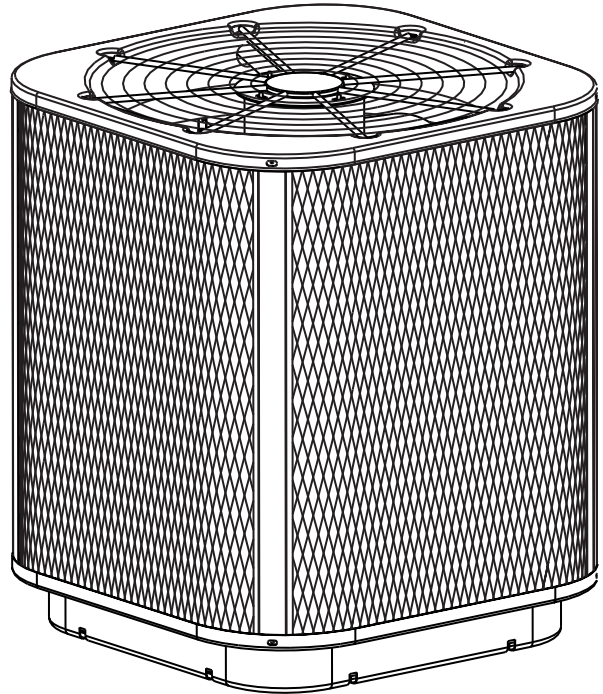


MS5BD/MS5QD Series High Efficiency Air Conditioner 13 SEER 1-1/2 – 5 Ton Capacity

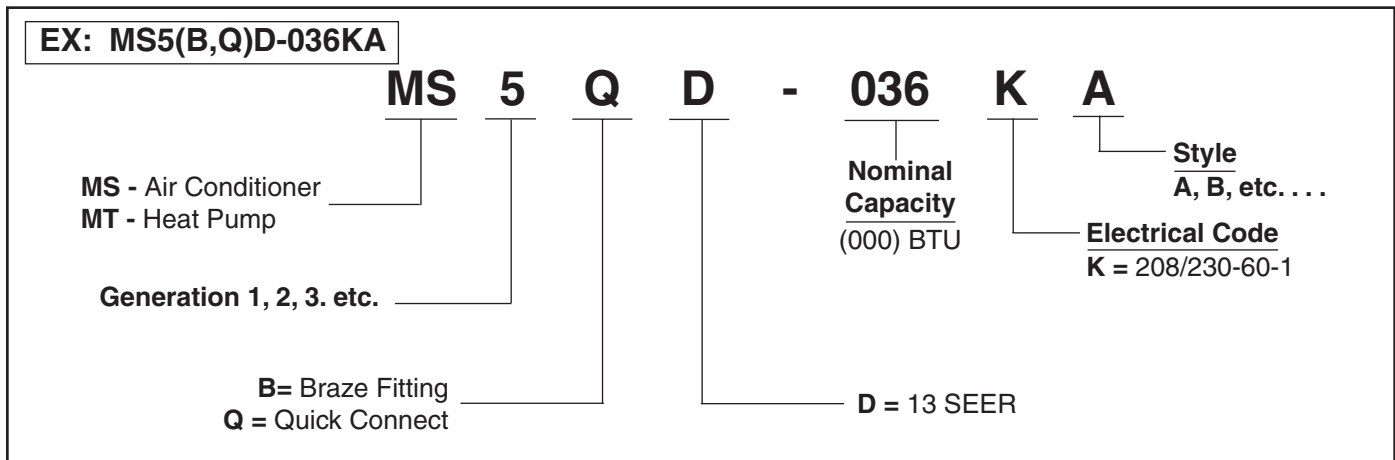
The MS5 Series of air conditioners offers exceptional performance from a small, compact package. The unit, when combined with our engineered coils, offers a full line of quality, split system cooling equipment.

FEATURES and BENEFITS

- **Durable, Attractive Cabinet** – Designed using galvanized steel with a polyester urethane finish. The 950 hour salt spray finish is 1.5 mil thick and 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.
- **Full Service Valves** – These brass valves are easily accessible and simplify servicing of the refrigeration system. Quick Connect models also available.
- **Plastic Mesh Hail Guard** – A guard that will never rust and protects the unit coil from damage 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.
- **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.
- **1 Year Limited All Parts Warranty** – A major benefit to the consumer.



