

iQ Drive®

FS4BI Series

R-410A, Ultra High Efficiency Air Conditioner, 24.5 SEER Residential System 2-3-4 Ton Capacities

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%).



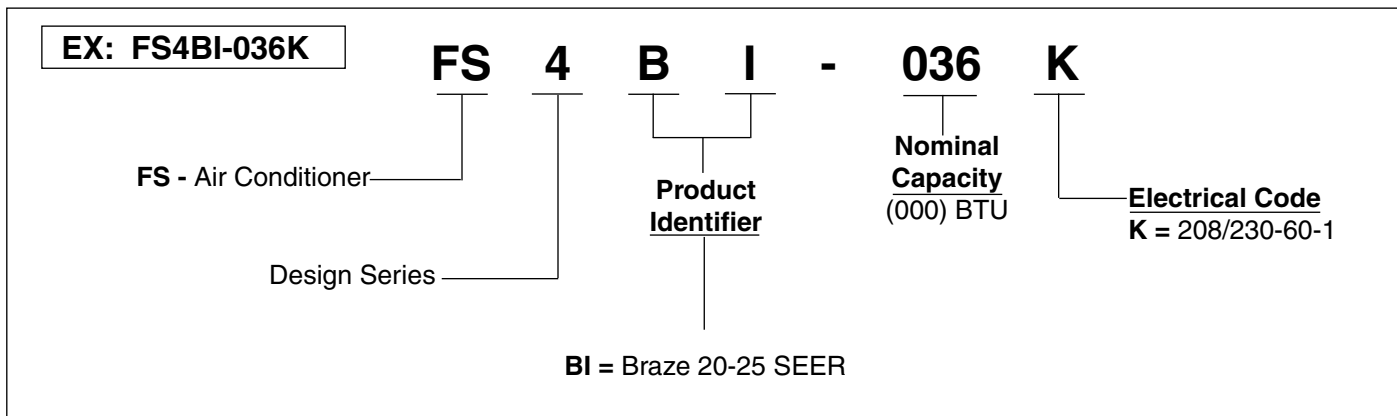
WARRANTY

- **Warranty**
 - This product offers a 10-year all-parts warranty.
 - This product offers a 10 year Quality Pledge to replace the entire unit, if the unit's major component (heat exchanger or compressor) fails within the first 10 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.
 - Consumer product registration required for both 10 year All Parts Warranty and Quality Pledge within a limited period of time after the installation. See current warranty document or visit our consumer web site for warranty details.

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 24.5 SEER with sound ratings of 59-72dB depending upon operating conditions.

MODEL IDENTIFICATION CODES



DIMENSIONS

AIR CONDITIONER OUTDOOR SECTION

FS4BI	024K	036K	048K
H	37	41	45
W	31 1/4	31 1/4	31 1/4
D	31 1/4	31 1/4	31 1/4

PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

24.5 SEER — Ultra High Efficiency — Single Phase

Model Number FS4BI-		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 Approximate (lbs.)	Net	170	175	180	
	Ship	180	185	190	

(1) Operating Voltage Range: 187v min. — 253v max.

(2) HACR Type Circuit Breakers may be used.

(3) Requires Reducers.

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

Controller/Thermostat

SKU 920340D

(Required to operate the IQ Drive System)

