



# BMX9DIY20 Submittal Sheet



## Models

BMX9DIY20C	9000 BTU 20 SEER2 115V DIY Minisplit Heat Pump Condenser
BMX9DIY20WM	9000 BTU 20 SEER2 115V DIY Minisplit Heat Pump Air Handler
BMX9DIY20	9000 BTU 20 SEER2 115V DIY Minisplit Heat Pump System
BMX9DIY20 KIT15	9000 BTU 20 SEER2 115V DIY Minisplit Heat Pump W/ 15 Ft Installation Kit

# What's in the Box

## Mini-Split System

<b>BMX9DIY20</b>	9000 BTU 20 SEER2 115V Mini-Split Heat Pump Condenser
	9000 BTU 20 SEER2 115V Mini-Split Heat Pump Air Handler
	16 Foot 1/4 LL 1/2 SL Ductless Mini-Split Line Set
	16' Stranded Ductless Mini-Split Communication Wire - Non-Shielded (600 Volt)
	Wall Sleeve
	Remote Controller



## Mini-Split System with Installation Kit

<b>BMX9DIY20 KIT15</b>	9000 BTU 20 SEER2 115V Mini-Split Heat Pump Condenser
	9000 BTU 20 SEER2 115V Mini-Split Heat Pump Air Handler
	16 Foot 1/4 LL 1/2 SL Ductless Mini-Split Line Set
	16' Stranded Ductless Mini-Split Communication Wire - Non-Shielded (600 Volt)
	1/2 x 48 Inches, #10 Gauge Electrical Whip
	Safety Non-Fused Electrical Disconnect
	5/8in Inner Diameter Drain Hose, 20ft Length
	Wall Sleeve
	Remote controller





## SUBMITTAL DATA SHEET

### Wall Mounted Heat Pump System

Location: \_\_\_\_\_  
Engineer: \_\_\_\_\_  
Submitted to: \_\_\_\_\_  
Submitted by: \_\_\_\_\_  
Reference: \_\_\_\_\_

Approval: \_\_\_\_\_  
Date: \_\_\_\_\_  
Construction: \_\_\_\_\_  
Unit #: \_\_\_\_\_  
Drawing #: \_\_\_\_\_

**Set Model** BMX9DIY20  
15 Ft Kit Model BMX9DIY20 KIT25

#### Certified



### SYSTEM PERFORMANCE DATA

<b>Power supply</b>		
Normal Operational Voltage	(V, Ph, Hz)	115V, 1Ph, 60Hz
<b>Electrical</b>		
Minimum circuit ampacity(Outdoor)	(A)	20.0
Max.fuse(Outdoor)	(A)	30.0
Connection wiring		14#x4//
<b>Cooling</b>		
Capacity	(Btu/h)	9000(2700~10000)
Power Input	(W)	783(120~690)
Current	(A)	6.81(1.04~6.0)
SEER2	(Btu/W)	20.0
EER2	(Btu/W)	11.5
<b>Heating</b>		
Capacity	(Btu/h)	10000(4200~10500)
Power Input	(W)	933(260~1150)
Current	(A)	8.11(2.26~10.0)
HSPF2-4	(Btu/W)	9.4
COP	W/W	3.14
Heat at 17F(H32)	(Btu/h)	7300
Heat at 5F(H42)	(Btu/h)	6400
COP at 5F(H42)	W/W	1.75

### REFRIGERANT PIPE DATA

Throttle type	Indoor unit	N/A
	Outdoor unit	Capillary
Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	27.90
Refrigerant precharge	(ft)	16.0
Additional charge for each ft	(oz/ft)	0.16
Liquid side/ Gas side(indoor)	(inch)	1/4in/1/2in
Liquid side/ Gas side(outdoor)	(inch)	1/4in/1/2in
Max. pipe length	(ft)	82.0
Max. difference in level	(ft)	32.8
Connection method		Flared
Indoor(cooling)	(Deg. °F)	60.8-89.6
Indoor(heating)	(Deg. °F)	32-86
Outdoor(cooling)	(Deg. °F)	5-122
Outdoor(heating)	(Deg. °F)	5-75

