

# Submittal Data Sheet

Indoor Unit Model#: ACiQ-24W-WMB

Outdoor Unit Model#: ACiQ-24-EHPD

## 24K DUCTED WALL MOUNT AIR HANDLER & 24K STD. HEAT PUMP SYSTEM

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



### INDOOR UNIT SPECIFICATIONS

|                                           |      |                                    |
|-------------------------------------------|------|------------------------------------|
| ESP (inWG)                                |      | 0~0.8                              |
| Indoor Air Flow (Turbo/H/M/L/Si) (CFM)    |      | 824.0 / 759.3 / 694.5 / 629.8 / NA |
| Indoor Noise Level (Turbo/H/M/L/Si) (dBA) |      | 53.0 / 51 / 48 / 37.5 / NA         |
| Dimension (W×D×H)                         | inch | 20.28 x 15.71 x 36.54              |
|                                           | mm   | 515 x 399 x 928                    |
| Package (W×D×H)                           | inch | 22.83 x 19.49 x 42.91              |
|                                           | mm   | 580 x 495 x 1090                   |
| Net/Gross Weight                          | lbs  | 91.49 / 111.33                     |
|                                           | kg   | 41.5 / 50.5                        |

### OUTDOOR UNIT SPECIFICATIONS

|                              |      |                       |
|------------------------------|------|-----------------------|
| Compressor Type              |      | ROTARY                |
| Compressor Model             |      | KTM240D46UKT2         |
| Refrigerant                  |      | R454B                 |
| Refrigerant Oil Charge (mL)  |      | 620                   |
| Refrigerant Oil              |      | VG74                  |
| Outdoor Air Flow (Max) (CFM) |      | 1765.8                |
| Outdoor Noise Level (dBA)    |      | 59                    |
| Dimension (W×D×H)            | inch | 35.04 x 13.46 x 26.50 |
|                              | mm   | 890 x 342 x 673       |
| Package (W×D×H)              | inch | 39.17 x 15.67 x 29.13 |
|                              | mm   | 995 x 398 x 740       |
| Net/Gross Weight             | lbs  | 101.41 / 109.13       |
|                              | kg   | 46 / 49.5             |

### EFFICIENCY RATINGS

| Cooling |      | Heating |      |
|---------|------|---------|------|
| SEER2   | 17.4 | HSPF2-4 | 10.4 |
| EER2    | 10.8 | COP     | 3.80 |

### COOLING PERFORMANCE

| Cooling (Btu/hr)                 |                          |
|----------------------------------|--------------------------|
| Rated Capacity                   | 24000                    |
| Min/Max Capacity                 | 10100~27500              |
| Moisture Removal (L/h)           | 2.5                      |
| Standard Operating Range (°F/°C) | -25~50 (-25~50)          |
| Rated Cooling Conditions:        | Indoor: 80°F DB/67°F WB  |
|                                  | Outdoor: 95°F DB/75°F WB |

### HEATING PERFORMANCE

| Heating (Btu/hr)                                              |                          |
|---------------------------------------------------------------|--------------------------|
| 1. @ 47°F Rated                                               | 25000                    |
| 2. @ 47°F Min/Max Capacity                                    | 7000~32200               |
| 3. @ 17°F Rated                                               | 20800                    |
| 4. @ 5°F Rated: Capacity / COP                                | 19400 / 1.96             |
| 5. @ 5°F Max: Capacity                                        | 19400                    |
| Standard Operating Range (°F/°C)                              | -25~24 (-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 Operating at Max. Frequency | Indoor: 70°F DB/60°F WB  |
|                                                               | Outdoor: 5°F DB/5°F WB   |

