



# Submittal Data Sheet

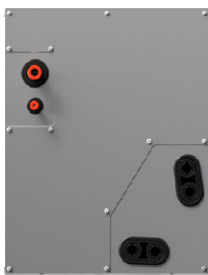
Indoor Unit Model#: ACiQ-48-ACL-B

Outdoor Unit Model#: ACiQ-54-AC-B

## 48K EVAPORATOR A-COIL & 54K AC-COOLING ONLY CONDENSER

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

System Product Code: 810175553726  
A-Coil Product Code: 810175552675  
Outdoor Unit Product Code: 810175553610



### EFFICIENCY RATINGS

| Cooling |      |
|---------|------|
| SEER2   | 14.3 |
| EER2    | 9.0  |

### COOLING PERFORMANCE

| Cooling (Btu/hr)                 |                                                     |
|----------------------------------|-----------------------------------------------------|
| Rated Capacity                   | 52000                                               |
| Min/Max Capacity                 | 17,600 ~ 52,000                                     |
| Moisture Removal (L/h)           | 6.31                                                |
| 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 |

### EVAPORATOR A-COIL SPECIFICATIONS

|                   |      |                       |
|-------------------|------|-----------------------|
| Dimension (W×D×H) | inch | 21.61 x 21.50 x 27.80 |
|                   | mm   | 549 x 546 x 706       |
| Package (W×D×H)   | inch | 31.69 x 25.59 x 26.57 |
|                   | mm   | 805 x 650 x 675       |
| Net/Gross Weight  | lbs  | 44 / 52               |
|                   | kg   | 43.9 / 52.2           |

### OUTDOOR UNIT SPECIFICATIONS

|                              |             |                       |
|------------------------------|-------------|-----------------------|
| Compressor Type              | ROTARY      |                       |
| Compressor Model             | KTQ420D1UMU |                       |
| Refrigerant                  | R454B       |                       |
| Refrigerant Oil Charge (mL)  | 1400        |                       |
| Refrigerant Oil              | VG74        |                       |
| Outdoor Air Flow (Max) (CFM) | 3,037       |                       |
| Outdoor Noise Level (dBA)    | 65          |                       |
| Dimension (W×D×H)            | inch        | 38.58 x 16.34 x 38.39 |
|                              | mm          | 980 x 415 x 975       |
| Package (W×D×H)              | inch        | 45.08 x 19.68 x 42.52 |
|                              | mm          | 1,145 x 500 x 1,080   |
| Net/Gross Weight             | lbs         | 187.17 / 218.48       |
|                              | kg          | 84.9 / 99.1           |

### ELECTRICAL SPECIFICATIONS

|                                  |                                       |
|----------------------------------|---------------------------------------|
| Indoor Power Supply              | 24V, 60Hz, 1Ph                        |
| Outdoor Power Supply             | 208/230V, 60Hz, 1Ph                   |
| Outdoor MCA                      | 36                                    |
| Outdoor MOP                      | 40                                    |
| Communication Wiring             | AWG 20-2                              |
| Compressor RLA                   | 27                                    |
| Outdoor Fan Motor RLA            | 2                                     |
| System Power Input @ Cooling (W) | 5778 (1,510 ~ 5,800)                  |
| MCA: Min. circuit amps (A)       | MOCP: Max. overcurrent protection (A) |
| RLA: Rated load amps (A)         | W: Fan motor rated output (W)         |

