



## Submittal Data Sheet

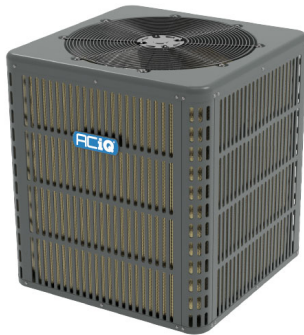
Indoor Unit Model#: AC-I-42AH14

Outdoor Unit Model#: AC-I-42AC14

### 42K R32 Ducted Air Handler & 42K Top Discharge AC-Cooling Only Condenser

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

System Product Code: 81017555324  
Indoor Unit Product Code: 81017555256  
Outdoor Unit Product Code: 810175554129



#### INDOOR UNIT SPECIFICATIONS

|                                 |       |                       |
|---------------------------------|-------|-----------------------|
| Indoor Throttle                 | Type  | Piston                |
| Indoor Fan Airflow (Hi/Lo)      | CFM   | 1450 / 1100           |
| Indoor Noise Level (Hi/Lo)      | dB(A) | 53.0 / 46.0           |
| Indoor Fan Motor Output         | W     | 520                   |
| Fan Motor Rated Load Amps (RLA) | A     | 3.48                  |
| Unit Dimensions (WxDxH)         | in    | 24.49 x 21.02 x 52.99 |
|                                 | mm    | 622 x 534 x 1346      |
| Packing Dimensions (WxDxH)      | inch  | 27.87 x 26.57 x 54.13 |
|                                 | mm    | 708 x 675 x 1375      |
| Net Weight                      | lbs   | 154.3                 |
|                                 | kg    | 70.0                  |
| Gross Weight                    | lbs   | 170.6                 |
|                                 | kg    | 77.4                  |

#### OUTDOOR UNIT SPECIFICATIONS

|                                   |       |                       |
|-----------------------------------|-------|-----------------------|
| Outdoor Throttle                  | Type  | Capillary             |
| Outdoor Fan Airflow (Max.)        | CFM   | 2950                  |
| Outdoor Noise Level               | dB(A) | 60                    |
| Compressor                        | Type  | Scroll                |
| Compressor Capacity               | W     | 13750                 |
| Compressor Input Power            | W     | 2220                  |
| Compressor Rated Load Amps (RLA)  | A     | 10.9                  |
| Compressor Refrigerant Oil        | Type  | VG46                  |
| Compressor Refrigerant Oil Volume | ml    | 740                   |
| Outdoor Fan Motor Output          | W     | 200                   |
| Fan Motor Rated Load Amps (RLA)   | A     | 2.3                   |
| Unit Dimensions (WxDxH)           | in    | 29.13 x 29.13 x 32.87 |
|                                   | mm    | 740 x 740 x 835       |
| Packing Dimensions (WxDxH)        | in    | 30.32 x 30.32 x 34.06 |
|                                   | mm    | 770 x 770 x 865       |
| Net Weight                        | lbs   | 157                   |
|                                   | kg    | 71.0                  |
| Gross Weight                      | lbs   | 168                   |
|                                   | kg    | 76.0                  |

#### EFFICIENCY RATINGS

| Cooling |       |
|---------|-------|
| SEER2   | 14.30 |
| EER2    | 11.70 |

#### COOLING PERFORMANCE & OPERATING TEMPERATURE

| Cooling (Btu/hr)                              |                                                     |              |
|-----------------------------------------------|-----------------------------------------------------|--------------|
| Rated Cooling Capacity*                       | 42000                                               |              |
| Cooling Capacity at 109°F (43°C)              | 38600                                               |              |
| *Rated Cooling Conditions:                    | Indoor: 80°F DB/67°F WB<br>Outdoor: 95°F DB/75°F WB |              |
| Ambient Temperature Range (Cooling Operation) |                                                     |              |
| Indoor Unit                                   | °F                                                  | 60°F ~ 90°F  |
|                                               | °C                                                  | 16°C ~ 32°C  |
| Outdoor Unit                                  | °F                                                  | 5°F ~ 131°F  |
|                                               | °C                                                  | -15°C ~ 55°C |

