

Submittal Data: ACiQ-48Z-HH-M5

Job Name _____ Location _____ Date _____

Purchaser _____ Engineer _____

Submitted To _____ For Reference Approval Construction

Unit Designation _____ Schedule No. _____

- General Features**
- Intelligently high efficiency design
 - Stealth and compact with quiet operation
 - Supports up to 5 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



System Performance Ratings

Cooling		
Capacity	Btu/h	48000(19300~51000)
Input	W	4150
Rated current	A	18.0
EER	Btu/w	11.6
SEER	Btu/w	21.5
Heating at 47°F		
Capacity	Btu/h	49000(11500~60000)
Input	W	4000
Rated current	A	17.8
COP	W/W	3.59
HSPF4		10.3
HSPF5		8.6

Refrigerant Piping Data

Design pressure	PSIG	550/340
Refrigerant type	oz	R410A/162
Refrigerant precharge	ft	125
Additional charge per ft.	oz	0.161 for 1/4" liquid pipe 0.322 for 3/8" liquid pipe
Liquid side/ Gas side	mm(inch)	5 x Ø6.35/ 3xØ3.52+2xØ12.7(5x1/4"/3x3/8"+2x1/2")
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		EAPQ420D1UMUA
Type		ROTARY
Brand		GMCC
Capacity	Btu/h	44015
Input	W	3565
RLA (COMPRESSOR LOAD)	A	---
Locked rotor Amp(LRA)	A	---
Thermal protector		INT01L-4639
Thermal protector position		EXTERNAL
Refrigerant oil/oil charge	ml	1460±15ml ESTER OIL VG74

Outdoor fan motor

Model		ZKFN-85-8-22-5
Type		DC
QTY		2
Input	A	126
Output	A	85
RLA (Outdoor fan motor load)	A	---
Speed	r/min	800/700/600

Air flow & Noise level

Outdoor air flow	CFM	4500
Outdoor noise level	dB(A)	64

Indoor Unit Data

Max Air Handlers	5
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	37.43	44.06	50.36	50.88	53.84	55.20	55.96	44.91	28.95
		SC	26.20	30.86	36.89	38.37	39.44	38.23	44.96	36.70	28.69
70F (21.1C)	59F	TC	39.24	46.20	52.24	53.34	55.85	57.26	58.05	46.84	29.87
		SC	26.68	31.87	37.70	39.63	42.68	44.61	42.15	39.82	29.57
75F (23.9C)	63F	TC	40.92	48.44	54.77	55.63	58.55	59.40	60.22	48.59	30.99
		SC	27.01	32.92	38.95	40.72	44.08	45.59	48.49	38.46	30.65
80F (26.7C)	67F	TC	43.10	51.29	58.00	59.22	61.67	62.90	63.77	51.45	32.82
		SC	25.61	33.01	40.47	41.05	43.97	45.71	48.62	40.81	32.42

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	29.58	46.39	52.47	53.32	55.99	58.52	62.47	63.55	64.12
		Input	6.37	6.14	6.53	6.41	5.92	5.56	5.10	4.87	4.83
65F (18.3C)		TC	29.06	45.26	51.19	51.97	54.47	57.10	60.77	62.61	63.36
		Input	6.44	6.29	6.67	6.54	6.05	5.68	5.20	4.98	4.92
70F (21.1C)		TC	28.77	44.41	49.94	50.55	53.14	55.54	59.75	61.74	62.67
		Input	6.50	6.42	6.81	6.68	6.18	5.81	5.32	5.09	5.02
75F (23.9C)		TC	27.85	43.08	48.54	49.19	51.60	53.93	57.96	59.95	60.73
		Input	6.67	6.59	6.98	6.86	6.35	5.96	5.46	5.22	5.15

* Maximum system capacity

DB - Dry Bulb

WB - Wet Bulb

Input - Total Power (kW)

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

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

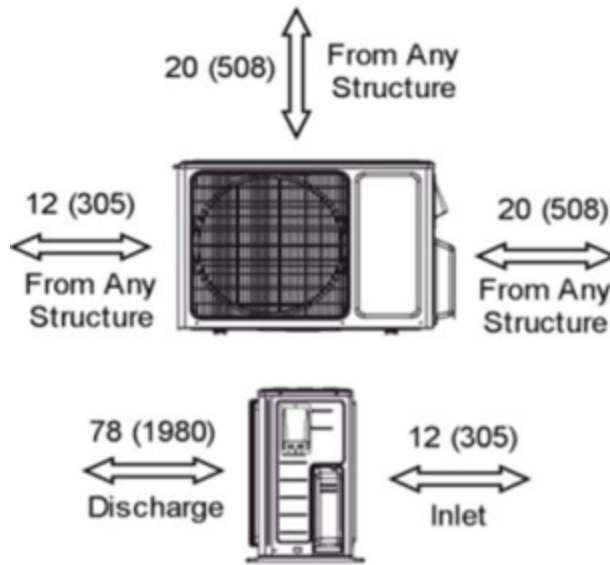
COP - W/W

DIMENSIONAL SPECIFICATIONS

ACiQ-48Z-HH-M5

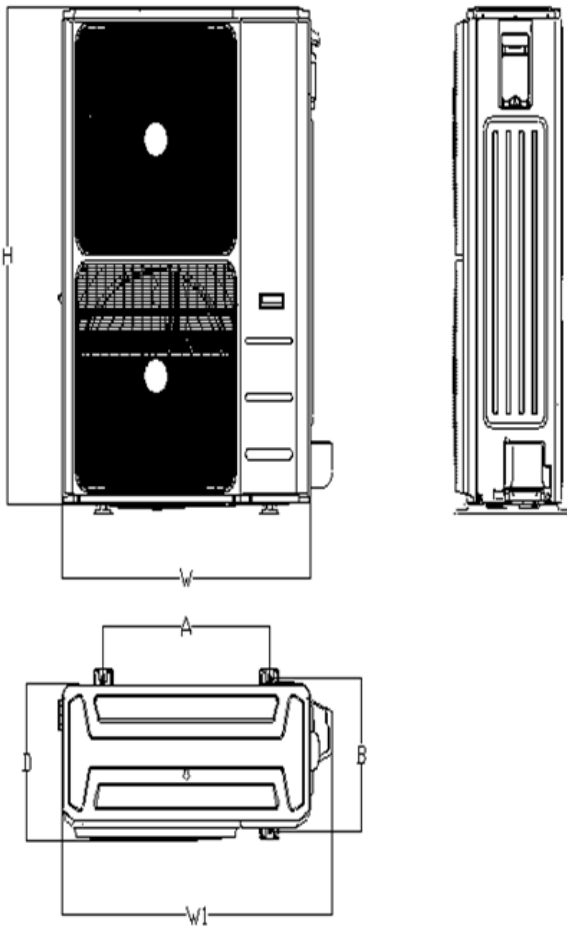
MINIMUM SPACING REQUIREMENTS

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) 238.32/269.84 lbs

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