

# SUBMITTAL DATA SHEET

Series Name: Cooling Only AHU Series  
Model Number: BNG1A30ACN/BNGFA30DH2

## Air Handler 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)    |      | 988.85 / 894.67 / 806.38 / 712.21 / 712.21 |
| Indoor Noise Level (Turbo/H/M/L/Si) (dBA) |      | 46/46/42/29/29                             |
| Dimension (W×D×H)                         | inch | 21.02 x 21.02 x 49.02                      |
|                                           | mm   | 534.0×534.0×1245.0                         |
| Package (W×D×H)                           | inch | 26.57 x 24.41 x 52.56                      |
|                                           | mm   | 675×620×1335                               |
| Net/Gross Weight                          | lbs  | 128.97/153.44                              |
|                                           | kg   | 58.5/69.6                                  |

## OUTDOOR SPECIFICATION

|                              |      |                       |
|------------------------------|------|-----------------------|
| Compressor Type              |      | ROTARY                |
| Compressor Model             |      | KTM240D46UKT2         |
| Refrigerant                  |      | R454B                 |
| Refrigerant Oil Charge(mL)   |      | 620                   |
| Refrigerant Oil              |      | VG74                  |
| Outdoor Air Flow (Max) (CFM) |      | 1,825                 |
| Outdoor Noise Level (dBA)    |      | 58                    |
| Dimension (W×D×H)            | inch | 35.04 x 13.46 x 26.50 |
|                              | mm   | 890×342×673           |
| Package (W×D×H)              | inch | 39.17 x 13.46 x 29.13 |
|                              | mm   | 995×342×740           |
| Net/Gross Weight             | lbs  | 98.33/105.60          |
|                              | kg   | 44.6/47.9             |

## EFFICIENCY

| Cooling |      | Heating |   |
|---------|------|---------|---|
| SEER2   | 17.0 | HSPF2-4 | / |
| EER2    | 11.0 | COP     | / |

## PERFORMANCE of Cooling

| Cooling (Btu/hr)                |                                                     |
|---------------------------------|-----------------------------------------------------|
| Rated Capacity                  | 30000                                               |
| Min/Max Capacity                | 10800~32000                                         |
| Moisture Removal(L/h)           | 3.5                                                 |
| Standard Operating Range(°F/°C) | -13~122(-25~50)                                     |
| Rated Cooling Conditions:       | Indoor: 80°F DB/67°F WB<br>Outdoor: 95°F DB/75°F WB |

