



BMY48U18FCC Submittal Sheet



Models

BMY48UC	48000 BTU 18.9 SEER2 208/230V Minisplit Heat Pump Condenser
BM48MFCC	48000 BTU 18.9 SEER2 208/230V Minisplit Heat Pump Air Handler
BMY48U18FCC	48000 BTU 18.9 SEER2 208/230V Minisplit Heat Pump System
BMY48U18FCC KIT15	48000 BTU 18.9 SEER2 208/230V Minisplit Heat Pump W/ 15 Ft Installation Kit
BMY48U18FCC KIT25	48000 BTU 18.9 SEER2 208/230V Minisplit Heat Pump W/ 25 Ft Installation Kit

SUBMITTAL DATA SHEET



Ceiling&Floor Heat Pump System

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

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

Set Model
 15 Ft Kit Model BMY48U18FCC
 25 Ft Kit Model BMY48U18FCC KIT15
 BMY48U18FCC KIT25

Certified

AHRI



CSA



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)	39.0
Max.fuse(Outdoor)	(A)	50.0
Connection wiring		14AWG*2 Stranded, shielded
Cooling		
Capacity	(Btu/h)	48000(15861~48000)
Power Input	(W)	5170(650~5170)
Current	(A)	23.6(4.84~23.6)
SEER2	(Btu/W)	18.9
EER2	(Btu/W)	9.3
Heating		
Capacity	(Btu/h)	50000(12159~50000)
Power Input	(W)	5861(677~5861)
Current	(A)	25.5(5.01~25.5)
HSPF2-4	(Btu/W)	10.0
COP	W/W	2.50
Heat at 17F(AHRI Rating)	(Btu/h)	29000
Heat at 5F(AHRI Rating)	(Btu/h)	34000
COP at 5F(AHRI Rating)	W/W	1.85

REFRIGERANT PIPE DATA

Throttle type	Indoor unit	N/A
	Outdoor unit	EXV+Throttle valve
Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	159.00
Refrigerant precharge	(ft)	25.0
Additional charge for each ft	(oz/ft)	0.32
Liquid side/ Gas side(indoor)	(inch)	3/8"/5/8"
Liquid side/ Gas side(outdoor)	(inch)	3/8"/5/8"
Max. pipe length	(ft)	213.3
Max. difference in level	(ft)	98.4
Connection method		Flared
Remote Control Temp Range(cooling)	(Deg. °F)	62 ~ 86
Remote Control Temp Range(heating)	(Deg. °F)	62 ~ 86
Outdoor(cooling)	(Deg. °F)	5~122
Outdoor(heating)	(Deg. °F)	5~75

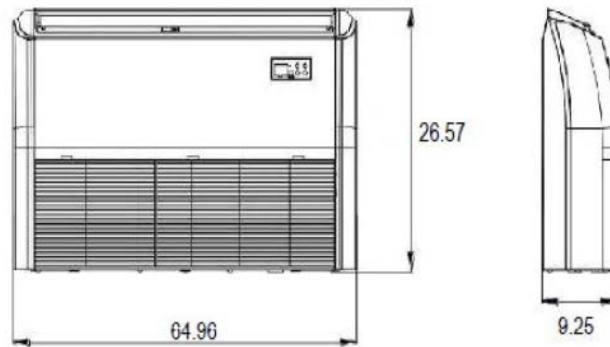
INDOOR UNIT DATA

Indoor fan motor		
Model		ZKFN-90-8-1
Qty		1
Input	(W)	96.0
Output	(W)	90.0
RLA	(A)	1.80
Air flow & Noise level		
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	//1352.94/1117.65/1000.00
Indoor noise level (Hi/Med/Lo)	[dB(A)]	55.0/49.5/44.5
Dehumidification	(L/H)	6.06
Indoor unit		
Dimension (WxDxH)	(inch)	64.96x26.57x9.25
Packing(WxDxH)	(inch)	67.91x29.72x12.52
Net/Gross weight	(lbs.)	87.74/102.29

