



BMAHC4814C Submittal Sheet



Models

BMAH4816C	48000 BTU 14.3 SEER2 Ducted Heat Pump Condenser
BMAHC48C	48,000 BTU Hyper Heat A Coil
BMAHC4814C	48000 BTU 14 SEER2 Ducted Heat Pump/Coil System

What's in the Box

Ducted Heat Pump System

BMAHC4814C

48,000 BTU 14.3 SEER2 Ducted Heat Pump Condenser

48,000 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 BMAHC4814C
 Indoor unit model BMAHC48C
 Outdoor unit model BMAH4816C

Certified

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) 40.0
 Max.fuse(Outdoor) (A) 50.0
 Connection wiring N/A

Cooling

Capacity (Btu/h) 46000(12300~47000)
 Power Input (W) 5400(560~5720)
 Current (A) 22.5(2.4~25.3)
 SEER2 (Btu/W) 14.3
 EER2 (Btu/W) 8.6

Heating

Capacity (Btu/h) 51000(15000~59000)
 Power Input (W) 5020(800~6200)
 Current (A) 21.5(4~25.5)
 HSPF2-4 (Btu/W) 9.0

COP W/W 2.98
 Heat at 17F(AHRI Rating) (Btu/h) 32000
 Heat at 5F(AHRI Rating) (Btu/h) 40000
 COP at 5F(AHRI Rating) W/W 1.80

REFRIGERANT PIPE DATA

Throttle type	Indoor unit	TXV
	Outdoor unit	EEV for heating
Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	169.31
	(ft)	25.0
Refrigerant precharge	(m)	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" / 3/4"
Max. pipe length	(ft)	213.3
Max. difference in level	(ft)	98.4
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 70.00
 In. wg. 0.28

Configuration Upflow / DownFlow / Horizontal

Indoor unit

Dimension (WxDxH) (inch) 20.98x20.98x23.98
 Packing(WxDxH) (inch) 24.02x26.18x26.38
 Net/Gross weight (lbs.) 66.58/77.16

OUTDOOR UNIT DATA

Compressor

Type ROTARY
 Model EAPQ420D1UMUA
 Brand GMCC
 Capacity (Btu/h) 44015
 Input (W) 3565
 Rated current (RLA) (A) 33
 Refrigerant oil/oil charge (ml) 1460±15mlESTER OIL VG74

