

Submittal Data Sheet

Indoor Unit Model#: ACiQ-60TD-AH32

Outdoor Unit Model#: ACiQ-60TD-HP32

60K (230V) R32 Top Discharge Air Handler & Condenser

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



SYSTEM PERFORMANCE

Cooling Performance

| | | |
|---------------------------------------|---------|---------------|
| Rated Cooling Capacity at 95°F (35°C) | Btu/h | 54000 |
| Rated Cooling Capacity Range | Btu/h | 15000 ~ 55000 |
| SEER2 at 95°F (35°C) | Btu/W.h | 14.3 |
| EER2 at 95°F (35°C) | Btu/W.h | 8.0 |

Heating Performance

| | | |
|---|---------|---------------|
| Rated Heating Capacity at 47°F (8.3°C) | Btu/h | 54000 |
| Rated Heating Capacity at 17°F (-8.3°C) | Btu/h | 42000 |
| Rated Heating Capacity Range | Btu/h | 15000 ~ 55000 |
| HSPF2-Region IV | Btu/W.h | 8.1 |
| HSPF2-Region V | Btu/W.h | 7.0 |
| COP2 at 47°F (8.3°C) | W/W | 3.0 |
| COP2 at 5°F (-15°C) | W/W | 1.8 |

AMBIENT OPERATING TEMPERATURE RANGE

| | | |
|-------------------------------------|----|--------------|
| Cooling Operating Temperature Range | °F | 5°F ~ 125°F |
| | °C | -15°C ~ 52°C |
| Heating Operating Temperature Range | °F | -4°F ~ 80°F |
| | °C | -20°C ~ 27°C |

ELECTRICAL SPECIFICATIONS

| | | |
|---|-----------|-----------------------|
| Power Supply | V, Ph, Hz | 208/230V, 1 Ph, 60 Hz |
| Min/Max Volts | V | 187 / 253 |
| ODU Minimum Circuit Ampacity (MCA) | A | 35 |
| ODU Max. Overcurrent Protection (Max Fuse or Breaker) | A | 60 |

INDOOR UNIT SPECIFICATIONS

| | | |
|-----------------------------------|--------|-------------------------------|
| ESP (Up to) | in. WC | 0.8 |
| Indoor Fan Airflow | CFM | 1560 |
| Sound Pressure Rating | dB(A) | 60 |
| Moisture Removal/Dehumidification | kg/h | 6.1 |
| Fan Motor Type | - - | AC |
| Fan Motor Power | hp | 1/2 |
| Fan Material | - - | Metal |
| Fan Type | - - | Centrifugal |
| Fan Diameter | in | 15-1/8" |
| Fan Width | in | 13-1/4" |
| Unit Dimensions (W×D×H) | in | 24-1/2" x 56" x 21" |
| | mm | 622 x 1422 x 533 |
| Packing Dimensions (W×D×H) | inch | 29-5/16" x 62-9/16" x 26-1/4" |
| | mm | 745 x 1589 x 667 |
| Net Weight | lbs | 157.6 |
| | kg | 71.5 |
| Gross Weight | lbs | 198.4 |
| | kg | 90.0 |

OUTDOOR UNIT SPECIFICATIONS

| | | |
|-----------------------------------|-----|------------------------------|
| Outdoor Sound Pressure Rating | dB | 69 |
| Throttle Type | - - | EEV |
| Compressor Type | - - | Variable Rotary |
| Compressor Input | W | 3540 |
| Compressor Rated Current (RLA) | A | 12.2 |
| Compressor Locked Rotor Amp (LRA) | A | 26 |
| Compressor Refrigerant Oil Volume | ml | 1050 |
| Fan Motor Type | - - | DC |
| Fan Motor Power | hp | 1/4 |
| Fan Motor Rated RPM | rpm | 1050 |
| Fan Motor Full Load Amps (FLA) | A | 1.1 |
| Unit Dimensions (W×D×H) | in | 29-1/8" x 33-3/16" x 29-1/8" |
| | mm | 740 x 843 x 740 |
| Packing Dimensions (W×D×H) | in | 30-1/4" x 39-1/2" x 30 1/4" |
| | mm | 767 x 1003 x 767 |
| Net Weight | lbs | 183.0 |
| | kg | 83.0 |
| Gross Weight | lbs | 216.1 |
| | kg | 98.0 |