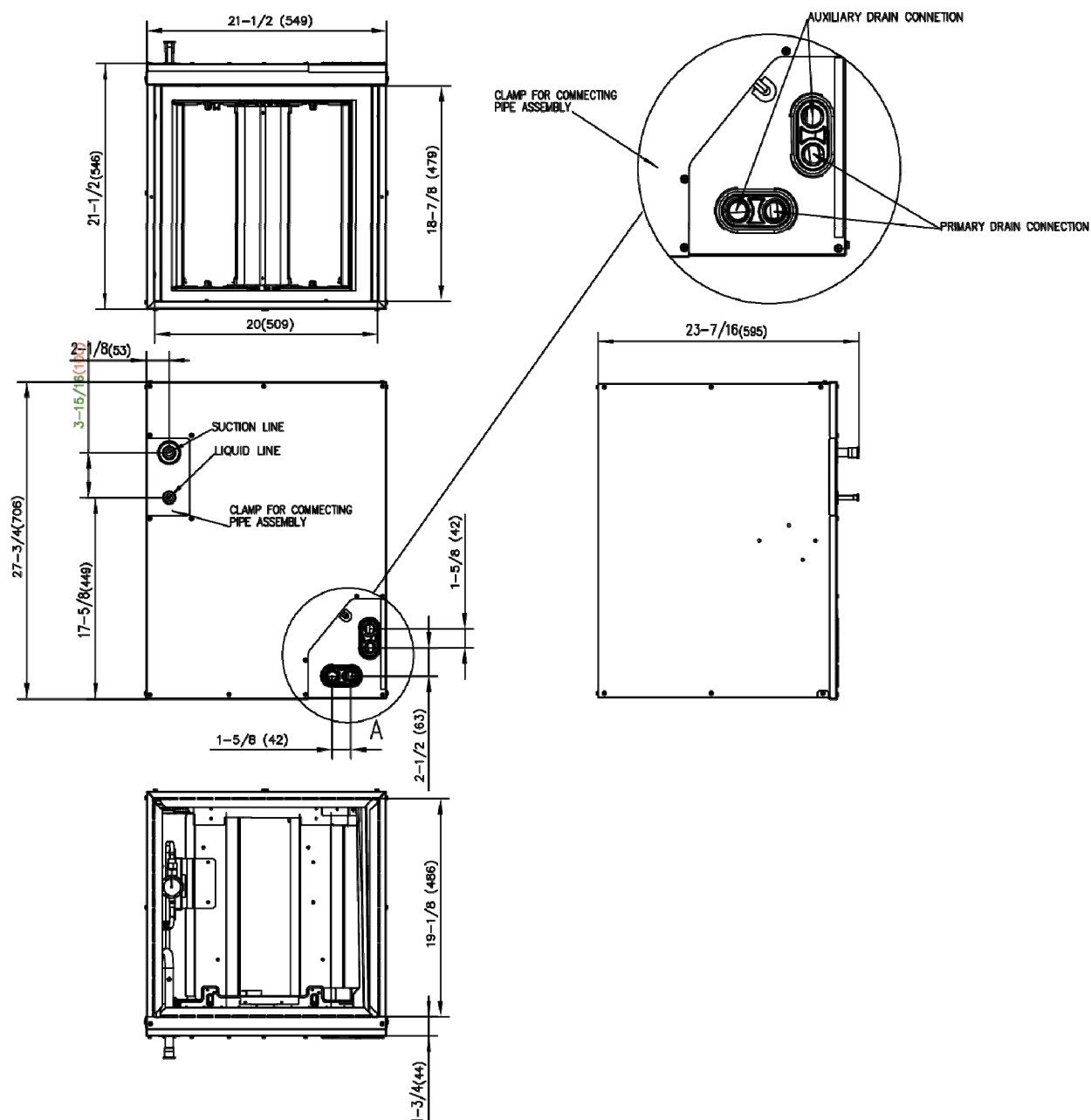
### REFRIGERANT PIPING SPECIFICATIONS

|                                                  |                |
|--------------------------------------------------|----------------|
| Throttle type (Indoor)                           | TXV            |
| Liquid Size                                      | 9.52mm (3/8in) |
| Gas Size                                         | 19mm (3/4in)   |
| Max. Piping Length (ft/m)                        | 246 (75)       |
| Max. Height Difference (ft/m)                    | 98 (30)        |
| Max. Pre-charged Length (ft/m)                   | 24.6 (7.5)     |
| Refrigerant Pre-charged Amount (oz/kg)           | 141.10 (4.00)  |
| Additional Charge of Refrigerant ((oz/ft)/(g/m)) | 0.7 (65)       |
| Connection Method                                | Flared         |