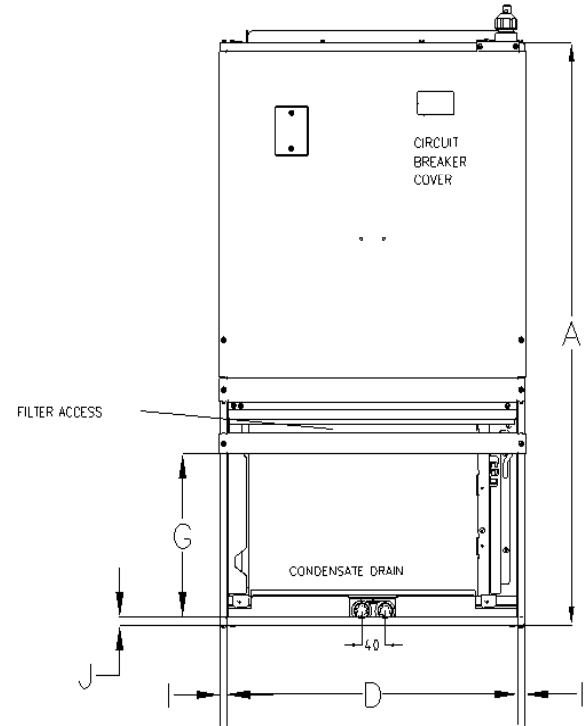
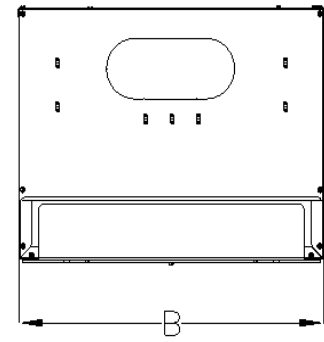
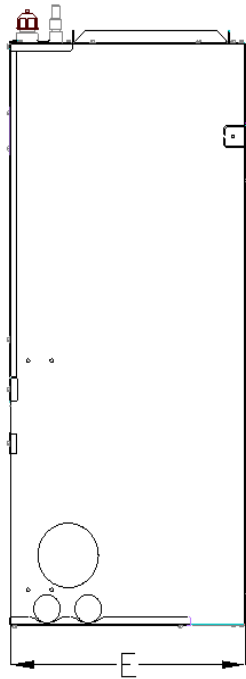
### ELECTRICAL SPECIFICATIONS

|                                  |                                      |
|----------------------------------|--------------------------------------|
| Indoor Power Supply              | 115/208/230V, 60Hz, 1Ph              |
| Indoor MCA 115V/(208/230V)       | 4                                    |
| Indoor MOP                       | 15                                   |
| Outdoor Power Supply             | 208/230V, 60Hz, 1Ph                  |
| Outdoor MCA                      | 19                                   |
| Outdoor MOP                      | 20                                   |
| Communication Wiring             | AWG 20-2                             |
| Compressor RLA                   | 14                                   |
| Outdoor Fan Motor RLA            | 1                                    |
| Outdoor Fan Motor W              | /                                    |
| Indoor Fan Motor RLA             | 3                                    |
| Indoor Fan Motor W               | 250                                  |
| System Power Input @ Cooling (W) | 2222 (830 ~ 2850)                    |
| System Power Input @ Heating (W) | 1980 (455 ~2590)                     |
| MCA: Min. circuit amps (A)       | MOP: Max. overcurrent protection (A) |
| RLA: Rated load amps (A)         | W: Fan motor rated output (W)        |