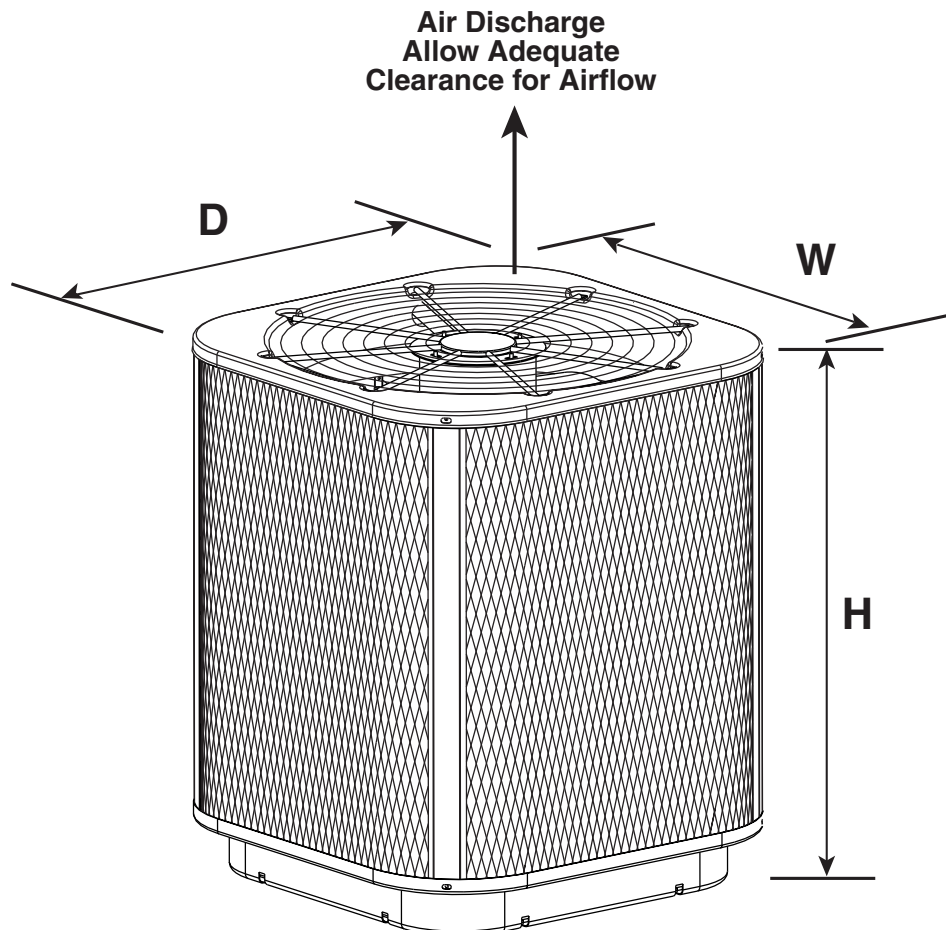
MODEL IDENTIFICATION CODES



DIMENSIONS

AIR CONDITIONER OUTDOOR SECTION

Capacity	018K	024K	030K	036K	042K	048K	060K
H	30-1/2	34-1/2	34-1/2	38-1/2	42-1/2	42-1/2	42-1/2
W	22-1/2	22-1/2	30-1/2	30-1/2	30-1/2	30-1/2	30-1/2
D	22-1/2	22-1/2	30-1/2	30-1/2	30-1/2	30-1/2	30-1/2



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

13 SEER — High Efficiency — Single Phase

Model Number MS5(B,Q)D-			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	9.3	11.8	14.4	17.8	22.9	29.6
	Delay Fuse Max. (2)		15	20	25	30	35	45	60
	Min. Circuit Ampacity		11.1	11.4	14.5	17.8	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" - 3	18" - 3	24" - 3	24" - 3	24" - 3	24" - 3	24" - 3
		SCFM	1410	1985	3000	3000	4000	4000	4000
	Compressor Data	RLA	9	8.6	10.8	13.4	16	22	28
		LRA	40	40	60	73	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	104	134	138	170	147	232
Weight Approximate (lbs.)		Net	143	162	171	181	219	219	276
		Ship	150	170	180	190	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.

Fan Delay Kit

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 Unit	Cooling Capacity (Btu/h)	EER	SEER	CFM
MS5(B,Q)D-018K	C5(Q,D,B)A-T25U-B+TDR	18000	12.1	13	600
MS5(B,Q)D-024K	C5(Q,D,B)A-T25U-B+TDR	24000	11.9	13	750
MS5(B,Q)D-030K	C5(Q,D,B)A-T30U-B+TDR	29400	12.0	13	1000
MS5(B,Q)D-036K	C5(Q,D,B)A-T36U-B+TDR	35000	11.8	13	1100
MS5(B,Q)D-042K	C5(Q,D,B)A-T43U-B+TDR	40000	12.1	13	1400
MS5(B,Q)D-048K	C5(Q,D,B)A-T48U-B+TDR	47000	11.6	13	1400
MS5(B,Q)D-060K	C5B(A,H)-T60(C,U)-C+TDR	58000	11.6	13	1650

See current ARI Directory for certified combinations and ratings.



We Encourage Professionalism



Through Technician Certification by NATE



NAHB

216C-0206