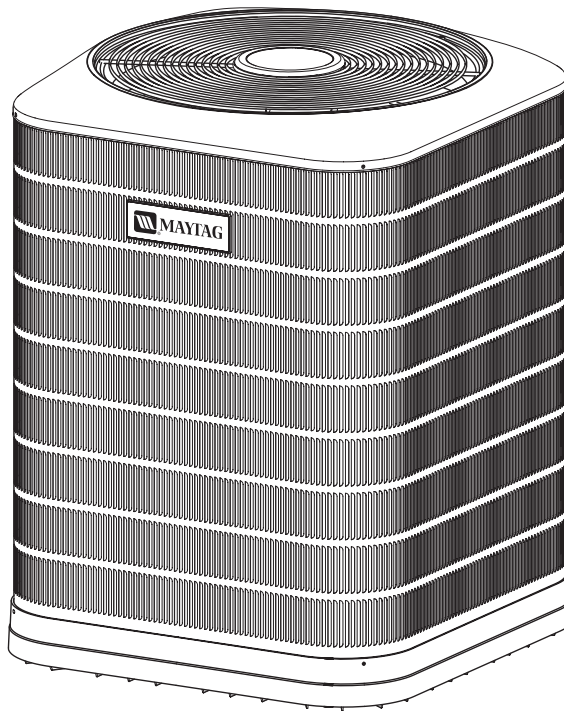




TECHNICAL SPECIFICATIONS

Model SA4BD Series



M1000S Product Line

**R-410A High Efficiency Air Conditioner
13+ SEER — 1.5 - 5 Ton Capacity**

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



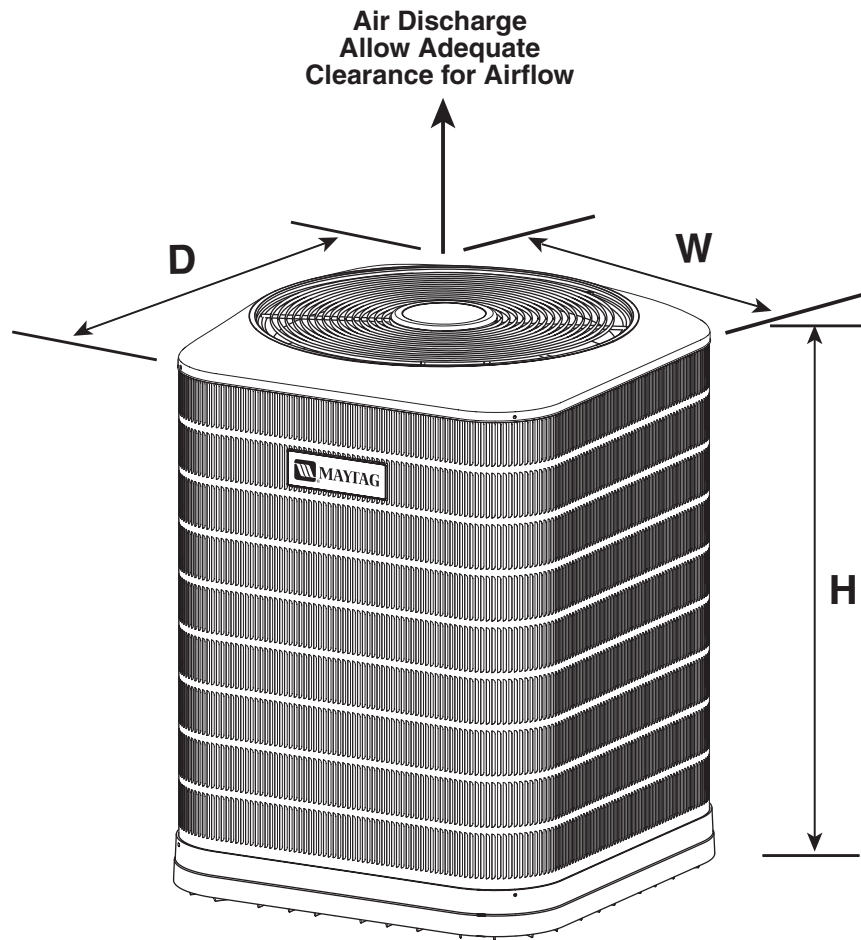
The SA4BD Series of air conditioners offers exceptional performance. The unit, when combined with our engineered coils or air handlers, offers a full line of quality, split system cooling equipment. The SA4BD is rated at 13 SEER when matched with our multi speed air handler or furnace. When matched with our variable speed air handler, or our variable speed blower kits, the SA4BD is rated up to 14 SEER.

