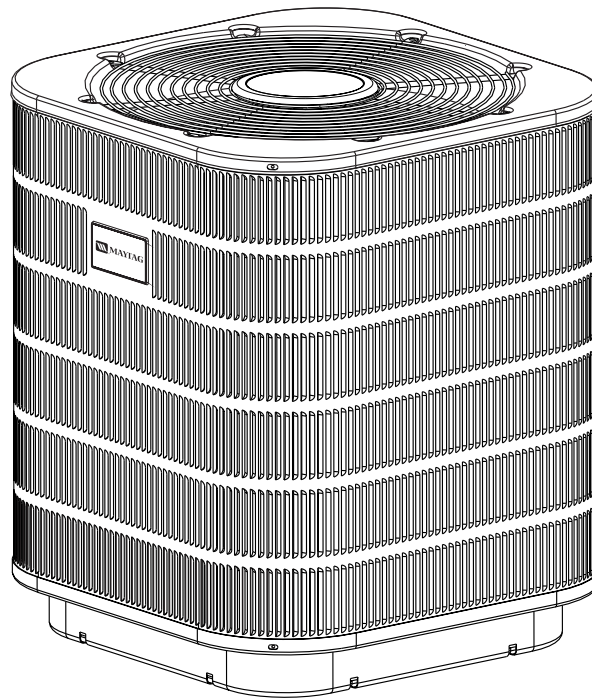




MAYTAG[®]

TECHNICAL SPECIFICATIONS

Model SH1BC Series



M1000S Product Line

**High Efficiency Heat Pumps
12 SEER — 1 1/2 - 5 Ton Capacity**

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



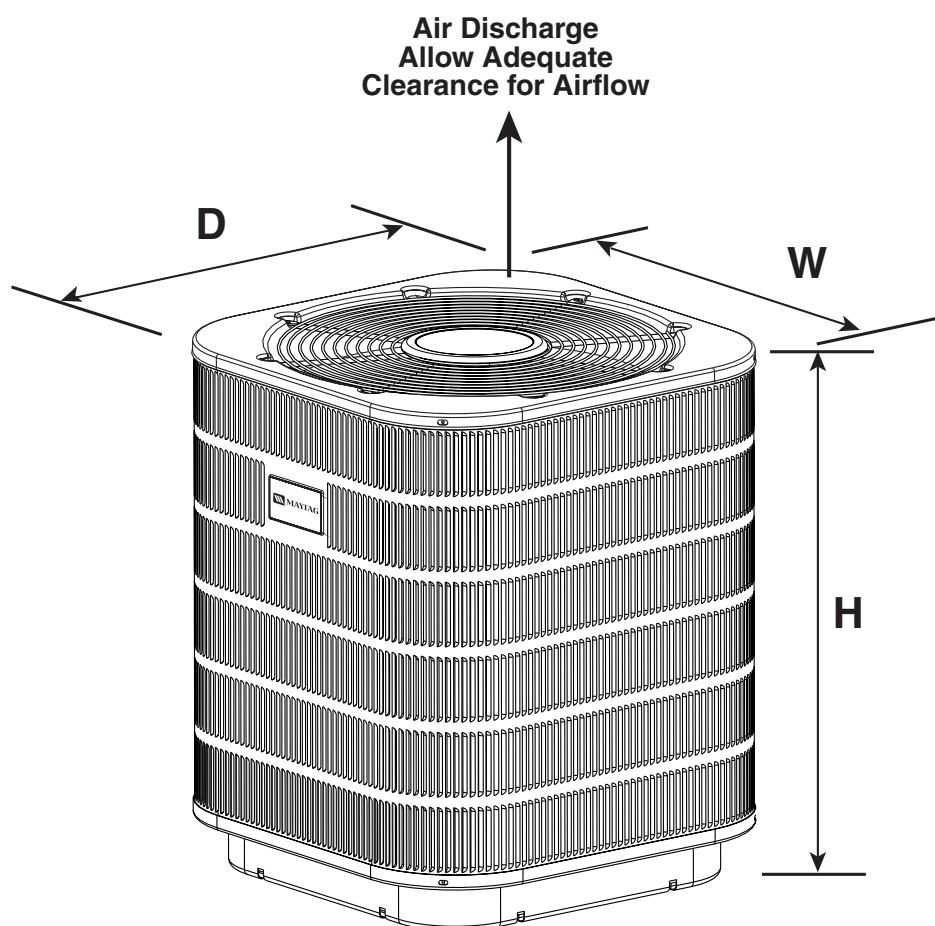
The SH1BC Series of heat pumps offers exceptional performance from a small, compact package. The heat pump, when combined with our engineered coils or air handlers, offers a full line of quality, split system heating and cooling equipment. Units are ideally sized for slab or rooftop mounting.