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 COOLING CAPACITIES

24.5 SEER — Ultra High Efficiency — Single Phase

Outdoor Unit Model Number FS4BI-	Indoor Unit	Range Cooling Capacity @95° OD BTUH	SEER	Nominal Capacity	EER @ Nominal Capacity	Range SCFM
024K	B6VMAI24K-B	10,000 - 28,000	24.5	24,000	15.0	500 - 950
036K	B6VMAI36K-B	15,000 - 40,000	22	35,000	14.0	680 - 1110
048K	B6VMAI48K-C	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	kW	Sensible Capacity	Total Capacity	kW	Sensible Capacity	Total Capacity	kW	Sensible Capacity	Total Capacity	kW	Sensible Capacity	Total Capacity	kW	Sensible Capacity	Total Capacity	kW	Sensible Capacity	Total Capacity	kW	Sensible Capacity	Total Capacity		
	Step																										
1	80	62	10.5	9.4	0.22	9.9	9.9	0.28	9.4	0.35	8.9	8.9	0.45	8.5	8.5	0.50	8.2	8.2	0.55	7.5	7.5	0.66	6.9	6.9	0.79		
	80	67	11.0	9.7	0.21	10.3	9.4	0.28	9.7	0.36	9.1	8.9	0.45	8.7	8.5	0.50	8.4	8.4	0.54	7.7	7.6	0.64	7.1	7.1	0.75		
	80	72	11.8	7.0	0.19	11.4	6.8	0.25	10.6	0.33	9.9	6.2	0.43	9.4	5.9	0.48	9.0	5.8	0.53	8.1	5.4	0.65	7.2	5.0	0.77		
	75	62	9.9	8.9	0.22	9.3	8.6	0.28	8.7	0.36	8.1	7.9	0.45	7.7	7.7	0.51	7.4	7.4	0.55	6.8	6.8	0.67	6.2	6.2	0.80		
4	80	62	17.7	17.7	0.49	16.8	16.8	0.60	16.1	1.01	15.3	15.3	0.86	14.8	14.8	0.94	14.4	14.4	1.01	13.5	13.5	1.18	12.4	12.4	1.37		
	80	67	19.1	14.3	0.43	18.0	13.9	0.57	17.0	0.71	16.0	13.0	0.86	15.4	12.6	0.93	14.9	12.4	1.00	13.9	12.0	1.14	12.8	11.4	1.29		
	80	72	20.6	11.6	0.45	19.5	11.1	0.56	18.5	0.68	17.3	10.3	0.83	16.6	10.0	0.91	16.0	9.7	0.99	14.8	9.2	1.17	13.4	8.6	1.37		
	75	62	16.9	14.5	0.48	16.0	14.0	0.60	15.1	1.01	14.2	13.1	0.86	13.7	12.8	0.93	13.2	12.5	1.01	12.3	12.1	1.16	11.3	11.3	1.34		
8	80	62	25.6	23.7	0.94	24.4	23.0	1.13	23.2	1.33	22.0	21.5	1.53	21.4	21.1	1.62	20.8	20.7	1.72	19.6	19.6	1.90	18.4	18.4	2.07		
	80	67	28.6	20.0	0.91	27.4	19.5	1.10	26.1	1.29	24.7	18.2	1.50	24.0	17.9	1.60	23.3	17.7	1.71	21.7	17.0	1.93	20.1	16.3	2.15		
	80	72	30.8	15.6	0.92	29.5	15.2	1.11	28.1	1.30	26.6	14.3	1.49	25.8	14.0	1.58	25.0	13.7	1.68	23.4	13.1	1.85	21.6	12.3	2.01		
	75	62	25.8	20.0	0.93	24.5	19.5	1.12	23.3	1.31	22.0	18.6	1.50	21.3	18.3	1.60	20.7	17.9	1.70	19.4	17.3	1.89	18.0	16.5	2.06		
11	80	62	31.6	29.4	1.22	29.9	28.5	1.48	28.3	1.73	26.8	26.7	1.99	26.1	26.1	2.11	25.5	25.5	2.23	24.0	24.0	2.45	22.5	22.5	2.64		
	80	67	33.8	23.9	1.24	32.1	23.3	1.49	30.4	1.73	28.8	21.9	1.98	27.9	21.5	2.11	27.1	21.1	2.23	25.4	20.2	2.48	23.7	19.2	2.72		
	80	72	37.3	19.8	1.19	35.3	19.1	1.46	33.3	1.71	31.2	17.5	1.96	30.1	17.1	2.08	29.2	16.7	2.19	27.0	15.9	2.39	24.8	15.1	2.56		
	75	62	30.6	24.1	1.20	28.9	23.2	1.46	27.3	1.70	25.7	21.5	1.96	24.9	21.1	2.08	24.2	20.8	2.20	22.5	20.2	2.42	20.8	19.4	2.62		