#### ELECTRICAL SPECIFICATIONS

|                                                       |           |                      |
|-------------------------------------------------------|-----------|----------------------|
| Outdoor Unit Power Supply                             | V, Ph, Hz | 208/230V, 60Hz, 1 Ph |
| Indoor Unit Power Supply                              | V, Ph, Hz | 208/230V, 60Hz, 1 Ph |
| Communication Wiring                                  | Type      | AWG 25x3 Shielded    |
| ODU Minimum Circuit Ampacity (MCA)                    | A         | 25.0                 |
| ODU Max. Overcurrent Protection (Max Fuse or Breaker) | A         | 35                   |
| System Power Input (W)                                | W         | 3590                 |
| Rated Current (A)                                     | A         | 16.40                |

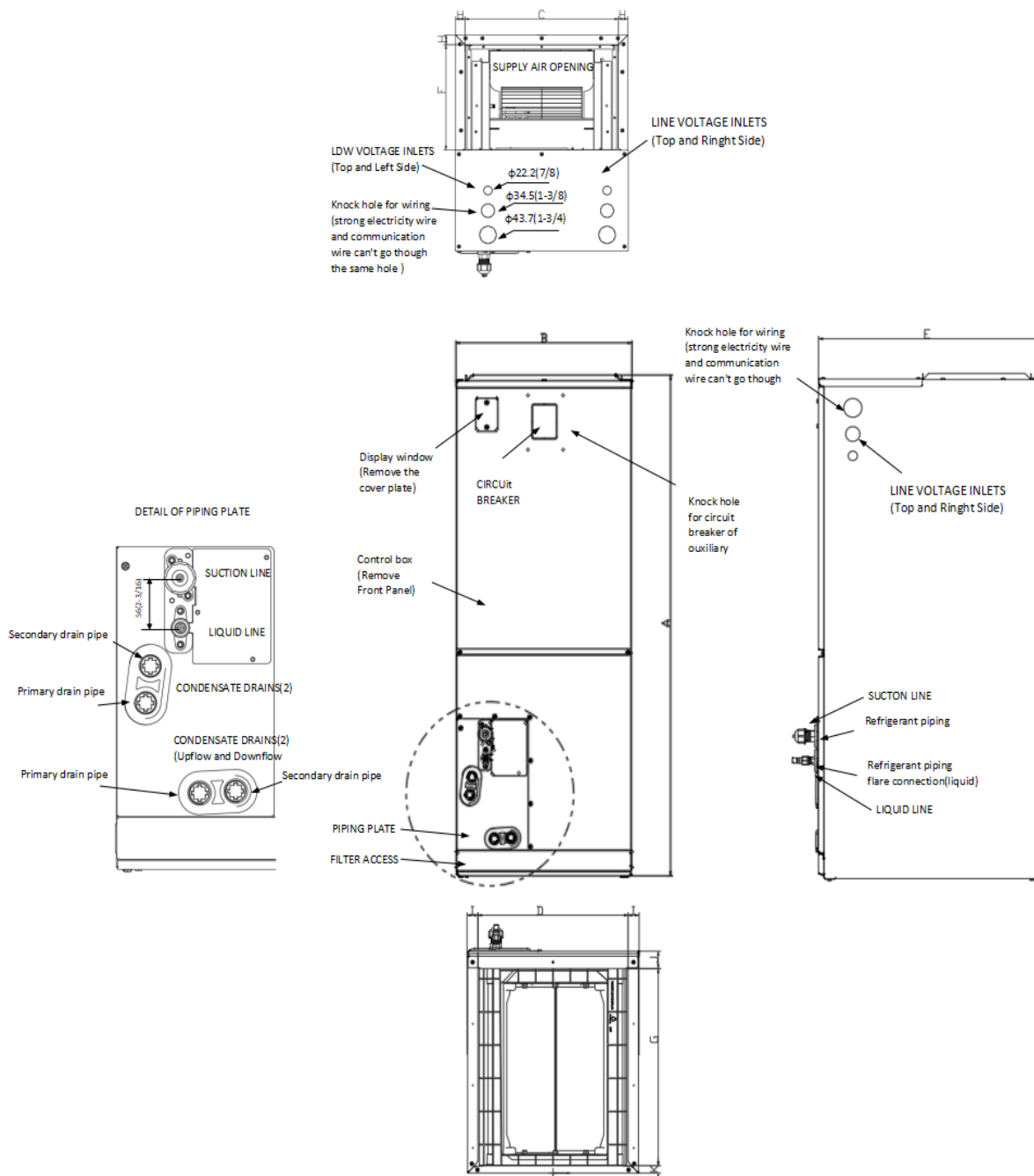
#### REFRIGERANT PIPING SPECIFICATIONS

|                                                      |       |           |
|------------------------------------------------------|-------|-----------|
| Refrigerant                                          | Type  | R32       |
| Refrigerant Charge Amount (Outdoor unit pre-charged) | oz    | 92        |
|                                                      | kg    | 2.6       |
| Additional Charge of Refrigerant                     | oz/ft | 0.52      |
|                                                      | g/m   | 48        |
