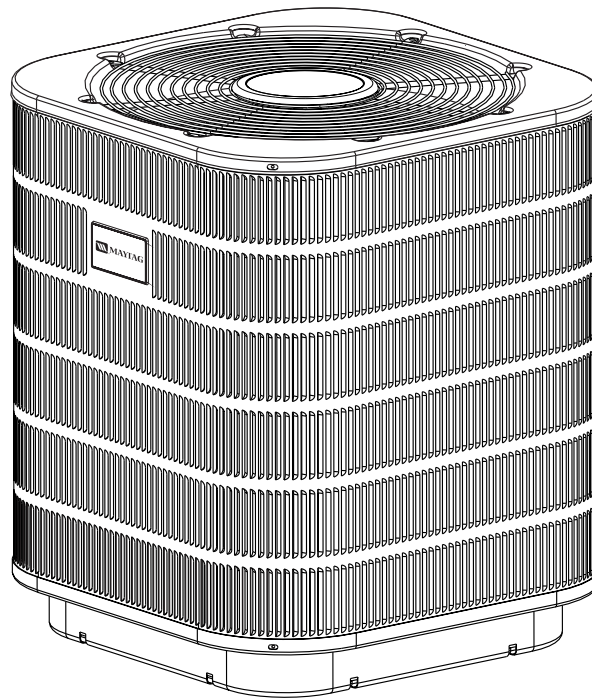




TECHNICAL SPECIFICATIONS

Model SA1BC Series



M1000S Product Line

**Extra High Efficiency Air Conditioner
12+ SEER — 1-1/2 - 5 Ton Capacity**

- **10 YEAR
WARRANTY**
- **WORRY-FREE
PERFORMANCE**
- **1 YEAR
DEPENDABILITY
PROMISE**



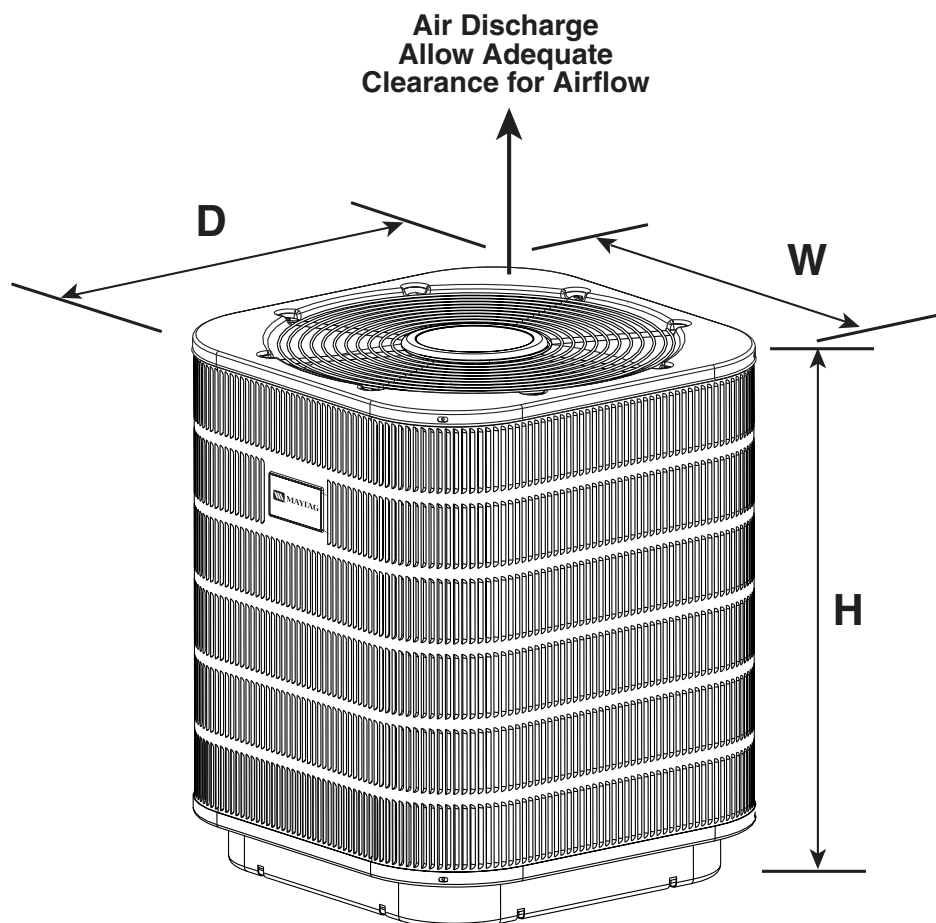
The SA1BC Series of air conditioners offers exceptional performance from a small, compact package. The unit, when combined with our engineered coils or air handlers, offers a full line of quality, split system cooling equipment. Units are ideally sized for slab or rooftop mounting.