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	kW	Sensible Capacity	Total Capacity	kW	Sensible Capacity	Total Capacity	kW	Sensible Capacity	Total Capacity	kW	Sensible Capacity	Total Capacity	kW	Sensible Capacity	Total Capacity	kW	Sensible Capacity	Total Capacity	kW	Sensible Capacity	Total Capacity		
	Step																										
1	80	62	9.4	9.4	0.19	8.9	8.9	0.25	8.4	0.32	7.9	7.9	0.41	7.6	7.6	0.45	7.3	7.3	0.49	6.7	6.7	0.60	6.1	6.1	0.71		
	80	67	9.8	8.7	0.19	9.2	8.4	0.25	8.7	0.32	8.1	7.9	0.41	7.8	7.6	0.45	7.5	7.4	0.49	6.9	6.9	0.58	6.3	6.3	0.68		
	80	72	10.5	6.2	0.17	10.1	6.0	0.22	9.5	0.30	8.8	5.5	0.38	8.4	5.3	0.43	8.0	5.1	0.48	7.2	4.8	0.58	6.5	4.5	0.70		
	75	62	8.8	8.0	0.20	8.3	7.7	0.25	7.8	0.32	7.3	7.1	0.41	6.9	6.9	0.46	6.6	6.6	0.50	6.0	6.0	0.60	5.5	5.5	0.72		
4	80	62	16.9	16.9	0.48	16.1	16.1	0.59	15.4	0.70	14.6	14.6	0.84	14.1	14.1	0.91	13.7	13.7	0.99	12.9	12.9	1.15	11.9	11.9	1.33		
	80	67	18.3	13.7	0.42	17.2	13.3	0.55	16.3	0.69	15.3	12.4	0.84	14.7	12.1	0.91	14.2	11.9	0.97	13.3	11.4	1.11	12.2	10.9	1.26		
	80	72	19.7	11.1	0.44	18.6	10.6	0.54	17.7	0.66	16.6	9.8	0.81	15.9	9.5	0.89	15.3	9.3	0.96	14.1	8.8	1.14	12.8	8.2	1.34		
	75	62	16.2	13.8	0.47	15.3	13.4	0.58	14.4	0.70	13.6	12.5	0.84	13.1	12.2	0.91	12.7	12.0	0.98	11.8	11.5	1.13	10.8	10.8	1.31		
8	80	62	25.6	23.7	0.87	24.4	23.0	1.06	23.2	1.26	22.0	21.5	1.46	21.4	21.1	1.55	20.8	20.7	1.65	19.6	19.6	1.83	18.4	18.4	2.01		
	80	67	27.2	19.0	0.84	26.0	18.5	1.03	24.8	1.22	23.5	17.3	1.43	22.8	17.0	1.53	22.1	16.8	1.64	20.6	16.2	1.86	19.1	15.5	2.08		
	80	72	30.8	15.6	0.85	29.5	15.2	1.04	28.1	1.23	26.6	14.3	1.42	25.8	14.0	1.51	25.0	13.7	1.61	23.4	13.1	1.78	21.6	12.3	1.94		
	75	62	25.8	20.0	0.86	24.5	19.5	1.05	23.3	1.24	22.0	18.6	1.43	21.3	18.3	1.53	20.7	17.9	1.63	19.4	17.3	1.82	18.0	16.5	2.00		
11	80	62	30.1	28.0	1.15	28.5	27.0	1.41	26.9	1.66	25.5	25.4	1.92	24.8	24.8	2.04	24.2	24.2	2.16	22.8	22.8	2.38	21.3	21.3	2.57		
	80	67	32.1	22.7	1.17	30.5	22.1	1.42	28.9	1.66	27.4	20.8	1.91	26.5	20.4	2.04	25.7	20.1	2.16	24.1	19.2	2.41	22.5	18.2	2.65		
	80	72	35.4	18.8	1.13	33.5	18.1	1.39	31.7	1.64	29.7	16.6	1.89	28.6	16.3	2.01	27.7	15.9	2.12	25.6	15.1	2.33	23.6	14.3	2.49		
	75	62	29.0	22.9	1.13	27.5	22.0	1.39	25.9	1.64	24.5	20.5	1.89	23.7	20.1	2.02	23.0	19.8	2.13	21.4	19.2	2.35	19.8	18.4	2.55		

COOLING EXPANDED RATINGS (Continued)

