

R454b Refrigerant

SUBMITTAL DATA SHEET

Air Handler Heat Pump System BNG2A36SCN-36ENA

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION

Dimension (WxDxH)	inch	14-1/2 x 21 x 23-5/16
	mm	368 x 533 x 592
Package (WxDxH)	inch	17-1/2 x 25-3/8 x 26
	mm	445 x 645 x 660
Net/Gross Weight	lbs	57 / 65
	kg	25.8 / 29.4

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Compressor Model		KTF310D43UMT
Refrigerant		R454B
Refrigerant Oil Charge(mL)		1,000
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		2,413
Outdoor Noise Level (dBA)		63
Dimension (WxDxH)	inch	37-1/4 x 16-1/8 x 31-7/8
	mm	946 x 410 x 810
Package (WxDxH)	inch	42-7/8 x 19-5/8 x 34-7/8
	mm	1090 x 500 x 885
Net/Gross Weight	lbs	153 /164
	kg	69.5 / 74.2

EFFICIENCY

Cooling		Heating	
SEER2	14.9	HSPF2-4	8.5
EER2	10.0	COP	3.00

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	34,000
Min/Max Capacity	10,400~35,000
Moisture Removal(L/h)	4
Standard Operating Range(°F/°C)	-13~122 (-25~50)
Rated Cooling 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	36,000
2. @ 47°F Min/Max Capacity	11,200~39,400
3. @ 17°F Rated	24,800
4. @ 5°F Rated: Capacity / COP	27,200/1.9
5. @ 5°F Max: Capacity	27,200
Standard Operating Range(°F/°C)	-13~75 (-25~24)
1. Rated Heating Conditions:	
Indoor: 70°F DB/60°F WB	
Outdoor: 47°F DB/43°F WB	
2. Rated Heating Conditions:	
Indoor: 70°F DB/60°F WB	
Outdoor: 17°F DB/15°F WB	
3. Heating Conditions, Compressor	
Indoor: 70°F DB/60°F WB	
Operating at Max. Frequency	
Outdoor: 5°F DB/5°F WB	

