

MAYTAG

TECHNICAL SPECIFICATIONS

iQ Drive[®]

Model PSA4BI Series



M1200 Product Line

**R-410A Ultra High Efficiency Air Conditioner
UP to 25.5 SEER — 2-3-4 Ton Capacity**

- **M1200 – 12 YEAR ALL PARTS LIMITED WARRANTY**
- **M1200 WITH UPGRADED WARRANTY PACKAGE - 12 YEAR ALL PARTS & LABOR LIMITED WARRANTY**
- **Both the standard and upgraded limited warranty packages offer a 12 Year Dependability Promise to replace the entire unit, if the unit's major component (heat exchanger or compressor) fails within the first 12 years 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 (by consumer or dealer) required for 12-year 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.**
- **Dealer is responsible for registration of labor portion of warranty.**



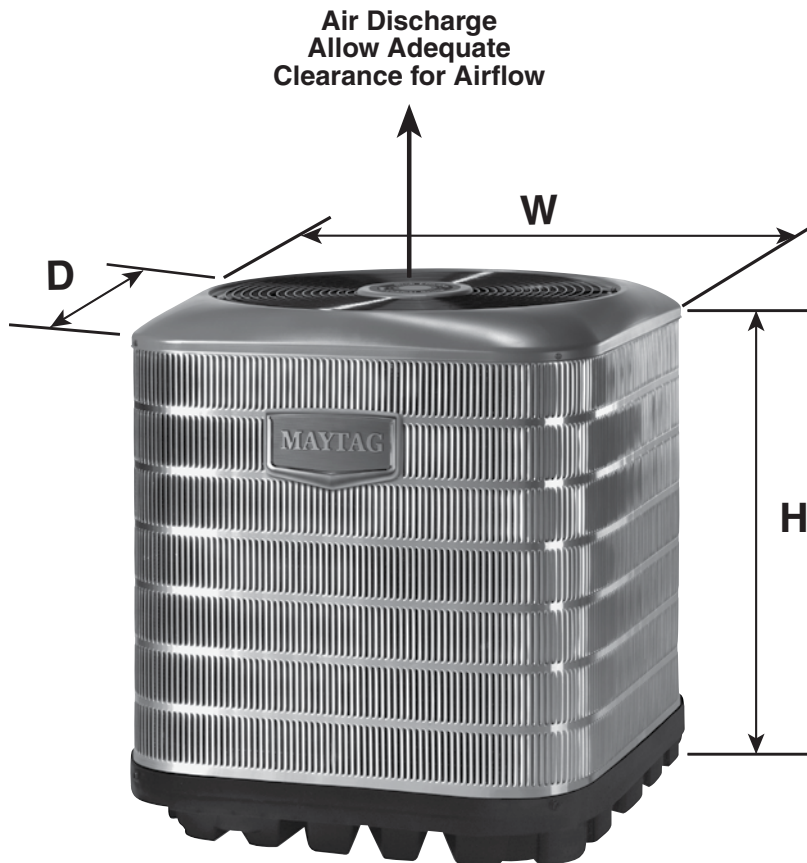
The iQ Drive® Air Conditioning System features fully variable speed compressor technology and variable speed indoor and outdoor motors. The system provides variable cooling capacity as needed. It operates near the nominal rated capacity at the thermostat set point and modulates as temperature difference between set point and room temperature changes. The system may run at additional 18% capacity to provide rapid cooling. The system has a built-in humidity control that will activate humidifier equipment (if supplied), and reduces blower speed if indoor relative humidity is greater than set point (default set at 60%).