3 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				
		kW	Capacity	kW	Capacity	kW	Capacity	kW	Capacity	kW	Capacity	kW	Capacity	kW	Capacity	kW	Capacity	kW	Capacity	kW	Capacity	kW				
1	80	62	16.5	16.5	0.48	15.7	0.56	14.9	14.9	0.66	14.1	14.1	0.79	13.7	13.7	0.86	13.3	13.3	0.94	12.5	12.5	1.11	11.7	11.7	1.31	
	80	67	18.3	14.6	0.42	17.3	0.53	16.3	13.6	0.65	15.2	13.2	0.79	14.7	12.9	0.85	14.1	12.7	0.93	12.9	12.1	1.08	11.7	11.5	1.24	
	80	72	20.1	12.5	0.44	19.0	0.51	17.8	11.5	0.63	16.6	11.0	0.76	16.1	10.7	0.84	15.5	10.3	0.92	14.3	9.6	1.11	13.1	8.7	1.31	
4	80	62	16.9	15.9	0.50	15.9	0.58	14.9	14.9	0.68	13.9	13.9	0.80	13.4	13.4	0.88	12.9	12.9	0.95	11.9	11.9	1.12	10.9	10.9	1.32	
	80	62	26.3	25.0	0.77	25.1	24.5	0.97	24.0	24.0	1.18	22.9	22.9	1.39	22.4	22.4	1.49	21.7	21.7	1.60	20.3	20.3	1.81	18.5	18.5	2.03
	80	67	28.6	19.9	0.78	27.3	19.4	0.97	25.9	18.8	1.17	24.4	18.2	1.38	23.7	17.9	1.49	22.8	17.5	1.60	21.1	16.7	1.82	19.3	15.8	2.05
8	80	72	30.9	16.7	0.68	29.4	16.2	0.90	27.9	15.7	1.12	26.4	15.1	1.35	25.5	14.8	1.46	24.7	14.4	1.58	22.6	13.6	1.80	20.3	12.6	2.05
	75	62	25.1	20.1	0.77	23.9	19.8	0.97	22.8	19.2	1.18	21.6	18.7	1.39	20.9	18.3	1.50	20.2	18.0	1.61	18.7	17.2	1.82	16.9	16.1	2.03
	80	62	38.4	31.0	1.51	36.9	30.5	1.76	35.1	29.7	2.04	33.2	28.6	2.33	32.2	28.1	2.48	31.2	27.5	2.64	29.0	26.1	2.95	26.7	24.6	3.29
11	80	67	41.3	26.4	1.48	39.7	25.5	1.74	37.9	24.7	2.03	36.0	23.8	2.34	35.0	23.3	2.50	34.0	22.8	2.67	31.8	21.8	3.02	29.5	20.7	3.40
	80	72	46.3	22.0	1.47	44.5	21.3	1.74	42.5	20.6	2.03	40.4	19.8	2.35	39.3	19.4	2.51	38.1	18.9	2.68	35.7	17.9	3.01	33.1	16.7	3.36
	75	62	38.7	26.9	1.51	37.1	26.3	1.76	35.4	25.6	2.05	33.5	24.7	2.34	32.5	24.2	2.50	31.6	23.6	2.65	29.4	22.4	2.97	27.2	21.1	3.29
11	80	62	45.0	38.6	2.03	43.0	37.4	2.38	41.0	36.6	2.74	39.5	36.1	3.07	38.6	35.8	3.23	37.6	35.4	3.39	36.2	35.1	3.69	34.7	34.7	3.99
	80	67	47.3	30.6	2.08	45.7	29.9	2.42	44.1	29.1	2.76	42.5	28.5	3.09	41.7	28.2	3.26	40.9	27.9	3.43	39.3	27.3	3.77	37.7	26.7	4.10
	80	72	53.5	27.0	2.00	51.0	26.0	2.37	48.8	25.2	2.76	46.6	24.4	3.12	45.4	24.1	3.29	44.2	23.7	3.46	41.9	23.0	3.78	39.4	22.5	4.09
75	62	42.8	31.5	2.04	40.9	30.6	2.39	39.2	29.7	2.74	37.7	29.1	3.08	36.9	28.8	3.24	36.0	28.5	3.40	34.4	28.0	3.70	32.7	27.7	4.00	

