

MAYTAG

TECHNICAL SPECIFICATIONS

Model MSA6BF Series



M120 Product Line

**R-410A Extra High Efficiency Air Conditioner
16 SEER — 2 - 3 Ton Capacity**

- **12 YEAR ALL PARTS WARRANTY**
- **This product offers a 1 Year Dependability Promise to replace the unit if the compressor fails in the first year of operation, to the original owner. All split system products must be installed with a matched indoor air handler or indoor coil to qualify.**
- **Product registration required for 12-year All Parts Warranty and Dependability Promise within a limited period of time after the installation. See current warranty document for details. This can be viewed at www.maytagvac.com or ask your sales representative.**

Maytag now offers you the choice of an air conditioner that uses a more efficient and environmentally friendly refrigerant designated Smart Cool 410™ (R-410A). The MSA6BF Series of Maytag air conditioners offers exceptional performance. The unit, when combined with our engineered coils or air handlers, offers a line of quality, 16 SEER split system cooling equipment.

Features and Benefits

- **Smart Cool 410™ Refrigerant (R-410A)** – Earth friendly non-ozone depleting refrigerant.
- **Copeland Scroll Compressor** – Copeland's proven and simple design equates to years of comfort and reliability for the homeowner with virtually silent operation.
- **Composite Base Pan** – Absorbs sound and is corrosion resistant. Composite is also stronger and lighter than steel.
- **Copper Tube / Aluminum Fin Coils** – Coils are designed to optimize heat transfer, minimize size and cost, and increase durability and reliability.
- **Removable Top Grille Assembly** – Allows ease of service from the top without disconnecting fan motor leads.
- **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.
- **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.
- **Designed Using Galvanized Steel** - With a polyester urethane coat finish. The 950 hour salt spray finish resists corrosion 50% better than comparable units.
- **Micro-Channel** – All aluminum coils for high corrosion resistance.

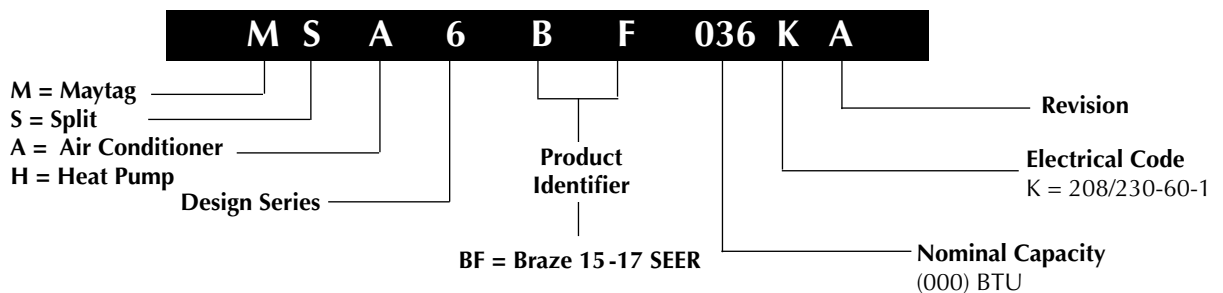


DIMENSIONS/OUTDOOR SECTION

MSA6BF	024K	030K	036K
H	37 1/2"	30"	41 1/2"
W	22 3/4"	30 3/4"	30 3/4"
D	22 3/4"	30 3/4"	30 3/4"



IDENTIFICATION CODE



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

16 SEER — R-410A Extra High Efficiency — Single Phase

Model Number MSA6BF-		024K	030K	036K	
Electrical Data	Volts-Cycles-Phase (1)		208/230-60-1		
	Total Amps		14.1	13.7	15.1
	Delay Fuse Max. (2)		30	25	30
	Min. Circuit Ampacity		17.5	16.9	18.6
Component Data	Coil	Area	13.3	15.2	22.8
		Rows-FPI	1-23	1-18	1-18
		Tube Dia	MC		
	Fan Motor	Type	PSC		
		Amps	0.7	0.9	1.0
		HP	0.10	0.13	0.20
	Compressor Data	RLA	13.4	12.8	14.1
LRA		58.3	64.0	77.0	
Refrigerant suction line O.D.		0-24 ft.	3/4"	3/4"	3/4"
NOTE: Liquid line is 3/8" O.D. for entire length.		25-39 ft.	3/4"	3/4"	7/8" (3)
		40-75 ft.	3/4"	3/4"	7/8" (3)
Approximate Weight (lbs.)		Net	164	179	198
		Ship	171	187	207
Sound Ratings db		74	79	79	

(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.