Features and Benefits

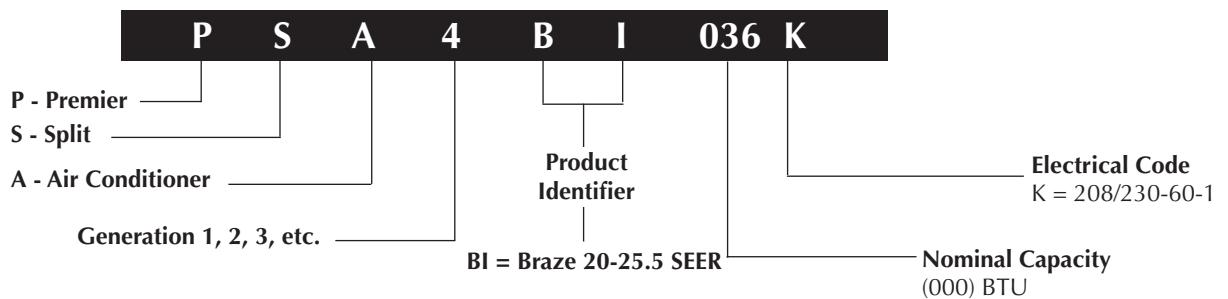
- **iQ Drive:** Inverter driven Panasonic rotary compressor which provides fully variable operation.
- **R-410A Refrigerant:** Environmentally friendly non-ozone depleting refrigerant.
- **Designed using galvanized steel:** With a polyester urethane coat finish. The 950 hour salt spray finish resists 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 brushless motor for long lasting reliability and quiet operation. Requires no maintenance and is completely protected from rain and snow.
- **Compressor Sound Blanket:** Engineered to significantly reduce unwanted compressor noise.
- **Swept-Wing Fan Blade:** Engineered to provide quiet operation. The specific energy absorbing hub is designed to reduce noise while operating through various frequencies.
- **Louvered Condenser Guard:** Durable metal guard protects the coil from yard hazards and extreme weather.
- **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.
- **Low Pressure Switch:** Protects against loss of system refrigerant charge.
- **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.
- **Highest Efficiency with the lowest Sound Levels:** Up to 25.5 SEER with sound ratings of 59-72dB depending upon operating conditions.

DIMENSIONS/OUTDOOR SECTION

PSA4BI	024K	036K	048K
H	33	41	45
W	31 1/4	31 1/4	31 1/4
D	31 1/4	31 1/4	31 1/4



IDENTIFICATION CODE



PHYSICAL AND ELECTRICAL SPECIFICATIONS/OUTDOOR UNITS

Model Number PSA4BI-		024K	036K	048K	
Electrical Data	Volts-Cycles-Phase (1)		208/230-60-1	208/230-60-1	208/230-60-1
	Total Amps		13.0	18.0	22.0
	Delay Fuse Max. (2)		25	35	45
	Min. Circuit Ampacity		16.6	22.9	27.1
Condenser Data	Coil	Area(ft ²)	20.3	22.8	25.4
		Rows-FPI	1 - 22	1 - 22	1 - 22
		Tube Dia	3/8" O.D.	3/8" O.D.	3/8" O.D.
	Fan Motor	Type	Brushless DC	Brushless DC	Brushless DC
		Amps	1.6	1.6	1.6
		HP	0.5	0.5	0.5
	Fan Blade	Dia-# Blades	24" - 2	24" - 2	24" - 2
		SCFM	3200	3400	3600
Compressor Data		RLA	11.4	16.4	20.4
Refrigerant suction line O.D. (all length of liquid line are 3/8" O.D.)		0-24 ft.	3/4"	7/8"	7/8"
		25-39 ft.	3/4"	7/8"	1 1/8" (3)
		40-75 ft.	7/8"(3)	1 1/8" (3)	1 1/8" (3)
Refrigerant charge (R-410A) in ounces for outdoor unit, indoor unit and 15' lineset.			160	168	188
Weight	Net		170	175	180
	Approximate (lbs.)		Ship	180	185

- (1) Operating Voltage Range: 187v min. — 253v max.
 (2) HACR Type Circuit Breakers may be used.
 (3) Requires Reducer.

Note:

Refrigerant Tubing Limitations-The compressor manufacturer imposes a maximum equivalent line set length of 100ft. Furthermore, vertical elevation shall not exceed 50 ft.

ACCESSORIES - CONDENSING UNIT

Controller/Thermostat - 920339G

(Required to operate the IQ Drive System)

Field Controller/Thermostat Kit - 920620G

(includes thermostat, field system wiring booklet, and wire harness)

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

Outdoor Unit Model Number PSA4BI-	Indoor Unit	Range Cooling Capacity @95° OD BTUH	SEER	Nominal Capacity	EER @ Nominal Capacity	Range SCFM
024K	B6VMAI24KB	10,000 - 28,000	25.5	24,000	15.0	500 - 950
036K	B6VMAI36KB	15,000 - 40,000	22	35,000	14.0	680 - 1110
048K	B6VMAI48KC	16,000 - 54,000	22	47,000	13.0	680 - 1455