3 Ton iQ Air Conditioner, with G7 Furnace, B 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				
		kW	Capacity	kW	Capacity	kW	Capacity	kW	Capacity	kW	Capacity	kW	Capacity	kW	Capacity	kW	Capacity	kW	Capacity	kW	Capacity	kW				
1	80	62	15.6	15.6	0.50	14.8	0.58	14.1	14.1	0.69	13.3	13.3	0.82	13.0	13.0	0.90	12.6	12.6	0.98	11.8	11.8	1.16	11.0	11.0	1.37	
	80	67	17.3	13.8	0.43	16.4	0.55	15.4	12.9	0.68	14.4	12.4	0.82	13.9	12.2	0.89	13.3	12.0	0.97	12.2	11.4	1.12	11.1	10.9	1.29	
	80	72	19.1	11.8	0.46	17.9	11.3	0.54	16.8	10.9	0.66	15.7	10.4	0.79	15.2	10.1	0.88	14.7	9.8	0.96	13.6	9.1	1.15	12.4	8.3	1.37
4	75	62	16.0	15.1	0.52	15.0	0.60	14.1	14.1	0.71	13.2	13.2	0.84	12.7	12.7	0.91	12.2	12.2	0.99	11.3	11.3	1.17	10.3	10.3	1.37	
	80	62	25.2	23.9	0.79	24.0	23.4	1.00	22.9	22.9	1.21	21.9	21.4	1.42	21.4	21.4	1.53	20.7	20.7	1.64	19.4	19.4	1.86	17.7	17.7	2.08
	80	67	27.3	19.1	0.79	26.1	18.5	0.99	24.8	18.0	1.20	23.4	17.4	1.41	22.6	17.1	1.52	21.8	16.7	1.63	20.2	16.0	1.86	18.5	15.1	2.10
8	80	72	29.5	15.9	0.70	28.1	15.5	0.92	26.7	15.0	1.15	25.2	14.4	1.38	24.4	14.1	1.50	23.6	13.8	1.62	21.6	13.0	1.85	19.4	12.0	2.10
	75	62	24.0	19.3	0.79	22.9	19.0	1.00	21.8	18.4	1.21	20.6	17.9	1.43	20.0	17.5	1.54	19.4	17.2	1.65	17.9	16.4	1.86	16.2	15.4	2.08
	80	62	37.8	30.5	1.66	36.2	29.9	1.91	34.5	29.1	2.19	32.6	28.2	2.48	31.6	27.6	2.63	30.6	27.1	2.78	28.5	25.7	3.10	26.2	24.2	3.43
11	80	67	40.6	25.9	1.63	39.0	25.1	1.89	37.2	24.3	2.18	35.4	23.4	2.48	34.4	22.9	2.65	33.4	22.4	2.81	31.3	21.4	3.17	29.0	20.3	3.54
	80	72	45.5	21.6	1.61	43.7	21.0	1.88	41.8	20.3	2.18	39.7	19.5	2.50	38.6	19.0	2.66	37.5	18.6	2.82	35.1	17.6	3.15	32.5	16.5	3.51
	75	62	38.1	26.5	1.66	36.5	25.9	1.91	34.8	25.1	2.20	33.0	24.3	2.49	32.0	23.8	2.64	31.0	23.2	2.80	28.9	22.1	3.12	26.8	20.8	3.43
11	80	62	44.2	38.0	2.18	42.3	36.8	2.52	40.3	36.0	2.88	38.9	35.4	3.22	37.9	35.2	3.37	37.0	34.8	3.53	35.5	34.5	3.83	34.1	34.1	4.13
	80	67	46.5	30.1	2.23	45.0	29.3	2.56	43.4	28.6	2.90	41.8	28.0	3.24	41.0	27.7	3.41	40.2	27.4	3.57	38.6	26.8	3.91	37.0	26.3	4.25
	80	72	52.6	26.6	2.14	50.1	25.6	2.52	47.9	24.8	2.91	45.8	24.0	3.27	44.6	23.7	3.44	43.5	23.3	3.61	41.1	22.6	3.93	38.7	22.1	4.24
75	62	42.1	31.0	2.18	40.2	30.1	2.53	38.5	29.2	2.89	37.0	28.7	3.22	36.3	28.4	3.39	35.4	28.0	3.54	33.8	27.5	3.84	32.2	27.3	4.14	