(5) Additional charge fro line sets above 15 feet.

Values based on suction line as follows with 3/8" liquid line.

a) 3/4" = 0.6 oz. per additional foot.

b) 7/8" = 0.7 oz. per additional foot.

c) 1 1/8" = 0.8 oz. per additional foot.

SYSTEM COOLING CAPACITIES

16 SEER — Extra High Efficiency — Single Phase

With this Air Handler					
Outdoor Unit	Indoor Unit	BTUH	SEER	EER	SCFM
MSA6BF024K	B6EMMX24K-A	24,000	16.0	13.0	835
MSA6BF024K	B6EMMX24K-B	24,000	16.0	13.0	835
MSA6BF030K	B6EMMX30K-A	29,000	16.0	13.0	995
MSA6BF030K	B6EMMX30K-B	29,000	16.0	13.0	995
MSA6BF036K	B6EMMX36K-B	34,200	16.0	13.0	1035

MSA6BF024K	B6VMAX24K-A	24,000	16.0	13.0	840
MSA6BF024K	B6VMAX24K-B	24,000	16.0	13.0	840
MSA6BF030K	B6VMAX30K-A	30,000	16.0	13.0	980
MSA6BF030K	B6VMAX30K-B	30,000	16.0	13.0	980
MSA6BF036K	B6VMAX36K-B	35,600	16.0	13.0	1045

With this Coil					
MSA6BF024K	C7B(A,H)M01824(C,U)-A + TXV	24,000	14.0	12.2	845
MSA6BF024K	C7B(A,H)M01824(C,U)-B + TXV	24,000	14.0	12.2	845
MSA6BF030K	C7B(A,H)M03036(C,U)-A + TXV	27,800	14.0	12.2	860
MSA6BF030K	C7B(A,H)M03036(C,U)-B + TXV	27,800	14.0	12.2	860
MSA6BF030K	C7B(A,H)M030(C,U)-C + TXV	27,800	14.0	12.2	860
MSA6BF036K	C7B(A,H)M03642(C,U)-B + TXV	35,000	14.0	12.2	1325
MSA6BF036K	C7B(A,H)M03648(C,U)-C + TXV	35,000	14.0	12.2	1325

Air handlers and coils used in tables are designed and manufactured by NORDYNE.

See current AHRI Directory for certified combinations and ratings.
www.ahridirectory.org

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.

EXPANDED COOLING PERFORMANCE - LOOSE COIL

MSA6BF024K C7B(A,H)M01824(C,U)-B + TXV

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
700	80	62	23.9	18.7	1.42	23.0	18.6	1.59	22.1	18.7	1.76	21.1	18.4	1.96	20.00	19.40	2.18	18.87	18.31	2.43
	80	67	26.1	15.0	1.43	25.1	14.9	1.60	24.0	15.1	1.77	22.9	14.8	1.97	21.71	14.57	2.19	20.42	13.64	2.44
	80	72	28.7	11.7	1.43	27.6	11.6	1.61	26.4	11.9	1.79	25.2	11.6	1.99	23.85	11.46	2.21	22.35	11.74	2.48
	75	62	23.7	15.2	1.42	22.8	15.1	1.59	21.9	15.2	1.76	20.9	14.9	1.96	19.75	13.74	2.18	18.57	14.74	2.43
800	80	62	24.5	20.2	1.46	23.6	20.6	1.63	22.6	20.1	1.80	21.6	20.0	2.00	20.62	19.82	2.22	19.65	19.49	2.47
	80	67	26.7	15.9	1.46	25.6	16.4	1.64	24.5	16.0	1.81	23.3	15.8	2.01	22.10	15.85	2.23	20.75	15.83	2.49
	80	72	29.3	12.3	1.47	28.2	12.8	1.65	26.9	12.5	1.83	25.6	12.4	2.03	24.20	12.46	2.26	22.62	12.53	2.52
	75	62	24.2	16.1	1.46	23.3	16.5	1.62	22.3	16.1	1.80	21.2	15.9	2.00	20.10	15.86	2.22	18.95	16.29	2.47
900	80	62	25.0	21.8	1.50	24.1	21.9	1.66	23.2	21.4	1.84	22.3	21.2	2.04	21.33	20.61	2.26	20.21	20.13	2.51
	80	67	27.1	17.1	1.50	26.1	17.3	1.67	24.9	16.9	1.85	23.7	16.8	2.05	22.39	16.71	2.27	21.00	16.78	2.53
	80	72	29.8	13.1	1.51	28.6	13.4	1.69	27.3	13.0	1.88	25.9	13.1	2.07	24.37	13.04	2.30	22.81	13.17	2.56
	75	62	24.7	17.3	1.50	23.7	17.4	1.66	22.7	17.0	1.84	21.6	16.9	2.04	20.43	17.31	2.26	19.20	17.34	2.50