Outdoor fan motor

Model ZKFN-85-8-22-5
 Qty 2
 Input (W) 126.0
 Output (W) 85
 RLA (A) 1.2

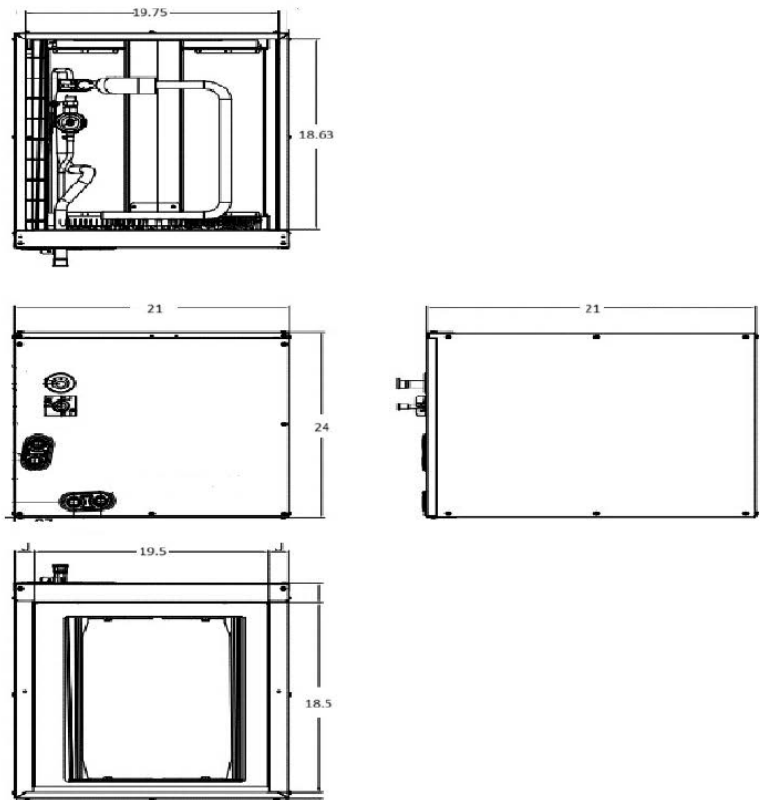
Air flow & Noise level

Outdoor air flow (Max.) (CFM) 4412
 Outdoor noise level [dB(A)] 64.0

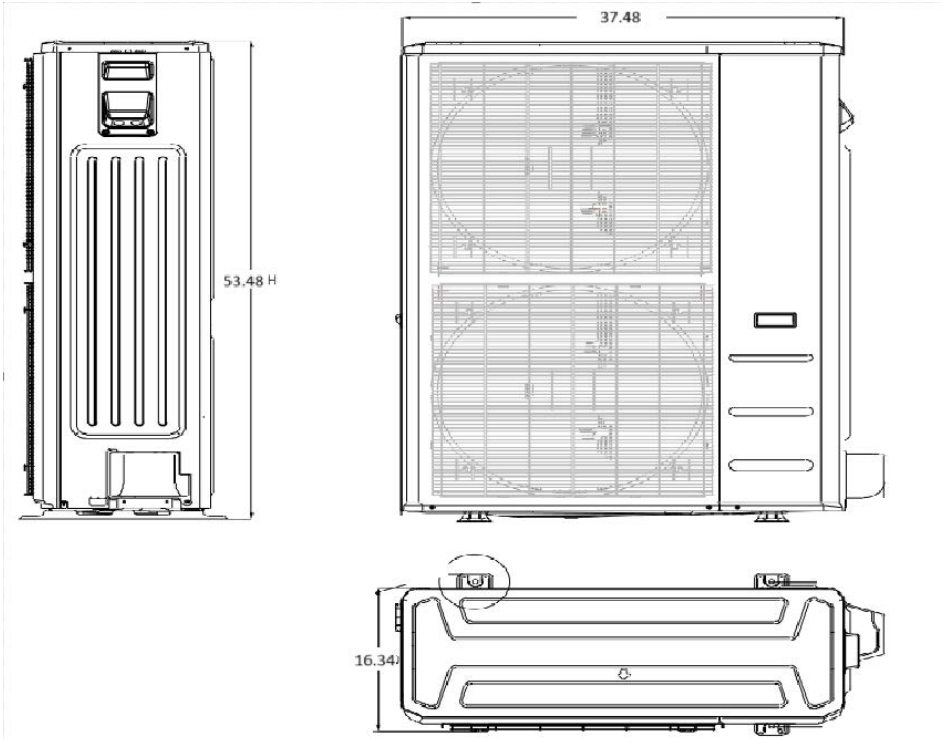
Outdoor unit

Dimension (W×D×H) (inch) 37.48x16.34x52.48
 Packing (W×D×H) (inch) 43.11x19.49x58.27
 Net/ Gross weight (lbs.) 220.24/248.90

Indoor Unit Dimensions (Inches)



Outdoor Unit Dimensions (Inches)



COOLING PERFORMANCE DATA

YS Model	Cooling		Outdoor conditions (DB)																
	Indoor DB		5F	14F	17F	23F	32F	41F	47F	50F	59F	68F	77F	82F	86F	95F	104F	114.8F	122F
BMAHC48C BMAH4816C	73.4F	TC	39698	53293	57825	58431	59341	55641	51639	51773	52173	52573	52972	53195	52252	50131	48010	45464	43767
		Input	1.93	3.04	3.41	3.50	3.65	3.16	2.62	2.71	2.98	3.26	3.53	3.68	4.41	6.04	7.67	9.63	10.93
	77.0F	TC	39741	53351	57888	58495	59405	55702	51695	51829	52229	52630	53030	53252	52309	50185	48062	45514	43815
		Input	1.94	3.04	3.41	3.51	3.65	3.16	2.62	2.71	2.98	3.26	3.53	3.69	4.41	6.04	7.68	9.64	10.94
	80.0F	TC	39784	53409	57951	58558	59470	55763	51752	51885	52286	52687	53088	53310	52366	50240	48114	45563	43862
		Input	1.94	3.05	3.42	3.51	3.65	3.16	2.62	2.71	2.99	3.26	3.54	3.69	4.42	6.05	7.69	9.65	10.96
	80.6F	TC	39790	53417	57960	58567	59479	55771	51760	51893	52294	52695	53096	53319	52374	50248	48122	45570	43869
		Input	1.94	3.05	3.42	3.51	3.66	3.16	2.62	2.71	2.99	3.26	3.54	3.69	4.42	6.05	7.69	9.65	10.96
	84.2F	TC	39840	53484	58032	58640	59553	55841	51824	51958	52359	52761	53162	53385	52439	50310	48181	45627	43924
		Input	1.94	3.05	3.42	3.52	3.66	3.17	2.63	2.72	2.99	3.27	3.54	3.70	4.42	6.06	7.70	9.66	10.97

