R454b
Refrigerant

SUBMITTAL DATA SHEET

Series Name: Value Tier - INFINI Series
Model Number: MSGNS-H12B-1A/MO1BS-H12B-1A

Midea

High Wall Mini Split Heat Pump System	
Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION		
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		353 / 294 / 235 / 177 / 130
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		45 / 41 / 37 / 27.5 / 18.5
Dimension (W×D×H)	inch	32-7/8 x 8-1/4 x 11-5/8
	mm	835 × 208 × 295
Package (W×D×H)	inch	34.45 x 11.22 x 14.96
	mm	875 × 285 × 380
Net/Gross Weight	lbs	19/26
	kg	8.8/11.6

OUTDOOR SPECIFICATION		
Compressor Type		ROTARY
Compressor Model		KSN98D64UFZ3
Refrigerant		R454B
Refrigerant Oil Charge(mL)		300
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1,235
Outdoor Noise Level (dBA)		52.5
Dimension (W×D×H)	inch	30-1/8 x 11-7/8 x 21-7/8
	mm	765 × 303 × 555
Package (W×D×H)	inch	34-7/8 x 13-1/4 x 24
	mm	887 × 337 × 610
Net/Gross Weight	lbs	61/67
	kg	27.8/30.4

EFFICIENCY			
Cooling		Heating	
SEER2	21.3	HSPF2-4	8.7
EER2	10.0	COP	3.15

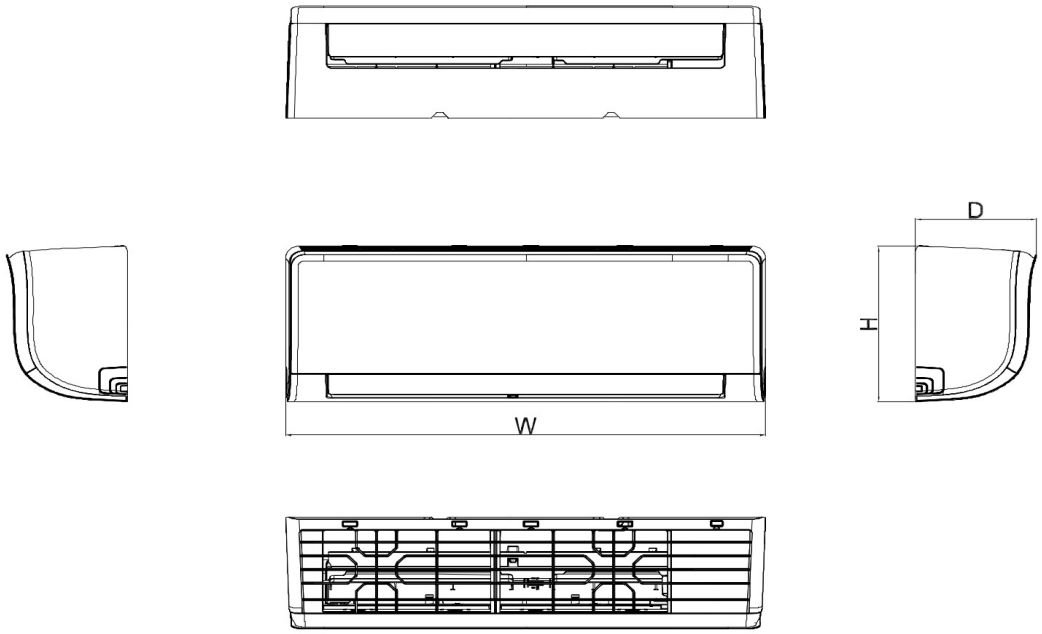
ELECTRICAL	
Power Supply	115V,60Hz,1Ph
System MCA	19.0
Connection Wiring	AWG 14/4
System MOCP	20.0
Compressor RLA	14.0
Outdoor Fan Motor RLA	0.6
Outdoor Fan Motor W	34
Indoor Fan Motor RLA	0.6
Indoor Fan Motor W	20
System Power Input @ Cooling (W)	1,200 (400 ~ 1,280)
System Power Input @ Heating (W)	1,120 (320 ~1,180)
MCA: Min. circuit amps (A)	**MOCP**: Max. over current protection (A)
RLA: Rated load amps (A)	**W:** Fan motor rated output (W)

PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	12,000
Min/Max Capacity	3,800~12,600
Moisture Removal(L/h)	1.3
Standard Operating Range(°F/°C)	-13~122 (-25 ~ 50)
Conditions:	Indoor: 80°F DB/67°F WB
	Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	12,000
1. @ 47°F Min/Max Capacity	2,730~12,500
2. @ 17°F Rated	7,800
3. @ 5°F Rated: Capacity / COP	7,000 / 1.85
3. @ 5°F Max: Capacity	7,000
Standard Operating Range(°F/°C)	-13~75 (-25 ~ 24)
1. Conditions:	Indoor: 70°F DB/60°F WB
	Outdoor: 47°F DB/43°F WB
2. Conditions:	Indoor: 70°F DB/60°F WB
	Outdoor: 17°F DB/15°F WB
3. Conditions	Indoor: 70°F DB/60°F WB
	Outdoor: 5°F DB/5°F WB

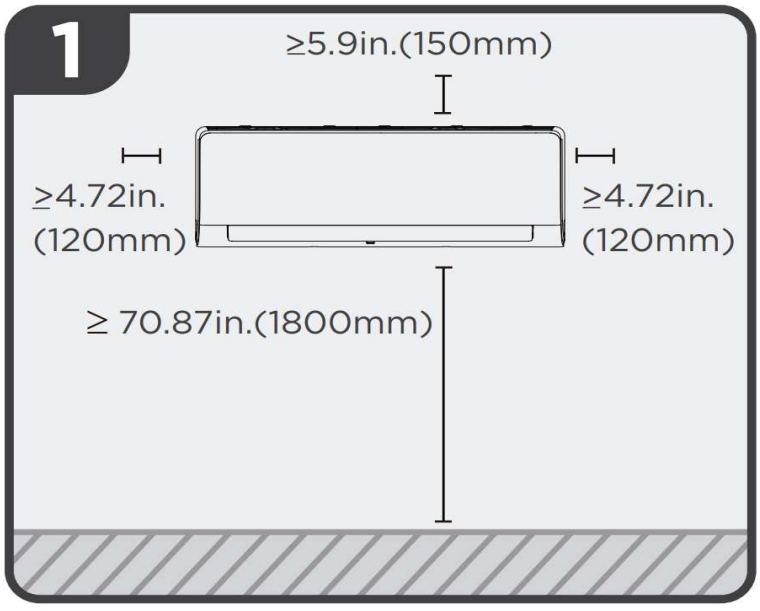
PIPING	
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	Capillary
Liquid Size	1/4" (6.35mm)
Gas Size	3/8" (9.52mm)
Max. Piping Length(ft/m)	82 (25)
Max. Height Difference(ft/m)	49 (15)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/g)	24 (0.69)
Additional Charge of Refrigerant((oz/ft)/(g/r	0.16 (15)
Connection Method	Flared

Indoor Unit Dimension



Capacity	Body Code	Unit	W	D	H
9k	A	mm	726	210	291
		inch	28-5/8	8-1/4	11-1/2
12k	B	mm	835	208	295
		inch	32-7/8	8-1/4	11-5/8
18k	C	mm	969	241	320
		inch	38-1/8	9-1/2	12-5/8
24k	D	mm	1083	244	336
		inch	42-5/8	9-5/8	13-1/4
30k~36k	F	mm	1259	283	362
		inch	49-5/8	11-1/8	14-1/4

