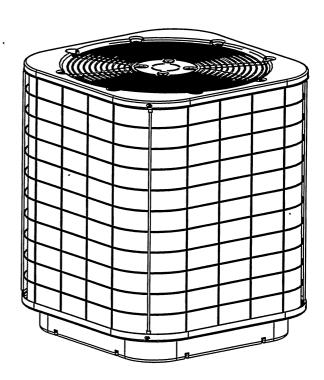
TECHNICAL SPECIFICATIONS

S3BA-(-)(K,C)A Series High Efficiency Air Conditioner 10 SEER 1-1/2 – 5 Ton Capacity

The S3BA 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 in single, multifamily, and light commercial applications.

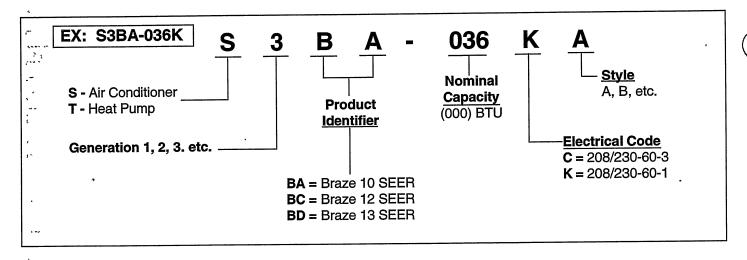


FEATURES and BENEFITS

- Designed using galvanized steel with a polyester urethane finish. The 950 hour salt spray finish resists corrosion 50% better than comparable units.
- Copper Tube / Aluminum Fin Coils Both indoor and outdoor 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.
- Plastic Coated Coil Guard and Mesh Hail Guard will never rust and protects the unit coil from being damaged by balls, lawnmowers, hail, etc.

- 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.
- 6 Year Limited Parts Warranty The best in the industry and has proven to be a major benefit to the consumer.

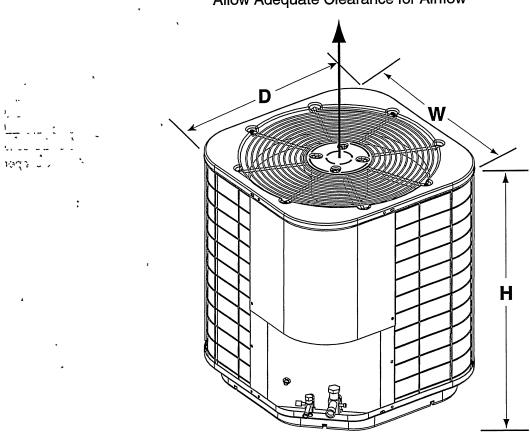
MODEL IDENTIFICATION CODES



DIMENSIONS OUTDOOR SECTION

S3BA-	018	· 024	030	036	042	048	060
Н	22-1/2	22-1/2	22-1/2	22-1/2	30-1/2	34-1/2	34-1/2
W	22-1/2	22-1/2	22-1/2	22-1/2	22-1/2	22-1/2	30-1/2
D	22-1/2	22-1/2	22-1/2	22-1/2	22-1/2	22-1/2	30-1/2

Air Discharge
Allow Adequate Clearance for Airflow



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS 10 SEER — High Efficiency — Single Phase

Model No. S3BA-			018	004					•
Electrical	Volts-Cycles-	Phase (1)		024	030	036	042	048	060
Data	Total Amps	11100 (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-
	Max. Overcurr		9.2	10.5	14.8	15.9	18.1	23.2	26.5
			15	20	30	30	35	50	50
Component	Min. Circuit Ar		11.4	12.9	18.2	19.7	22.4	28.6	32.7
Data	Coil	Area	8.3	8.3	8.3	8.3	11.5	13.2	
Dala	1	Rows-FPI	1-14	1-14	1-18	1-22	1-20	1-18	20.2
		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.	1-22
	Fan	Туре	PSC	PSC	PSC	PSC	PSC	PSC	3/8 O.D.
	Motor	Amps	0.67	0.67	1.13	1.13	1.13		PSC
		HP	1/10	1/10	1/8	1/8	1/8	1.4	1.5
	Fan	Dia#Blades	18 in 3	18 in 3	18 in 3	18 in 3		1/4	1/4
	Blade	SCFM	2100	2100	2500	2500	18 in 3	18 in 4	24 in 3
	Compressor	RLA	8.6	9.8	13.7		2500	3000	4000
	Data*	LRA	49	56	75	14.8	17.0	21.8	25.0
Refrigerant Suction Line	-Length/O.D.	15-24 ft.	5/8" (3)	5/8" (3)		96	105	131	150
Liq. Line All Lengths - 3		25-39 ft.	5/8" (3)		3/4"	3/4"	3/4"	7/8"	7/8"
_	-	40-75 ft.	3/4"	3/4"	3/4"	3/4"	·7/8" <i>(4)</i>	7/8"	1-1/8" <i>(5)</i>
Refrigerant Charge	(Outdoor unit, Ir		3/4	3/4"	3/4"	7/8" <i>(4)</i>	7/8" <i>(4)</i>	7/8"	1-1/8" (5)
R-22 Ounces	15' Line Set)	Idoor Offic	00		1	1			
Weight	io Line det)		63	64	68	69	87	115	122
Approximate (lbs.)		Net	116	118	124	128	133	162	194
-t-bsamue (1031)		Ship	122	124	130	134	140	174	206