MSA6BF030K C7B(A,H)M03036(C,U)-B

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
875	80	62	29.5	22.0	1.67	28.3	21.8	1.84	27.4	23.3	2.03	26.1	23.0	2.25	24.78	24.27	2.50	23.30	22.82	2.79
	80	67	32.0	18.2	1.67	30.7	18.1	1.84	29.4	18.2	2.04	28.0	17.9	2.26	26.51	17.58	2.51	24.88	16.63	2.80
	80	72	35.0	14.1	1.67	33.6	14.1	1.84	32.2	14.4	2.04	30.6	14.1	2.26	29.01	13.87	2.52	27.19	14.23	2.82
	75	62	29.3	18.5	1.67	28.2	18.3	1.84	27.0	18.4	2.03	25.7	18.0	2.25	24.32	16.57	2.50	22.78	17.77	2.79
1000	80	62	30.5	25.2	1.72	29.3	25.7	1.89	28.0	25.2	2.08	26.8	25.0	2.30	25.69	24.74	2.55	24.41	24.21	2.85
	80	67	32.7	19.3	1.72	31.4	19.8	1.89	30.0	19.3	2.08	28.6	19.1	2.30	27.00	19.05	2.56	25.30	18.99	2.85
	80	72	35.7	14.8	1.72	34.2	15.5	1.89	32.7	15.0	2.09	31.0	14.9	2.31	29.25	15.08	2.57	27.27	15.15	2.86
	75	62	30.0	19.6	1.72	28.8	20.0	1.89	27.5	19.5	2.08	26.2	19.2	2.30	24.75	19.13	2.55	23.14	18.98	2.84
1125	80	62	31.1	27.3	1.76	29.9	27.5	1.94	28.9	26.8	2.13	27.9	26.5	2.35	26.53	25.64	2.60	25.04	24.94	2.90
	80	67	33.3	20.6	1.76	31.9	20.8	1.94	30.4	20.3	2.13	28.9	20.2	2.35	27.31	20.00	2.61	25.57	20.04	2.90
	80	72	36.2	15.9	1.76	34.6	16.2	1.93	32.9	15.8	2.13	31.1	15.8	2.35	29.42	15.68	2.61	27.57	15.81	2.91
	75	62	30.6	20.9	1.76	29.3	21.0	1.93	27.9	20.5	2.13	26.5	20.3	2.34	25.07	20.10	2.60	23.57	21.38	2.89

