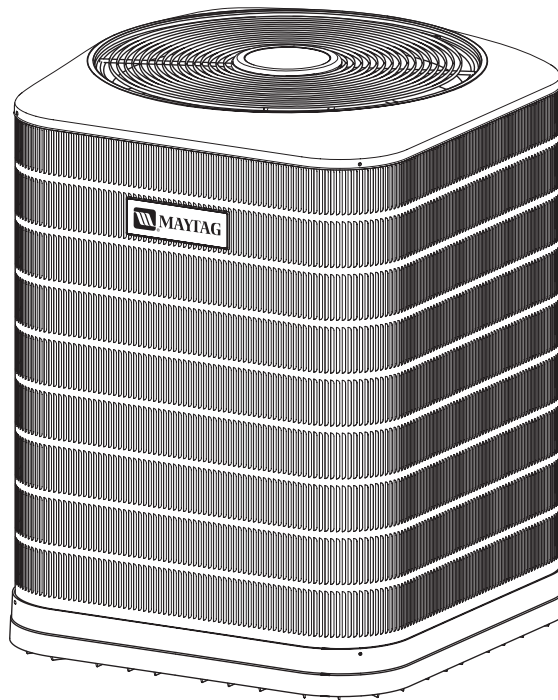




TECHNICAL SPECIFICATIONS

Model SH4BD Series



M1000S Product Line

**R-410A High Efficiency Heat Pumps
13+ SEER — 1.5 - 5 Ton Capacity**

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



The SH4BD Series of heat pumps offers exceptional performance. The heat pump, when combined with our engineered coils or air handlers, offers a full line of quality, split system heating and cooling equipment. The SH4BD is rated at 13 SEER and 8.0 HSPF when matched with our air handler or furnace. When matched with our variable speed air handler, or our variable speed blower kits, the SH4BD is rated up to 14 SEER and 8.5 HSPF.

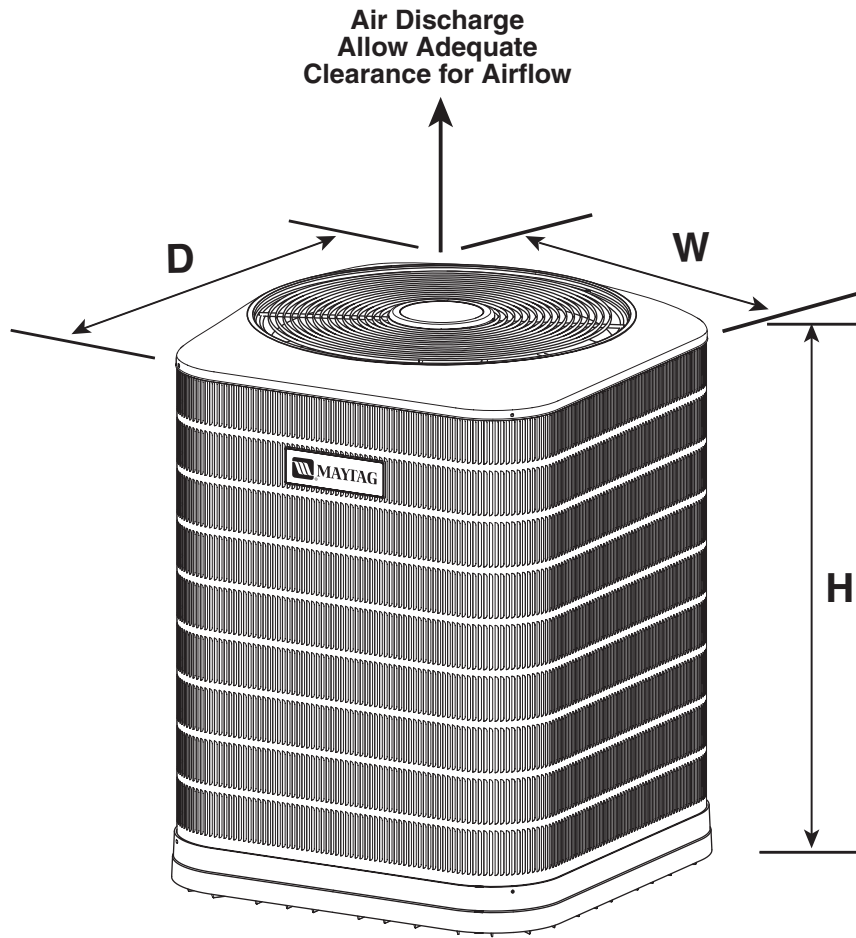
Features and Benefits

- **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™ Sound Package** – Consists of a Quiet Plus™ Compressor Sound Blanket and a Swept Wing Fan Blade. Both have been 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.
- **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.
- **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.
- **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.
- **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.
- **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 Warranty and 1 Year Dependability Promise**
The best warranty in the business.

