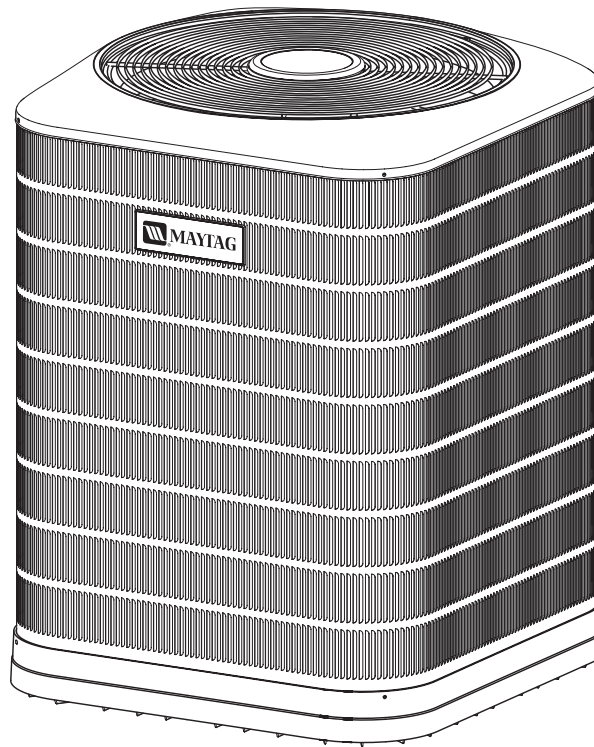




## TECHNICAL SPECIFICATIONS

*Model SA2BD Series*



M1000S Product Line

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



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



The SA2BD 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 SA2BD 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 SA2BD is rated up to 14 SEER.

#### 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 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.
- **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.



# PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

## 13+ SEER — High Efficiency — Single Phase

Model Number SA2BD-		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	8.9	12.3	16.7	17.0	17.8	22.9	29.6	
	Delay Fuse Max. (2)	15	25	35	35	35	45	60	
	Min. Circuit Ampacity	11.1	15.2	20.6	21.0	21.9	28.3	36.7	
Component Data	Coil	Area	11.49	13.22	20.33	22.88	25.42	25.42	25.42
		Rows-FPI	1 - 22	1 - 22	1 - 22	1 - 22	1 - 22	1 - 22	2 - 18
		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	1.00	1.00	1.40	1.40	1.40
		HP	1/20	1/10	1/4	1/4	1/4	1/4	1/4
	Fan Blade	Dia-# Blades	18" - 2	18" - 3	24" - 2	24" - 2	24" - 2	24" - 2	24" - 2
		SCFM	1410	1985	3000	3000	4000	4000	4000
	Compressor Data	RLA	9	12	16	16	16	22	28
		LRA	40	54	68	77	77	97	141
Refrigerant suction line- Length/O.D. (Liq. Line All Lengths - 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"	3/4"	7/8"	7/8"	7/8"	
	40-75 ft.	3/4"	3/4"	3/4"	7/8" (3)	7/8"	1-1/8" (4)	1-1/8" (4)	
Refrigerant Charge in Ounces (Outdoor unit, Indoor Unit 15' Line Set)		80	98	116	116	170	147	232	
Weight Approximate (lbs.)	Net	143	152	162	171	219	219	276	
	Ship	150	160	170	180	230	230	290	

(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.

## 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.

### Variable Speed Blower Kit (VSB)

**903756A** - Furnace "B" cab. & "C" cab.

**903764B** - Air Handler "B" cab.

**903965B** - Air Handler "C" cab.

### Fan Delay Kit (TDR)

**911758** - 80-second fan delay

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	Indoor Piston Coil	Cooling Capacity BTUH	SEER	EER	SCFM	Orifice
018K	C5B(A,H)-024(C,U)-A+TDR+LLS	18,000	13.0	12.1	600	0.050
018K	C5B(A,H)-025(C,U)-A+TDR+LLS	18,000	13.0	12.1	600	0.050 (1)
024K	C5B(A,H)-025(C,U)-A+TDR+LLS	24,000	13.0	11.9	750	0.059
024K	C5B(A,H)-025(C,U)-B+TDR+LLS	24,000	13.0	11.9	750	0.059
030K	C5B(A,H)-030(C,U)-A+TDR+LLS	29,000	13.0	11.6	1,000	0.067
030K	C5B(A,H)-030(C,U)-B+TDR+LLS	29,000	13.0	11.6	1,000	0.067
036K	C5B(A,H)-036(C,U)-B+TDR+LLS	35,000	13.0	12.0	1,100	0.075
042K	C5B(A,H)-042(C,U)-B+TDR+LLS	40,000	13.0	12.1	1,400	0.080
048K	C5B(A,H)-048(C,U)-B+TDR+LLS	47,000	13.0	11.6	1,400	0.089
048K	C5B(A,H)-049(C,U)-C+TDR+LLS	47,000	13.0	11.6	1,400	0.089
060K	C5B(A,H)-060(C,U)-C+TDR+LLS	58,000	13.0	11.6	1,650	0.099

