BMAHC1816B Submittal Sheet

Models

BMAH1820C	18000 BTU 16.1 SEER2 Ducted Heat Pump Condenser
BMAHC24B	18000 BTU 16.1 SEER2 Ducted A-Coil
BMAHC1816B	18000 BTU 16.1 SEER2 Ducted Heat Pump/Coil System

What's in the Box

Ducted Heat Pump System

BMAHC1816B	18000 BTU 16.1 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

Location: _____
Engineer: _____
Submitted to: _____
Submitted by: _____
Reference: _____

Approval: _____
Date: _____
Construction: _____
Unit #: _____
Drawing #: _____

Set Model	BMAHC1816B
Indoor unit model	BMAHC24B
Outdoor unit model	BMAH1820C
Ceritified	**AHRI**
	UL

SYSTEM PERFORMANCE DATA

Power supply		
Normal Operational Voltage	(V, Ph, Hz)	208/230V,1Ph, 60Hz
Voltage Range	(V)	187-253
Electrical		
Minimum circuit ampacity(Outdoor)	(A)	16.0
Max.fuse(Outdoor)	(A)	20.0
Connection wiring		N/A
Cooling		
Capacity	(Btu/h)	18000(9600~22000)
Power Input	(W)	1538(450~2100)
Current	(A)	7.0(2.2~8.22)
SEER2	(Btu/W)	16.1
EER2	(Btu/W)	11.7
Heating		
Capacity	(Btu/h)	19000(6000~23600)
Power Input	(W)	1610(470~2200)
Current	(A)	8.5(2.4~9.6)
HSPF2-4	(Btu/W)	9.5
COP	W/W	3.46
Heat at 17F(AHRI Rating)	(Btu/h)	14700
Heat at 5F(AHRI Rating)	(Btu/h)	15000
COP at 5F(AHRI Rating)	W/W	2.20

REFRIGERANT PIPE DATA

Throttle type	Indoor unit Outdoor unit	TXV EEV for heating
Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	81.13
Refrigerant precharge	(ft) (m)	25.0 7.5
Additional charge for each ft	(oz/ft)	0.69
Liquid side/ Gas side(indoor)	(inch)	3/8" / 3/4"
Liquid side/ Gas side(outdoor)	(inch)	3/8" / 5/8"
Max. pipe length	(ft)	98.4
Max. difference in level	(ft)	65.6
Connection method		Flared
Indoor(cooling)	(Deg. °F)	60～90
Indoor(heating)	(Deg. °F)	32～86
Outdoor(cooling)	(Deg. °F)	5~122
Outdoor(heating)	(Deg. °F)	-22～75

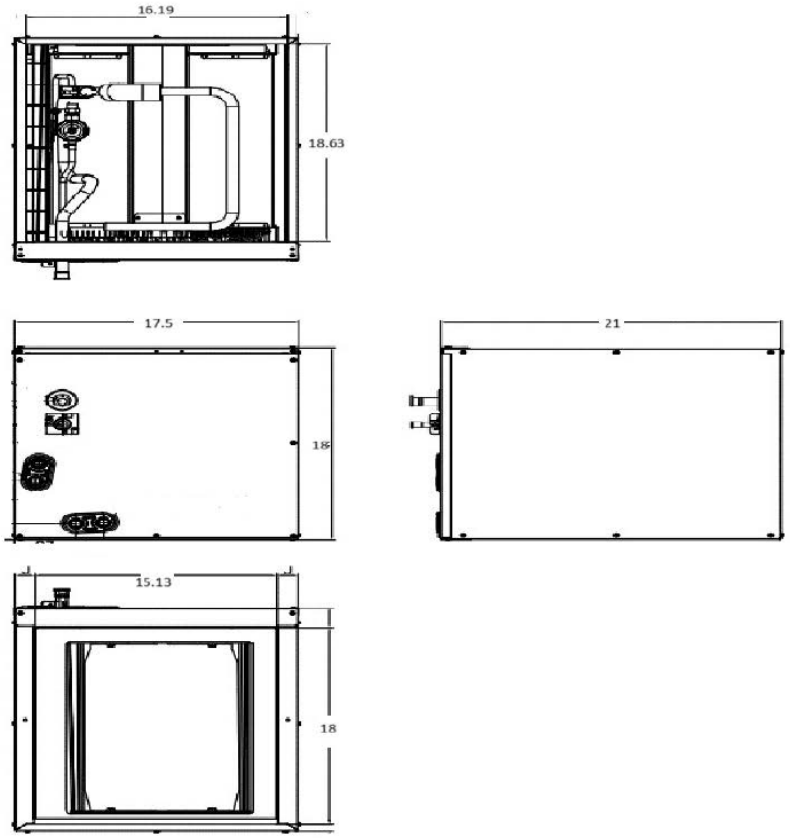
INDOOR UNIT DATA

Pressure drop	Pa	32.70
	In. wg.	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