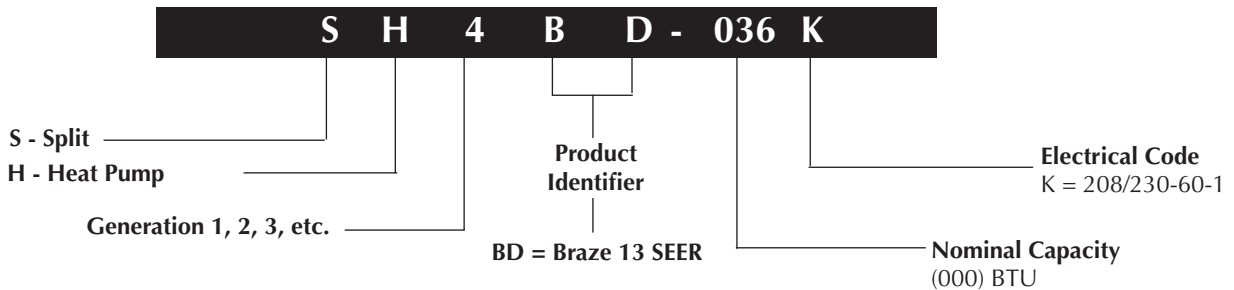
DIMENSIONS/OUTDOOR SECTION

13+ SEER — High Efficiency — Single Phase

SH4BD	018K	024K	030K	036K	042K	048K	060K
H	33	37	41	45	41	45	45
W	31 1/4	31 1/4	31 1/4	31 1/4	31 1/4	31 1/4	31 1/4
D	31 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 SH4BD		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	9.96	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	12.2	17.8	18.6	21.8	23.8	28.6	34.2	
Condenser Data	Coil	Area	17.5	20.3	22.8	25.4	22.8	25.4	25.4
		Rows-FPI	1-20	1-20	1-20	1-20	2-16	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	1.0	1.0	1.0	1.0	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	24"- 2	24"- 2	24"- 2	24"- 2	24"- 2	24"- 2	24"- 2
		SCFM	3000	3200	3300	3400	3700	3800	3800
	Compressor Data	RLA	10	15	15.7	18.6	20	24.3	29.3
LRA		48	58.3	73	79	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"	7/8"	7/8"	7/8"	7/8"	
	25-39 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	1-1/8" (3)	
	40-75 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	1-1/8" (3)	
Refrigerant charge (R-410A) in ounces for outdoor unit, indoor unit and 15' lineset.		112	138	145	168	243	248	248	
Weight Approximate (lbs.)	Net	166	171	176	181	247	280	290	
	Ship	175	180	185	190	260	295	305	

(1) Operating Voltage Range: 198v min. — 253v max.

(2) HACR Type Circuit Breakers or Time Delay Fuse

(3) 7/8" to 3/4" reducer required.

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

Outdoor Unit Model Number SH4BD	Indoor Unit Model Number C5B(A,H)-	Cooling Capacity Btuh	SEER	EER	Heating Capacity BTUH @ 47°F	HSPF	Nominal SCFM	Required Indoor Orifice (1)
018K	024(U,C)-(A,B)	18,000	13.0	12.2	18,000	8.0	650	.050
024K	024(U,C)-(A,B)	23,600	13.0	12.6	23,600	8.0	750	.055
030K	030(U,C)-(A,B)	29,400	13.0	12.0	30,000	8.0	850	.065
036K	036(U,C)-B	35,400	13.0	11.8	36,000	8.0	1200	.073
042K	042(U,C)-B	39,600	13.0	11.7	41,000	8.0	1400	.077
048K	048(U,C)-C	48,000	13.0	12.0	48,000	8.0	1600	.080
060K	060(U,C)-C	59,500	13.0	11.7	58,000	8.0	1750	.089