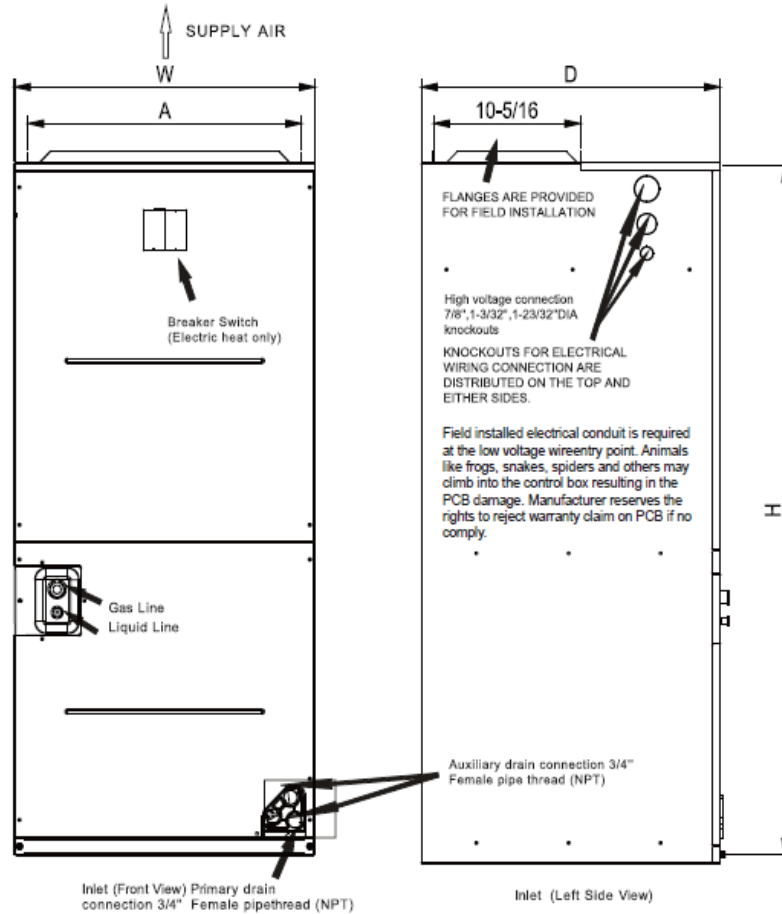
REFRIGERANT PIPING SPECIFICATIONS

| | | |
|--|-------|------------------------------|
| Refrigerant | Type | R32 |
| Refrigerant Charge Amount (Outdoor unit pre-charged) | oz | 123.5 |
| | g | 3500 |
| Additional Charge of Refrigerant | oz/ft | 0.38 |
| | g/m | 35.34 |
| Max. Allowable Pressure | Mpa | 4.3 |
| Connection Valve Size - Liquid/Gas (Indoor & Outdoor Unit) | in | 0.375 (3/8") / 0.75 (3/4")* |
| | mm | 9.53 / 19.05 |
| Refrigerant Piping Size - Liquid/Gas (Indoor & Outdoor Unit) | in | 0.375 (3/8") / 0.875 (7/8")* |
| | mm | 9.53 / 22.23 |
| Min./Max. Piping Length | ft | 15 / 164 |
| | m | 4.6 / 50 |
| Max. Height Difference | ft | 82 |
| | m | 25 |
| Connection Method | Type | Flare to Braze |

* Adaptor fitting is used to increase refrigerant piping connection point of valve from 3/4" to 7/8".

Indoor Unit Dimensions

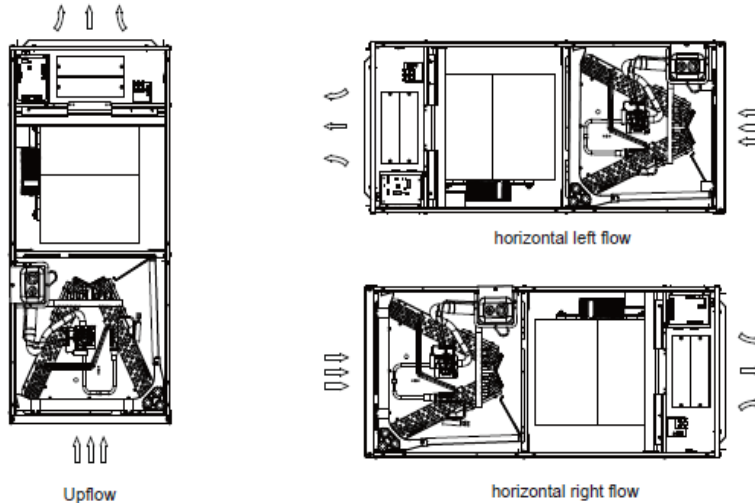
NOTE: 25" CLEARANCE IS REQUIRED IN THE FRONT OF THE UNIT FOR FILTER AND COIL MAINTENANCE