Features and Benefits

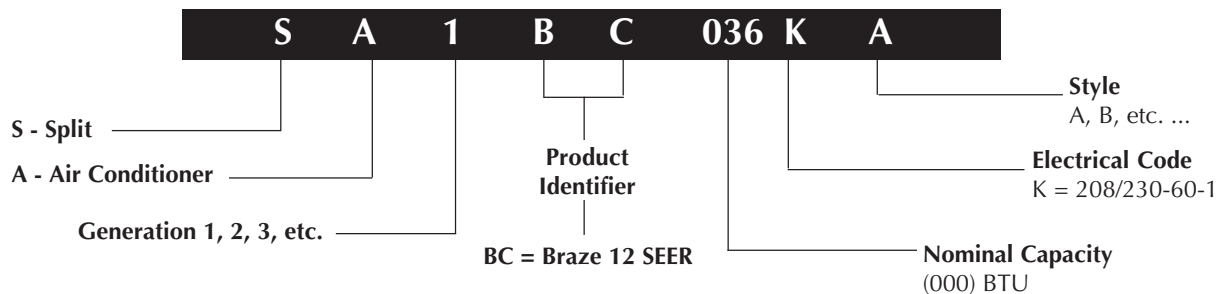
- **Durable attractive stainless steel cabinet** – Durable brushed stainless steel protects the coil from yard hazards and extreme weather. Unit is trimmed in a silicone-protected polyester finish with a 950 hour salt spray that resists corrosion 50% better than comparable units.
- **Quiet Plus™ Compressor Sound Blanket** – Engineered to significantly reduce unwanted compressor noise.
- **Copper Tube / Aluminum Fin Coils** – Coils are designed to optimize heat transfer, minimize size and cost, and increase durability and reliability.
- **Permanently Lubricated Motor** – A heavy duty PSC motor for long lasting reliability and quiet operation. Requires no maintenance and is completely protected from rain and snow.
- **Full Service Valves** – These brass valves are easily accessible and simplify servicing of the refrigeration system.
- **Removable Top Grille Assembly** – Allows ease of service from the top without disconnecting fan motor leads.
- **One Piece Top/Orifice** – Designed for maximum airflow and quiet operation.
- **2-1/2" Pedestal Base** – The sturdy base keeps the bottom of the coil out of harms way. Secondly, the base has weep holes along the edge to allow the water from rain to flow away from the unit.
- **Five Minute Restart Time Delay** – When the unit shuts down, a five minute delay keeps the unit from restarting, eliminating the highest cause for compressor failure.
- **Easy Compressor and Control Access** – Designed to make servicing easier for the contractor, access panels are provided to all controls and the compressor from the side of the unit.
- **10 Year Residential Parts and 1 Year Dependability Promise** – The best warranty in the business.