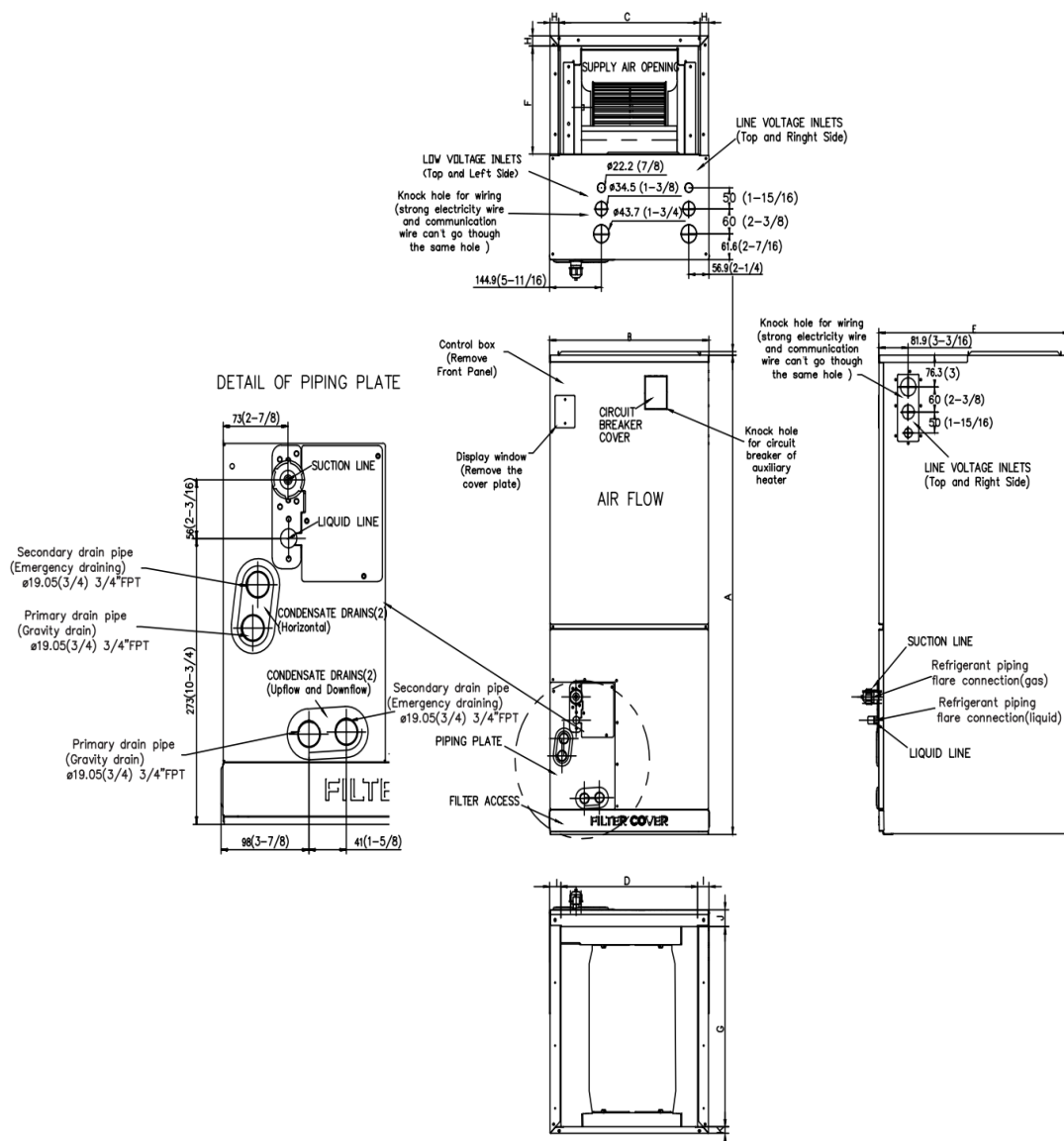
## ELECTRICAL

|                                  |                                        |
|----------------------------------|----------------------------------------|
| Indoor Power Supply              | 115/208/230V,60Hz,1Ph                  |
| Indoor MCA 115V/(208/230V)       | 8.0/6.0                                |
| Indoor MOP                       | 15                                     |
| Outdoor Power Supply             | 208/230V,60Hz,1Ph                      |
| Outdoor MCA                      | 20                                     |
| Outdoor MOP                      | 20                                     |
| Communication Wiring             | AWG 20-2                               |
| Compressor RLA                   | 15                                     |
| Outdoor Fan Motor RLA            | 1                                      |
| Outdoor Fan Motor W              | /                                      |
| Indoor Fan Motor RLA             | 4.5                                    |
| Indoor Fan Motor W               | 375                                    |
| System Power Input @ Cooling (W) | 2730(785~2820)                         |
| System Power Input @ Heating (W) | /(/)                                   |
| 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                                     | 9.52mm(3/8in) |
| Gas Size                                        | 19mm(3/4in)   |
| Max. Piping Length(ft/m)                        | 164(50)       |
| Max. Height Difference(ft/m)                    | 98(30)        |
| Max. Pre-charged Length(ft/m)                   | 24.6(7.5)     |
| Refrigerant Pre-charged Amount(oz/kg)           | 81.13(2.30)   |
| Additional Charge of Refrigerant((oz/ft)/(g/m)) | 0.7(65)       |
| Connection Method                               | Flared        |