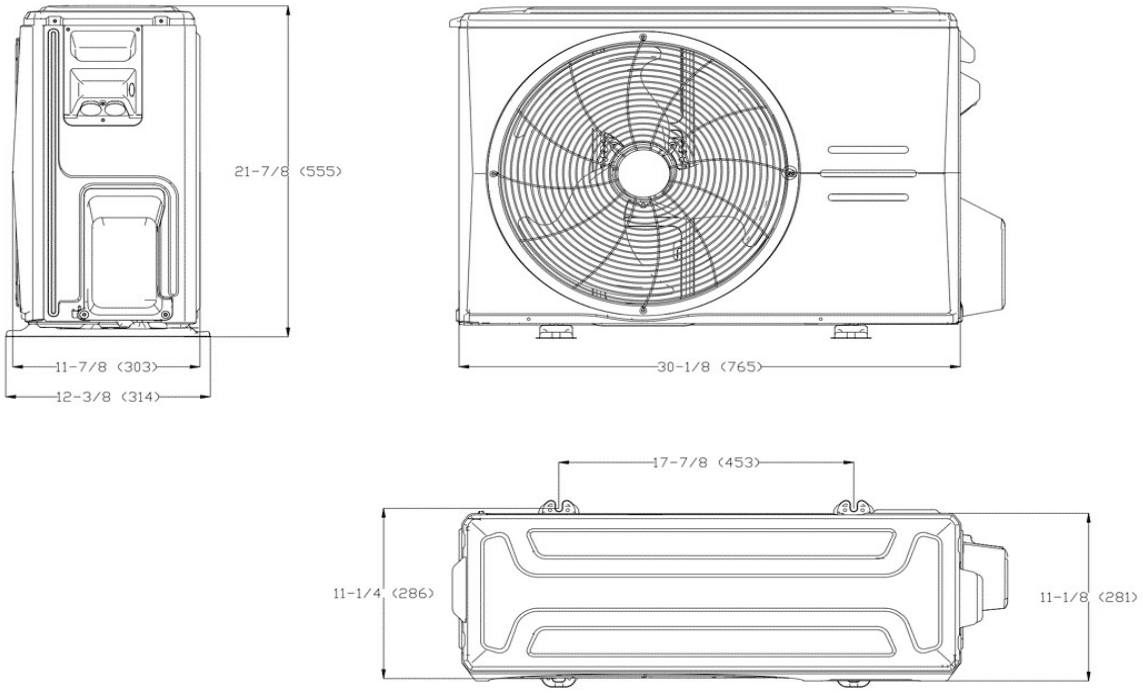
Installation Instruction



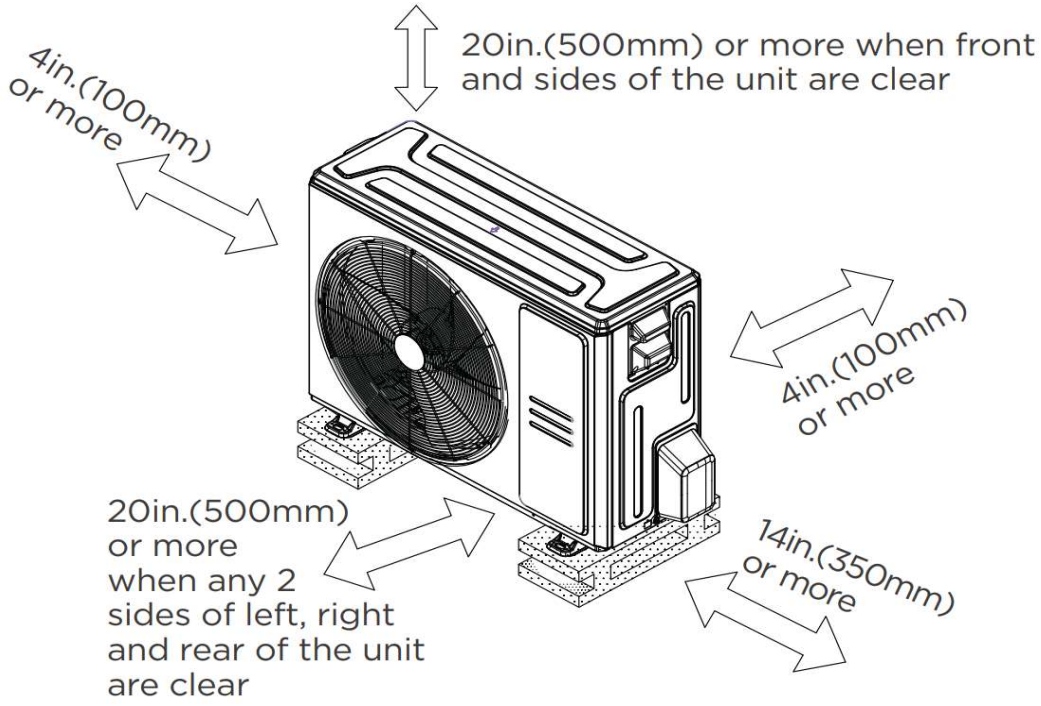
Select Installation Location

Outdoor Unit Dimension

Unit: inch (mm)



Installation Instruction



FEATURES

- Indoor unit: TU1 copper coil
- 1~100% fan speed setting
- WiFi capability: through WiFi dongle or wired controller with built-in Wi-Fi
- OTA(by using Wi-Fi dongle)
- Multiple control options available:
  - Two-way communication wired controller with built-in Wi-Fi:120N(X6W)
  - Midea Smart Thermostat : MTL04-1
  - Wireless remote controller RG10 (Built-In)
  - Third-Party 24V Thermostat*

*Midea 24V Mini Interface Kit (17222000A68532) is required.