MSA6BF036K C7B(A,H)M03642(C,U)-B + TXV

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
1050	80	62	35.8	28.0	2.01	34.5	27.8	2.23	33.0	27.9	2.46	31.5	27.4	2.73	29.79	28.60	3.04	28.05	26.93	3.37
	80	67	39.1	23.2	2.02	37.5	23.0	2.24	35.9	23.2	2.48	34.1	22.8	2.76	32.35	22.40	3.05	30.45	20.88	3.39
	80	72	43.0	18.0	2.05	41.3	17.9	2.27	39.4	18.3	2.52	37.4	17.9	2.78	35.19	17.65	3.07	33.06	18.04	3.41
	75	62	35.6	23.5	2.01	34.3	23.3	2.23	32.8	23.4	2.46	31.2	22.9	2.72	29.50	21.14	3.04	27.75	22.64	3.37
1200	80	62	36.7	30.0	2.07	35.2	30.5	2.29	33.7	29.8	2.52	32.1	29.3	2.79	30.40	29.00	3.10	28.72	28.48	3.43
	80	67	39.9	24.6	2.08	38.3	25.3	2.31	36.6	24.7	2.55	34.7	24.3	2.82	32.87	24.34	3.11	30.90	24.31	3.45
	80	72	43.7	19.0	2.11	41.7	19.8	2.33	39.6	19.2	2.58	37.7	19.0	2.84	35.67	19.07	3.14	33.53	19.14	3.47
	75	62	36.3	24.9	2.07	34.9	25.5	2.29	33.4	24.8	2.52	31.7	24.5	2.79	29.95	24.26	3.09	28.16	24.14	3.43
1350	80	62	37.3	32.1	2.12	35.8	32.2	2.35	34.3	31.3	2.58	32.7	30.8	2.86	31.09	30.04	3.16	29.49	29.37	3.50
	80	67	40.5	26.4	2.14	38.9	26.7	2.36	37.0	26.0	2.61	35.2	25.9	2.88	33.26	25.67	3.17	31.27	25.75	3.51
	80	72	44.0	20.3	2.16	42.1	20.6	2.39	40.2	20.0	2.64	38.2	20.0	2.90	36.07	19.84	3.20	33.85	20.03	3.53
	75	62	36.9	26.6	2.12	35.4	26.8	2.34	33.9	26.0	2.58	32.1	25.8	2.85	30.33	25.54	3.15	28.47	25.50	3.49

EXPANDED COOLING PERFORMANCE - AIR HANDLER

MSA6BF024K B6EMMX24K-B

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
700	80	62	24.4	19.1	1.27	23.6	19.0	1.43	22.6	19.2	1.61	21.6	18.9	1.80	20.52	19.91	2.03	19.40	18.82	2.28
	80	67	26.6	15.3	1.27	25.6	15.2	1.44	24.5	15.4	1.62	23.4	15.1	1.82	22.23	14.92	2.04	20.94	14.02	2.29
	80	72	29.2	11.9	1.28	28.1	11.8	1.45	27.0	12.1	1.64	25.7	11.9	1.84	24.37	11.71	2.06	22.87	12.01	2.33
	75	62	24.2	15.5	1.27	23.3	15.4	1.43	22.4	15.5	1.61	21.4	15.2	1.80	20.28	14.13	2.02	19.09	15.16	2.27
800	80	62	25.1	20.6	1.28	24.2	21.1	1.45	23.2	20.7	1.63	22.2	20.5	1.82	21.21	20.40	2.05	20.25	20.08	2.30
	80	67	27.3	16.3	1.29	26.2	16.8	1.46	25.1	16.4	1.64	23.9	16.2	1.84	22.70	16.27	2.06	21.35	16.29	2.31
	80	72	29.9	12.5	1.30	28.8	13.1	1.47	27.5	12.7	1.66	26.2	12.7	1.86	24.80	12.77	2.08	23.22	12.86	2.35
	75	62	24.8	16.5	1.28	23.9	16.9	1.45	22.9	16.5	1.63	21.8	16.4	1.82	20.70	16.33	2.04	19.55	16.81	2.29
900	80	62	25.7	22.4	1.30	24.8	22.6	1.47	23.8	22.1	1.65	23.0	21.8	1.84	22.00	21.26	2.07	20.89	20.80	2.32
	80	67	27.8	17.5	1.30	26.7	17.7	1.48	25.6	17.3	1.66	24.3	17.3	1.85	23.06	17.21	2.07	21.67	17.31	2.33
	80	72	30.5	13.4	1.31	29.2	13.7	1.49	27.9	13.4	1.68	26.6	13.4	1.87	25.04	13.40	2.10	23.48	13.56	2.37
	75	62	25.4	17.7	1.30	24.4	17.9	1.47	23.4	17.5	1.64	22.2	17.4	1.84	21.10	17.88	2.06	19.87	17.95	2.31