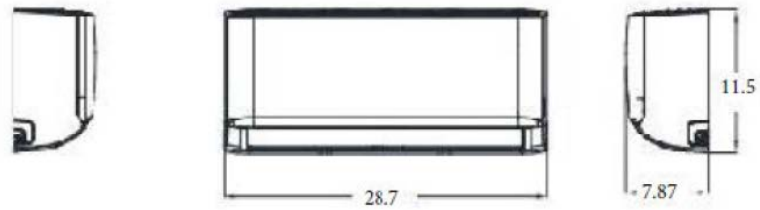
### INDOOR UNIT DATA

<b>Indoor fan motor</b>		
Model		ZKFP-20-8-113
Qty		1
Input	(W)	35.00
Output	(W)	
RLA	(A)	0.3
<b>Air flow &amp; Noise level</b>		
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	311.76/238.82/170.00/137.06
Indoor noise level (Hi/Med/Lo)	[dB(A)]	38.5/34/22.5
<b>Dehumidification</b>	(L/H)	1
<b>Indoor unit</b>		
Dimension (WxDxH)	(inch)	28.70x7.87x11.50
Packing(WxDxH)	(inch)	32.68x16.14x13.58
Net/Gross weight	(lbs.)	17.64/22.71

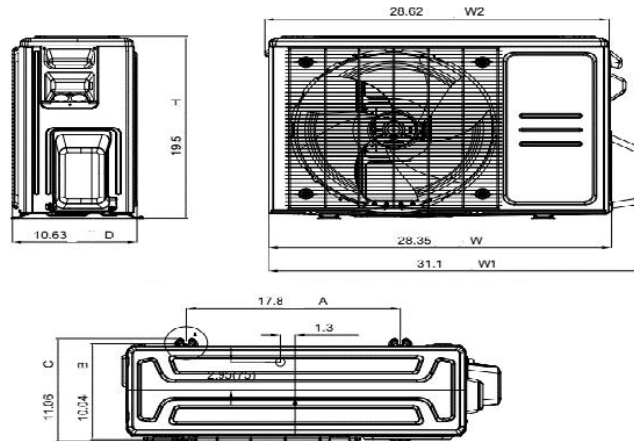
### OUTDOOR UNIT DATA

<b>Compressor</b>		
Type		ROTARY
Model		KSK103D33UEZ3
Brand		GMCC
Capacity	(W)	2035/3255
Input	(W)	325/826
Rated current (RLA)	(A)	13
Refrigerant oil/oil charge	(ml)	ESTER OIL VG74 310
<b>Outdoor fan motor</b>		
Model		ZKFN-34-10-1-3
Qty		1
Input	(W)	/
Output	(W)	
RLA	(A)	0.5
<b>Air flow &amp; Noise level</b>		
Outdoor air flow (Max.)	(CFM)	1059
Outdoor noise level	[dB(A)]	55.0
<b>Outdoor unit</b>		
Dimension (W×D×H)	(inch)	28.35x10.63x19.49
Packing (W×D×H)	(inch)	32.87x11.81x21.26
Net/ Gross weight	(lbs.)	54.45/58.20

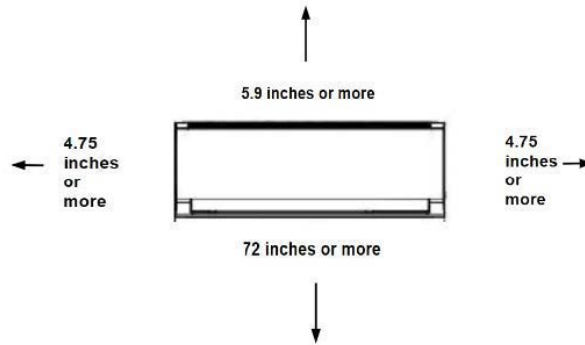
Indoor unit dimension (Inches)



