

BMAHC2417B Submittal Sheet







Models

BMAH2420C

BMAHC24B

BMAHC2417B

24000 BTU 16.5 SEER2 Ducted Heat Pump Condenser

Up to 24,000 BTU Hyper Heat A Coil

24000 BTU 16.5 SEER2 Ducted Heat Pump/Coil System

What's in the Box

Ducted Heat Pump System

BMAHC2417B

24000 BTU 16.5 SEER2 Ducted Heat Pump Condenser
Up to 24,000 BTU Hyper Heat A Coil
Remote Controller
Wired Controller



SUBMITTAL DATA SHEET

A-Coil Heat Pump System		
	Approval:	
Location:	Data:	
Engineer:	Construction:	
Submitted to:		
Submitted by:		
Reference:		

Set Model
Indoor unit model
Dutdoor unit model
Dutdoor unit model
BMAHC24B
BMAH2420C

Ceritified

AHRI
UL
BMAHC24T7B
BMAHC24B

UL
BMAHC24B

UL
BMAHC24B

ENERGY STAR

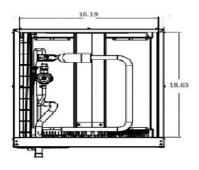
SYSTEM PERFORMANCE DAT	Α	
Power supply		
Normal Operational Voltage	(V, Ph, Hz)	208/230V,1Ph, 60Hz
Voltage Range	(V)	187-253
Electrical		
Minimum circuit ampacity(Outdoor)	(A)	20.0
Max.fuse(Outdoor)	(A)	35.0
Connection wiring		N/A
Cooling		
Capacity	(Btu/h)	24000(10000~28400)
Power Input	(W)	2247(380~2600)
Current	(A)	9.43(2.33~10.68)
SEER2	(Btu/W)	16.5
EER2	(Btu/W)	10.7
Heating		
Capacity	(Btu/h)	25000(9600~33400)
Power Input	(W)	2233(510~3160)
Current	(A)	9.30(3.01~12.92)
HSPF2-4	(Btu/W)	9.5
COP	W/W	3.28
Heat at 17F(AHRI Rating)	(Btu/h)	21000
Heat at 5F(AHRI Rating)	(Btu/h)	20000
COP at 5F(AHRI Rating)	W/W	1.95

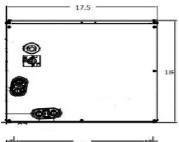
Indoor unit Outdoor unit (PSIG)	TXV EEV for heating
Outdoor unit	
(PSIG)	
	550/340
	R410A
OZ	102.32
(ft) (m)	25.0 7.5
(oz/ft)	0.69
(inch)	3/8" / 3/4"
(inch)	3/8" / 3/4"
(ft)	164.0
(ft)	82.0
	Flared
(Deg. °F)	60~90
(Deg. °F)	32~86
(Deg. °F)	5~122
(Deg. °F)	-22~75
	(ft) (m) (oz/ft) (inch) (inch) (ft) (ft) (Deg. F) (Deg. F)

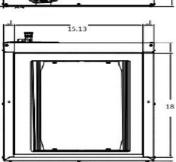
INDOOR UNIT DATA		
Pressure drop	Pa In. wg.	32.70 0.13
Configuration		Upflow / DownFlow / Horizontal
Indoor unit Dimension (WxDxH)	(inch)	17.52x20.98x17.99
Packing(WxDxH)	(inch)	20.47x26.18x20.28
Net/Gross weight	(lbs.)	42.77/52.03

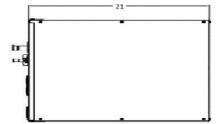
OUTDOOR UNIT DATA		
Compressor		
Туре		Twin-ROTARY
Model		KTM240D57UMT
Brand		GMCC
Capacity	(Btu/h)	26409
Input	(W)	2085
Rated current (RLA)	(A)	15
Refrigerant oil/oil charge	(ml)	ESTER OIL VG74 670
Outdoor fan motor		
Model		ZKFN-120-8-2
Qty		1
Input	(W)	150.0
Output	(W)	120
RLA	(A)	1.4
Air flow & Noise level		
Outdoor air flow (Max.)	(CFM)	3000
Outdoor noise level	[dB(A)]	63.5
Outdoor unit		
Dimension (W×D×H)	(inch)	37.24x16.14x31.89
Packing (W×D×H)	(inch)	42.91x19.69x34.84
Net/ Gross weight	(lbs.)	136.69/145.50

Indoor Unit Dimensions (Inches)

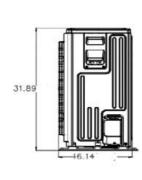


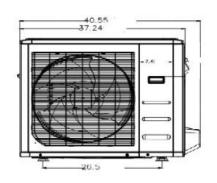


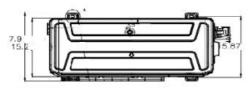




Outdoor Unit Dimensions (Inches)







