

Submittal Data: ACiQ-18Z-HH-M2

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 2 connected air handlers
 - Durable and reliable engineering
 - Golden Fin condenser coating
 - Heating and cooling down to -22°F
 - 5 year parts and 12 year limited compressor warranty with online registration



AHRI Certificate Reference No. 206315653

System Performance Ratings

Cooling		
Capacity	Btu/h	19000
Input	W	1520
Rated current	A	6.6
EER	Btu/w	12.5
SEER	Btu/w	21.5
Heating		
Capacity	Btu/h	20000
Input	W	1724
Rated current	A	7.5
COP	WW	3.4
HSPF4		9.8
HSPF5		8.5

Refrigerant Piping Data

Design pressure	PSIG	550/340
Refrigerant type	oz	R410A/98.8
Refrigerant precharge	ft	49
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)	2 X Φ6.35/Φ9.52(1/4"/3/8")
Max. length for all rooms	ft	131
Max. length for one indoor unit	ft	82
Max. height difference between indoor and outdoor unit	ft	49
Max. height difference between indoor units	ft	33

Outdoor Unit Data

Compressor		
Model		ATF235D22UMT
Type		ROTARY
Brand		GMCC
Capacity	Btu/h	24345
Input	W	1970
Rated current(RLA)	A	20
Locked rotor Amp(LRA)	A	---
Thermal protector		---
Thermal protector position		---
Refrigerant oil/oil charge	ml	VG74/670

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	2129.41
Outdoor noise level	dB(A)	63.4

Indoor Unit Data

Max Air Handlers		2
Max BTU on a Single Air Handler		12,000 BTU
Max BTU Across All Air Handlers (unrated)		24,000 BTU

Electrical Data

Power supply	Ph-V-Hz	208-230V~60Hz, 1Ph
MINIMUM CIRCUIT AMPACITY	A	25.0
MAX. FUSE	A	35.0
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	19.25	19.06	18.77	18.68	18.49	17.95	16.17	14.74	12.69
		SC	11.92	12.54	13.53	13.88	14.61	14.36	13.42	12.82	11.80
70F (21.1C)	59F	TC	20.81	20.60	20.30	20.19	19.99	19.45	17.40	15.97	13.78
		SC	11.74	12.36	13.34	13.68	14.40	14.00	13.22	12.46	11.58
75F (23.9C)	63F	TC	22.23	22.01	21.68	21.57	21.36	20.68	18.56	17.06	14.74
		SC	12.02	12.65	13.65	14.01	14.74	14.47	13.55	12.97	12.09
80F (26.7C)	67F	TC	24.15	23.91	23.55	23.43	23.20	21.97	19.79	18.22	15.76
		SC	12.49	13.14	14.19	14.55	15.31	14.72	13.85	13.30	12.45

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	10.02	14.90	19.04	19.38	19.59	19.79	21.36	23.15	23.85
		Input	2.064	2.401	2.57	2.36	1.93	1.72	1.6	1.666	1.683
65F (18.3C)		TC	9.74	14.49	18.52	18.81	18.99	19.17	20.77	22.52	23.19
		Input	2.107	2.45	2.63	2.42	2.01	1.80	1.697	1.767	1.785
70F (21.1C)		TC	9.5548	14.21	18.08	18.32	18.47	18.62	20.031	21.718	22.37
		Input	2.15	2.5	2.68	2.48	2.08	1.89	1.794	1.868	1.887
75F (23.9C)		TC	9.0447	13.451	17.19	17.47	17.65	17.82	19.275	20.898	21.525
		Input	2.193	2.55	2.73	2.54	2.16	1.97	1.891	1.969	1.989

* Maximum system capacity

DB - Dry Bulb

WB - Wet Bulb

Input - Total Power (kW)

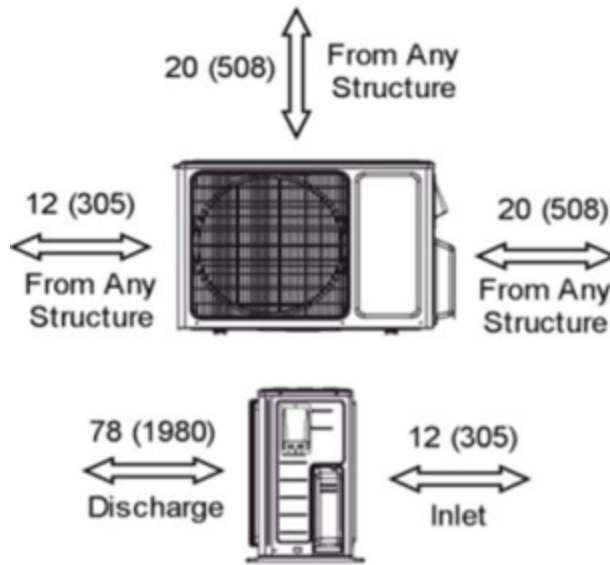
TC - Total Net Capacity (1,000 BTU/hour)

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

COP - W/W

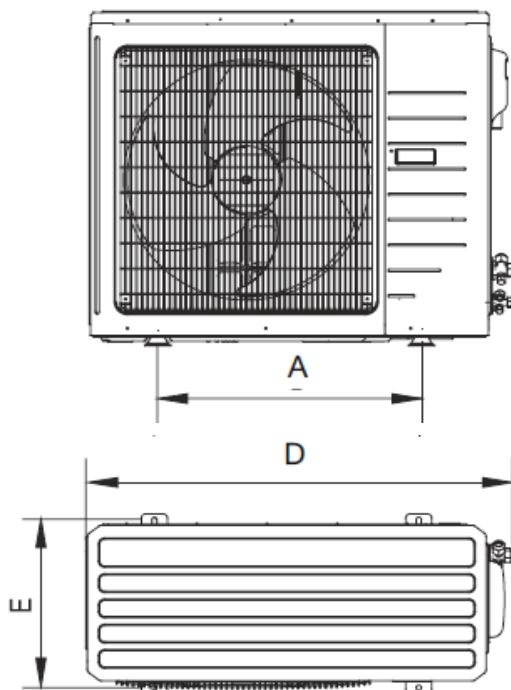
MINIMUM SPACING REQUIREMENTS

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) 149.91/160.94 lbs

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