Features and Benefits

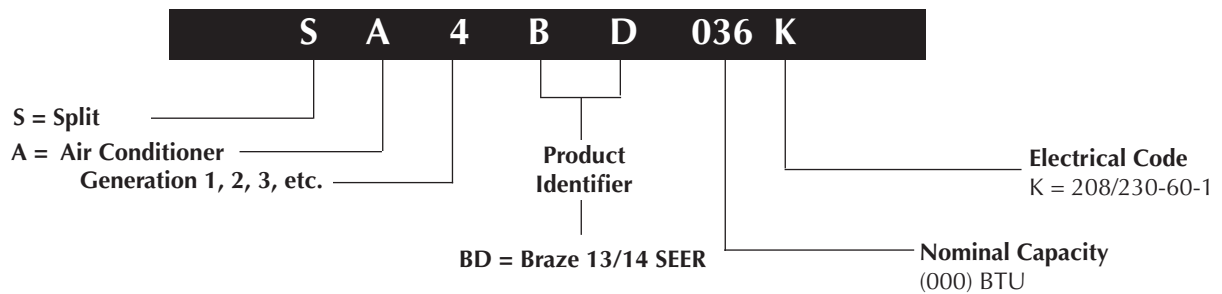
- **SmartCool™ 410™ Refrigerant (R-410A)** – Earth friendly non-ozone depleting refrigerant.
- **Durable Attractive Stainless Steel Cabinet** – Durable brushed stainless steel protects the coil from yard hazards and extreme weather. Unit is trimmed in a silicone-protected polyester finish with a 950 hour salt spray that resists corrosion 50% better than comparable units.
- **Quiet Plus™ Compressor Sound Blanket** – Engineered to significantly reduce unwanted 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.
- **Low Pressure Switch** – Loss of charge protection ensures long compressor life. Auto-reset feature prevents nuisance service visits.
- **High Pressure Switch** – Protects against abnormally high system pressures. Auto-reset feature prevents nuisance service visits.
- **Liquid Line Filter / Drier** – Included with unit, field installed.
- **One Piece Top/Orifice** – Designed for maximum airflow and quiet operation.
- **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 Warranty and 1 Year Dependability Promise** – The best warranty in the business.

DIMENSIONS/OUTDOOR SECTION

SA4BD-	018K	024K	030K	036K	042K	048K	060K
H	36 1/4	33	37	41	41	45	45
W	23 1/4	31 1/4	31 1/4	31 1/4	31 1/4	31 1/4	31 1/4
D	23 1/4	31 1/4	31 1/4	31 1/4	31 1/4	31 1/4	31 1/4



