



BMY9HH28 Specifications and Certifications



Models



BMY9HH28C	9000 BTU 28.1 SEER2 208/230V Minisplit Heat Pump Condenser
BMY9HH28WM	9000 BTU 28.1 SEER2 208/230V Minisplit Heat Pump Air Handler
BMY9HH28	9000 BTU 28.1 SEER2 208/230V Minisplit Heat Pump System
BMY9HH28 KIT15	9000 BTU 28.1 SEER2 208/230V Minisplit Heat Pump W/ 15 Ft Installation Kit
BMY9HH28 KIT25	9000 BTU 28.1 SEER2 208/230V Minisplit Heat Pump W/ 25 Ft Installation Kit

What's in the Box

Mini-Split System

BMY9HH28	9000 BTU 28.1 SEER2 208/230V Minisplit Heat Pump Condenser
	9000 BTU 28.1 SEER2 208/230V Minisplit Heat Pump Air Handler
	Remote Controller



Mini-Split System with Installation Kit

BMY9HH28 KIT15	9000 BTU 28.1 SEER2 208/230V Minisplit Heat Pump Condenser
	9000 BTU 28.1 SEER2 208/230V Minisplit Heat Pump Air Handler
	15 Foot 1/4 LL 3/8 SL Ductless Mini-Split Line Set
	25 Foot Stranded Ductless Mini-Split Communication Wire
	2.5" Wall Sleeve for SpeediChannel™ Line Set Covers
	1/2 x 48 Inches, #10 Gauge Electrical Whip
	Nylog Blue Gasket, Flare and Thread Sealant
	Safety Non-Fused Electrical Disconnect
	5/8in Inner Diameter Drain Hose, 20ft Length
	Adapter 5/16" x 1/4" for Ductless Mini-Split Systems
	Remote controller



BMY9HH28 KIT25	9000 BTU 28.1 SEER2 208/230V Minisplit Heat Pump Condenser
	9000 BTU 28.1 SEER2 208/230V Minisplit Heat Pump Air Handler
	25 Foot 1/4 LL 3/8 SL Ductless Mini-Split Line Set
	35 Foot Stranded Ductless Mini-Split Communication Wire
	2.5" Wall Sleeve for SpeediChannel™ Line Set Covers
	1/2 x 48 Inches, #10 Gauge Electrical Whip
	Nylog Blue Gasket, Flare and Thread Sealant
	Safety Non-Fused Electrical Disconnect
	5/8in Inner Diameter Drain Hose, 20ft Length
	Adapter 5/16" x 1/4" for Ductless Mini-Split Systems
	Remote controller



SUBMITTAL DATA SHEET

Wall Mounted Heat Pump System

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

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

Set Model BMY9HH28
15 Ft Kit Model BMY9HH28 KIT15
25 Ft Kit Model BMY9HH28 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)	15.0
Max.fuse(Outdoor)	(A)	15.0
Connection wiring		14AWG*4
Cooling		
Capacity	(Btu/h)	9000(3300~14300)
Power Input	(W)	556(180~1180)
Current	(A)	2.5(0.78~5.13)
SEER2	(Btu/W)	28.1
EER2	(Btu/W)	16.2
Heating		
Capacity	(Btu/h)	12000(5000~15200)
Power Input	(W)	907(370~1500)
Current	(A)	4.1(1.6~6.52)
HSPF2-4	(Btu/W)	11.5
COP	W/W	3.81
Heat at 17F(AHRI Rating)	(Btu/h)	9500
Heat at 5F(AHRI Rating)	(Btu/h)	10600
COP at 5F(AHRI Rating)	W/W	2.00

REFRIGERANT PIPE DATA

Throttle type	Indoor unit	N/A
	Outdoor unit	EXV
Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	41.62
Refrigerant precharge	(ft)	25.0
Additional charge for each ft	(oz/ft)	0.16
Liquid side/ Gas side(indoor)	(inch)	1/4"/3/8"
Liquid side/ Gas side(outdoor)	(inch)	1/4"/3/8"
Max. pipe length	(ft)	82.0
Max. difference in level	(ft)	32.8
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)	-22~122
Outdoor(heating)	(Deg. °F)	-22~75

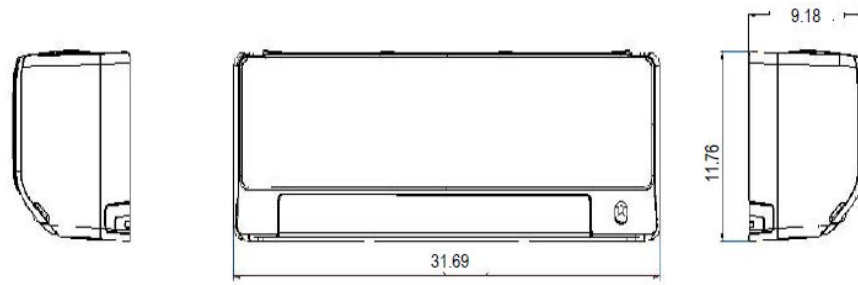
INDOOR UNIT DATA

Indoor fan motor		
Model		ZKFP-20-8-6-21
Qty		1
Input	(W)	50.00
Output	(W)	20.0
RLA	(A)	0.3
Air flow & Noise level		
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	382.35/335.29/229.41/176.47
Indoor noise level (Hi/Med/Lo)	[dB(A)]	38/33.5/23.5
Dehumidification	(L/H)	0.38
Indoor unit		
Dimension (WxDxH)	(inch)	33.40x9.18x11.76
Packing(WxDxH)	(inch)	36.22x12.20x14.57
Net/Gross weight	(lbs.)	22.71/28.88

