

Submittal Data: ACiQ-36Z-HH-M4

| | | |
|------------------|--------------|--|
| Job Name | Location | Date |
| Purchaser | Engineer | |
| Submitted To | For | <input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction |
| Unit Designation | Schedule No. | |

General Features

- Intelligently high efficiency design
- Stealth and compact with quiet operation
- Supports up to 4 connected air handlers
- Durable and reliable engineering
- Golden Fin condenser coating
- Heating and cooling down to -22°F
- 5 year parts and 10 year limited compressor warranty with online registration



AHRI Certificate Reference No. 206315655

System Performance Ratings

Cooling

| | | |
|---------------|-------|-------------|
| Capacity | Btu/h | 36000 |
| Input | W | 2666.666667 |
| Rated current | A | 11.6 |
| EER | Btu/w | 13.5 |
| SEER | Btu/w | 21.5 |

Heating

| | | |
|---------------|-------|-------|
| Capacity | Btu/h | 36000 |
| Input | W | 2777 |
| Rated current | A | 12.1 |
| COP | W/W | 3.8 |
| HSPF4 | | 10.5 |
| HSPF5 | | 8.5 |

Refrigerant Piping Data

| | | |
|--|----------|--|
| Design pressure | PSIG | 550/340 |
| Refrigerant type | oz | R410A/162.3 |
| Refrigerant precharge | ft | 98 |
| Additional charge per ft. | oz | 0.16 for 1/4" liquid pipe 0.32 for 3/8" liquid pipe |
| Liquid side/ Gas side | mm(inch) | 4 x Ø6.35/3x Ø9.52+1xØ12.7(4x1/4"/3x3/8"+1x1/2") |
| Max. length for all rooms | ft | 262 |
| Max. length for one indoor unit | ft | 115 |
| Max. height difference between indoor and outdoor unit | ft | 49 |
| Max. height difference between indoor units | ft | 33 |

Outdoor Unit Data

Compressor

| | | |
|----------------------------|-------|-------------|
| Model | | ATQ360D1UMU |
| Type | | Twin-ROTARY |
| Brand | | GMCC |
| Capacity | Btu/h | 38214 |
| Input | W | 3040 |
| Rated current(RLA) | A | 21 |
| Locked rotor Amp(LRA) | A | --- |
| Thermal protector | | --- |
| Thermal protector position | | --- |
| Refrigerant oil/oil charge | ml | VG74/1400 |

Outdoor fan motor

| | | |
|-------|-------|----------------|
| Model | | ZKFN-85-8-22-2 |
| Type | | DC |
| Input | | 126.0 |
| RLA | A | 1.178 |
| Speed | r/min | 800/700/600 |

Air flow & Noise level

| | | |
|---------------------|-------|---------|
| Outdoor air flow | CFM | 4500.00 |
| Outdoor noise level | dB(A) | 64 |

Indoor Unit Data

| | |
|---|------------|
| Max Air Handlers | 4 |
| Max BTU on a Single Air Handler | 24,000 BTU |
| Max BTU Across All Air Handlers (unrated) | 63,000 BTU |

Electrical Data

| | | |
|--------------------------|---------|----------------------|
| Power supply | Ph-V-Hz | 208-230V~ 60Hz , 1Ph |
| MINIMUM CIRCUIT AMPACITY | A | 35.0 |
| MAX. FUSE | A | 50.0 |
| Connection wiring | | 16*4 AWG |

EXTENDED RATINGS

COOLING PERFORMANCE (BtuH)*

| Indoor | | | -22F (-30C) | -5F (-20.6C) | 5F (-15C) | 15F (-9.4C) | 35F (1.7C) | 45F (7.2C) | 75F (23.9C) | 95F (35C) | 122F (50C) |
|----------------|-----|----|----------------|-----------------|--------------|----------------|---------------|---------------|----------------|--------------|---------------|
| DB | WB | | | | | | | | | | |
| 65F (18.3C) | 54F | TC | 38.35 | 37.97 | 37.41 | 37.22 | 36.85 | 35.62 | 31.80 | 29.85 | 24.84 |
| | | SC | 24.65 | 25.93 | 27.99 | 28.72 | 30.22 | 29.57 | 27.98 | 25.30 | 23.84 |
| 70F (21.1C) | 59F | TC | 42.18 | 41.77 | 41.15 | 40.94 | 40.53 | 38.49 | 34.53 | 31.53 | 27.02 |
| | | SC | 24.80 | 26.09 | 28.16 | 28.89 | 30.40 | 29.25 | 27.28 | 26.17 | 24.32 |
| 75F (23.9C) | 63F | TC | 46.30 | 45.84 | 45.16 | 44.94 | 44.49 | 41.08 | 36.85 | 33.57 | 28.93 |
| | | SC | 26.13 | 27.49 | 29.68 | 30.44 | 32.03 | 29.99 | 28.37 | 26.86 | 25.17 |
| 80F (26.7C) | 67F | TC | 47.73 | 47.25 | 46.55 | 46.32 | 45.86 | 43.81 | 39.31 | 36.03 | 31.12 |
| | | SC | 25.81 | 27.16 | 29.32 | 30.07 | 31.64 | 30.67 | 29.09 | 28.10 | 26.45 |