10 SEER — High Efficiency — Three Phase

Model No. S3BA-		036	048	060	
Electrical	Volts-Cycles-F	Phase (1)	208/230-60-3	208/230-60-3	208/230-60-3
Data	Total Amps		11.3	14.2	16.9
	Max. Overcum	Max. Overcurrent (2)		30	35
	Min. Circuit An	npacity	13.9	17.4	20.8
Component	Coil	Area	8.3	13.2	20.2
Data		Rows-FPI	1-22	1-18	1-22
		Tube Dia.	3/8 O.D.	3/8 O.D.	3/8 O.D.
	Fan	Туре	PSC	PSC	PSC
	Motor	Amps	1.13	1.4	1.5
		HP	1/8	1/4	1/4
	Fan	Dia#Blades	18 in 3	18 in4	24 in 3
	Blade	SCFM	2500	3000	4000
	Compressor	RLA	10.2	12.8	15.4
	Data*	LRA	75	91	124
Refrigerant Suction Line	-Length/O.D.	15-24 ft.	3/4"	7/8"	7/8"
(Liq. Line All Lengths - 3	3/8"O.D.)	25-39 ft.	3/4"	7/8"	1-1/8" <i>(5)</i>
		40-75 ft.	7/8" (4)	7/8"	1-1/8" <i>(5)</i>
Refrigerant Charge	(Outdoor unit, I	ndoor Unit			
22 Ounces 15' Line Set)			69	115	122
Welght		Net	128	162	194
Approximate (lbs.)		Ship	134	174	206

С	COPPER WIRE SIZE — AWG (1% Voltage Drop)								
Supp	Supply Wire Length-Feet Supply Circuit								
200	150	Ampacity							
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: 198v min. — 253v max.

⁽²⁾ HACR Type Circuit Breakers or Time Delay Fuse

⁽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 10 SEER — High Efficiency — Single Phase

Outdoor Unit	With This Coil							
	Coil	Cooling Btuh	SEER	Nominal CFM	Required Orifice Size			
Model Number	C3BA-024C/U-A (2)	18,000	10	675	.051 <i>(1</i>)			
S3BA-018KA	C3BA-024C/U-B	23,400	10	900	.060			
S3BA-024KA	C3BA-024C/U-A (2)	22,800	10	900	.060			
S3BA-024KA		28;600	10	1125	.063			
S3BA-030KA	C3BA-030C/U-B	29,000	10	1125	.063 (1)			
S3BA-030KA	· C3BA-036C/U-A (2)	34,600	10	1350	.067			
S3BA-036(C,K)A	C3BA-036C/U-B (2)	34,000	10	1150	.067			
S3BA-036(C,K)A	C3BA-036C/U-A (2)		10	1500	.075			
S3BA-042KA	C3BA-042C/U-B	40,000	10	1500	.080			
S3BA-048(C,K)A	C3BA-048C/U-B (2)	46,000			.080			
S3BA-048(C,K)A	C3BA-048C/U-C	46,000	10	1500				
S3BA-060(C,K)A	C3BA-060C/U-C (2)	56,500	10	1800	.093			

With This Air Handler							
Δir Handler	Cooling Btuh	SEER	Nominal CFM	Required Orifice Size			
	18,000	10	675	.051 (1)			
		10	900	.060			
		10	1125	:063			
		10	1125	.063			
			1350	.067			
				.075			
				.080			
				.093			
	Air Handler B3B(M,V)-024K-A B3B(M,V)-030K-A B3B(M,V)-030K-B B3B(M,V)-036K-B B3B(M,V)-042K-B B3B(M,V)-042K-B B3B(M,V)-048K-B B3B(M,V)-060K-C	Air Handler Btuh B3B(M,V)-024K-A 18,000 B3B(M,V)-024K-A 23,000 B3B(M,V)-030K-A 28,600 B3B(M,V)-030K-B 28,600 B3B(M,V)-036K-B 34,600 B3B(M,V)-042K-B 40,000 B3B(M,V)-048K-B 46,000	Air Handler Btuh SEER B3B(M,V)-024K-A 18,000 10 B3B(M,V)-024K-A 23,000 10 B3B(M,V)-030K-A 28,600 10 B3B(M,V)-030K-B 28,600 10 B3B(M,V)-036K-B 34,600 10 B3B(M,V)-042K-B 40,000 10 B3B(M,V)-048K-B 46,000 10	Air Handler Btuh SEER Nominal CFM B3B(M,V)-024K-A 18,000 10 675 B3B(M,V)-024K-A 23,000 10 900 B3B(M,V)-030K-A 28,600 10 1125 B3B(M,V)-030K-B 28,600 10 1125 B3B(M,V)-036K-B 34,600 10 1350 B3B(M,V)-042K-B 40,000 10 1500 B3B(M,V)-048K-B 46,000 10 1600			

⁽¹⁾ Supplied with indoor section.

See current ARI Directory for certified combinations and ratings.

ACCESSORIES - Condensing Unit

Start Assist Kit - 912933

Etcaller Service

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

Thermostat

Two thermostats are available.

917004 - Single-Stage

917005 - Two-Stage Heat / One-Stage Cool







325A-1200 (Replaces 325A-0600)









⁽²⁾ Also available as C3BH Horizontal Case Coil.