

Submittal Data: ACiQ-27Z-HH-M3

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 3 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. 206315654

System Performance Ratings

Cooling

Capacity	Btu/h	28000
Input	W	2154
Rated current	A	9.4
EER	Btu/w	13
SEER	Btu/w	22

Heating

Capacity	Btu/h	28000
Input	W	2345
Rated current	A	10.2
COP	W/W	3.5
HSPF4		10.4
HSPF5		9

Refrigerant Piping Data

Design pressure	PSIG	550/340
Refrigerant type	oz	R410A/105.8
Refrigerant precharge	ft	74
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)	3 X Ø6.35/Ø9.52(1/4"/3/8")
Max. length for all rooms	ft	197
Max. length for one indoor unit	ft	98
Max. height difference between indoor and outdoor unit	ft	49
Max. height difference between indoor units	ft	33

Outdoor Unit Data

Compressor

Model		ATF310D43UMT
Type		ROTARY
Brand		GMCC
Capacity	Btu/h	32380
Input	W	2600
Rated current(RLA)	A	22
Locked rotor Amp(LRA)	A	---
Thermal protector		---
Thermal protector position		---
Refrigerant oil/oil charge	ml	VG74/1000

Outdoor fan motor

Model		ZKFN-120-8-2
Type		DC
Input		150.0
RLA	A	1.39
Speed	r/min	900/750/600

Air flow & Noise level

Outdoor air flow	CFM	2147.06
Outdoor noise level	dB(A)	62.3

Indoor Unit Data

Max Air Handlers	3
Max BTU on a Single Air Handler	18,000 BTU
Max BTU Across All Air Handlers (unrated)	36,000 BTU

Electrical Data

Power supply	Ph-V-Hz	208-230V~60Hz, 1Ph
MINIMUM CIRCUIT AMPACITY	A	30.0
MAX. FUSE	A	45.0
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	29.08	28.79	28.37	28.22	27.94	27.13	25.26	22.11	19.14
		SC	18.69	19.67	21.23	21.78	22.91	22.51	21.11	20.12	18.38
70F (21.1C)	59F	TC	31.43	31.11	30.65	30.50	30.20	29.17	27.20	23.95	20.68
		SC	18.23	19.18	20.70	21.24	22.35	21.88	20.70	19.64	18.40
75F (23.9C)	63F	TC	33.88	33.54	33.04	32.88	32.55	31.12	27.94	25.59	22.11
		SC	19.12	20.11	21.71	22.27	23.44	22.72	21.24	20.47	19.01
80F (26.7C)	67F	TC	37.07	36.70	36.16	35.98	35.62	33.16	29.79	27.33	23.65
		SC	20.05	21.10	22.77	23.36	24.58	23.22	22.04	21.04	19.63

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	14.43	21.46	27.42	28.68	29.49	30.24	36.104	40.421	41.633
		Input	3.203	3.549	3.93	3.72	3.30	3.10	3.198	3.4	3.434
65F (18.3C)		TC	14.147	21.039	26.88	28.12	28.91	29.65	35.396	39.628	40.817
		Input	3.203	3.549	3.93	3.74	3.34	3.14	3.263	3.469	3.504
70F (21.1C)		TC	13.869	20.627	26.36	27.57	28.34	29.07	34.702	38.851	40.017
		Input	3.203	3.549	3.93	3.74	3.36	3.17	3.296	3.504	3.539
75F (23.9C)		TC	13.592	20.214	25.83	27.02	27.78	28.48	34.008	38.074	39.216
		Input	3.203	3.549	3.93	3.75	3.39	3.21	3.362	3.574	3.61

* Maximum system capacity

DB - Dry Bulb

WB - Wet Bulb

put - Total Power (kW)

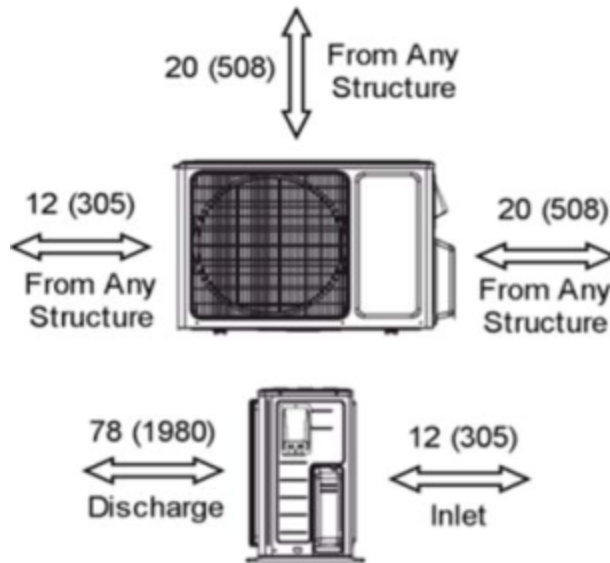
TC - Total Net Capacity (1,000 BTU/hour)

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

COP - W/W

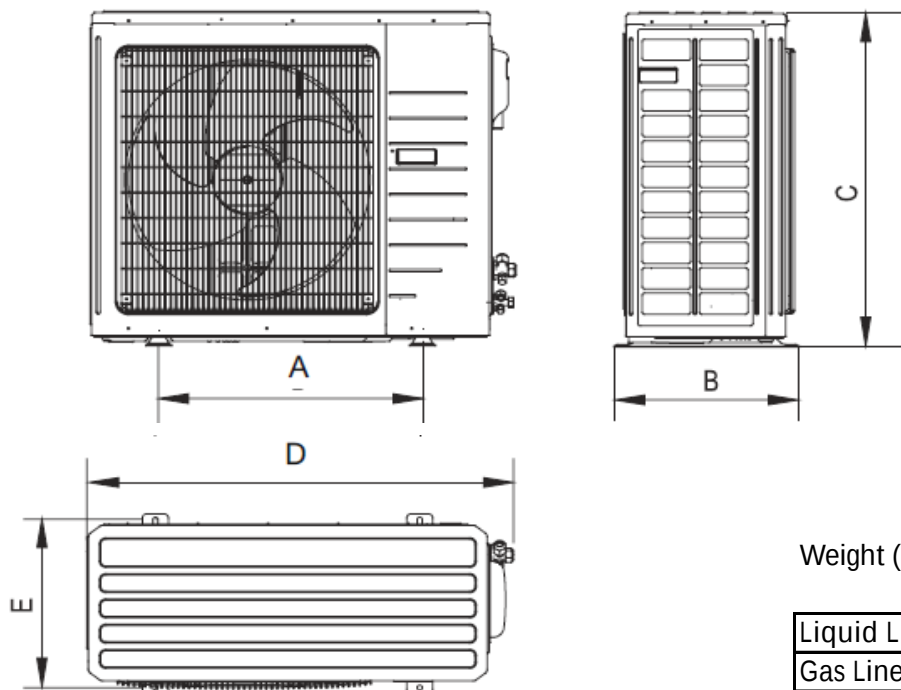
MINIMUM SPACING REQUIREMENTS

Units: inch (mm)



OUTDOOR UNIT DIMENSIONS

Units: inch



Dimensions	
A	26.50
B	15.90
C	31.89
D	37.24
E	16.54

Weight (Net/Gross) 156.53/167.55 lbs

Liquid Line Valve	3 x 1/4" Flared
Gas Line Valve	3 x 3/8" Flared