HEATING PERFORMANCE (BtuH)*

| Indoor DB | | | -22F (-30C) | -5F (-20.6C) | 5F (-15C) | 17F (-8.3C) | 24.8F (-4C) | 32F (0C) | 44.6F (7C) | 53.6F (12C) | 57F (13.9C) |
|----------------|--|-------|----------------|-----------------|--------------|----------------|----------------|-------------|---------------|----------------|----------------|
| 60F (15.6C) | | TC | 19.258 | 28.64 | 36.60 | 38.28 | 39.35 | 40.36 | 48.183 | 53.944 | 55.563 |
| | | Input | 3.203 | 3.549 | 3.93 | 3.92 | 3.89 | 3.87 | 4.276 | 4.546 | 4.592 |
| 65F (18.3C) | | TC | 18.88 | 28.079 | 35.88 | 37.53 | 38.58 | 39.57 | 47.239 | 52.887 | 54.473 |
| | | Input | 3.203 | 3.549 | 3.93 | 3.93 | 3.94 | 3.94 | 4.363 | 4.639 | 4.685 |
| 70F (21.1C) | | TC | 18.51 | 27.528 | 35.18 | 36.79 | 37.83 | 38.79 | 46.312 | 51.85 | 53.405 |
| | | Input | 3.59 | 3.978 | 4.41 | 4.32 | 4.15 | 4.06 | 4.408 | 4.686 | 4.733 |
| 75F (23.9C) | | TC | 18.139 | 26.977 | 34.47 | 36.05 | 37.07 | 38.01 | 45.386 | 50.813 | 52.337 |
| | | Input | 3.203 | 3.549 | 3.93 | 3.96 | 4.01 | 4.03 | 4.496 | 4.78 | 4.827 |

* Maximum system capacity

DB - Dry Bulb

WB - Wet Bulb

put - Total Power (kW)

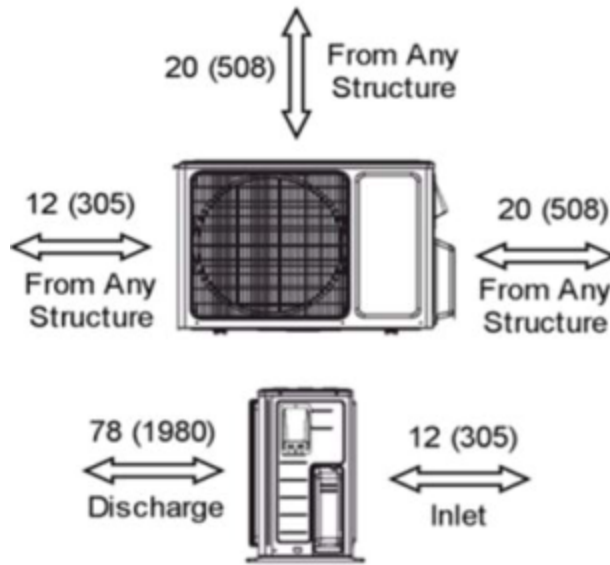
TC - Total Net Capacity (1,000 BTU/hour)

SC - Sensible Capacity (1,000 BTU/hour) In-

COP - W/W

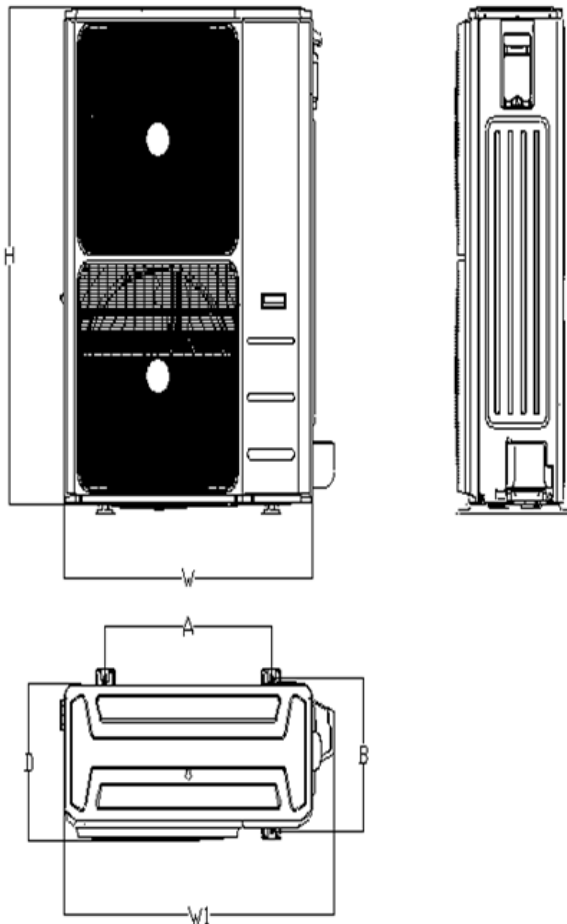
MINIMUM SPACING REQUIREMENTS

Units: inch (mm)



OUTDOOR UNIT DIMENSIONS

Units: inch



| Dimensions | |
|------------|-------|
| A | 25.00 |
| B | 15.90 |
| W | 37.50 |
| D | 16.30 |
| H | 52.50 |
| W1 | 41.10 |

Weight (Net/Gross) 223.77/255.07 lbs

| | |
|-------------------|--------------------|
| Liquid Line Valve | 4 x 1/4" |
| Gas Line Valve | 3 x 3/8"; 1 x 1/2" |