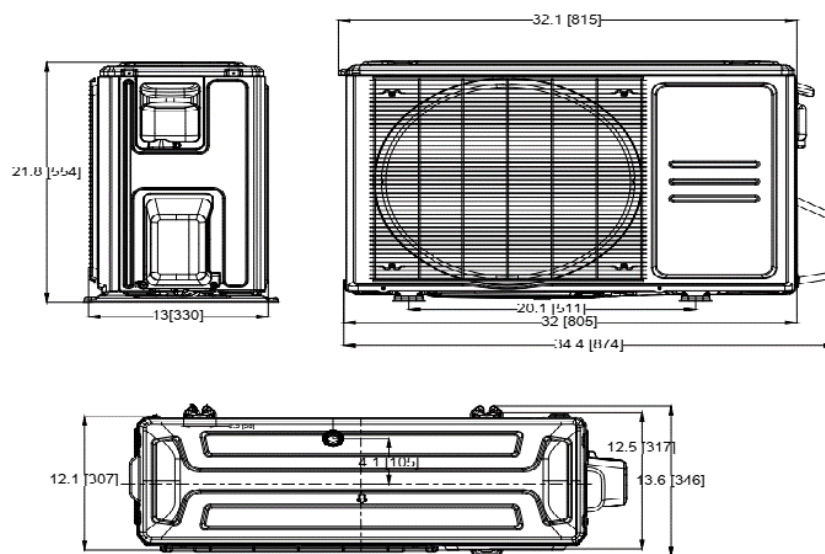
OUTDOOR UNIT DATA

Compressor		
Type		ROTARY
Model		KTN110D42UFZ
Brand		GMCC
Capacity	(Btu/h)	11823
Input	(W)	885
Rated current (RLA)	(A)	8.8
Refrigerant oil/oil charge	(ml)	VG74/350
Outdoor fan motor		
Model		ZKFN-34-10-1
Qty		1
Input	(W)	/
Output	(W)	34
RLA	(A)	0.4
Speed	(r/min)	850/680/450
Air flow & Noise level		
Outdoor air flow (Max.)	(CFM)	1324
Outdoor noise level	[dB(A)]	54.5
Outdoor unit		
Dimension (WxDxH)	(inch)	31.69x12.99x21.81
Packing (WxDxH)	(inch)	36.02x14.57x24.21
Net/ Gross weight	(lbs.)	74.07/80.25

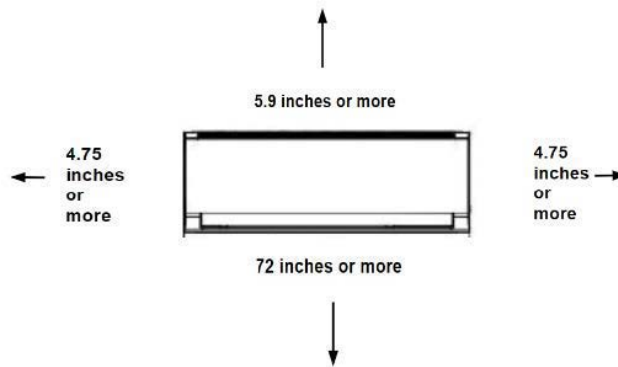
Indoor unit dimension



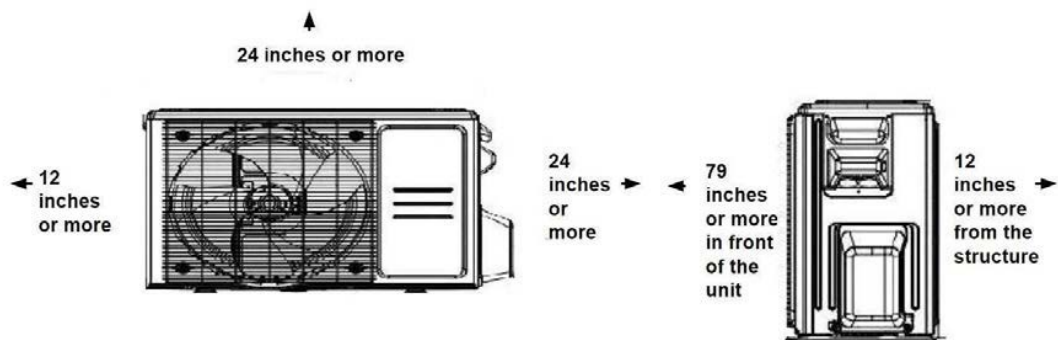
Outdoor unit dimension



Indoor unit clearance (Inches)