| N.A. Design Pressure                                 | psi   | 609 / 174 |
|                                                      | in    | 3/8"      |
| Liquid Side                                          | mm    | 9.52      |
|                                                      | in    | 3/4"      |
| Gas Side                                             | mm    | 19        |
|                                                      | ft    | 164       |
| Max. Piping Length                                   | m     | 50        |
|                                                      | ft    | 82        |
| Max. Height Difference                               | m     | 25        |
|                                                      | ft    | 24.6      |
| Max. Pre-Charged Piping Length                       | m     | 7.5       |
|                                                      | ft    | 24.6      |
| Connection Method                                    | Type  | Flared    |

#### Features

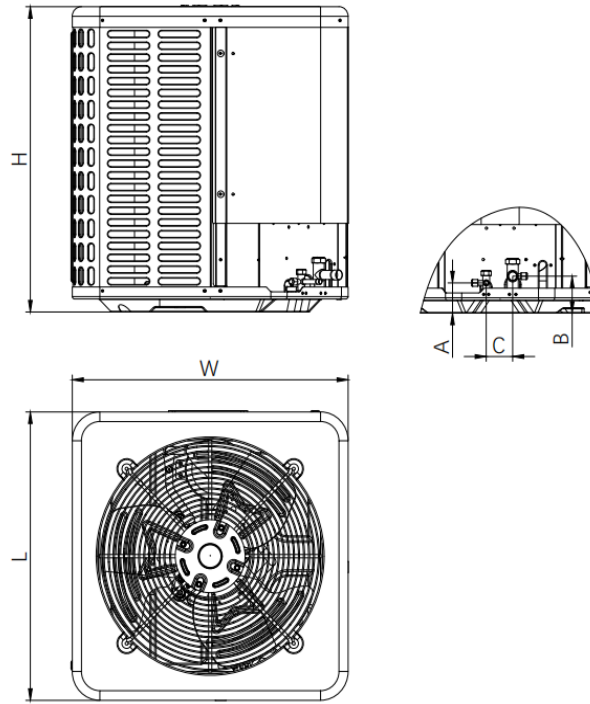
- Multi-position installation: horizontal (left or right), vertical (up or down)
- ECM fan motor with constant torque technology
- External static pressure up to 0.80 In.W.G
- 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency (optional)
- Optional Auxiliary heat kit up to 20kW
- Easy Maintenance
- Multiple control options available:
  - Wired controller with built-in WiFi
  - Third-Party 24V Thermostat
- Adaptive Control System