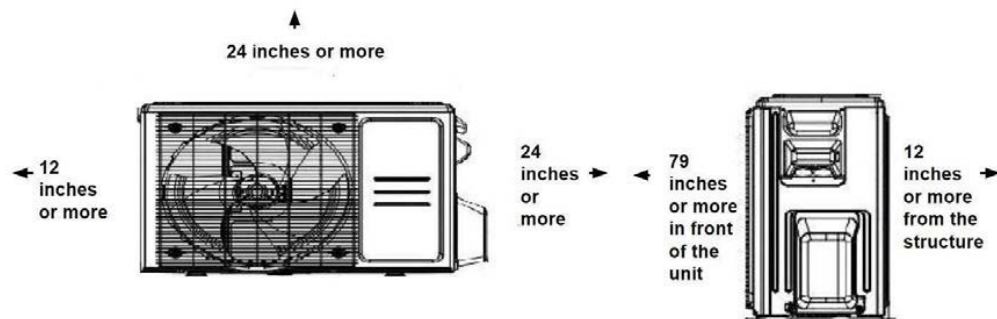
Outdoor unit dimension (Inches)



Indoor unit clearance (Inches)



Outdoor unit clearance (Inches)



# COOLING PERFORMANCE DATA

Model	Cooling		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
	Indoor Conditions DB																
BMX9DIY20WM BMX9DIY20 Wall mounted (208-230V)	65°F	TC	10018	11115	10436	9791	9453	9569	9501	9602	9817	9252	8728	8468	7847	7335	6286
		Input	644	694	707	708	724	741	746	753	776	855	953	985	936	1010	963
	70°F	TC	10523	11700	10985	10231	10003	10030	10076	10129	10366	9688	9130	8830	8303	7640	6561
		Input	638	696	714	709	723	733	746	748	778	845	952	965	944	994	957
	75°F	TC	11065	12226	11637	10770	10642	10637	10595	10730	10809	10252	9661	9314	8787	7984	6928
		Input	635	696	726	715	736	734	744	752	767	844	965	970	952	982	970
	80°F	TC	11611	12829	12173	11433	11085	11173	11259	11343	11426	10803	10191	9733	9172	8369	7301
		Input	630	700	716	722	730	740	750	761	772	937	967	963	947	973	977

# HEATING PERFORMANCE DATA

Model	Heating		5°F	10°F	17°F	20°F	25°F	32°F	35°F	40°F	47°F	50°F	57°F
	Indoor Conditions DB												
BMX9DIY20WM BMX9DIY20 Wall mounted (208-230V)	60°F	TC	6794	7396	7987	8301	8537	8822	9188	10319	11403	11586	11892
		Input	1013	1042	1078	1075	1072	1076	1058	1128	1147	1130	1095
	65°F	TC	6584	7166	7762	8043	8328	8607	8877	10018	11017	11260	11579
		Input	1041	1068	1107	1100	1094	1101	1091	1160	1179	1159	1122
	70°F	TC	6411	6937	7543	7832	8117	8397	8652	9755	10676	10943	11209
		Input	1067	1098	1130	1127	1127	1127	1124	1188	1216	1182	1155
	75°F	TC	6129	6688	7279	7495	7776	8103	8280	9365	10227	10505	10795
		Input	1094	1136	1167	1162	1164	1165	1152	1220	1254	1221	1186

# 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 : 212360181    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 : BMX9DIY20C

Indoor Type : Mini-Splits (Non-Ducted)

Indoor Model Number(s) : BMX9DIY20WM

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 : 20.00

EER (A2) - Single or High Stage (95F) : 11.50

Heating Capacity (H12) - Single or High Stage (47F) : 10000

HSPF (Region IV) : 10.30

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<sub>Full</sub>) – Single or High Stage (95F), btuh : 9000

SEER2 : 20.00

EER2 (A<sub>Full</sub>) – Single or High Stage (95F) : 11.50

Heating Capacity (H1<sub>Full</sub>) – Single or High Stage (47F), btuh : 10000

HSPF2 (Region IV) : 9.40

Sold in? : USA, Canada

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†"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](http://www.AHRInet.org) for more information about updated energy efficiency metrics.

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