



BMY36U17CD Submittal Sheet



Models

BMY36UC	36000 BTU 15.8 SEER2 208/230V Minisplit Heat Pump Condenser
BM36MCD	36000 BTU 15.8 SEER2 208/230V Minisplit Heat Pump Air Handler
BMY36U17CD	36000 BTU 15.8 SEER2 208/230V Minisplit Heat Pump System
BMY36U17CD KIT15	36000 BTU 15.8 SEER2 208/230V Minisplit Heat Pump W/ 15 Ft Installation Kit
BMY36U17CD KIT25	36000 BTU 15.8 SEER2 208/230V Minisplit Heat Pump W/ 25 Ft Installation Kit

SUBMITTAL DATA SHEET



Duct Heat Pump System

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

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

Set Model
 15 Ft Kit Model BMY36U17CD
 25 Ft Kit Model BMY36U17CD KIT15
 BMY36U17FCD KIT25

Certified



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)	30.0
Max.fuse(Outdoor)	(A)	45.0
Connection wiring		14AWG*2 Stranded, shielded
Cooling		
Capacity	(Btu/h)	36000(8900~36000)
Power Input	(W)	4091(351~4286)
Current	(A)	18.63(2.85~18.63)
SEER2	(Btu/W)	15.8
EER2	(Btu/W)	8.8
Heating		
Capacity	(Btu/h)	40000(12700~40000)
Power Input	(W)	3539(776~3539)
Current	(A)	15.39(5.44~15.39)
HSPF2-4	(Btu/W)	8.8
COP	W/W	3.30
Heat at 17F(AHRI Rating)	(Btu/h)	25000
Heat at 5F(AHRI Rating)	(Btu/h)	22000
COP at 5F(AHRI Rating)	W/W	1.91

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	112.88
Refrigerant precharge	(ft)	25.0
Additional charge for each ft	(oz/ft)	0.32
Additional charge for each m		
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
Indoor(cooling)	(Deg. °F)	62~90
Indoor(heating)	(Deg. °F)	32~86
Outdoor(cooling)	(Deg. °F)	5~122
Outdoor(heating)	(Deg. °F)	-13~75

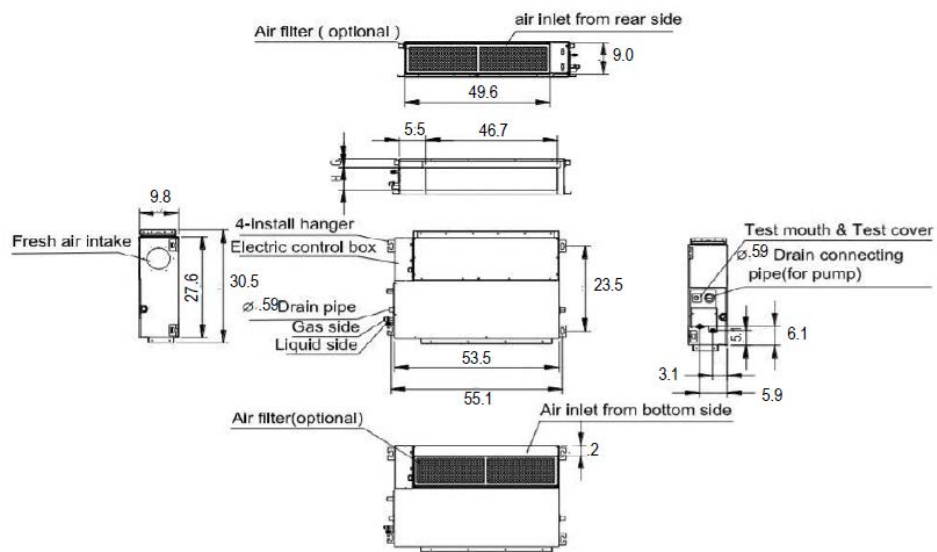
INDOOR UNIT DATA

Indoor fan motor		
Model		ZKFN-300-8-1
Qty		1
Input	(W)	250.00
Output	(W)	300.0
RLA	(A)	1.6
Air flow & Noise level		
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	//1081.76/912.35/702.94
Indoor noise level (Hi/Med/Lo)	[dB(A)]	48.0/43.5/40.5
Dehumidification	(L/H)	3.2/3.37
Indoor unit		
Dimension (WxDxH)	(inch)	53.54x30.47x9.80
Packing(WxDxH)	(inch)	61.81x31.69x12.99
Net/Gross weight	(lbs.)	110.89/128.09