# Indoor Unit Dimensions



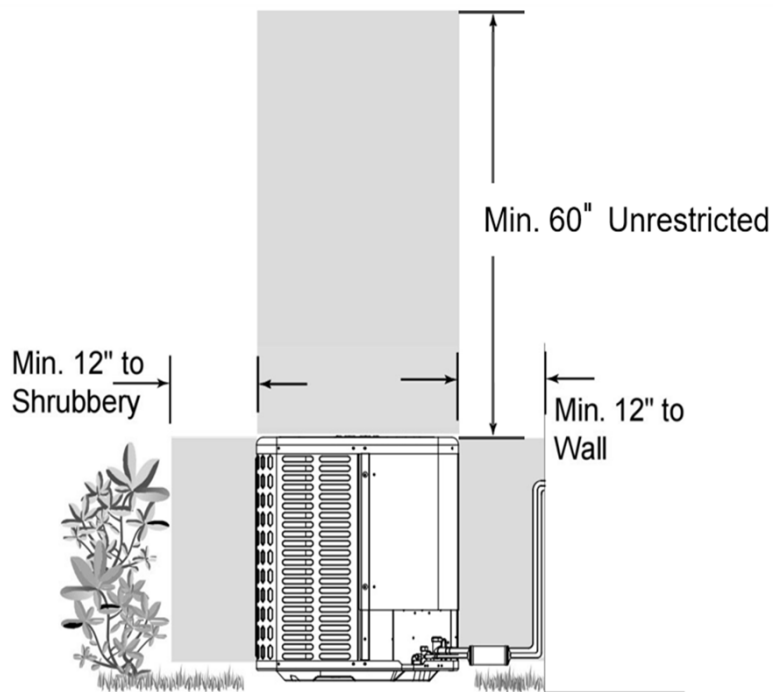
| Dimensions |                                    | Model |  | 18K/24K  |       | 30K/36K  |       | 48K/60K  |       |
|------------|------------------------------------|-------|--|----------|-------|----------|-------|----------|-------|
|            |                                    |       |  | inch     | mm    | inch     | mm    | inch     | mm    |
| A          | Model Height                       |       |  | 45-3/4   | 1162  | 49-49/64 | 1264  | 53-47/64 | 1365  |
| B          | Model width                        |       |  | 17-41/64 | 448   | 21-9/64  | 537   | 24-39/64 | 625   |
| C          | Supply Air Opening width           |       |  | 15-5/8   | 397   | 19-9/64  | 486   | 22-19/32 | 574   |
| D          | Return Air Opening Width           |       |  | 15-25/64 | 391   | 18-47/64 | 476   | 22-23/64 | 568   |
| E          | Model Depth                        |       |  | 21-7/64  | 536   | 21-7/64  | 536   | 21-7/64  | 536   |
| F          | Supply Air Opening Depth           |       |  | 10-9/32  | 261   | 10-9/32  | 261   | 10-9/32  | 261   |
| G          | Return Air Opening Depth           |       |  | 18-23/32 | 475.5 | 18-23/32 | 475.5 | 18-23/32 | 475.5 |
| H          | Supply Air Opening Clearance       |       |  | 15/16    | 24    | 15/16    | 24    | 15/16    | 24    |
| I          | Return Air Opening Side Clearance  |       |  | 1-1/8    | 28.5  | 1-1/8    | 28.5  | 1-1/8    | 28.5  |
| J          | Return Air Opening Front Clearance |       |  | 1-21/32  | 42    | 1-21/32  | 42    | 1-21/32  | 42    |
| K          | Return Air Opening Back Clearance  |       |  | 45/64    | 18    | 45/64    | 18    | 45/64    | 18    |

### Outdoor Unit Dimension



| Dimensions \ Model |                             | 18K/24K |     | 30K/36K |     | 42K/48K/60K |     |
|--------------------|-----------------------------|---------|-----|---------|-----|-------------|-----|
|                    |                             | inch    | mm  | inch    | mm  | inch        | mm  |
| W                  | Model width                 | 23-5/8  | 600 | 29-9/64 | 740 | 29-9/64     | 740 |
| L                  | Model length                | 23-5/8  | 600 | 29-9/64 | 740 | 29-9/64     | 740 |
| H                  | Model height                | 25      | 635 | 25      | 635 | 32-7/8      | 835 |
| A                  | Liquid side valve height    | 2-31/64 | 63  | 2-31/64 | 63  | 2-31/64     | 63  |
| B                  | Distance between two valves | 3-1/32  | 77  | 3-1/32  | 77  | 3-1/32      | 77  |
| C                  | Gas side valve height       | 2-9/32  | 58  | 2-9/32  | 58  | 2-9/32      | 58  |

### Outdoor Unit Installation Instructions & Clearance Requirements



# Indoor Unit Fan Performance