IDENTIFICATION CODE



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

13+ SEER — High Efficiency — Single Phase

Model Number SA4BD-		018K	024K	030K	036K	042K	048K	060K	
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	9.3	14.44	15.08	17.64	19.32	23.16	27.64	
	Delay Fuse Max. (2)	20	30	30	35	40	45	50	
	Min. Circuit Ampacity	11.54	17.8	18.6	21.8	23.8	28.6	34.2	
Condenser Data	Coil	Area	13.2	17.5	20.3	22.8	22.8	25.4	25.4
		Rows-FPI	1 - 22	1 - 22	1 - 22	1 - 22	1 - 22	1 - 22	2 - 16
		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	1	1	1	1.4	1.4	1.4
		Watts-HP	0.25	0.25	0.25	0.25	0.25	0.25	0.25
	Fan Blade	Dia-# Blades	18" - 3	24" - 2	24" - 2	24" - 2	24" - 2	24" - 2	24" - 2
		SCFM	2600	3000	3200	3300	3600	3800	3800
	Compressor Data	RLA	10	15	15.7	18.6	20	24.3	29.3
		LRA	48	58.3	73	77	112	117	134
Refrigerant suction line O.D.(all length of liquid line are 3/8" O.D.)	0-24 ft.	3/4"	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	
	25-39 ft.	3/4"	3/4"	3/4"	7/8" (3)	7/8"	7/8"	1-1/8" (4)	
	40-75 ft.	3/4"	3/4"	3/4"	7/8" (3)	7/8"	7/8"	1-1/8" (4)	
Refrigerant charge (R-410A) in ounces for outdoor unit, indoor unit and 15' lineset.		83	96	117	125	144	149	248	
Weight	Net	157	166	171	176	176	181	223	
Approximate (lbs.)	Ship	165	175	180	185	185	190	235	

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

(2) HACR Type Circuit Breakers may be used.

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

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

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.

SYSTEM HEATING & COOLING CAPACITIES

13 SEER — High Efficiency — Single Phase

Outdoor Unit Model Number SA4BD	Indoor Unit C5B(A,H)-	BTUH	SEER	EER	SCFM	Required Orifice (1)
018K	024(U,C)-A	18000	13	11.6	550	0.049
024K	024(U,C)-(A,B)	24000	13	12.3	800	0.055
030K	030(U,C)-(A,B)	30000	13	12.3	950	0.062
036K	036(U,C)-B	34400	13	12.3	1100	0.069
042K	042(U,C)-B	41600	13	12.1	1300	0.073
048K	048(U,C)-(B,C)	48000	13	12.1	1400	0.082
060K	060(U,C)-C	60000	13	11.5	1700	0.087

Outdoor Unit Model Number SA4BD	Indoor Unit B5BM	BTUH	SEER	EER	SCFM	Required Orifice (1)
018K	024K,A	18,000	13	11.6	550	0.049
024K	024K,A	24000	13	12.3	800	0.055
024K	024K,B	24000	13	12.3	800	0.055
030K	030K,A	30000	13	12.3	950	0.062
030K	030K,B	30000	13	12.3	950	0.062
036K	036K,B	34400	13	12.3	1100	0.069
042K	042K,B	41000	13	12.1	1300	0.073
048K	048K,C	48000	13	12.1	1400	0.082
060K	060K,C	60000	13	11.5	1700	0.087

¹ Orifice supplied with outdoor unit.

See current ARI Directory for certified combinations and ratings. All ratings are with time delay relay.

14 SEER — High Efficiency — Single Phase

Outdoor Unit Model Number SA4BD	Indoor Unit C5B(A,H)-	BTUH	SEER	EER	SCFM	Required Orifice (1)
018K	024(C,U)-B+VSB-B	18400	14	12.8	550	0.049
024K	024(C,U)-B+VSB-B	24400	14	13.8	800	0.055
030K	030(C,U)-B+VSB-B	30400	14	13.6	950	0.062
036K	036(C,U)-B+VSB-B	35000	14	13.4	1100	0.069
042K	048(C,U)-C+VSB-C	42500	14	13.4	1300	0.073
048K	048(C,U)-C+VSB-C	48500	14	13.1	1400	0.082
060K	060(C,U)-C+VSB-C	60500	14	12.1	1700	0.087

Outdoor Unit Model Number SA4BD	Indoor Unit B5VM	BTUH	SEER	EER	SCFM	Required Orifice (1)
018K	024K-B	18400	14	12.8	550	0.049
024K	024K-B	24400	14	13.8	800	0.055
030K	030K-B	30400	14	13.6	950	0.062
036K	036K-B	35000	14	13.4	1100	0.069
042K	048K-C	42500	14	13.4	1300	0.073
048K	048K-C	48500	14	13.1	1400	0.082
060K	060K-C	60500	14	12.1	1700	0.087

¹ Orifice supplied with outdoor unit.

See current ARI Directory for certified combinations and ratings. All ratings are with time delay relay.

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



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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