Minimum operating ambient temperature is 40°F

See current AHRI Directory for certified combinations and ratings.

www.ahridirectory.org

COOLING EXPANDED RATINGS

2 Ton iQ Air Conditioner, with B4VM or B6VMAI Air Handler

Capacity Step	Outdoor Temperature:		60°F		70°F		80°F		90°F		95°F		100°F		110°F		120°F	
	Indoor Tdb - in	Indoor Twb - in	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity
1	80	62	10.5	0.22	9.9	9.9	9.4	0.35	8.9	8.9	8.5	0.45	8.2	8.2	7.5	7.5	6.9	6.9
	80	67	11.0	0.21	10.3	9.4	9.2	0.36	9.1	8.9	8.5	0.45	8.4	8.3	7.6	7.6	7.1	7.1
	80	72	11.8	0.19	11.4	8.8	10.6	0.33	9.9	6.2	5.9	0.48	9.0	5.8	8.1	5.4	6.65	5.0
4	75	62	9.9	0.22	9.3	8.6	8.7	0.36	8.1	7.9	7.7	0.51	7.4	7.4	6.8	6.8	6.2	6.2
	80	62	17.7	0.49	16.8	16.8	16.1	0.72	15.3	15.3	14.8	0.86	14.4	14.4	13.5	13.5	12.4	12.4
	80	67	19.1	0.43	18.0	13.9	17.0	0.71	16.0	13.0	12.6	0.93	14.9	12.4	13.9	12.0	13.4	11.4
8	80	72	20.6	0.45	19.5	11.1	18.5	10.7	0.68	17.3	10.3	0.83	16.0	9.7	14.8	9.2	17.3	13.4
	75	62	16.9	0.48	16.0	14.0	15.1	0.72	14.2	13.1	12.8	0.93	13.2	12.5	12.1	11.6	11.3	
	80	62	25.6	0.94	24.4	23.0	23.2	2.23	22.0	21.5	21.1	1.53	21.4	20.8	19.6	19.0	18.4	
11	80	67	28.6	0.91	27.4	19.5	26.1	1.88	23.9	18.2	17.9	1.60	23.3	17.7	17.1	17.0	16.3	
	80	72	30.8	0.92	29.5	15.2	28.1	1.30	26.6	14.3	14.9	1.58	25.0	13.7	23.4	13.1	18.5	
	75	62	25.8	0.93	24.5	19.5	23.3	1.31	22.0	18.6	15.0	1.50	21.3	17.9	19.4	17.3	18.9	
11	80	62	31.6	1.22	29.9	28.5	1.48	28.3	27.6	26.7	1.99	26.1	25.5	24.0	24.0	22.5	22.5	
	80	67	33.8	1.24	32.1	23.3	30.4	22.6	1.73	28.8	21.9	1.98	27.9	21.1	25.4	20.2	24.8	
	80	72	37.3	1.19	35.3	19.1	33.3	1.71	31.2	17.5	1.96	30.1	17.1	29.2	15.9	27.0		
75	62	30.6	1.20	28.9	23.2	27.3	1.70	25.7	21.5	1.96	24.9	20.8	24.2	20.2	24.2			

