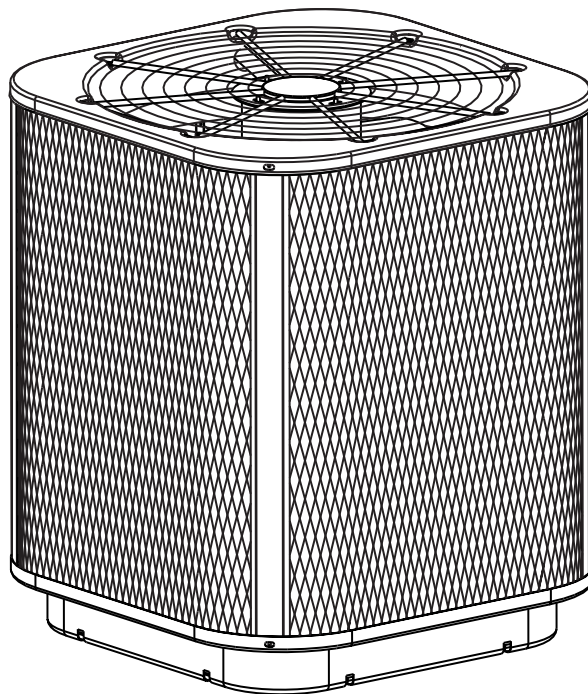


**MS3(B,Q)C Series  
Extra High Efficiency Air Conditioner  
12 SEER  
1-1/2 – 4 Ton Capacity**

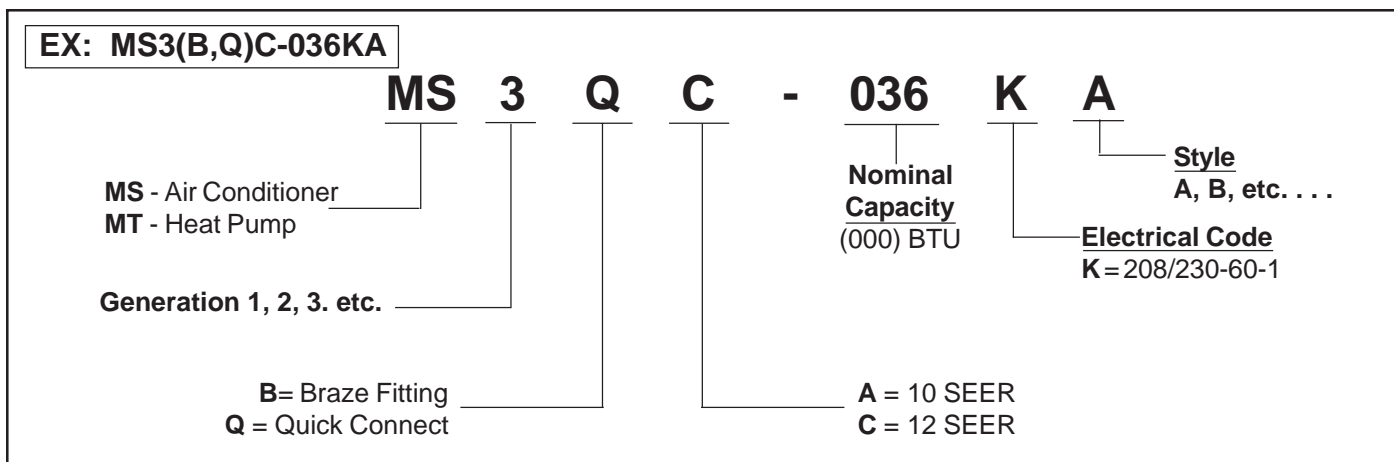
The MS3(B,Q)C Series of air conditioners offers exceptional performance from a small, compact package. The unit, when combined with our engineered coils, offers a full line of quality, split system cooling equipment.

**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.
- **Crankcase Heat** – Protection from liquid flood back and future compressor failures (except scroll compressor units).
- **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/10 Year Compressor Warranty** – A major benefit to the consumer.