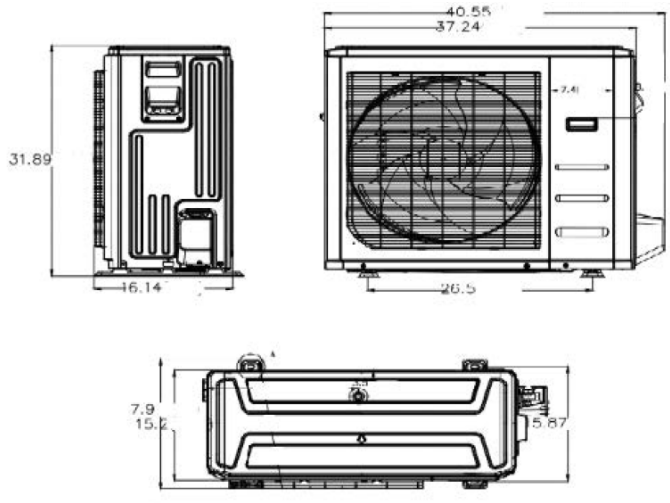
OUTDOOR UNIT DATA

Compressor		
Type		Twin-ROTARY
Model		KTM240D57UMT
Brand		GMCC
Capacity	(Btu/h)	26409
Input	(W)	2085
Rated current (RLA)	(A)	10
Refrigerant oil/oil charge	(ml)	ESTER OIL VG74 670
Outdoor fan motor		
Model		ZKFN-80-8-3
Qty		1
Input	(W)	/
Output	(W)	80
RLA	(A)	1.0
Speed	(r/min)	800/700/580
Air flow & Noise level		
Outdoor air flow (Max.)	(CFM)	1279
Outdoor noise level	[dB(A)]	57.0
Outdoor unit		
Dimension (W×D×H)	(inch)	35.04x13.46x26.50
Packing (W×D×H)	(inch)	39.17x15.67x29.13
Net/ Gross weight	(lbs.)	102.95/109.79
Accessories		
Adaptor for welding(3/4")	Qty	1
Adaptor for welding(3/8")	Qty	1
Adaptor (5/8" to 3/4")	Qty	1

Indoor Unit Dimensions (Inches)



Outdoor Unit Dimensions (Inches)



COOLING PERFORMANCE DATA

YS Model	Cooling		Outdoor conditions (DB)																
	Indoor DB		5℉	14℉	17℉	23℉	32℉	41℉	47℉	50℉	59℉	68℉	77℉	82℉	86℉	95℉	104℉	114.8℉	122℉
BMAHC24B BMAH1820C	73.4℉	TC	24031	24186	24237	24402	24649	24277	23822	24063	24786	25509	26232	26633	25705	23616	21528	19021	17350
		Input	1.30	1.24	1.22	1.18	1.12	1.13	1.18	1.20	1.29	1.38	1.47	1.52	1.74	2.23	2.72	3.31	3.70
	77.0℉	TC	24058	24212	24263	24428	24676	24303	23848	24089	24813	25537	26260	26662	25733	23642	21551	19042	17369
		Input	1.30	1.24	1.22	1.18	1.12	1.14	1.18	1.21	1.30	1.39	1.47	1.52	1.74	2.23	2.72	3.31	3.70
	80.0℉	TC	24084	24238	24290	24455	24703	24330	23874	24115	24840	25564	26289	26691	25761	23668	21575	19063	17388
		Input	1.30	1.24	1.22	1.18	1.12	1.14	1.18	1.21	1.30	1.39	1.48	1.53	1.74	2.24	2.73	3.32	3.71
	80.6℉	TC	24087	24242	24294	24459	24707	24333	23878	24119	24844	25568	26293	26696	25765	23671	21578	19066	17391
		Input	1.30	1.24	1.22	1.18	1.12	1.14	1.18	1.21	1.30	1.39	1.48	1.53	1.74	2.24	2.73	3.32	3.71
	84.2℉	TC	24117	24272	24324	24489	24737	24364	23907	24149	24875	25600	26326	26729	25797	23701	21605	19089	17412
		Input	1.30	1.24	1.22	1.18	1.12	1.14	1.18	1.21	1.30	1.39	1.48	1.53	1.75	2.24	2.73	3.32	3.71