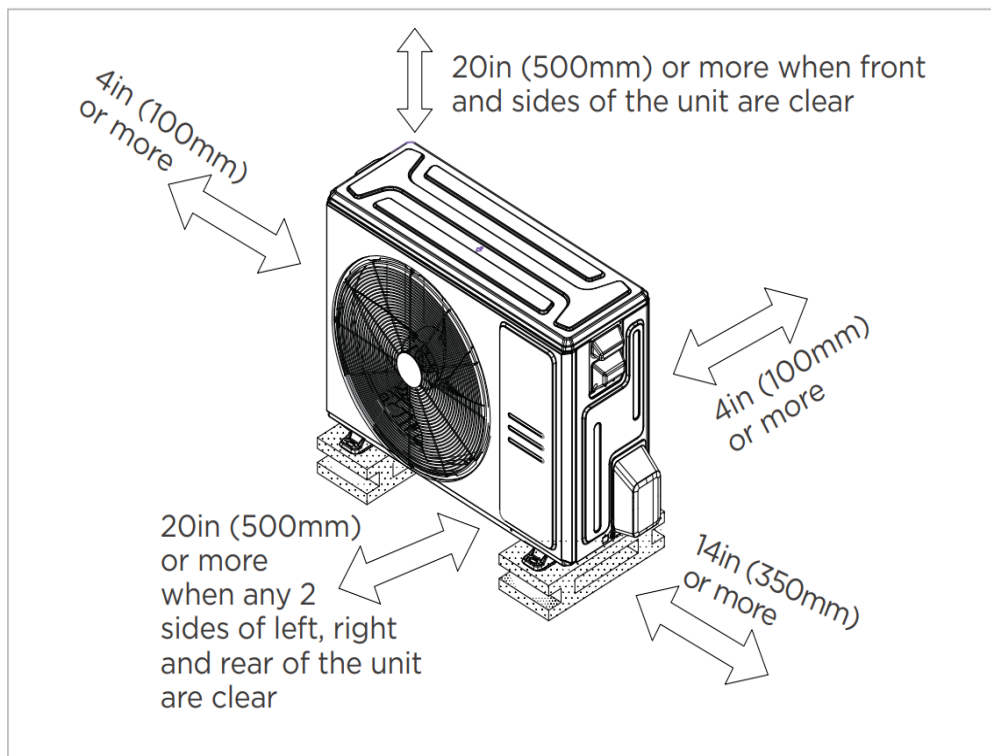
## Indoor Unit Dimension



| Dimensions | Model                    | 18k/24k |      | 30k/36k |      | 48k/60k |      |
|------------|--------------------------|---------|------|---------|------|---------|------|
|            |                          | inch    | mm   | inch    | mm   | inch    | mm   |
| A          | Model Height             | 45      | 1143 | 49      | 1245 | 53      | 1346 |
| B          | Model Width              | 17-1/2  | 445  | 21      | 534  | 24-1/2  | 622  |
| C          | Supply Air Opening Width | 15-5/8  | 397  | 19-1/8  | 486  | 22-5/8  | 575  |

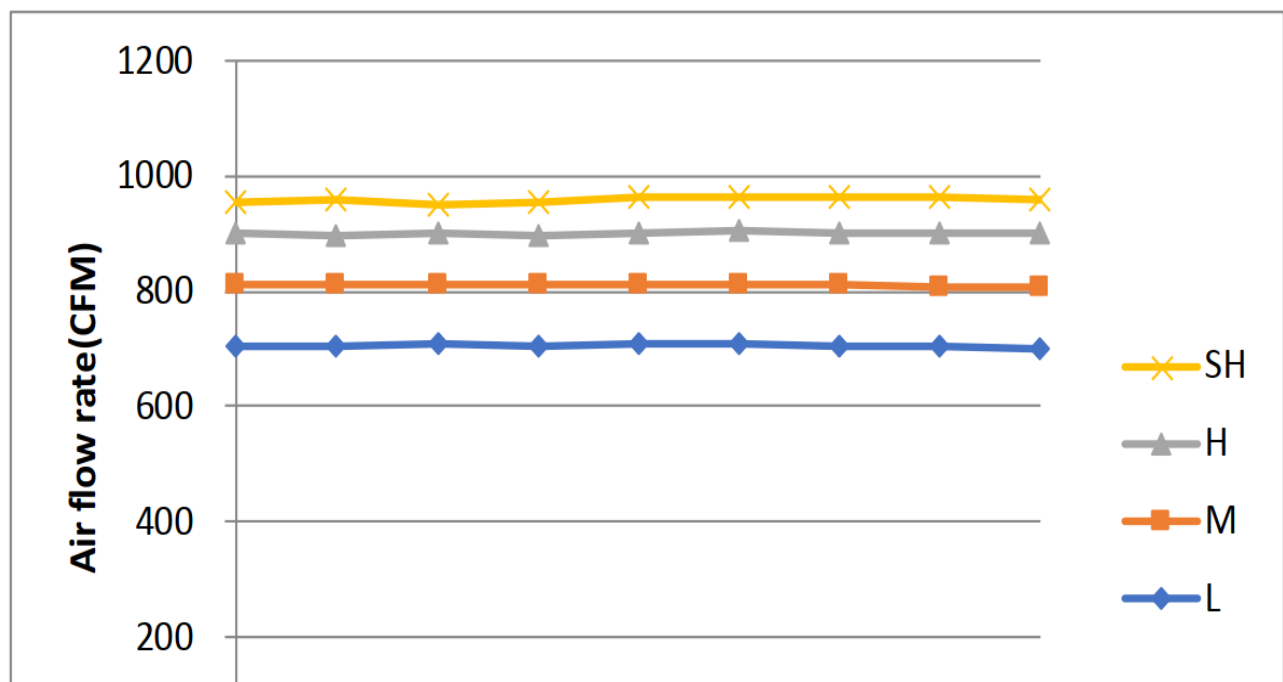


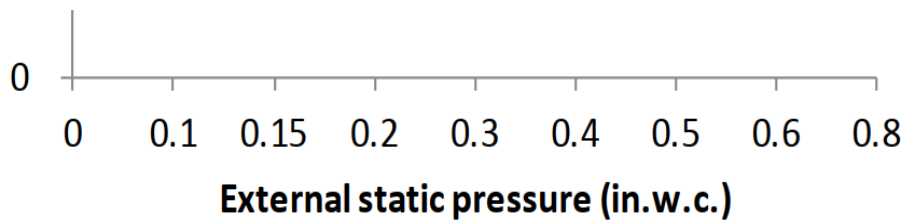
#### Installation Instruction For Outdoor Unit



Meets all spatial requirements shown in Installation Clearance Requirements above.

#### Fan Performance For Indoor Unit





#### Features

- Multi-position installation: horizontal(left or right), vertical( up or down)
- Aluminum Coil
- Constantly Air Flow system up to 0.80 In.W.G
- 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency(optional)
- Optional Auxiliary heat kit up to 25kW
- Easy Maintenance
- Multiple control options available:
  - Two way communication wired controller:120N(X6)
  - Two way communication wired controller with built-in WiFi:120N(X6W)
  - Wireless remote controller
  - Third-Party 24V Thermostat
- Adaptive Control System
- Chassis heater and crankcase heater equipped as standard