Outdoor Unit	Indoor Piston Air Handler B5BM-	Cooling Capacity BTUH	SEER	EER	SCFM	Orifice
018K	024K-A+LLS	18,000	13.0	12.1	600	0.050
018K	025K-A+LLS	18,000	13.0	12.1	600	0.050 (1)
024K	025K-A+LLS	24,000	13.0	11.9	750	0.059
024K	025K-B+LLS	24,000	13.0	11.9	750	0.059
030K	030K-A=LLS	29,000	13.0	11.6	1,000	0.067
030K	030K-B+LLS	29,000	13.0	11.6	1,000	0.067
036K	036K-B+LLS	35,000	13.0	12.0	1,100	0.075
042K	042K-B+LLS	40,000	13.0	12.1	1,400	0.080
048K	048K-C+LLS	47,000	13.0	11.6	1,400	0.089
048K	049K-C+LLS	47,000	13.0	11.6	1,400	0.089
060K	060K-C+LLS	58,000	13.0	11.6	1,650	0.099

Outdoor Unit	Indoor TXV Coil	Cooling Capacity BTUH	SEER	EER	SCFM
018K	C5B(A,H)-T24(U,C)-A+TDR	18,000	13.0	12.1	600
018K	C5B(A,H)-T25(U,C)-A+TDR	18,000	13.0	12.1	600
024K	C5B(A,H)-T25(U,C)-A+TDR	24,000	13.0	11.9	750
024K	C5B(A,H)-T25(U,C)-B+TDR	24,000	13.0	11.9	750
030K	C5B(A,H)-T30(U,C)-A+TDR	29,000	13.0	11.6	1,000
030K	C5B(A,H)-T30(U,C)-B+TDR	29,000	13.0	11.6	1,000
036K	C5B(A,H)-T36(U,C)-B+TDR	35,000	13.0	12.0	1,100
042K	C5B(A,H)-T42(U,C)-B+TDR	40,000	13.0	12.1	1,400
048K	C5B(A,H)-T48(U,C)-B+TDR	47,000	13.0	11.6	1,400
048K	C5B(A,H)-T49(U,C)-C+TDR	47,000	13.0	11.6	1,400
060K	C5B(A,H)-T60(U,C)-C+TDR	58,000	13.0	11.6	1,650

Outdoor Unit	Indoor TXV Air Handler B5BM-	Cooling Capacity BTUH	SEER	EER	SCFM
018K	T24K-A	18,000	13.0	12.1	600
018K	T25K-A	18,000	13.0	12.1	600
024K	T25K-A	24,000	13.0	11.9	750
024K	T25K-B	24,000	13.0	11.9	750
030K	T30K-A	29,000	13.0	11.6	1,000
030K	T30K-B	29,000	13.0	11.6	1,000
036K	T36K-B	35,000	13.0	12.0	1,100
042K	T42K-B	40,000	13.0	12.1	1,400
048K	T48K-C	47,000	13.0	11.6	1,400
048K	T49K-C	47,000	13.0	11.6	1,400
060K	T60K-C	58,000	13.0	11.6	1,650

(1) Field Supplied Piston

TDR = Time Delay Relay, included with Maytag furnace and air handler.

See current ARI Directory for certified combinations and ratings.