HEATING PERFORMANCE DATA

YS Model	Heating		Outdoor conditions (DB)																
	Indoor Conditions DB		-22F	-13F	-10F	-4F	0F	5F	14F	17F	22F	27F	32F	37F	42F	44.6F	47F	52F	57F
BMAHC48C BMAH4816C	60.8F	TC	25638	30766	32475	35894	38173	41021	44867	46149	47428	48708	49987	52491	56831	58568	61172	58113	55208
		Input	5.11	5.69	5.84	6.15	6.29	6.45	6.19	6.10	5.99	5.87	5.76	5.76	5.91	5.97	6.14	6.01	5.89
	68F	TC	25126	30151	31826	35176	37409	40201	43970	45226	46480	47734	48987	51441	55695	57396	59948	56951	54103
		Input	5.15	5.74	5.89	6.20	6.34	6.50	6.24	6.15	6.03	5.92	5.80	5.81	5.95	6.02	6.19	6.06	5.94
	70F	TC	25000	30000	31667	35000	37222	40000	43750	45000	46248	47495	48743	51184	55416	57109	59649	56666	53833
		Input	5.16	5.75	5.90	6.22	6.35	6.51	6.25	6.16	6.05	5.93	5.81	5.82	5.97	6.03	6.20	6.08	5.95
	71.6F	TC	24900	29880	31540	34860	37073	39840	43575	44820	46063	47305	48548	50979	55195	56881	59410	56439	53618
		Input	5.17	5.76	5.92	6.23	6.36	6.53	6.26	6.18	6.06	5.94	5.83	5.83	5.98	6.04	6.21	6.09	5.97
	75.2F	TC	24676	29611	31256	34546	36740	39481	43183	44417	45648	46879	48111	50520	54698	56369	58875	55932	53135
		Input	5.19	5.78	5.94	6.25	6.39	6.55	6.29	6.20	6.08	5.97	5.85	5.86	6.00	6.07	6.24	6.11	5.99

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

Certificate of Product Ratings

AHRI Certified Reference Number : 215359205 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) : BMAH4816C

Indoor Unit Model Number (Evaporator and/or Air Handler) : BMAHC48C

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 : 46000

SEER : 14.00

EER (A2) - Single or High Stage (95F) : 9.00

Heating Capacity (H12) - Single or High Stage (47F) : 51000

HSPF (Region IV) : 10.00

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 : 46000

SEER2 : 14.30

EER2 (A_{Full}) – Single or High Stage (95F) : 8.60

Heating Capacity (H1_{Full}) – Single or High Stage (47F), btuh : 51000

HSPF2 (Region IV) : 9.00

AHRI CERTIFIED®
www.ahridirectory.org

†"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.

DISCLAIMER

AHRI does not endorse the product(s) listed on this Certificate and makes no representations, warranties or guarantees as to, and assumes no responsibility for, the product(s) listed on this Certificate. AHRI expressly disclaims all liability for damages of any kind arising out of the use or performance of the product(s), or the unauthorized alteration of data listed on this Certificate. Certified ratings are valid only for models and configurations listed in the directory at www.ahridirectory.org.

TERMS AND CONDITIONS

This Certificate and its contents are proprietary products of AHRI. This Certificate shall only be used for individual, personal and confidential reference purposes. The contents of this Certificate may not, in whole or in part, be reproduced; copied; disseminated; entered into a computer database; or otherwise utilized, in any form or manner or by any means, except for the user's individual, personal and confidential reference.

CERTIFICATE VERIFICATION

The information for the model cited on this certificate can be verified at www.ahridirectory.org, click on "Verify Certificate" link and enter the AHRI Certified Reference Number and the date on which the certificate was issued, which is listed above, and the Certificate No., which is listed at bottom right.

©2024 Air-Conditioning, Heating, and Refrigeration Institute



we make life better™

CERTIFICATE NO.:

133704574708333791