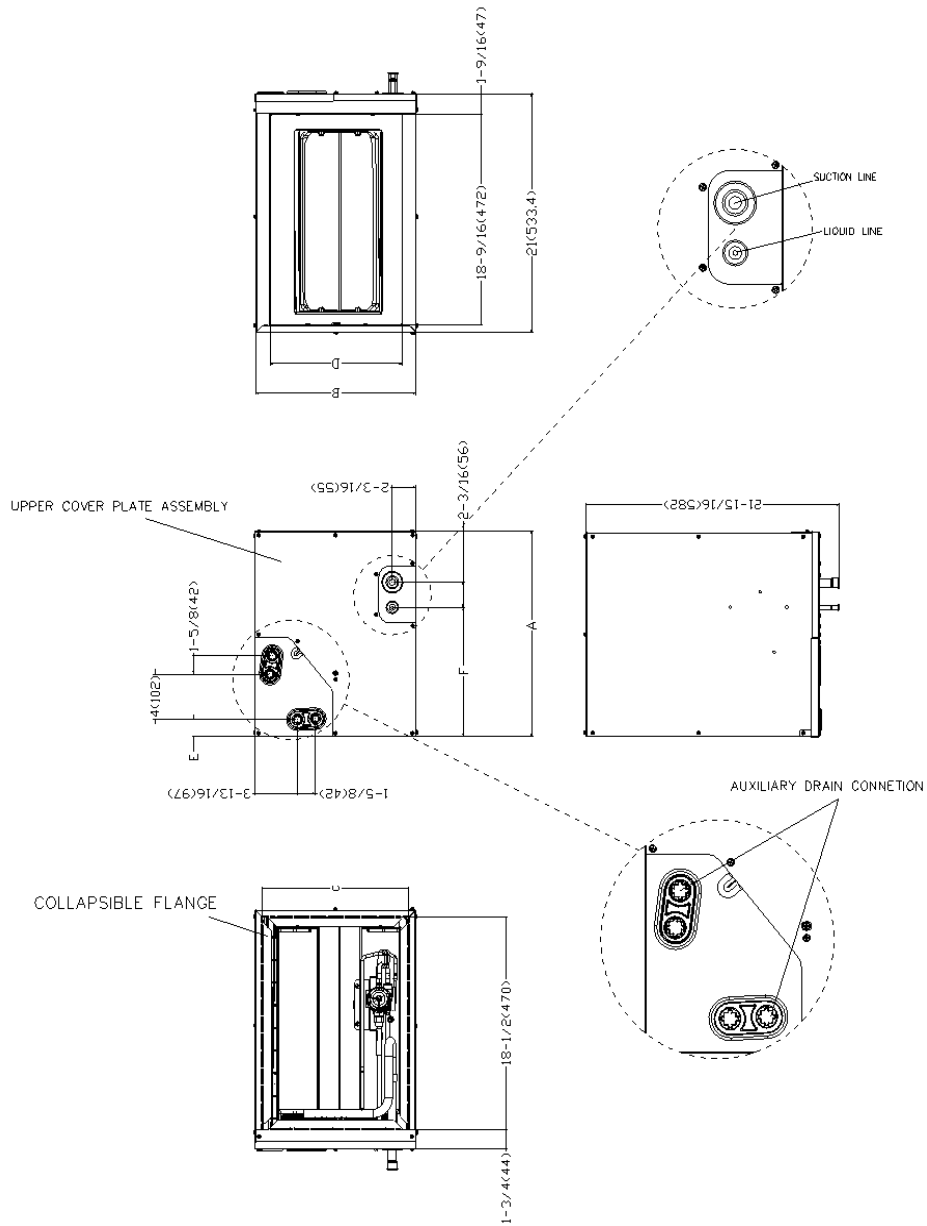
ELECTRICAL

Indoor Power Supply	24V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	/
Indoor MOP	/
Outdoor Power Supply	208/230,60Hz,1Ph
Outdoor MCA	24.0
Outdoor MOP	30.0
Communication Wiring	AWG 20-2
Compressor RLA	17.5
Outdoor Fan Motor RLA	1.5
Outdoor Fan Motor W	120
Indoor Fan Motor RLA	/
Indoor Fan Motor W	/
System Power Input @ Cooling (W)	3,780 (480~3,600)
System Power Input @ Heating (W)	3,517 (550~3,240)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING

Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	3/8" (9.52mm)
Gas Size	3/4" (19mm)
Max. Piping Length(ft/m)	246 (75)
Max. Height Difference(ft/m)	98.4 (30)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount (oz/ft)	116 (3.3)
Additional Charge of Refrigerant((oz/ft)/(g/r	0.7 (65)
Connection Method	Flared