DIMENSIONS/OUTDOOR SECTION

SA1BC	018	024	030	036	042	048	060
H	22 1/2	26 1/2	30 1/2	34 1/2	30 1/2	34 1/2	42 1/2
W	22 1/2	22 1/2	22 1/2	22 1/2	30 1/2	30 1/2	30 1/2
D	22 1/2	22 1/2	22 1/2	22 1/2	30 1/2	30 1/2	30 1/2



IDENTIFICATION CODE



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

12 SEER — Extra High Efficiency — Single Phase

Model Number SA1BC		018	024	030	036	042	048	060	
Electrical Data	Volts-Cycles-Phase (1)	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	
	Total Amps	10.3	12.8	14.7	17.8	19.8	21.8	29.4	
	Delay Fuse Max. (2)	20	25	30	35	40	45	60	
	Min. Circuit Ampacity	12.8	15.8	18.1	21.9	24.4	26.9	36.4	
Condenser Data	Coil	Area	8.2	9.9	11.5	13.2	17.7	20.3	25.4
		Rows-FPI	1-16	1-18	1-22	1-22	1-22	1-22	1-22
		Tube Dia	3/8" O.D.	3/8" O.D.	3/8" O.D.	3/8" O.D.	3/8" O.D.	3/8" O.D.	3/8" O.D.
	Fan Motor	Type	PSC	PSC	PSC	PSC	PSC	PSC	PSC
		Amps	0.34	0.67	1.1	1.4	1.4	1.4	1.4
		Watts-HP	37.3 - 1/20	74.6 - 1/10	93.3 - 1/8	186.5 - 1/4	186.5 - 1/4	186.5 - 1/4	186.5 - 1/4
	Fan Blade	Dia-# Blades	18"- 3	18"- 3	18"- 3	18"- 4	24"- 3	24"- 3	24"- 3
		SCFM	1630	1980	2345	2800	4000	4000	4000
	Compressor Data	RLA	10	12.1	13.6	16.4	18.4	20.4	28
		LRA	41	54	67	83	95	109	148
Refrigerant suction line O.D.(all length of liquid line are 3/8" O.D.)	0-24 ft.	5/8" (3)	3/4"	3/4"	3/4" (4)	7/8"	7/8"	7/8"	
	25-39 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	1-1/8" (5)	
	40-75 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	1-1/8" (5)	
Refrigerant charge (R-22) in ounces for outdoor unit, indoor unit and 15' lineset.		61	63	68	82	102	110	155	
Weight	Net	96	103.5	128	142	174	186	238	
Approximate (lbs.)	Ship	105	112.5	137	151	186	198	250	

COPPER WIRE SIZE — AWG (1% Voltage Drop)				
Supply Wire Length-Feet				Supply Circuit Ampacity
200	150	100	50	
6	8	10	14	15
4	6	8	12	20
4	6	8	10	25
4	4	6	10	30
3	4	6	8	35
3	4	6	8	40
2	3	4	6	45
2	3	4	6	50

Wire Size based on N.E.C. for 60° type copper conductors.

* Values shown are most severe and may vary slightly depending on the make of the compressor supplied.

(1) Operating Voltage Range: 187v min. — 253v max.

(2) HACR Type Circuit Breakers may be used.

(3) Requires 3/4" to 5/8" reducer from unit to line.

(4) Requires 7/8" to 3/4" reducer from line to unit.

(5) Requires 7/8" to 1-1/8" reducer from line to unit.

SYSTEM HEATING & COOLING CAPACITIES

12 SEER — Extra High Efficiency — Single Phase

With this Coil					
Outdoor Unit Number SA1BC	Indoor Unit Number C3BA-	BTUH	SEER	SCFM	Required Orifice (1)
018KA	024(U,C)-A+TDR (2)	17100	12	600	0.055
018KA	030(U,C)-A (2)	18000	12	600	0.055
018KA	030(U,C)-B+TDR	18000	12	600	0.055
024KA	030(U,C)-A (2)	23600	12	800	0.060
024KA	030(U,C)-B	23600	12	800	0.060
030KA	036(U,C)-A/B (2)	28600	12	1025	0.065
036KA	043(U,C)-A	34600	12	1150	0.075
036KA	042(U,C)-B (2)	34600	12	1250	0.075
042KA	048(U,C)-B+TDR (2)	40000	12	1250	0.077
042KA	048(U,C)-C+TDR	40000	12	1250	0.077
048KA	050(C)-B	46000	12	1600	0.082
048KA	060(U,C)-C (2)	46000	12	1600	0.082
060KA	060(U,C)-C+TDR (2)	56000	12	1700	0.093