## MODEL IDENTIFICATION CODES

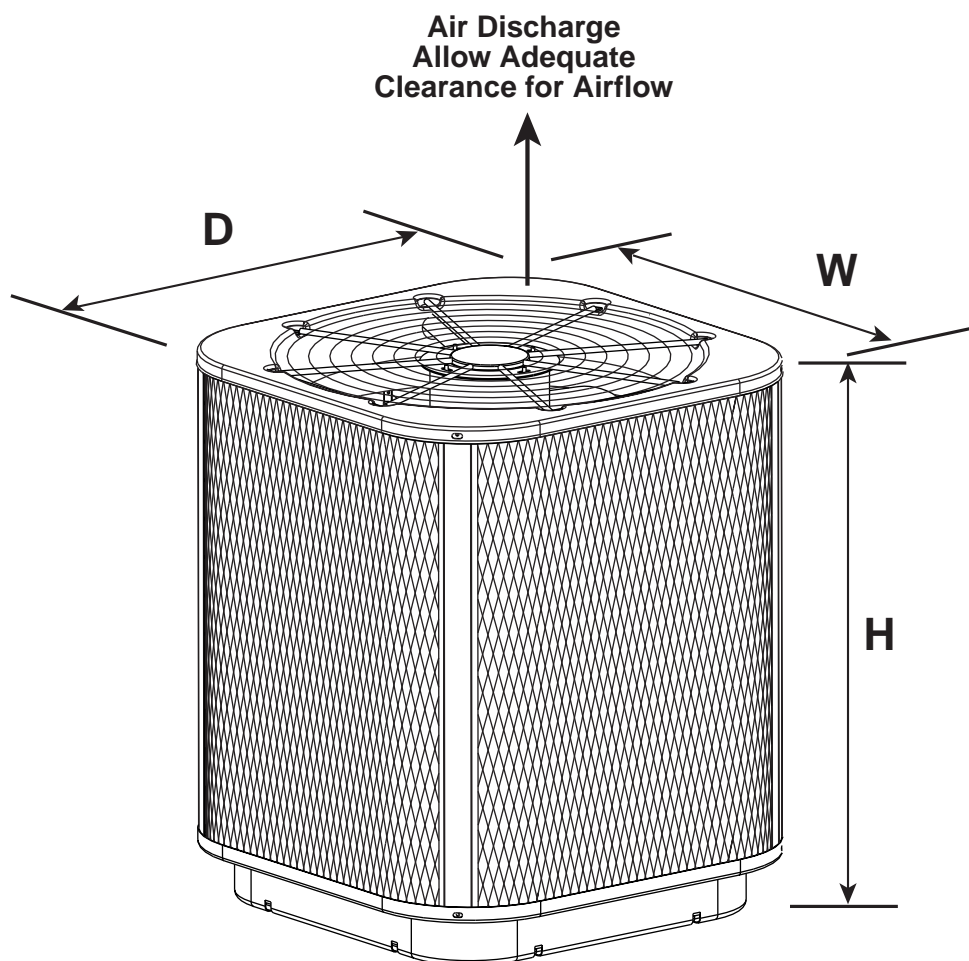


## DIMENSIONS

### AIR CONDITIONER OUTDOOR SECTION

Capacity	018KA*	024KA	030KA	036KA	042KA	048KA	060KA*
H	22 1/2	26 1/2	30 1/2	34 1/2	30 1/2	34 1/2	42 1/2
W	22 1/2	22 1/2	22 1/2	22 1/2	30 1/2	30 1/2	30 1/2
D	22 1/2	22 1/2	22 1/2	22 1/2	30 1/2	30 1/2	30 1/2

\* Braze only (1.5 & 5 TON)



# PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

## 12 SEER — Extra High Efficiency — Single Phase

Model Number MS3(B,Q)C-		018KA	024KA	030KA	036KA	042KA	048KA	060KA	
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	10.3	12.8	14.7	17.8	19.8	21.8	29.4	
	Delay Fuse Max. (2)	20	25	30	35	40	45	60	
	Min. Circuit Ampacity	12.8	15.8	18.1	21.9	24.4	26.9	36.4	
Condenser Data	Coil	Area	8.2	9.9	11.5	13.2	17.7	20.3	25.4
		Rows-FPI	1-16	1-18	1-22	1-22	1-22	1-22	1-22
		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	1.1	1.4	1.4	1.4	1.4
	Fan Blade	Watts-HP	37.3 - 1/20	74.6 - 1/10	93.3 - 1/8	186.5 - 1/4	186.5 - 1/4	186.5 - 1/4	186.5 - 1/4
		Dia-# Blades	18"- 3	18"- 3	18"- 3	18"- 4	24"- 3	24"- 3	24"- 3
	Compressor Data*	SCFM	1630	1980	2345	2800	4000	4000	4000
		RLA	10	12.1	13.6	16.4	18.4	20.4	28
	Refrigerant suction line O.D. (all length of liquid line are 3/8" O.D.)	LRA	41	54	67	83	95	109	148
0-24 ft.		5/8" (3)	3/4"	3/4"	3/4" (4)	7/8"	7/8"	7/8"	
25-39 ft.		3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	1-1/8" (5)	
Refrigerant charge (R-22) in ounces for outdoor unit, indoor unit and 15' lineset.	40-75 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	1-1/8" (5)	
	Net	61	63	68	82	102	110	155	
Weight	Ship	96	103.5	128	142	174	186	238	
	Approximate (lbs.)	105	112.5	137	151	186	198	250	

\* Values shown are most severe and may vary slightly depending on the make of the compressor supplied.

- (1) Operating Voltage Range: 187v min. — 253v max.
- (2) HACR Type Circuit Breakers may be used.
- (3) Requires 3/4" to 5/8" reducer from unit to line.
- (4) Requires 7/8" to 3/4" reducer from unit to line.
- (5) Requires 7/8" to 1 1/8" reducer from unit to line.

## 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
200	150	100	50	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.

# SYSTEM HEATING & COOLING CAPACITIES

## 12 SEER — Extra High Efficiency — Single Phase

With this Coil					
Outdoor Unit Number MS3(B,Q)C-	Indoor Unit Number C3(Q,D,B)A-	BTUH	SEER	SCFM	Required Orifice
018KA	024(U,C)-A+TDR (1)	17100	12	600	0.055 (3)
018KA	030(U,C)-A	18000	12	600	0.055 (3)
018KA	030(U,C)-B+TDR	18000	12	600	0.055 (3)
024KA	030(U,C)-A/B	23600	12	800	0.060 (3)
030KA	036(U,C)-A/B (1)	28600	12	1025	0.065 (3)
036KA	043(U,C)-A	34600	12	1150	0.075 (3)
036KA	042(U,C)-B	34600	12	1250	0.075 (2)
042KA	048(U,C)-B+TDR (1)	40000	12	1250	0.077 (3)
042KA	048(U,C)-C+TDR	40000	12	1250	0.077 (3)
048KA	060(U,C)-C (1)	46000	12	1600	0.082 (3)
060KA	060(U,C)-C+TDR (1)	56000	12	1700	0.093 (2)

\*Requires Fan Delay Kit 911758

(1) Supplied with indoor coil or air handler

(2) Field supplied

With this Air Handler					
Outdoor Unit Number MS3(B,Q)C-	Indoor Unit Number GB3B(M,V)-	BTUH	SEER	SCFM	Required Orifice
018KA	024K-AB	17100	12	600	0.055 (3)
018KA	030K-(A,B)B	18000	12	600	0.055 (3)
024KA	030K-(A,B)B	23600	12	800	0.060 (3)
030KA	036K-BB	28600	12	875	0.065 (3)
036KA	042K-BB	34600	12	1250	0.075 (2)
042KA	048K-BB	40000	12	1425	0.077 (3)
048KA	060K-CB	46000	12	1730	0.082 (3)
060KA	066K-CB	56000	12	1600	0.099 (3)

(1) Available as horizontal coil

(2) Orifice supplied with indoor coil or air handler

(3) Orifice field supplied

See current ARI Directory for certified combinations and ratings.



We Encourage Professionalism



Through Technician Certification by NATE



NAHB

936A-1003 (Replaces 936A-0503)