

High Wall Essential Cooling Only Series



Indoor Unit : NDCAS21BA-18-I

Indoor Unit : NDCAS21BA-18-O

High Wall 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)		500.3 / 470.9 / 353.2 / 306.1 / 306.1
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		48.0/44/37.0/21.0/19
Dimension (W×D×H)	inch	38.23 x 8.98 x 12.64
	mm	971.0×228.0×321.0
Package (W×D×H)	inch	41.14 x 12.01 x 15.94
	mm	1045×305×405
Net/Gross Weight	lbs	24.91/32.85
	kg	11.3/14.9

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Compressor Model		KSN140D58UFZ
Refrigerant		R454B
Refrigerant Oil Charge(mL)		440
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1235.3
Outdoor Noise Level (dBA)		57.0
Dimension (W×D×H)	inch	30.12 x 11.93 x 21.85
	mm	765.0×303.0×555.0
Package (W×D×H)	inch	34.92 x 13.27 x 24.02
	mm	887×337×610
Net/Gross Weight	lbs	59.97/65.26
	kg	27.2/29.6

EFFICIENCY

Cooling		Heating	
SEER2	22.2	HSPF2-4	NA
EER2	11.7	COP	NA

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	17500
Min/Max Capacity	3100~18400
Moisture Removal(L/h)	2.1
Standard Operating Range(°F/°C)	5~122(-15~50)
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	NA
1. @ 47°F Min/Max Capacity	/~
2. @ 17°F Rated	NA
3. @ 5°F Rated: Capacity / COP	NA/NA
3. @ 5°F Max: Capacity	NA
Standard Operating Range(°F/°C)	N/A(NA)
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

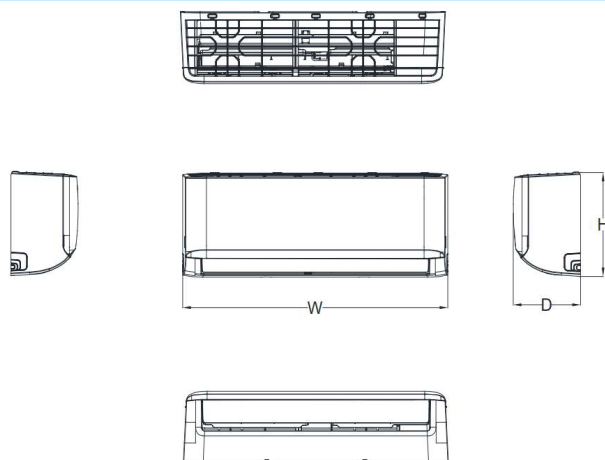
ELECTRICAL

Power Supply	208/230V,60Hz,1Ph
System MCA	16.0
Connection Wiring	14#x4
System MOC	20
Compressor RLA	11.0
Outdoor Fan Motor RLA	0.5
Outdoor Fan Motor W	34
Indoor Fan Motor RLA	0.5
Indoor Fan Motor W	30
System Power Input @ Cooling (W)	1549(370 ~ 1610)
System Power Input @ Heating (W)	NA(/ ~/)
MCA: Min. circuit amps (A)	MOC: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING

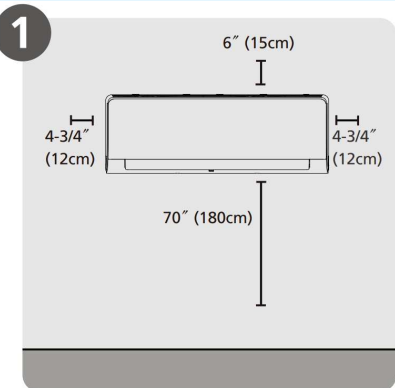
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	Capillary
Liquid Size	6.35mm(1/4in)
Gas Size	12.7mm(1/2in)
Max. Piping Length(ft/m)	98.40(30)
Max. Height Difference(ft/m)	65.60(20)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/g)	27.51(0.78)
Additional Charge of Refrigerant(oz/ft)/(g/m)	0.16(15)
Connection Method	Flared

Indoor Unit Dimension

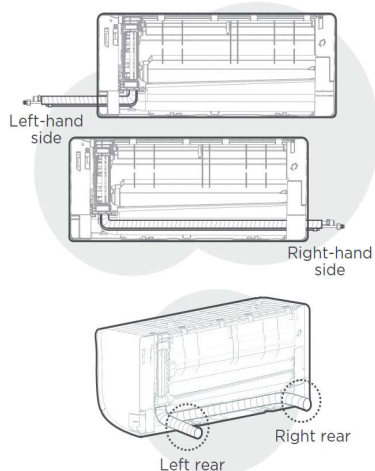


Capacity	Body Code	W(inch/mm)	D(mm/inch)	H(mm/inch)
6K~9K	A	28-3/4in /729mm	7-7/8in /200mm	11-1/2in /292mm
9K~12K	B	31-5/8in /802mm	7-7/8in /200mm	11-5/8in /295mm
18K	C	38-1/4in /971mm	9in/228mm	12-5/8in /321mm
18K~24K	D	42-5/8in /1082mm	9-1/4in/234mm	13-1/4in /337mm