With this Air Handler					
Outdoor Unit Number SA1BC	Indoor Unit Number B3BM-	BTUH	SEER	SCFM	Required Orifice (1)
018KA	024KAB	17100	12	600	0.055
018KA	030K(A,B)B	18000	12	600	0.055
024KA	030K(A,B)B	23600	12	800	0.060
030KA	042KBB	28600	12	875	0.065
036KA	042K-BB	34600	12	1250	0.075
042KA	048KBB	40000	12	1425	0.077
048KA	060KCB	46000	12	1730	0.082
060KA	066KCB	56000	12	1600	0.099

(1) Orifice supplied with outdoor unit.

(2) Available as horizontal coil.

See current ARI Directory for certified combinations and ratings.

ACCESSORIES - CONDENSING UNIT

Start Assist Kit - 912933

Provides additional starting torque for the compressor motor when operating with low line voltage or high operating temperatures.

Fan Delay Kit (TDR)

911758 - 80 second fan delay

Outdoor Thermostat - 913852

Two stage logic provides ability to lock out electric strips down to balance point and bring on in stages.

SYSTEM HEATING & COOLING CAPACITIES

13 SEER — Extra High Efficiency

With this Coil					
Outdoor Unit Number SA1BC-	Indoor Unit Number C3BA-	BTUH	SEER	SCFM	Required Orifice (1)
018KA	030(U,C)-B+TDR+VSB	18200	13	720	0.055
024KA	030(U,C)-B+VSB	24000	13	800	0.060
024KA	036(U,C)-B+VSB (2)	24000	13	800	0.060
030KA	036(U,C)-B+VSB (2)	29000	13	1060	0.065
036KA	042(U,C)-B+VSB (2)	35000	13	1185	0.075
042KA	048(U,C)-B+TDR+VSB (2)	40500	13	1185	0.077
042KA	048(U,C)-C+TDR+VSB	41000	13	1225	0.077
048KA	060(U,C)-C+VSB (2)	46500	13	1555	0.082
060KA	060(U,C)-C+TDR+VSB (2)	56000	13	1655	0.093

With this Air Handler					
Outdoor Unit Number SA1BC-	Indoor Unit Number B3B(M,V)-	BTUH	SEER	SCFM	Required Orifice (1)
018KA	030K-B+VSB	18200	13	720	0.055
024KA	030K-B+VSB	24000	13	800	0.060
030KA	042K-B+VSB	29000	13	860	0.065
036KA	042K-B+VSB	35000	13	1185	0.075
042KA	048K-B+VSB	40500	13	1375	0.077
042KA	048K-C+VSB	41000	13	1465	0.077
048KA	060K-C+VSB	46500	13	1775	0.082
060KA	066K-C+VSB	56500	13	1665	0.099

With this Air Handler					
Outdoor Unit Number SA1BC-	Indoor Unit Number B3VM-	BTUH	SEER	SCFM	Required Orifice (1)
018KA	036K-B	18200	13	720	0.055
024KA	036K-B	24000	13	800	0.060
030KA	048K-B	29000	13	860	0.065
036KA	048K-B	35000	13	1185	0.075
042KA	048K-B	40500	13	1375	0.077
042KA	048K-C	41000	13	1465	0.077
048KA	060K-C	46500	13	1775	0.082
060KA	066K-C	56500	13	1665	0.099

(1) Orifice supplied with outdoor unit.

(2) Available as C3BH multi-position coil.

See current ARI Directory for certified combinations and ratings.



CERTIFICATION APPLIES ONLY
WHEN THE COMPLETE
SYSTEM IS LISTED
WITH ARI

We Encourage
Professionalism
Through Technician
Certification by NATE



Before purchasing this appliance, read important energy cost and efficiency information available from your retailer. Specifications and illustrations subject to change without notice and without incurring obligations.

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