Features and Benefits

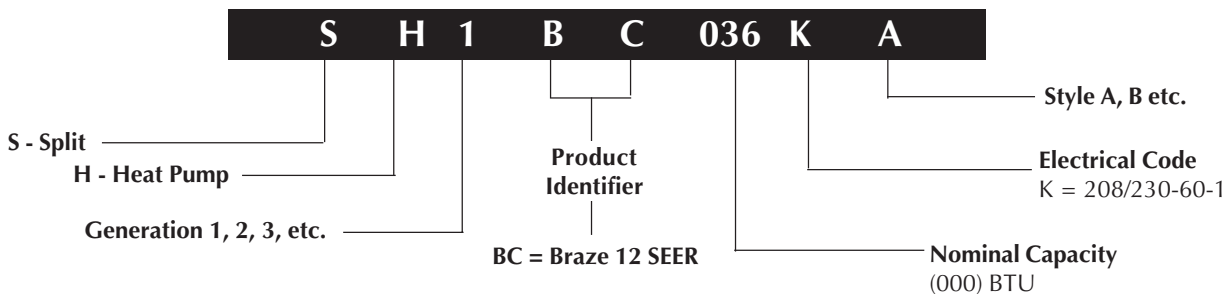
- **Designed using Stainless Steel** – Durable brushed stainless steel protects the coil from yard hazards and extreme weather. Unit is trimmed in a silicone-protected polyester finish with a 950 hour salt spray finish that resists corrosion 50% better than comparable units.
- **Quiet Plus™ Compressor 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.
- **Time / Temperature Defrost** – A reliable, industry standard control offers various time settings to meet any type climate.
- **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.
- **Common Suction Service Port** – This port allows the contractor to read the suction pressure in all modes of operation without removing any panels, saving time and increasing serviceability.
- **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.
- **Suction Accumulator and Crankcase Heat** – Protection from liquid flood back and future compressor failures. All 12 seer H.P. have scroll compressors.
- **Hot Gas Muffler** – Reduces compressor noise and vibration.
- **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

SH1BC	018KA	024K	030K	036K	042K	048K	060K
H	26 1/2	30 1/2	34 1/2	38 1/2	42 1/2	38 1/2	42 1/2
W	22 1/2	30 1/2	30 1/2	30 1/2	30 1/2	30 1/2	30 1/2
D	22 1/2	30 1/2	30 1/2	30 1/2	30 1/2	30 1/2	30 1/2



IDENTIFICATION CODE



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

12 SEER — High Efficiency — Single Phase

Model No. SH1BC		18KA	24K	30K	36K	42K	48K	60K	
Electrical	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	
Data	Total Amps	10.3	11.6	13.6	17.4	19.4	20.7	30.3	
	Delay Fuse Max. (2)	20	20	25	35	40	40	60	
	Min. Circuit Ampacity	12.6	14.2	16.6	21.4	23.9	25.5	37.5	
Component Data	Coil	Area	9.9	17.9	20.4	23.0	25.5	23.0	25.5
		Rows-FPI	1-18	1-18	1-18	1-20	1-20	2-16	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	1.4	1.4	1.4	1.5	1.5	1.5
		Watts-HP	245	245	245	245	300	300	300
	Fan Blade	Dia.-#Blades	18 in. - 3	24 in. - 3	24 in. - 3	24 in. - 3	24 in. - 3	24 in. - 3	24 in. - 2
		SCFM	2000	3300	3300	3300	4000	4000	4000
	Compressor Data*	RLA	10.0	10.2	12.2	16.0	17.9	19.2	28.8
		LRA	42	56	67	88	104	137	169
Refrigerant Suction Line- Length/O.D. (Liq. Line All Lengths - 3/8" O.D.)	15 - 24 ft.	5/8" (3)	5/8" (3)	3/4"	3/4"	3/4"	7/8"	7/8"	
	25 - 39 ft.	3/4"	3/4"	3/4"	3/4"	7/8" (4)	7/8"	1 1/8" (5)	
	40 - 75 ft.	3/4"	3/4"	3/4"	7/8" (4)	7/8" (4)	7/8"	1 1/8" (5)	
Refrigerant Charge R-22 Ounces	(Outdoor unit, Indoor Unit, 15' Line Set)	72	112	133	146	162	240	264	
Weight	Net	162	170	178	188	204	253	282	
Approximate (lbs.)	Ship	174	182	190	200	216	265	294	

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: 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

12 SEER — Extra High Efficiency — Single Phase

Outdoor Unit		Indoor Unit						
Model Number SH1BC	Model Number C3BA-	Cooling Btuh	SEER	Heating Btuh@47°	Heating Btuh@17°	HSPF	Nominal SCFM	Required Indoor Orifice ⁽¹⁾
018KA	030(C,U)A (2)	18,000	12.0	17,600	9,800	7.9	675	.053
024K	036(C,U)A (2)	24,000	12.0	22,400	12,800	7.2	700	.065
024K	030(C,U)B	24,000	12.0	22,400	12,800	7.2	700	.065
030K	036(C,U)A+TDR (2)	28,600	12.0	28,400	16,200	7.6	900	.067
030K	036(C,U)B+TDR (2)	28,600	12.0	28,400	16,200	7.6	900	.067
036K	042(C,U)B (2)	34,600	12.0	34,600	19,700	7.6	1100	.077
042K	048(C,U)B+TDR (2)	40,500	12.0	40,500	23,100	7.6	1300	.085
042K	048(C,U)C+TDR	40,500	12.0	40,500	23,100	7.6	1300	.085
048K	060(C,U)C (2)	48,000	12.0	48,000	27,400	7.6	1600	.093
060K	060C-C+TDR (2)	57,000	12.0	57,000	32,800	7.6	1700	.099