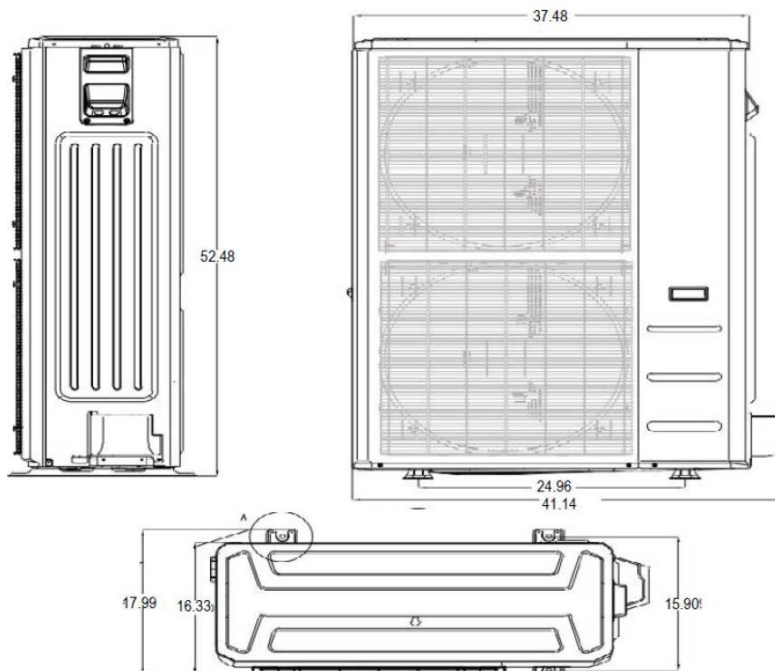
OUTDOOR UNIT DATA

Compressor		
Type		ROTARY
Model		KTQ420D1UMU
Brand		GMCC
Capacity	(Btu/h)	46744
Input	(W)	3700
Rated current (RLA)	(A)	28.0
Refrigerant oil/oil charge	(ml)	VG74/1400
Outdoor fan motor		
Model		ZKFN-85-8-22-5
Qty		2
Input	(W)	126.00
Output	(W)	85.00
RLA	(A)	1.20
Air flow & Noise level		
Outdoor air flow (Max.)	(CFM)	4500.0
Outdoor noise level	[dB(A)]	63.5
Outdoor unit		
Dimension (W×D×H)	(inch)	37.48x16.34x52.48
Packing (W×D×H)	(inch)	43.11x19.49x58.27
Net/ Gross weight	(lbs.)	219.14/249.12

Indoor unit dimension (Inches)

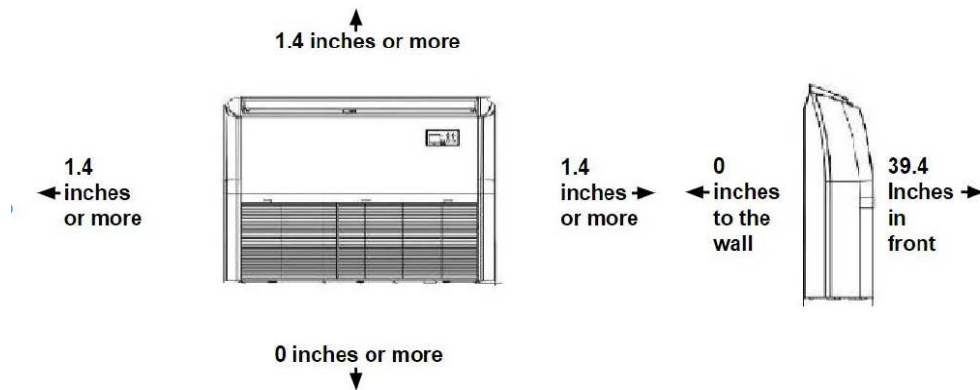


Outdoor unit dimension (Inches)



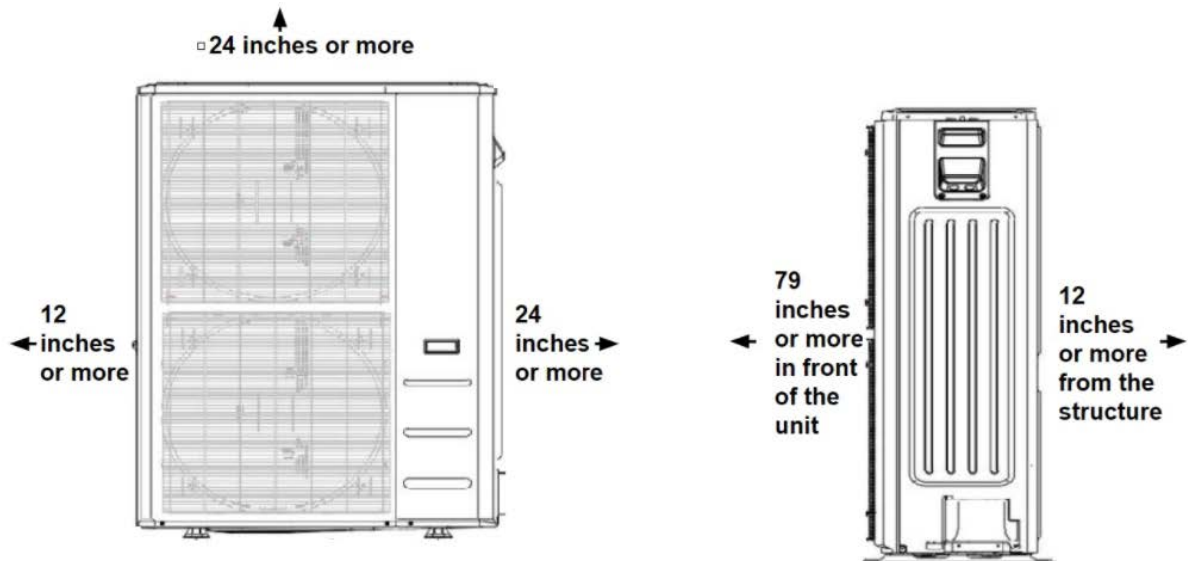
Indoor unit clearance (Inches)