### FEATURES

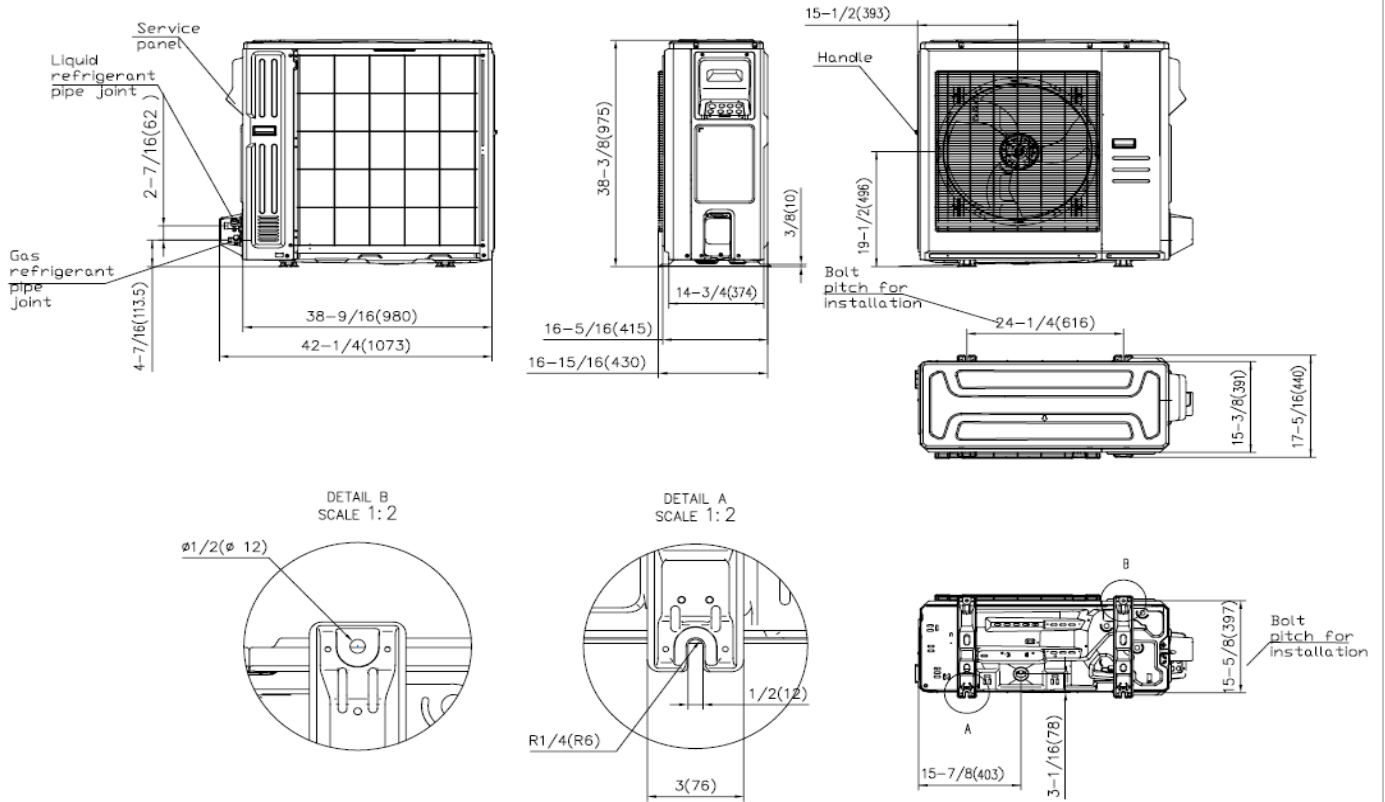
- Multi-position installation: horizontal (left or right), vertical (up or down)
- Aluminum Coil
- R454B refrigerant sensor
- Easy Maintenance
- Multiple control options available:
  - Two way communication wired controller with built-in WiFi:120N(X6W)
  - Third-Party 24V Thermostat