### REFRIGERANT PIPING SPECIFICATIONS

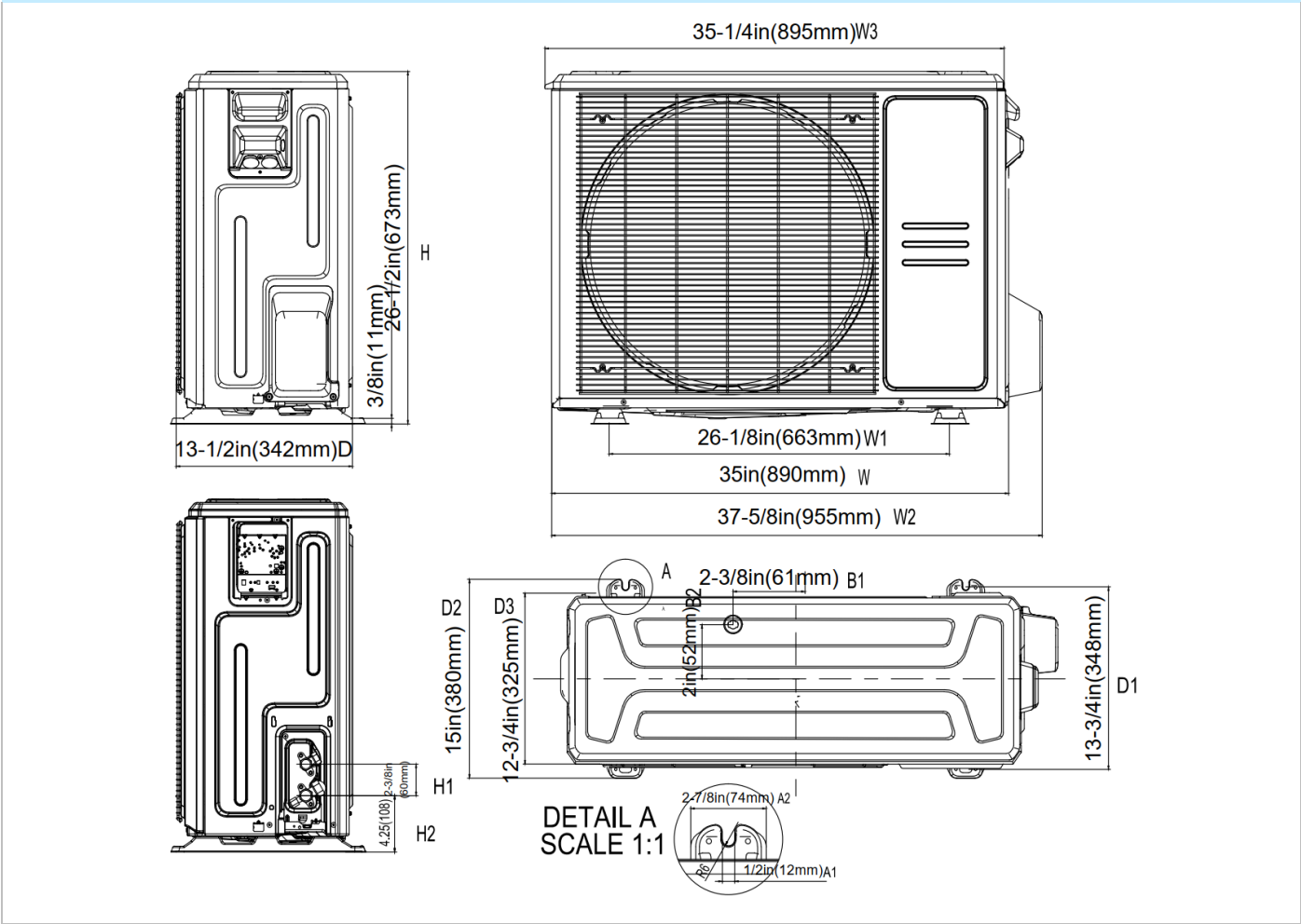
|                                                  |                |
|--------------------------------------------------|----------------|
| Throttle type (Indoor)                           | EXV            |
| Throttle type (Outdoor)                          | EXV            |
| Liquid Size                                      | 9.52mm (3/8in) |
| Gas Size                                         | 19mm (3/4in)   |
| Max. Piping Length (ft/m)                        | 164 (50)       |
| Max. Height Difference (ft/m)                    | 82 (25)        |
| Max. Pre-charged Length (ft/m)                   | 24.6 (7.5)     |
| Refrigerant Pre-charged Amount (oz/kg)           | 74.08 (2.1)    |
| Additional Charge of Refrigerant ((oz/ft)/(g/m)) | 0.7 (65)       |
| Connection Method                                | Flared         |