Outdoor Unit		Indoor Unit						
Model Number SH1BC	Model Number B3BM-	Cooling Btuh	SEER	Heating Btuh@47°	Heating Btuh@17°	HSPF	Nominal SCFM	Required Indoor Orifice ⁽¹⁾
018KA	030KAB	176,000	12.0	17,200	10,200	8.1	675	.053
024K	030KAB	24,000	12.0	22,400	12,800	7.2	700	.065
024K	030KBB	24,000	12.0	22,400	12,800	7.2	700	.065
030K	030KAB	28,600	12.0	28,400	16,200	7.6	900	.067
030K	036KBB	28,600	12.0	28,400	16,200	7.6	900	.067
036K	042KBB	34,600	12.0	34,600	19,700	7.6	1100	.077
042K	048KBB	40,500	12.0	40,500	23,100	7.6	1300	.085
048K	060KCB	48,000	12.0	48,000	27,400	7.6	1600	.093
060K	060KCB	57,500	12.0	58,000	32,800	7.6	1700	.099

(1) Orifice Supplied with outdoor unit

(2) Also available as C3BH multi-position

TDR = Time Delay Relay included in Maytag Furnace

See current ARI Directory for certified combinations and ratings.

SYSTEM HEATING & COOLING CAPACITIES

13 SEER — (Rating for SH1BC with VSB or LLS)

Model Number SH1BC	Model Number C3BA-	Cooling Capacity (Btu/h)	SEER Rating	Heating Capacity (Btu/h) @ 47°	HSPF	Heating Capacity (Btu/h) @17°	Nominal Airflow (SCFM)	Indoor Orifice Size (in) (1)
018KA	030(C,U)-A+VSB (2)	18,200	13.0	17,800	8.1	11,000	700	0.053
018KA	030(C,U)-B+VSB	18,200	13.0	17,800	8.1	11,000	700	0.053
024K	036(C,U)-B+TDR+LLS (2)	24,200	13.0	22,600	7.3	13,000	700	0.065
024K	030(C,U)-B+VSB	24,200	13.0	22,000	7.8	12,500	720	0.065
030K	042(C,U)-B+TDR+LLS (2)	28,800	13.0	28,600	7.7	16,300	900	0.067
030K	036(C,U)-B+VSB (2)	28,800	13.0	28,000	8.0	15,900	990	0.067
036K	042(C,U)-B+LLS+VSB	35,000	13.0	34,400	8.0	20,000	1,100	0.077
042K	048(C,U)-B+LLS+VSB (2)	41,500	13.0	41,000	8.0	23,400	1,305	0.085
042K	048(C,U)-C+LLS+VSB	41,500	13.0	41,000	8.0	23,400	1,305	0.085
048K	060(C,U)-C+VSB (2)	48,000	13.0	47,500	8.0	27,000	1,530	0.093

Model Number SH1BC	Model Number B3VM-	Cooling Capacity (Btu/h)	SEER Rating	Heating Capacity (Btu/h) @ 47°	HSPF	Heating Capacity (Btu/h) @17°	Nominal Airflow (SCFM)	Indoor Orifice Size (in) (1)
024K	036K-B	24,600	13.0	22,200	7.7	12,500	720	0.065
030K	036K-B	29,000	13.0	28,000	7.7	14,600	885	0.067
036K	048K-B+LLS	35,000	13.0	34,400	8.0	20,000	1,100	0.077
042K	048K-B	41,000	13.0	39,500	7.9	19,700	1,315	0.085
048K	060K-C	48,000	13.0	48,000	7.6	27,400	1,600	0.093
060K	066K-C	57,000	13.0	57,000	7.8	36,400	1,700	0.099

(1) Orifice supplied with outdoor unit

(2) Also available as C3BH multi-position

TDR = Time Delay Relay included in Maytag Furnace

VSB = Variable Speed Blower

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.

Snow Stand

Plastic-coated, molded wire stand which elevates units 7-1/4" above ground level.

913144 - (018 through 042) Shipped six (6) per box.

913145 - (048 through 060) Shipped six (6) per box.

Outdoor Thermostat - 913852

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

Liquid Line Solenoid Kit (LLS)

912650 - 1 1/2 - 3 1/2 ton

913869 - 4 - 5 ton

Fan Delay Kit (TDR)

911758 - 80 second fan delay

Variable Speed Blower Kit (VSB)

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

903764B - Air Handler "B" cab.

903965B - Air Handler "C" cab.



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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763B-0105 (Replaces 763B-1004)

Printed in U.S.A. (01/05)