2 Ton iQ Air Conditioner, with G7 Furnace, B Cabinet

Capacity Step	Outdoor Temperature:		60°F		70°F		80°F		90°F		95°F		100°F		110°F		120°F	
	Indoor Tdb - in	Indoor Twb - in	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity	Total Capacity	Sensible Capacity
1	80	62	9.4	0.19	8.9	8.9	8.4	0.32	7.9	7.9	7.6	0.45	7.3	7.3	6.7	6.7	6.1	6.1
	80	67	9.8	0.17	9.2	8.4	8.7	0.32	8.1	7.9	7.8	0.45	7.5	7.4	6.9	6.8	6.3	6.3
	80	72	10.5	0.17	10.1	6.0	9.5	0.30	8.8	5.5	5.3	0.43	8.0	5.1	9.4	4.8	6.5	4.5
4	75	62	8.8	0.20	8.3	7.7	7.8	0.32	7.3	7.1	6.9	0.46	6.6	6.6	6.0	6.0	5.5	5.5
	80	62	16.9	0.48	16.1	16.1	15.4	0.70	14.6	14.6	14.1	0.91	13.7	13.7	12.9	12.9	11.9	11.9
	80	67	18.3	0.42	17.2	13.3	16.3	0.69	15.3	12.4	12.1	0.91	14.2	11.9	13.3	11.4	12.2	
8	80	72	19.7	0.44	18.6	10.6	17.7	10.3	0.66	16.6	9.8	0.81	15.9	9.3	14.1	8.8	12.8	8.2
	75	62	16.2	0.47	15.3	13.4	14.4	0.70	13.6	12.5	12.2	0.91	12.7	12.0	11.8	11.5	10.8	
	80	62	25.6	0.87	24.4	23.0	23.2	2.23	22.0	21.5	21.1	1.55	20.8	20.7	19.6	19.6	18.4	
11	80	67	27.2	0.84	26.0	18.5	24.8	1.79	23.5	17.3	1.43	22.8	16.8	20.6	16.2	18.6	19.1	
	80	72	30.8	0.85	29.5	15.2	28.1	1.48	26.6	14.3	1.42	25.8	14.0	25.0	13.7	17.8	21.6	
	75	62	25.8	0.86	24.5	19.5	23.3	1.24	22.0	18.6	14.3	1.53	20.7	17.9	19.4	17.3	18.2	
11	80	62	30.1	1.15	28.5	27.0	1.41	26.9	26.2	1.66	25.5	24.2	24.2	24.2	22.8	23.8	21.3	
	80	67	32.1	1.17	30.5	22.1	28.9	1.5	27.4	20.8	1.91	26.5	20.4	25.7	20.1	24.1	22.5	
	80	72	35.4	1.13	33.5	18.1	31.7	1.74	29.7	16.6	1.89	28.6	16.3	27.7	15.9	25.6	23.6	
75	62	29.0	1.13	27.5	22.0	25.9	1.64	24.5	20.5	1.89	23.7	20.1	23.0	19.8	21.4	19.8		

COOLING EXPANDED RATINGS (Continued)

3 Ton iQ Air Conditioner, with G7 Furnace, C cabinet

Outdoor Temperature:		60°F		70°F		80°F		90°F		95°F		100°F		110°F		120°F		
Capacity Step	Indoor Tdb - in / Twb - in	Total Capacity	Sensible Capacity kW	Total Capacity	Sensible Capacity kW	Total Capacity	Sensible Capacity kW	Total Capacity	Sensible Capacity kW	Total Capacity	Sensible Capacity kW	Total Capacity	Sensible Capacity kW	Total Capacity	Sensible Capacity kW	Total Capacity	Sensible Capacity kW	
1	80	62	15.8	15.8	0.48	15.0	0.56	14.2	14.2	0.67	13.5	0.79	13.1	13.1	0.87	12.7	12.7	0.95
	80	67	17.5	13.9	0.42	16.6	0.54	15.6	13.0	0.66	14.6	0.79	14.0	14.0	0.87	13.5	12.1	0.94
	80	72	19.3	11.9	0.44	18.1	0.52	17.0	11.0	0.64	15.9	0.77	15.4	15.4	0.85	14.8	9.9	0.93
	75	63	16.1	15.2	0.51	15.2	0.58	14.2	14.2	0.69	13.3	0.81	12.8	12.8	0.89	12.4	12.4	0.96
4	80	62	25.2	24.0	0.78	24.1	0.97	23.0	22.9	1.19	22.0	1.40	21.4	21.4	1.50	20.8	20.8	1.61
	80	67	27.4	19.1	0.78	26.2	0.98	24.8	18.0	1.18	23.4	1.39	22.6	22.6	1.49	21.9	16.8	1.60
	80	72	29.6	16.0	0.69	28.1	0.91	26.7	15.0	1.13	25.3	1.44	24.5	24.5	1.47	23.6	13.8	1.59
	75	63	24.0	19.3	0.78	22.9	0.98	21.8	18.4	1.19	20.7	1.40	20.0	20.0	1.51	19.4	17.2	1.62
8	80	62	38.0	30.7	1.65	36.5	30.1	1.90	34.7	2.18	32.8	2.47	31.8	31.8	2.62	30.8	27.2	2.78
	80	67	40.8	26.1	1.62	39.2	25.2	1.89	37.5	2.44	35.6	2.48	34.6	34.6	2.64	33.6	22.6	2.81
	80	72	45.8	21.7	1.61	44.0	21.1	1.88	42.0	2.18	39.9	2.49	38.8	38.8	2.65	37.7	18.7	2.82
	75	63	38.3	26.6	1.66	36.7	26.0	1.90	35.0	2.53	33.2	2.44	32.2	32.2	2.64	31.2	23.4	2.79
11	80	62	44.5	38.2	2.17	42.5	37.0	2.52	40.6	3.62	39.1	35.7	38.1	35.4	3.37	37.2	35.0	3.53
	80	67	46.8	30.3	2.22	45.2	29.5	2.56	43.6	2.88	42.0	28.1	41.2	41.2	2.78	40.4	27.5	3.57
	80	72	52.9	26.7	2.14	50.4	25.7	2.51	48.2	2.49	46.0	24.2	44.9	44.9	2.38	43.7	23.4	3.60
	75	63	42.4	31.2	2.18	40.5	30.3	2.53	38.8	2.94	37.2	28.8	36.5	36.5	2.85	35.6	28.2	3.54