| Model | Dimensions (in.) | | | | | |
|------------|------------------|--------|----|--------|------------------------|---------------------|
| | H | W | D | A | Liquid Line Connection | Gas Line Connection |
| 24K 36K | 46-1/2 | 21 | 21 | 19-1/4 | 3/8 | 3/4 |
| 48K 54K | 56 | 24-1/2 | 21 | 22-3/4 | 3/8 | 7/8 |

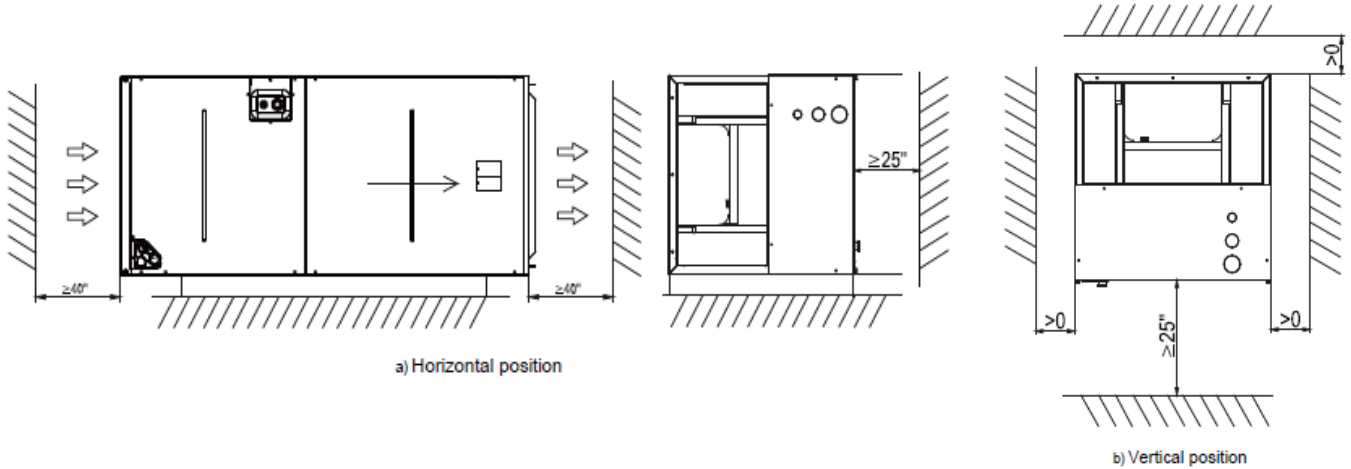
Indoor Unit Installation Options

The unit may be installed in one of the upflow, downflow, horizontal left or horizontal right orientations.

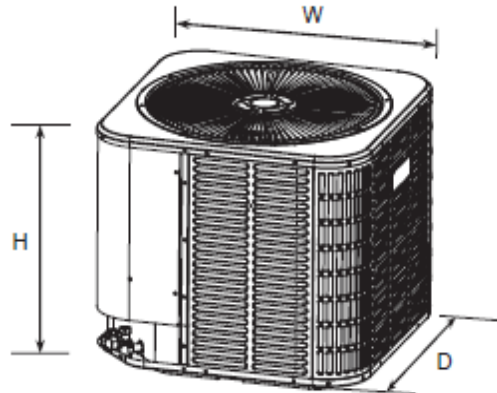


NOTE: For a downward air outlet installation, you need to purchase after-sales parts from the dealer and have a professional install them.

Indoor Unit Installation Clearance Requirements



Outdoor Unit Dimension



| Model | H×W×D (Inches) |
|-------|------------------------|
| 24K | 24-15/16×29-1/8×29-1/8 |
| 36K | 24-15/16×29-1/8×29-1/8 |
| 48K | 33-3/16×29-1/8×29-1/8 |
| 54K | 33-3/16×29-1/8×29-1/8 |

Outdoor Unit Installation Instructions & Clearance Requirements

Avoid to install near bedrooms

Position unit as water, snow, or ice from roof or overhang cannot fall directly on unit.