HEATING PERFORMANCE DATA

YS Model	Heating		Outdoor conditions (DB)																		
	Indoor Conditions DB		-22℉	-13℉	-10℉	-4℉	0℉	5℉	14℉	17℉	22℉	27℉	32℉	37℉	42℉	44.6℉	47℉	52℉	57℉	59℉	62℉	64.4℉
BMAHC24B BMAH1820C	60.8℉	TC	10563	12819	12888	13024	14073	15383	17229	17844	18476	19109	19741	20825	22588	23293	24350	23133	21976	20877	19834	18842
		Input	1.92	2.01	1.93	1.75	1.85	1.98	2.06	2.09	2.13	2.16	2.20	2.21	2.17	2.16	2.11	2.07	2.03	1.99	1.95	1.91
	68℉	TC	10352	12563	12630	12764	13791	15075	16884	17487	18107	18726	19346	20409	22136	22827	23863	22670	21537	20460	19437	18465
		Input	1.93	2.03	1.94	1.77	1.87	1.99	2.08	2.10	2.14	2.18	2.22	2.23	2.19	2.17	2.13	2.09	2.05	2.00	1.96	1.93
	70℉	TC	10300	12500	12567	12700	13722	15000	16800	17400	18016	18633	19249	20307	22025	22713	23744	22557	21429	20358	19340	18373
		Input	1.94	2.04	1.95	1.77	1.87	2.00	2.08	2.11	2.15	2.19	2.23	2.23	2.19	2.18	2.13	2.09	2.05	2.01	1.97	1.93
	71.6℉	TC	10259	12450	12516	12649	13667	14940	16733	17330	17944	18558	19172	20225	21937	22622	23649	22467	21343	20276	19262	18299
		Input	1.94	2.04	1.95	1.78	1.88	2.00	2.08	2.11	2.15	2.19	2.23	2.23	2.20	2.18	2.14	2.10	2.05	2.01	1.97	1.93
	75.2℉	TC	10166	12338	12404	12535	13544	14806	16582	17174	17783	18391	19000	20043	21740	22418	23436	22264	21151	20094	19089	18135
		Input	1.95	2.05	1.96	1.78	1.88	2.01	2.09	2.12	2.16	2.20	2.24	2.24	2.21	2.19	2.15	2.10	2.06	2.02	1.98	1.94

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

Updated 10/25/2024

Potential Eligibility for IRA Tax Credit*

Certificate of Product Ratings

AHRI Certified Reference Number : 215359198 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) : BMAH1820C

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 : 18000

SEER : 15.60

EER (A2) - Single or High Stage (95F) : 11.60

Heating Capacity (H12) - Single or High Stage (47F) : 18000

HSPF (Region IV) : 8.80

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 (A_{Full}) – Single or High Stage (95F), btuh : 18000

SEER2 : 16.10

EER2 (A_{Full}) – Single or High Stage (95F) : 11.70

Heating Capacity ($H1_{Full}$) – Single or High Stage (47F), btuh : 19000

HSPF2 (Region IV) : 9.50

†"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.

*This refers to the federal tax credit that may be known to consumers as "Inflation Reduction Act (IRA) of 2022 Tax Credit," "25C Tax Credit," or "Energy Efficient Home Improvement Credit." This is not intended to constitute tax or legal advice. Instead, it is for general informational purposes only. AHRI makes no representation or warranty, express or implied or assumes any legal liability or responsibility for the accuracy, completeness, any third party's use of, or the results of the use of potential eligibility for tax credit disclosed on the AHRI Directory of Certified Product Performance and AHRI Certificate of Product Ratings. Potential eligibility for tax credit may not constitute the most up to date information. AHRI is unable to advise or confirm tax credit eligibility. Individuals considering eligibility for the tax credit are advised to confirm eligibility with their equipment installers, tax attorneys or preparers.

CERTIFICATE NO.: 133704571094917415