MSA6BF030K B6EMMX30K-B

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
875	80	62	29.5	23.3	1.68	28.4	23.2	1.86	27.4	23.3	2.05	26.2	23.0	2.27	24.95	24.21	2.52	23.60	22.90	2.80
	80	67	32.1	18.7	1.69	30.9	18.6	1.86	29.7	18.8	2.05	28.4	18.5	2.27	27.06	18.27	2.52	25.54	17.12	2.82
	80	72	35.5	14.5	1.68	34.1	14.5	1.86	32.8	14.9	2.05	31.4	14.6	2.27	29.82	14.45	2.53	27.93	14.81	2.86
	75	62	29.2	18.9	1.68	28.1	18.8	1.86	27.1	18.9	2.05	25.9	18.6	2.26	24.61	17.25	2.52	23.20	18.47	2.80
1000	80	62	30.2	25.1	1.73	29.1	25.6	1.90	28.0	25.1	2.09	26.8	24.9	2.31	25.74	24.78	2.57	24.56	24.35	2.86
	80	67	32.8	19.9	1.73	31.6	20.5	1.90	30.3	20.0	2.10	29.0	19.8	2.32	27.56	19.85	2.57	25.97	19.85	2.87
	80	72	36.2	15.3	1.73	34.8	16.1	1.90	33.3	15.6	2.10	31.8	15.6	2.32	29.96	15.73	2.58	28.02	15.75	2.91
	75	62	29.9	20.1	1.73	28.8	20.6	1.90	27.6	20.1	2.09	26.4	19.9	2.31	25.06	19.85	2.56	23.60	19.78	2.85
1125	80	62	30.9	27.1	1.77	29.8	27.3	1.95	28.8	26.7	2.14	27.8	26.4	2.36	26.60	25.70	2.61	25.27	25.16	2.91
	80	67	33.4	21.3	1.78	32.1	21.6	1.95	30.8	21.1	2.14	29.4	21.0	2.36	27.94	20.92	2.62	26.28	21.01	2.92
	80	72	36.6	16.4	1.77	35.0	16.8	1.95	33.5	16.4	2.15	32.0	16.4	2.37	30.33	16.35	2.63	28.38	16.48	2.96
	75	62	30.4	21.5	1.78	29.3	21.7	1.95	28.1	21.2	2.14	26.8	21.1	2.36	25.44	20.93	2.61	23.99	21.61	2.90

MSA6BF036K B6EMMX36K-B

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
1050	80	62	35.6	28.2	1.79	34.3	28.0	2.01	32.8	28.2	2.25	31.3	27.6	2.51	29.73	28.82	2.81	28.00	27.15	3.15
	80	67	38.9	23.3	1.80	37.3	23.2	2.03	35.7	23.4	2.27	34.0	23.0	2.53	32.20	22.62	2.83	30.28	21.18	3.17
	80	72	42.7	18.0	1.83	41.0	17.9	2.05	39.2	18.3	2.29	37.2	18.0	2.56	35.05	17.72	2.85	32.92	18.12	3.20
	75	62	35.4	23.6	1.79	34.0	23.4	2.01	32.6	23.6	2.25	31.0	23.1	2.51	29.35	21.30	2.81	27.60	22.82	3.15
1200	80	62	36.5	30.3	1.82	35.1	30.8	2.04	33.7	30.1	2.28	32.1	29.6	2.54	30.48	29.24	2.84	28.85	28.61	3.19
	80	67	39.7	24.8	1.83	38.2	25.5	2.06	36.5	24.9	2.30	34.7	24.7	2.56	32.79	24.67	2.86	30.80	24.66	3.20
	80	72	43.4	19.0	1.86	41.5	19.9	2.08	39.6	19.3	2.32	37.7	19.1	2.59	35.63	19.22	2.88	33.47	19.30	3.22
	75	62	36.2	25.2	1.82	34.8	25.7	2.04	33.2	25.0	2.28	31.6	24.7	2.54	29.90	24.62	2.84	28.10	24.51	3.18
1350	80	62	37.3	32.4	1.85	35.9	32.5	2.07	34.4	31.6	2.31	32.8	31.1	2.57	31.31	30.25	2.87	29.68	29.56	3.22
	80	67	40.4	26.7	1.86	38.7	27.0	2.09	37.0	26.4	2.33	35.2	26.3	2.59	33.26	25.99	2.89	31.22	26.10	3.23
	80	72	43.9	20.4	1.89	42.1	20.8	2.11	40.2	20.2	2.35	38.2	20.2	2.62	36.11	20.07	2.91	33.88	20.29	3.25
	75	62	36.8	26.9	1.84	35.4	27.1	2.07	33.8	26.4	2.30	32.1	26.3	2.57	30.36	26.01	2.87	28.52	25.98	3.21

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.

Extreme wind condition mounting kit - 920900



MAYTAG

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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