1/4") liquid pipe) Additional charge for each ft (Ф9.52 (3/8") liquid pipe) Liquid side	oz (ft) (oz/ft) (g/ft) (oz/ft) (g/ft) (inch) (mm)	R410A 65.3 25x2 0.16 15.0 0.32 30.0 2x1/4" 2x6.35
Design pressure Refrigerant Type Refrigerant charge Additional charge for each ft (Ф6.35 (1/4") liquid pipe) Additional charge for each ft (Ф9.52 (3/8") liquid pipe)	oz (ft) (oz/ft) (g/ft) (oz/ft) (inch) (mm) (inch)	R410A 65.3 25x2 0.16 15.0 0.32 30.0 2x1/4" 2x6.35 2x3/8"
Design pressure Refrigerant Type Refrigerant charge Additional charge for each ft (Ф6.35 (1/4") liquid pipe) Additional charge for each ft (Ф9.52 (3/8") liquid pipe) Liquid side Gas side	oz (ft) (oz/ft) (oz/ft) (g/ft) (inch) (inch) (inch) (mm)	R410A 65.3 25x2 0.16 15.0 0.32 30.0 2x1/4" 2x6.35 2x3/8" 2x9.52
Design pressure Refrigerant Type Refrigerant charge Additional charge for each ft (Ф6.35 (1/4") liquid pipe) Additional charge for each ft (Ф9.52 (3/8") liquid pipe) Liquid side	oz (ft) (oz/ft) (g/ft) (oz/ft) (g/ft) (inch) (inch) (mm) (ft)	R410A 65.3 25x2 0.16 15.0 0.32 30.0 2x1/4" 2x6.35 2x3/8" 2x9.52 131.2
Design pressure Refrigerant Type Refrigerant charge Additional charge for each ft (Ф6.35 (1/4") liquid pipe) Additional charge for each ft (Ф9.52 (3/8") liquid pipe) Liquid side Gas side Max. length for all rooms	oz (ft) (oz/ft) (g/ft) (oz/ft) (g/ft) (inch) (inch) (mm) (ft) (m)	R410A 65.3 25x2 0.16 15.0 0.32 30.0 2x1/4" 2x6.35 2x3/8" 2x9.52 131.2 40.0
Design pressure Refrigerant Type Refrigerant charge Additional charge for each ft (Ф6.35 (1/4") liquid pipe) Additional charge for each ft (Ф9.52 (3/8") liquid pipe) Liquid side Gas side	oz (ft) (oz/ft) (g/ft) (oz/ft) (inch) (mm) (ft) (ft)	R410A 65.3 25x2 0.16 15.0 0.32 30.0 2x1/4" 2x6.35 2x3/8" 2x9.52 131.2 40.0 82.0
Design pressure Refrigerant Type Refrigerant charge Additional charge for each ft (Φ6.35 (1/4") liquid pipe) Additional charge for each ft (Φ9.52 (3/8") liquid pipe) Liquid side Gas side Max. length for all rooms Max. length for one indoor unit	oz (ft) (oz/ft) (g/ft) (oz/ft) (inch) (mm) (ft) (m) (ft) (m)	R410A 65.3 25x2 0.16 15.0 0.32 30.0 2x1/4" 2x6.35 2x3/8" 2x9.52 131.2 40.0 82.0 25.0
Design pressure Refrigerant Type Refrigerant charge Additional charge for each ft (Φ6.35 (1/4") liquid pipe) Additional charge for each ft (Φ9.52 (3/8") liquid pipe) Liquid side Gas side Max. length for all rooms Max. length for one indoor unit Max. height difference between	oz (ft) (oz/ft) (g/ft) (oz/ft) (g/ft) (inch) (mm) (inch) (mm) (ft) (m) (ft) (m)	R410A 65.3 25x2 0.16 15.0 0.32 30.0 2x1/4" 2x6.35 2x3/8" 2x9.52 131.2 40.0 82.0 25.0 25.0 49.2
Design pressure Refrigerant Type Refrigerant charge Additional charge for each ft (Φ6.35 (1/4") liquid pipe) Additional charge for each ft (Φ9.52 (3/8") liquid pipe) Liquid side Gas side Max. length for all rooms Max. length for one indoor unit Max. height difference between indoor and outdoor unit	oz (ft) (oz/ft) (g/ft) (oz/ft) (inch) (inch) (mm) (ft) (m) (ft) (m) (ft) (m) (ft) (m) (ft) (m)	R410A 65.3 25x2 0.16 15.0 0.32 30.0 2x1/4" 2x6.35 2x3/8" 2x9.52 131.2 40.0 82.0 25.0 49.2 15.0
Design pressure Refrigerant Type Refrigerant charge Additional charge for each ft (Φ6.35 (1/4") liquid pipe) Additional charge for each ft (Φ9.52 (3/8") liquid pipe) Liquid side Gas side Max. length for all rooms Max. length for one indoor unit Max. height difference between	oz (ft) (oz/ft) (g/ft) (oz/ft) (g/ft) (inch) (mm) (inch) (mm) (ft) (m) (ft) (m)	R410A 65.3 25x2 0.16 15.0 0.32 30.0 2x1/4" 2x6.35 2x3/8" 2x9.52 131.2 40.0 82.0 25.0 49.2

	(Deg. °C)	
		-15~50
Outdoor(heating)	(Deg. °F) (Deg. °C)	-13~75 -25~24
	(0)	20 2
OUTDOOR UNIT DATA		
Compressor		
Туре		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)	80.00
Output RLA	(W) (A)	00.00
Speed	(r/min)	750/600/500
Air flow & Noise level	(1/1111)	130/000/300
Outdoor air flow (Max.)	(CFM)	1764.71
Outdoor noise level	[dB(A)]	58.50
Outdoor unit	[00(/)]	00.00
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
	(5,	