Outdoor Unit Model Number SH4BD	Indoor Unit Model Number B5BM	Cooling Capacity Btuh	SEER	EER	Heating Capacity BTUH @ 47°F	HSPF	Nominal SCFM	Required Indoor Orifice (1)
018K	024K(A,B)	18,000	13.0	12.2	18,000	8.0	650	.050
024K	024K(A,B)	23,600	13.0	12.6	23,600	8.0	750	.055
030K	030K(A,B)	29,400	13.0	12.0	30,000	8.0	850	.065
036K	036KB	35,400	13.0	11.8	36,000	8.0	1200	.073
042K	042KB	39,600	13.0	11.7	41,000	8.0	1400	.077
048K	048KC	48,000	13.0	12.0	48,000	8.0	1600	.080
060K	060KC	59,500	13.0	11.7	58,000	8.0	1750	.089

¹Orifice supplied with outdoor unit.

See current ARI Directory for certified combinations and ratings.

SYSTEM HEATING & COOLING CAPACITIES (Continued)

14+ SEER — High Efficiency

Outdoor Unit Model Number SH4BD	Indoor Unit Model Number C5B(A,H)-	Cooling Capacity Btuh	SEER	EER	Heating Capacity BTUH @ 47°F	HSPF	Nominal SCFM	Required Indoor Orifice
018K	024(U,C)-(A,B)+VSB+B	18,400	14	12.9	18,000	8.0	600	0.050
024K	024(U,C)-(A,B)+VSB+B	24,000	14	13.4	23,200	8.5	750	0.055
030K	030(U,C)-(A,B)+VSB+B	29,600	14	12.9	29,600	8.5	900	0.065
036K	036(U,C)-B+VSB+B	35,800	14	12.6	37,800	8.5	1180	0.073
042K	048(U,C)-C+VSB+C	41,500	14	13.5	41,500	8.5	1400	0.077
048K	048(U,C)-C+VSB+C	48,500	14	13.0	47,500	8.5	1600	0.080
060K	060(U,C)-C+VSB+C	59,500	14	11.9	57,500	8.5	1700	0.089

Outdoor Unit Model Number SH4BD	Indoor Unit Model Number B5BM	Cooling Capacity Btuh	SEER	EER	Heating Capacity BTUH @ 47°F	HSPF	Nominal SCFM	Required Indoor Orifice
018K	024K(A,B)+VSB+B	18,400	14	12.9	18,000	8.0	600	0.050
024K	024K(A,B)+VSB+B	24,000	14	13.4	23,200	8.5	750	0.055
030K	030K(A,B)+VSB+B	29,600	14	12.9	29,600	8.5	900	0.065
036K	036KB+VSB+B	35,800	14	12.6	37,800	8.5	1180	0.073
042K	048KC+VSB+C	41,500	14	13.5	41,500	8.5	1400	0.077
048K	048KC+VSB+C	48,500	14	13.0	47,500	8.5	1600	0.080
060K	060KC+VSB+C	59,500	14	11.9	57,500	8.5	1700	0.089

Outdoor Unit Model Number SH4BD	Indoor Unit Model Number B5VM	Cooling Capacity Btuh	SEER	EER	Heating Capacity BTUH @ 47°F	HSPF	Nominal SCFM	Required Indoor Orifice
018K	024KB	18,400	14	12.9	18,000	8.0	600	0.050
024K	024KB	24,000	14	13.4	23,200	8.5	750	0.055
030K	030KB	29,600	14	12.9	29,600	8.5	900	0.065
036K	036KB	35,800	14	12.6	37,800	8.5	1180	0.073
042K	048KC	41,500	14	13.5	41,500	8.5	1400	0.077
048K	048KC	48,500	14	13.0	47,500	8.5	1600	0.080
060K	060KC	59,500	14	11.9	57,500	8.5	1700	0.089

¹Orifice supplied with outdoor unit.

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.

Outdoor Thermostat - 913235

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

Liquid Line Solenoid Kit (LLS)

913869 - 4 - 5 ton

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



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