Outdoor unit clearance (Inches)



COOLING PERFORMANCE DATA

YS Model	Cooling		Outdoor conditions (DB)																		
	Indoor		-22°F	-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																				
BMY9HH28WM BMY9HH28C Wall mounted (208-230V)	65°F	TC	8933	9555	9747	10096	10379	10328	10672	10802	10969	11032	10865	10969	11310	11266	11514	11030	10596	9533	8463
		Input	217	280	345	382	413	478	521	587	658	697	727	762	836	951	1159	1179	1221	1327	1409
	70°F	TC	9363	10015	10347	10517	10869	10987	11128	11359	11511	11711	11473	11644	11868	11760	12044	11709	11236	10036	8899
		Input	218	280	347	376	413	487	521	584	650	705	734	770	840	948	1157	1192	1222	1340	1424
	75°F	TC	9856	10565	11007	11141	11441	11578	11826	11832	12155	12263	12166	12309	12440	12431	12691	12197	11803	10580	9401
		Input	218	280	348	375	412	482	529	580	655	702	737	774	843	957	1149	1169	1215	1348	1400
	80°F	TC	10430	11040	11563	11814	12056	12226	12396	12548	12728	12801	12874	12943	13013	13155	13289	12852	12359	11138	9841
		Input	256	278	344	376	417	486	526	580	653	689	733	781	832	1071	1145	1177	1210	1250	1285

HEATING PERFORMANCE DATA

YS Model	Heating		Outdoor conditions (DB)														
	Indoor		-22°F	-13°F	-4°F	0°F	5°F	10°F	17°F	20°F	F	32°F	5°F	40°F	47°F	50°F	57°F
	Conditions	DB															
BMY9HH28WM BMY9HH28C Wall mounted (208-230V)	60°F	TC	5793	7264	8984	10208	11246	12310	13598	14193	14644	15031	15540	15711	15896	16461	16756
		Input	1389	1400	1405	1512	1536	1616	1692	1714	1747	1755	1779	1584	1434	1361	1298
	65°F	TC	5652	7052	8706	9901	10940	11928	13240	13713	14190	14607	15117	15268	15448	15904	16315
		Input	1427	1436	1444	1546	1583	1654	1736	1763	1791	1809	1825	1631	1470	1390	1326
	70°F	TC	5493	6827	8485	9585	10621	11626	12830	13288	13737	14223	14720	14881	15028	15441	15779
		Input	1462	1475	1488	1577	1626	1704	1790	1812	1830	1854	1880	1682	1500	1429	1356
	75°F	TC	5278	6527	8103	9163	10175	11138	12329	12796	13132	13697	14116	14286	14426	14808	15211
		Input	1504	1526	1534	1632	1674	1764	1841	1868	1885	1902	1940	1735	1548	1476	1396

LEGEND

DB --- Dry Bulb

TC --- Total Net Capacity (1000 Btu/hour)

Input --- Total Power (kW)



ENERGY STAR CERTIFIED

Heat Pumps (Mini-Split)

: BMY9HH28C

Specifications

ENERGY STAR Unique ID:	2448931
Outdoor Unit Brand Name:	BLUERIDGE
Series Name:	BM series
Outdoor Unit Model Number:	BMY9HH28C
Indoor Unit Model Number:	BMY9HH28WM
Indoor Unit Brand Name:	BLUERIDGE
SEER2 (Btu/Wh):	28.1
Product Type:	HP - Mini or Multi Split
EER2 (Btu/Wh):	16.2
HSPF2 (Btu/Wh):	11.5
COP at 5°F:	2.0
Cooling Capacity (Btu/h):	9000
Heating Capacity at 47°F (Btu/h):	12000
Heating Capacity at 5°F (Btu/h):	10600
Cold Climate:	Yes
Connected Capable:	No
Meets Peak Cooling Requirements:	Yes
Tax Credit Eligible:	Yes
Refrigerant with GWP:	R-410A (GWP:2088)
ENERGY STAR Most Efficient:	No

Captured On:
04/10/2023



Certificate of Product Ratings

AHRI Certified Reference Number : 207339183 Date : 08-29-2022 Model Status : Active

AHRI Type : HRCU-A-CB-O (Mini-Split Heat Pump, with Remote Outdoor Unit Air-Source, Free Delivery)

Outdoor Unit Brand Name : BLUERIDGE

Outdoor Unit Model Number : BM99HH28C

Indoor Type : Mini-Splits (Non-Ducted)

Indoor Model Number(s) : BM99HH28WM

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 : 9000

SEER : 28.10

EER (A2) - Single or High Stage (95F) : 16.20

Heating Capacity (H12) - Single or High Stage (47F) : 11800

HSPF (Region IV) : 13.00

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 : 9000

SEER2 : 28.10

EER2 (A_{Full}) – Single or High Stage (95F) : 16.20

Heating Capacity (H1_{Full}) – Single or High Stage (47F), btuh : 12000

HSPF2 (Region IV) : 11.50

Sold in? : USA, Canada



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

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