# INDOOR UNIT DIMENSIONS

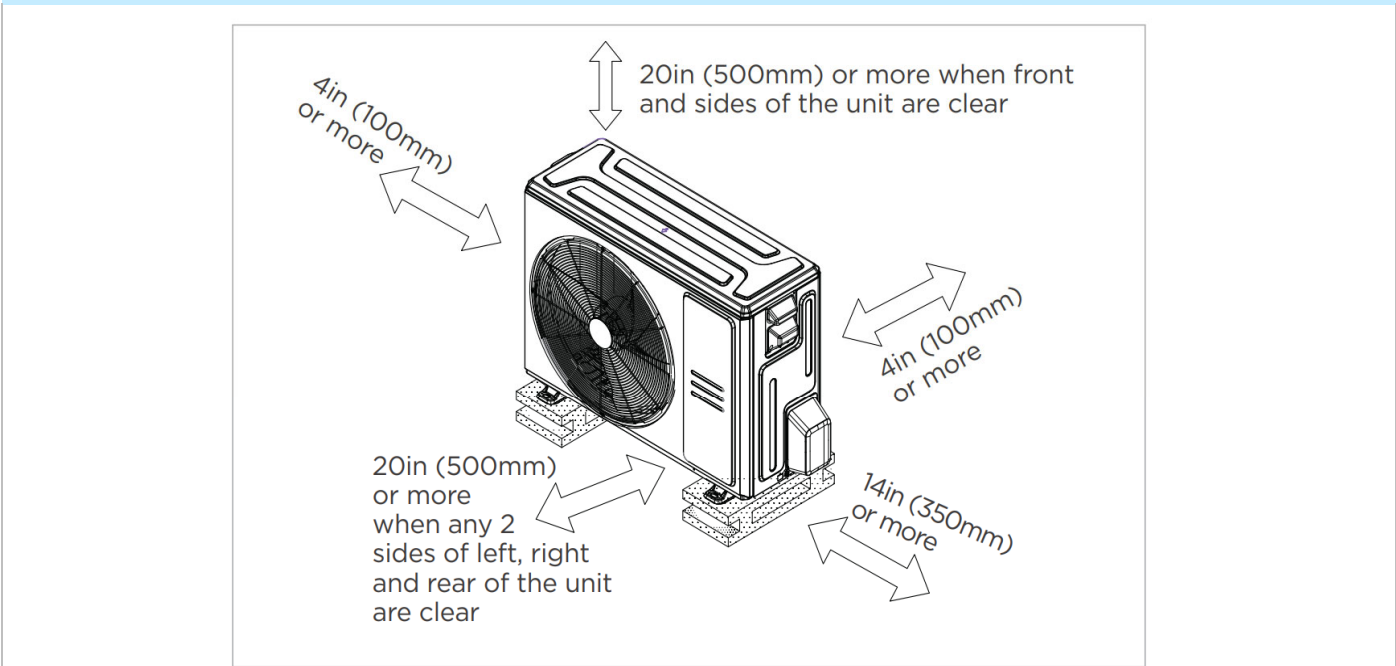


| Dimensions |                                    | Model(Btu/h) |  | 18K/24K |       | 30K/36K |       |
|------------|------------------------------------|--------------|--|---------|-------|---------|-------|
|            |                                    |              |  | inch    | mm    | inch    | mm    |
| A          | Model Height                       |              |  | 36.5    | 928   | 49      | 1017  |
| B          | Model Width                        |              |  | 20.3    | 515   | 21      | 559   |
| C          | Supply Air Opening Width           |              |  | 17.4    | 442   | 18.8    | 478.6 |
| D          | Return Air Opening Width           |              |  | 19.4    | 493.8 | 21.2    | 537.8 |
| E          | Model Depth                        |              |  | 15.7    | 399   | 21      | 483   |
| F          | Supply Air Opening Depth           |              |  | 10.4    | 265.2 | 9.3     | 235.4 |
| G          | Return Air Opening Depth           |              |  | 10.3    | 261   | 13.1    | 332.5 |
| H          | Supply Air Opening Clearance       |              |  | 1.1     | 29.1  | 1.6     | 41    |
| I          | Return Air Opening Side Clearance  |              |  | 0.42    | 10.6  | 0.42    | 10.6  |
| J          | Return Air Opening Front Clearance |              |  | 0.47    | 12    | 0.63    | 16    |