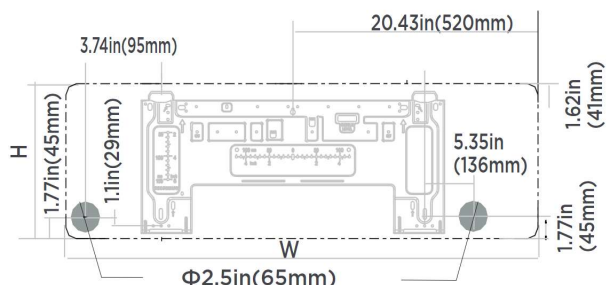
Installation Instruction



Select Installation Location



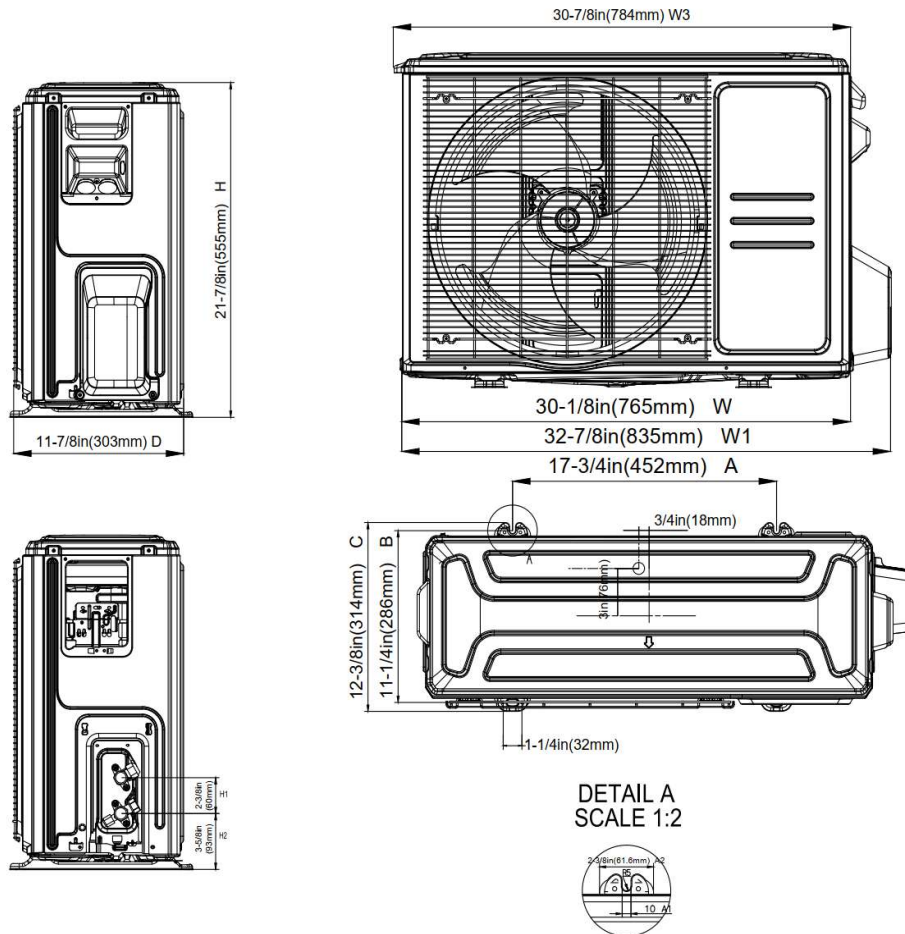
NOTE:
Based on the position of the wall hole relative to the mounting plate, choose the side from which the piping will exit the unit. You have four options for the exit direction of the piping.



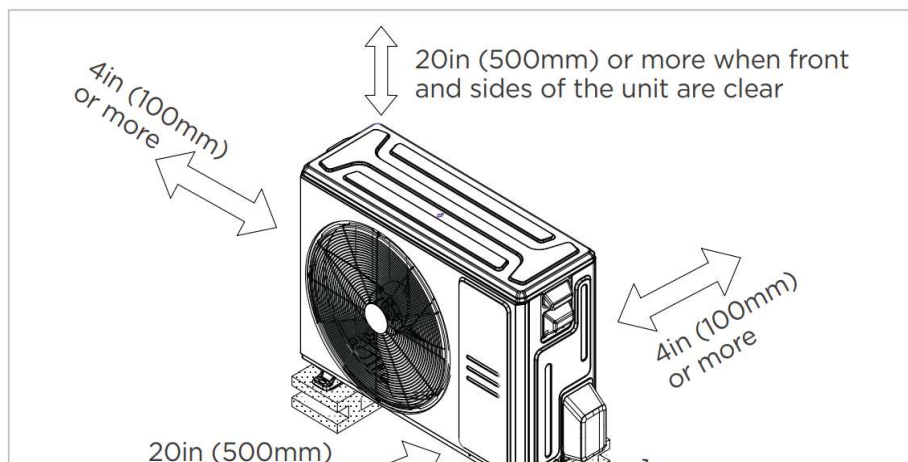
NOTE:
When the gas side connective pipe is Φ (5/8in)16mm or more, the wall hole should be (3-1/2in)90mm.

Indoor unit dimensions(WxH):
38.2in(971mm)x12.6in(321mm)

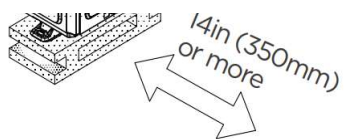
Outdoor Unit Dimension



Installation Instruction



or more
when any 2
sides of left, right
and rear of the unit
are clear



Meets all spatial requirements shown in Installation
Clearance Requirements above.