**Recommended
Minimum Clearances**



Outdoor unit clearance (Inches)

Recommended Clearances



COOLING PERFORMANCE DATA

Model	Cooling																
	Indoor Conditions		5°F	17°F	25°F	35°F	47°F	55°F	65°F	75°F	80°F	85°F	95°F	105°F	110°F	115°F	122°F
			DB														
BM48MFCC BMY48UC	65°F	TC	41153	46900	46419	48224	49555	50481	50585	50943	50859	46935	42147	33959	28480	22219	17608
		Input	2551	3145	3172	3324	3750	3989	4233	4557	4745	5205	5521	4412	3713	3141	2798
	70°F	TC	43319	48956	49225	50444	52054	53590	53247	53176	53423	49458	44459	35974	30011	23537	18457
		Input	2562	3089	3168	3279	3710	4065	4264	4486	4785	5249	5504	4477	3736	3175	2775
	75°F	TC	45504	51751	51980	53155	54851	56056	56346	55975	56413	51734	46311	38229	31458	24854	19490
		Input	2530	3112	3165	3279	3702	3997	4277	4452	4815	5194	5435	4539	3748	3188	2757
	80°F	TC	48000	54076	55063	56012	58043	58453	58878	59296	59697	54803	49059	40626	33149	26384	20473
		Input	2522	3083	3168	3259	3746	3972	4233	4514	4851	5179	5441	4573	3784	3198	2722

HEATING PERFORMANCE DATA

Model	Heating												
	Indoor Conditions DB		5°F	10°F	17°F	20°F	25°F	32°F	35°F	40°F	47°F	50°F	57°F
BM48MFCC BMY48UC	60°F	TC	31465	34952	38014	40179	41602	43389	44917	51634	58319	59662	60762
		Input	4025	4250	4417	4517	4572	4615	4686	5162	5395	5227	5126
	65°F	TC	30638	34067	36907	38896	40469	41962	43609	50374	56347	57756	59050
		Input	4149	4359	4525	4619	4679	4738	4816	5283	5534	5378	5246
	70°F	TC	29631	32914	36007	37653	39252	40898	42339	49050	54653	56074	57386
		Input	4252	4493	4656	4732	4804	4874	4925	5402	5653	5493	5370
	75°F	TC	28445	31762	34675	36335	37682	39303	40434	46843	52521	53943	54861
		Input	4383	4610	4814	4874	4934	5006	5092	5559	5799	5652	5515

LEGEND

DB --- Dry Bulb (Air Temperature without considering humidity)

TC --- Total Net Capacity 1000 Btu/hour (Actual Capacity + Dehumidifying Capacity)

Input --- Total Power (W)



Certificate of Product Ratings

AHRI Certified Reference Number : 207571385 Date : 02-29-2024 Model Status : Active
 AHRI Type : HRCU-A-CB-O (Mini-Split Heat Pump, with Remote Outdoor Unit Air-Source, Free Delivery)
 Series Name : BM series
 Outdoor Unit Brand Name : BLUERIDGE
 Outdoor Unit Model Number : BMY48UC
 Indoor Type : Mini-Splits (Non-Ducted)
 Indoor Model Number(s) : BM48MFCC

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 : 48000
 SEER : 18.00
 EER (A2) - Single or High Stage (95F) : 9.30
 Heating Capacity (H12) - Single or High Stage (47F) : 50000
 HSPF (Region IV) : 11.00

Rated as follows in accordance with the latest edition of AHRI 210/240 – 2023, 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 : 48000
 SEER2 : 18.90
 EER2 (A_{Full}) – Single or High Stage (95F) : 9.30
 Heating Capacity (H1_{Full}) – Single or High Stage (47F), btuh : 50000
 HSPF2 (Region IV) : 10.00

Sold in? : USA, Canada

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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.

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CERTIFICATE NO.:

133537055341087861



ENERGY STAR CERTIFIED

Heat Pumps (Mini-Split)

: BMY48UC

Specifications

ENERGY STAR Unique ID:	2448926
Outdoor Unit Brand Name:	BLUERIDGE
Series Name:	BM series
Outdoor Unit Model Number:	BMY48UC
Indoor Unit Model Number:	BM48MFCC
Indoor Unit Brand Name:	BLUERIDGE
SEER2 (Btu/Wh):	18.9
Product Type:	HP - Mini or Multi Split
EER2 (Btu/Wh):	9.3
HSPF2 (Btu/Wh):	10.0
COP at 5°F:	1.85
Cooling Capacity (Btu/h):	48000
Heating Capacity at 47°F (Btu/h):	50000
Heating Capacity at 5°F (Btu/h):	35000
Cold Climate:	Yes
Connected Capable:	No
Meets Peak Cooling Requirements:	No
Tax Credit Eligible:	No
Refrigerant with GWP:	R-410A (GWP:2088)
ENERGY STAR Most Efficient:	No

Captured On:
04/10/2023