## OUTDOOR UNIT DIMENSIONS

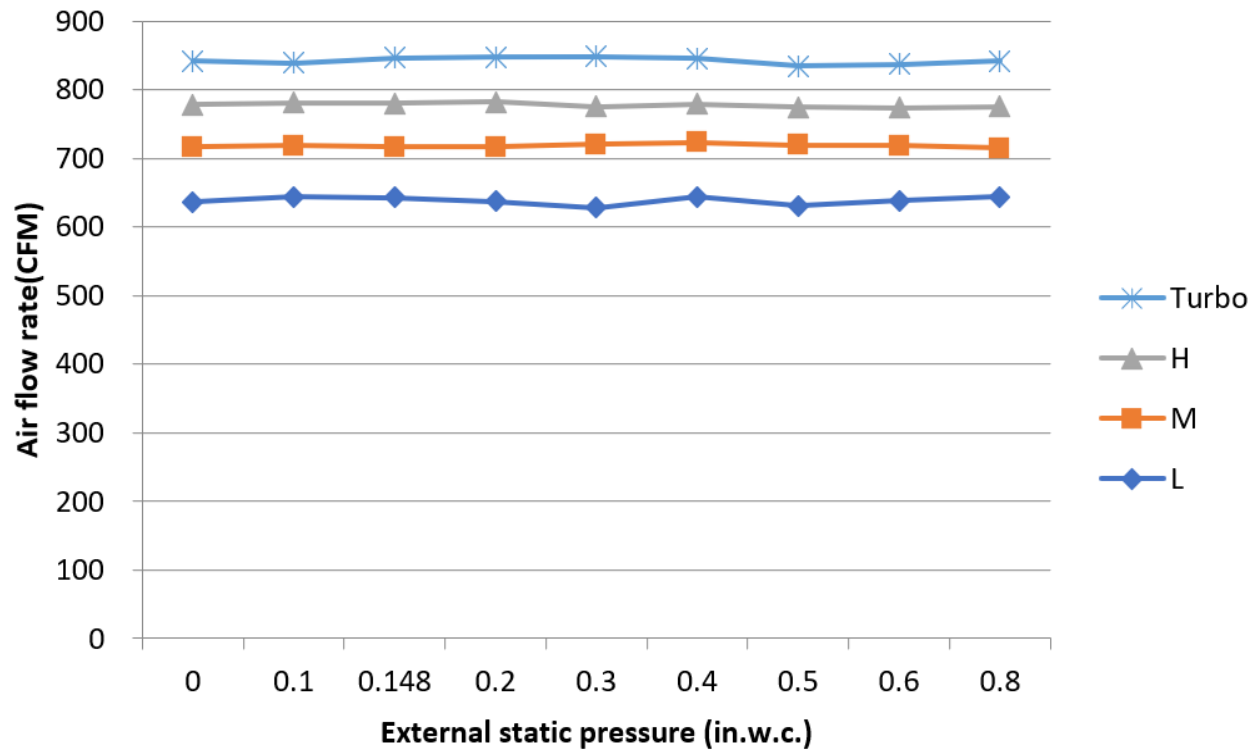


## INSTALLATION INSTRUCTIONS FOR OUTDOOR UNIT



☒ Meets all spatial requirements shown in Installation Clearance Requirements above.

## 24K



## FEATURES

- Multi-position of return air: front (factory standard) or bottom
- Aluminum Coil
- Constantly Air Flow system up to 0.80 In.W.G
- Optional Auxiliary heat kit up to 10kW
- 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
- High efficiency up to 18.5 SEER2, 11.5 EER2, 9.4 HSPF2
- Chassis heater and crankcase heater equipped as standard