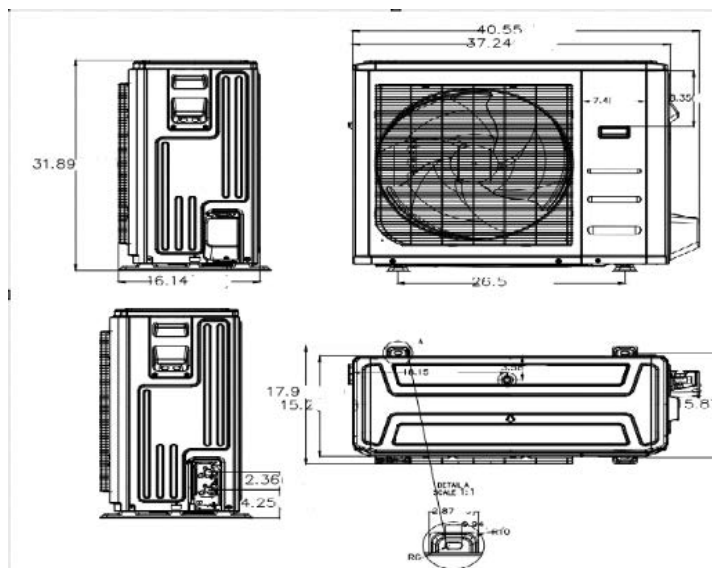
OUTDOOR UNIT DATA

Compressor		
Type		ROTARY
Model		KTF310D43UMT
Brand		GMCC
Capacity	(Btu/h)	34154
Input	(W)	2765
Rated current (RLA)	(A)	23.5
Refrigerant oil/oil charge	(ml)	VG74/1000
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)]	65.0
Outdoor unit		
Dimension (WxDxH)	(inch)	37.24x16.14x31.89
Packing (WxDxH)	(inch)	42.91x19.69x34.84
Net/ Gross weight	(lbs.)	155.42/166.23

Indoor unit dimension (Inches)



Outdoor unit dimension (Inches)



COOLING PERFORMANCE DATA

Model	Cooling																					
	Indoor Conditions				-13°F	-4°F	0°F	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	WB																				
BM36MCD BMY36UC (208-230V)	65°F	54°F	TC	31367	32673	33793	33755	36137	35363	35768	36643	37225	38422	39805	39070	35257	31645	30109	28271	25329	23624	
			SC	19937	21343	23207	23792	26285	25018	26214	27504	28804	29280	31934	30509	27463	26250	25969	25362	23754	23636	
			Input	1999	2198	2357	2422	2992	2915	2928	3170	3121	3252	3373	3396	3698	4236	4212	4151	3961	4141	
	70°F	59°F	TC	33192	34285	35722	35495	37959	37263	37532	38775	39475	40615	41507	41520	37348	33067	31429	29634	26945	24789	
			SC	20980	22260	24402	24862	27470	26239	27332	28920	30350	30785	33088	32251	28956	27291	26938	26463	25142	24708	
			Input	2002	2212	2349	2443	2960	2894	2906	3184	3157	3259	3366	3421	3686	4231	4194	4103	4024	4154	
	75°F	63°F	TC	34866	36357	37523	37640	39706	39432	39591	41206	41995	42308	43646	43567	39067	34588	32773	30933	28665	26012	
			SC	21928	23465	25502	26210	28557	27620	28676	30587	32121	31873	34571	33630	30117	28374	27939	27464	26624	25826	
			Input	2012	2224	2369	2461	2923	2931	2934	3190	3204	3259	3363	3436	3628	4200	4111	4047	4101	4128	
	80°F	67°F	TC	36973	38514	39127	39705	41534	41683	41851	43284	44019	44770	45559	46348	41080	36409	34497	32768	30142	27124	
			SC	23145	24726	26450	27515	29697	29011	30133	31944	33499	33577	35900	35595	31509	29710	29219	28934	27851	26798	
			Input	2016	2241	2361	2490	2896	2924	2953	3154	3221	3290	3363	3436	4020	4161	4124	4077	4084	4046	

HEATING PERFORMANCE DATA

Model	Heating		Outdoor conditions (DB)														
	Indoor Conditions DB		-13°F	-4°F	0°F	5°F	10°F	17°F	20°F	25°F	32°F	35°F	40°F	47°F	50°F	57°F	
BM36MCD BMY36UC (208-230V)	60°F	TC	20304	22648	23846	24641	26453	28553	31134	33237	35775	37921	41137	44152	44808	45912	
		Input	3649	3486	3415	3323	3234	3270	3374	3468	3538	3614	3497	3413	3325	3212	
	65°F	TC	19789	22031	23040	23900	25807	27722	30110	32113	34733	36888	39746	42659	43715	44618	
		Input	3742	3564	3499	3405	3316	3364	3461	3557	3628	3725	3591	3497	3407	3312	
	70°F	TC	19306	21452	22478	23317	24983	27019	29148	31299	33559	35709	38663	41336	42442	43403	
		Input	3846	3663	3592	3489	3405	3433	3539	3637	3741	3802	3694	3576	3491	3397	
	75°F	TC	18592	20679	21624	22361	24109	25992	27982	30204	32082	34460	37078	39806	40702	41667	
		Input	3981	3788	3703	3607	3511	3553	3641	3750	3845	3912	3801	3676	3582	3516	

LEGEND

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

WB --- Wet Bulb (Air Temperature accounting for humidity)

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

SC --- Sensible Capacity 1000 Btu/hour (Actual Capacity of System)

Input --- Total Power (W)

Certificate of Product Ratings

AHRI Certified Reference Number : 207571383 Date : 01-19-2024 Model Status : Active

AHRI Type : HRCU-A-CB (Mini-Split System: Heat Pump with Outdoor Unit-Air-Source, Ducted)

Outdoor Unit Brand Name : BLUERIDGE

Outdoor Unit Model Number : BMY36UC

Indoor Type : Mini-Splits (Ducted)

Indoor Model Number(s) : BM36MCD

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 : 36000

SEER : 16.70

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

Heating Capacity (H12) - Single or High Stage (47F) : 40000

HSPF (Region IV) : 11.50

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 : 36000

SEER2 : 15.80

EER2 (A_{Full}) – Single or High Stage (95F) : 8.80

Heating Capacity (H1_{Full}) – Single or High Stage (47F), btuh : 40000

HSPF2 (Region IV) : 8.80

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.AHRI.net.org for more information about updated energy efficiency metrics.

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