# INDOOR UNIT DIMENSIONS

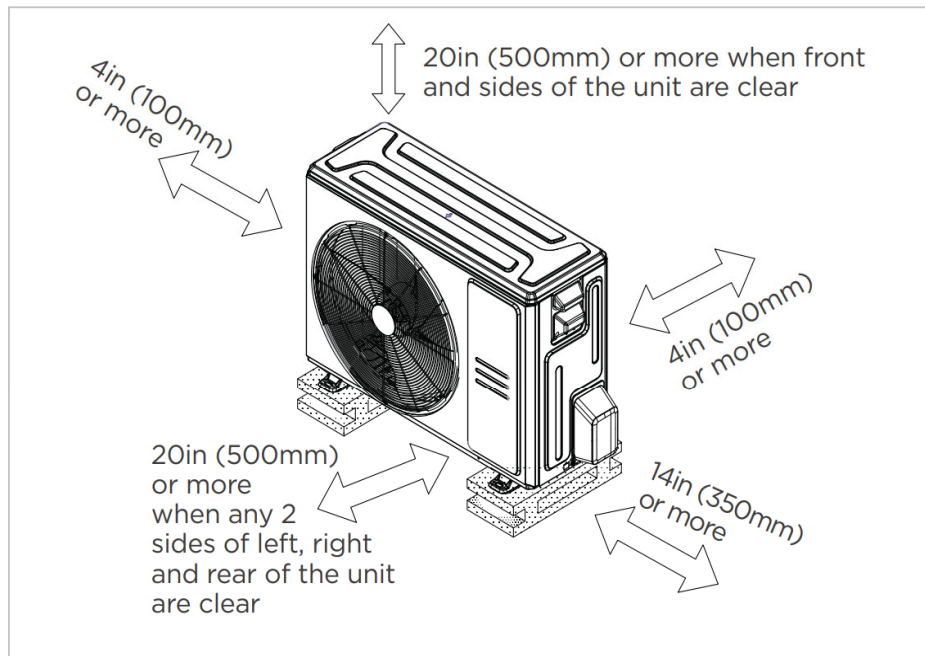


| Model | Dimensions               | ACiQ-24-ACL-B     | ACiQ-24-ACL-14-B  | ACiQ-36-ACL-B     | ACiQ-36-ACL-17-B  | ACiQ-48-ACL-B     | ACiQ-60-ACL-B     |
|-------|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|       |                          | inch (millimeter) | inch (millimeter) | inch (millimeter) | inch (millimeter) | inch (millimeter) | inch (millimeter) |
| A     | Unit Height              | 18 (457)          | 18 (457)          | 24 (611)          | 23-9/16 (599)     | 27-3/4 (706)      | 28 (711)          |
| B     | Unit Width               | 17-1/2 (445)      | 14-1/2 (368)      | 21 (534)          | 17-1/2 (445)      | 21-5/8 (549)      | 24-1/2 (622)      |
| C     | Supply Air Opening Width | 16-3/16 (411)     | 13-1/4 (336)      | 19-3/4 (502)      | 16-3/16 (411)     | 21-1/4 (514)      | 23-1/4 (591)      |
| D     | Return Air Opening Width | 14-15/16 (380)    | 11-15/16 (303)    | 19-1/2 (498)      | 14-15/16 (380)    | 20 (509)          | 23-1/8 (587)      |
| E     | Condensate Drain Height  | 1-7/16 (38)       | 1-7/16 (38)       | 2-3/16 (55)       | 1-7/16 (38)       | 2-1/8 (50)        | 2-3/16 (55)       |
| F     | Liquid Line Height       | 11-3/8 (290)      | 11-3/8 (290)      | 17-1/2 (445)      | 16-3/8 (417)      | 17-5/8 (449)      | 21-7/16 (545)     |

## OUTDOOR UNIT DIMENSIONS



## INSTALLATION INSTRUCTIONS FOR OUTDOOR UNIT



Meets all spatial requirements shown in Installation Clearance Requirements above.