4 Ton iQ Air Conditioner, with B4VM or B6VMAI Air Handler

Outdoor Temperature:		60°F		70°F		80°F		90°F		95°F		100°F		110°F		120°F			
Capacity Step	Indoor Tdb - in / Twb - in	Total Capacity	Sensible Capacity kW	Total Capacity	Sensible Capacity kW	Total Capacity	Sensible Capacity kW	Total Capacity	Sensible Capacity kW	Total Capacity	Sensible Capacity kW	Total Capacity	Sensible Capacity kW	Total Capacity	Sensible Capacity kW	Total Capacity	Sensible Capacity kW		
1	80	62	16.9	16.9	0.44	16.3	0.51	15.6	15.6	0.61	15.0	0.73	14.7	14.7	0.80	14.5	14.5	0.87	
	80	67	18.2	14.3	0.37	17.3	0.48	16.3	14.2	0.60	15.3	0.73	14.7	14.7	0.80	14.2	13.4	0.87	
	80	72	18.0	11.5	0.41	17.8	0.47	16.8	11.1	0.58	16.0	0.71	15.6	15.6	0.78	15.2	10.7	0.86	
	75	62	15.4	15.0	0.46	14.6	0.53	13.9	13.9	0.63	13.4	0.75	13.1	13.1	0.82	12.9	12.9	0.89	
4	80	62	33.4	33.1	1.02	31.4	31.4	1.24	29.7	2.97	28.1	1.71	27.4	27.4	1.83	26.6	26.6	1.94	
	80	67	34.8	25.4	0.93	33.0	24.6	1.19	31.2	2.38	29.4	1.69	28.4	28.4	2.27	27.5	22.3	1.95	
	80	72	38.6	21.6	0.94	36.1	20.6	1.19	33.8	1.96	31.7	1.87	30.6	30.6	1.81	29.5	17.8	1.93	
	75	62	31.7	26.8	1.02	29.6	25.5	1.25	27.7	2.45	26.1	23.6	25.2	25.2	2.31	24.4	22.6	1.95	
8	80	62	51.0	46.7	2.25	48.9	45.7	2.63	46.7	4.46	44.4	43.5	43.8	43.2	4.26	41.9	41.7	3.75	
	80	67	55.9	38.7	2.25	53.6	37.6	2.63	51.0	3.66	48.4	35.5	47.0	47.0	3.50	45.6	34.5	3.82	
	80	72	61.9	32.6	2.30	59.4	31.8	2.69	56.7	3.08	53.8	29.7	52.3	52.3	3.65	50.7	28.6	3.83	
	75	62	51.7	40.1	2.26	49.6	39.0	2.64	47.3	3.79	44.9	36.8	43.7	43.7	3.61	42.4	35.5	3.76	
11	80	62	60.3	55.2	3.42	58.0	54.0	3.81	55.8	5.28	53.4	51.5	46.7	52.1	50.8	49.0	50.8	5.13	
	80	67	65.4	44.9	3.45	62.7	44.0	3.87	60.0	4.31	57.4	42.0	47.5	56.0	41.4	49.8	54.7	40.9	5.21
	80	72	71.0	37.1	3.48	67.9	35.9	3.93	64.9	3.47	62.1	33.8	48.4	60.8	33.3	50.6	59.4	32.7	5.29
	75	62	57.8	44.7	3.43	55.5	43.5	3.83	53.2	4.23	50.9	41.1	46.9	49.6	40.4	49.2	48.4	39.8	5.15