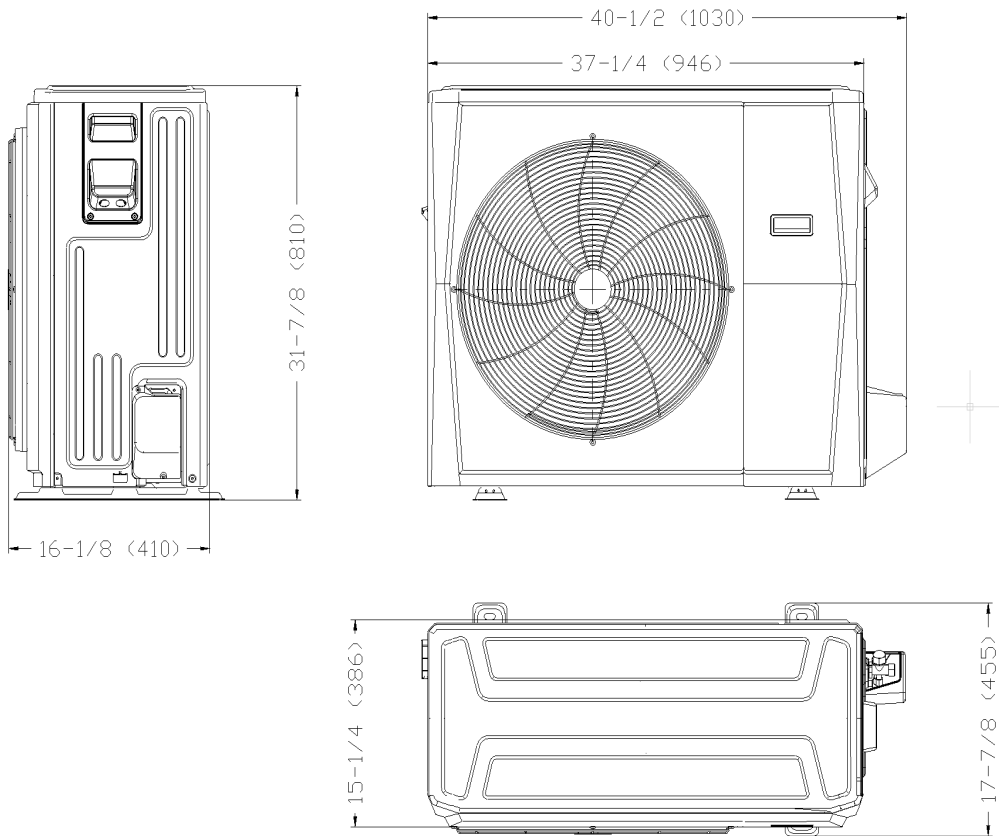
Indoor Unit Dimension



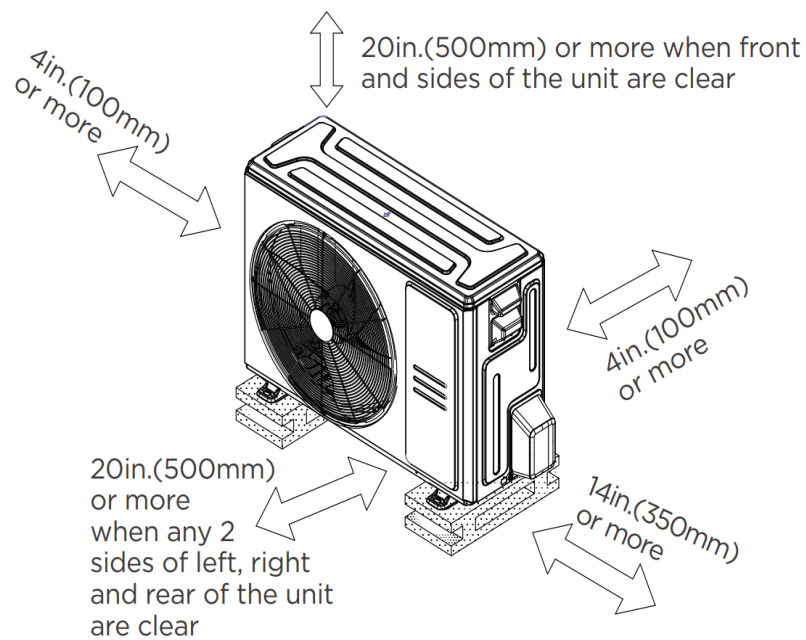
Dimensions		Model(Btu/h)		24-A		36-A		36-B	
				inch	mm	inch	mm	inch	mm
A	Model Height			18	457	23-5/16	592	23-1/2	599
B	Model Width			14-1/2	368	14-1/2	368	17-1/2	445
C	Supply Air Opening Width			13-1/4	336	13-1/4	336	16-3/16	411
D	Return Air Opening Width			11-15/16	303	11-15/16	303	14-15/16	380
E	Condensate Drains Height			1-7/16	38	1-7/16	38	1-7/16	38
F	Liquid Line Height			11-3/8	290	17-15/16	455	16-3/8	417
Dimensions		Model(Btu/h)		24-B		36-C			
				inch	mm	inch	mm		
A	Model Height			18	457	24	611		
B	Model Width			17-1/2	445	21	534		
C	Supply Air Opening Width			16-3/16	411	19-3/4	502		
D	Return Air Opening Width			14-15/16	380	18-7/16	468		
E	Condensate Drains Height			1-7/16	38	2-3/16	55		
F	Liquid Line Height			11-3/8	290	17-1/2	445		

Outdoor Unit Dimension

Unit: inch(mm)



Installation Instruction For Outdoor Unit



Features

- Multi-position installation: horizontal(left or right), vertical(up or down)
- Aluminum Coil
- R454B refrigerant sensor
- Easy Maintenance
- Multiple control options available:
 - Two way communication wired controller with built-in WiFi:120N(X6W)
 - Third-Party 24V Thermostat