# SYSTEM HEATING & COOLING CAPACITIES (continued)

## 14 SEER — High Efficiency — Single Phase

Outdoor Unit	Indoor Piston Coil	Cooling Capacity BTUH	SEER	EER	SCFM	Orifice
018K	C5B(A,H)-024(U,C)-B+TDR+LLS+VSB-B	18,500	14.0	13.7	720	0.050
024K	C5B(A,H)-025(U,C)-B+TDR+LLS+VSB-B	24,400	14.0	13.3	720	0.059
030K	C5B(A,H)-030(U,C)-B+TDR+LLS+VSB-B	29,600	14.0	13.4	960	0.067
036K	C5B(A,H)-036(U,C)-B+TDR+LLS+VSB-B	35,400	14.0	12.9	1,060	0.075
042K	C5B(A,H)-049(U,C)-C+TDR+LLS+VSB-C	40,500	14.0	12.5	1,375	0.080 (1)
048K	C5B(A,H)-049(U,C)-C+TDR+LLS+VSB-C	48,000	14.0	12.1	1,380	0.089
060K	C5B(A,H)-060(U,C)-C+TDR+LLS+VSB-C	58,500	14.0	12.4	1,665	0.099

Outdoor Unit	Indoor Piston Air Handler B5VM-	Cooling Capacity BTUH	SEER	EER	SCFM	Orifice
018K	024K-B+LLS	18,500	14.0	13.7	720	0.050
024K	025K-B+LLS	24,400	14.0	13.3	720	0.059
030K	030K-B+LLS	29,600	14.0	13.4	960	0.067
036K	036K-B+LLS	35,400	14.0	12.9	1,060	0.075
042K	049K-C+LLS	40,500	14.0	12.5	1,375	0.080 (1)
048K	049K-C+LLS	48,000	14.0	12.1	1,380	0.089
060K	060K-C+LLS	58,500	14.0	12.4	1,665	0.099

Outdoor Unit	Indoor Piston Air Handler B5BM-	Cooling Capacity BTUH	SEER	EER	SCFM	Orifice
018K	024K-B+LLS+VSB-B	18,500	14.0	13.7	720	0.050
024K	025K-B+LLS+VSB-B	24,400	14.0	13.3	720	0.059
030K	030K-B+LLS+VSB-B	29,600	14.0	13.4	960	0.067
036K	036K-B+LLS+VSB-B	35,400	14.0	12.9	1,060	0.075
042K	049K-C+LLS+VSB-C	40,500	14.0	12.5	1,375	0.080 (1)
048K	049K-C+LLS+VSB-C	48,000	14.0	12.1	1,380	0.089
060K	060K-C+LLS+VSB-C	58,500	14.0	12.4	1,665	0.099

Outdoor Unit	Indoor TXV Coil	Cooling Capacity BTUH	SEER	EER	SCFM
018K	C5B(A,H)-T24(U,C)-B+TDR+VSB-B	18,500	14.0	13.7	720
024K	C5B(A,H)-T25(U,C)-B+TDR+VSB-B	24,400	14.0	13.3	720
030K	C5B(A,H)-T30(U,C)-B+TDR+VSB-B	29,600	14.0	13.4	960
036K	C5B(A,H)-T36(U,C)-B+TDR+VSB-B	35,400	14.0	12.9	1,060
042K	C5B(A,H)-T49(U,C)-C+TDR+VSB-C	40,500	14.0	12.5	1,375
048K	C5B(A,H)-T49(U,C)-C+TDR+VSB-C	48,000	14.0	12.1	1,380
060K	C5B(A,H)-T60(U,C)-C+TDR+VSB-C	58,500	14.0	12.4	1,665

Outdoor Unit	Indoor TXV Air Handler B5VM-	Cooling Capacity BTUH	SEER	EER	SCFM
018K	T24K-B	18,500	14.0	13.7	720
024K	T25K-B	24,400	14.0	13.3	720
030K	T30K-B	29,600	14.0	13.4	960
036K	T36K-B	35,400	14.0	12.9	1,060
042K	T49K-C	40,500	14.0	12.5	1,375
048K	T49K-C	48,000	14.0	12.1	1,380
060K	T60K-C	58,500	14.0	12.4	1,665

Outdoor Unit	Indoor TXV Air Handler B5BM-	Cooling Capacity BTUH	SEER	EER	SCFM
018K	T24K-B+VSB-B	18,500	14.0	13.7	720
024K	T25K-B+VSB-B	24,400	14.0	13.3	720
030K	T30K-B+VSB-B	29,600	14.0	13.4	960
036K	T36K-B+VSB-B	35,400	14.0	12.9	1,060
042K	T49K-C+VSB-C	40,500	14.0	12.5	1,375
048K	T49K-C+VSB-C	48,000	14.0	12.1	1,380
060K	T60K-C+VSB-C	58,500	14.0	12.4	1,665

(1) Field Supplied Piston  
 LLS = Liquid Line Solenoid  
 TDR = Time Delay Relay included in furnace and air handler  
 VSB = Variable Speed Blower

Air handlers and coils used in tables are designed and manufactured by NORDYNE.

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



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