COOLING PERFORMANCE DATA

	Cooling	3	Outdoor conditions (DB)																
YS Model	Indoor		5°F	14°F	17°F	23°F	32°F	41°F	47°F	50°F	59°F	68°F	77°F	82°F	86°F	95°F	104°F	114.8°F	122°F
	DB																		
	73.4°F	TC	33162	33124	33111	32256	30973	31211	31877	32056	32594	33131	33668	33967	32406	28896	27746	26365	25445
	73.41	Input	1.93	1.87	1.85	1.77	1.64	1.73	1.87	1.89	1.96	2.03	2.10	2.14	2.36	2.84	2.88	2.94	2.97
	77.0°F	TC	33198	33160	33147	32291	31007	31245	31912	32091	32629	33167	33705	34004	32442	28928	27776	26394	25473
BMAHC24B	77.0F	Input	1.93	1.87	1.85	1.77	1.64	1.74	1.87	1.89	1.96	2.04	2.11	2.15	2.36	2.84	2.89	2.94	2.98
BMAH2420C	80.0°F	TC	33234	33196	33183	32326	31040	31279	31946	32126	32664	33203	33741	34041	32477	28959	27806	26423	25501
DINATIZAZOO	60.0 F	Input	1.93	1.87	1.85	1.77	1.65	1.74	1.87	1.90	1.97	2.04	2.11	2.15	2.36	2.84	2.89	2.94	2.98
	80.6℉	TC	33239	33201	33189	32331	31045	31284	31951	32131	32670	33208	33747	34046	32482	28964	27811	26427	25505
		Input	1.93	1.87	1.85	1.77	1.65	1.74	1.87	1.90	1.97	2.04	2.11	2.15	2.36	2.84	2.89	2.95	2.98
	84.2°F	TC	33281	33243	33230	32372	31084	31323	31991	32171	32710	33249	33789	34088	32523	29000	27845	26460	25536
	04.21	Input	1.94	1.87	1.85	1.77	1.65	1.74	1.87	1.90	1.97	2.04	2.11	2.15	2.37	2.85	2.89	2.95	2.99

HEATING PERFORMANCE DATA

YS Model	Heating	l		Outdoor conditions (DB)																		
	Indoor Conditions		-22°F	-13°F	-10°F	-4°F	0°F	5°F	14°F	17°F	22°F	27°F	32°F	37°F	42°F	44.6°F	47°F	52°F	57°F	59°F	62°F	64.4°F
	DB																					
	60.8℉	TC	15178	18665	18289	17537	18858	20511	24356	25638	27450	29262	31073	32604	33714	34158	34823	33082	31428	29857	28364	26946
	00.87	Input	2.63	3.11	2.86	2.36	2.60	2.90	3.15	3.24	3.35	3.47	3.58	3.58	3.44	3.39	3.23	3.16	3.10	3.04	2.98	2.92
	68°F	TC	14874	18291	17923	17186	18481	20101	23869	25126	26901	28677	30452	31952	33040	33474	34127	32421	30799	29260	27797	26407
	100	Input	2.66	3.13	2.88	2.38	2.62	2.92	3.18	3.26	3.38	3.49	3.61	3.61	3.47	3.41	3.25	3.19	3.12	3.06	3.00	2.94
BMAHC24B	70°F	TC	14800	18200	17833	17100	18389	20000	23750	25000	26767	28533	30300	31792	32874	33307	33956	32258	30645	29113	27658	26275
BMAH2420C	701	Input	2.66	3.14	2.89	2.39	2.63	2.93	3.19	3.27	3.39	3.50	3.62	3.61	3.48	3.42	3.26	3.19	3.13	3.07	3.01	2.95
	71.6°F	TC	14741	18127	17762	17032	18315	19920	23655	24900	26660	28419	30179	31665	32743	33174	33820	32129	30523	28997	27547	26170
_	71.01	Input	2.67	3.14	2.89	2.39	2.63	2.94	3.19	3.28	3.39	3.51	3.62	3.62	3.49	3.43	3.27	3.20	3.14	3.07	3.01	2.95
	75.2℉	TC	14608	17964	17602	16878	18150	19741	23442	24676	26420	28163	29907	31380	32448	32875	33516	31840	30248	28736	27299	25934
	/5.21	Input	2.68	3.16	2.90	2.40	2.64	2.95	3.21	3.29	3.41	3.52	3.64	3.64	3.50	3.44	3.28	3.21	3.15	3.09	3.03	2.96

LEGEND

DB --- Dry Bulb
TC --- Total Net Capacity (1000 Btu/hour)
Input --- Total Power (kW)



Certificate of Product Ratings

AHRI Certified Reference Number: 215359200 Date: 09-10-2024 Model Status: Active

AHRI Type: HRCU-A-C (Split System: Heat Pump with Remote Outdoor Unit with No Indoor Fan --Air Source)

Series : BMAH Series

Outdoor Unit Brand Name: BLUERIDGE

Outdoor Unit Model Number (Condenser or Single Package): BMAH2420C Indoor Unit Model Number (Evaporator and/or Air Handler): BMAHC24B

The manufacturer of this BLUERIDGE product is responsible for the rating of this system combination.

Rated as follows in accordance with the latest edition of AHRI 210/240 - 2017 with Addendum 1, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A2) - Single or High Stage (95F), btuh: 24000

SEER: 16.00

EER (A2) - Single or High Stage (95F): 11.00

Heating Capacity (H12) - Single or High Stage (47F): 26000

HSPF (Region IV): 9.50

Rated as follows in accordance with the latest edition of AHRI 210/240 – 2024, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (AFull) - Single or High Stage (95F), btuh: 24000

SEER2: 16.50

EER2 (A Full) - Single or High Stage (95F): 10.70

Heating Capacity (H1Full) - Single or High Stage (47F), btuh: 25000

HSPF2 (Region IV): 9.50

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†"Active" Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced. "Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.

Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

The Department of Energy has published updated energy efficiency metrics for central air conditioners and heat pumps. This publication reflects both the 1987 metric (SEER) and the 2023 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRInet.org for more information about updated energy efficiency metrics.

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