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	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	15.8	0.48	15.0	0.56	14.2	0.67	13.5	0.79	13.1	0.87	12.7	12.7	12.0	1.12	11.2	1.33
	80	67	17.5	0.42	16.6	0.54	15.6	0.66	14.6	0.79	14.0	0.87	13.5	13.5	12.4	1.09	11.2	1.25
	80	72	19.3	0.44	18.1	0.52	17.0	0.64	15.9	0.77	15.4	0.85	14.8	14.8	13.7	1.12	12.5	1.33
	75	63	16.1	0.51	15.2	0.58	14.2	0.69	13.3	0.81	12.8	0.89	12.4	12.4	11.4	1.13	10.4	1.33
4	80	62	25.2	0.40	24.1	0.38	23.0	0.46	22.0	0.54	21.4	0.62	20.8	20.8	19.4	1.82	17.7	2.04
	80	67	27.4	0.19	26.2	0.37	24.8	0.51	23.4	0.66	22.6	0.71	21.9	21.9	20.2	1.60	18.5	2.06
	80	72	29.6	0.16	28.1	0.35	26.7	0.50	25.3	0.64	24.5	0.70	23.6	23.6	21.7	1.30	18.1	2.06
	75	63	24.0	0.38	22.9	0.46	21.8	0.54	20.7	0.62	20.0	0.70	19.4	19.4	17.9	1.62	16.2	2.04
8	80	62	38.0	0.30	36.5	0.31	34.7	0.32	32.8	0.33	31.8	0.34	30.8	30.8	28.6	0.30	26.4	3.42
	80	67	40.8	0.26	39.2	0.25	37.5	0.24	35.6	0.24	34.6	0.24	33.6	33.6	31.4	0.25	29.2	3.54
	80	72	45.8	0.21	44.0	0.21	42.0	0.21	39.9	0.21	38.8	0.21	37.7	37.7	35.3	0.21	32.7	3.50
	75	63	38.3	0.26	36.7	0.26	35.0	0.26	33.2	0.26	32.2	0.26	31.2	31.2	29.1	0.26	26.9	3.43
11	80	62	44.5	0.38	42.5	0.37	40.6	0.36	38.9	0.35	38.1	0.35	37.2	37.2	35.0	0.35	33.3	4.13
	80	67	46.8	0.30	45.2	0.29	43.6	0.28	42.0	0.28	41.2	0.28	40.4	40.4	38.9	0.28	37.3	4.24
	80	72	52.9	0.27	50.4	0.27	48.2	0.26	46.0	0.26	44.9	0.26	43.7	43.7	41.4	0.26	38.9	4.23
	75	63	42.4	0.31	40.5	0.30	38.8	0.29	37.2	0.28	36.5	0.28	35.6	35.6	34.0	0.28	32.3	4.14

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	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	16.9	0.44	16.3	0.51	15.6	0.61	15.0	0.73	14.7	0.80	14.5	14.5	14.1	1.02	13.9	1.21
	80	67	18.2	0.37	17.3	0.48	16.3	0.60	15.3	0.73	14.7	0.80	14.2	14.2	13.2	1.03	12.1	1.20
	80	72	18.0	0.41	17.8	0.47	16.8	0.58	16.0	0.71	15.6	0.78	15.2	15.2	14.9	1.01	14.5	1.18
4	75	62	15.4	0.46	14.6	0.53	13.9	0.63	13.4	0.75	13.1	0.82	12.9	12.9	12.6	1.04	12.4	1.21
	80	62	33.4	1.02	31.4	1.24	29.7	1.48	28.1	1.71	27.4	1.83	26.6	26.6	25.0	2.18	23.4	2.41
	80	67	34.8	0.93	33.0	1.19	31.2	1.44	29.4	1.69	28.4	1.82	27.5	27.5	25.7	2.16	23.9	2.45
	80	72	38.6	0.94	36.1	1.19	33.8	1.44	31.7	1.69	30.6	1.81	29.5	29.5	27.3	2.18	25.1	2.42
8	75	62	31.7	0.26	29.6	0.25	27.7	0.25	26.1	0.25	25.2	0.25	24.4	24.4	22.8	0.25	21.1	2.41
	80	62	51.0	0.47	48.9	0.45	46.7	0.46	44.4	0.46	43.5	0.46	41.9	41.9	39.3	0.46	36.5	4.43
	80	67	55.9	0.38	53.6	0.36	51.0	0.36	48.4	0.36	47.0	0.36	45.6	45.6	42.6	0.36	39.5	4.63
	80	72	61.9	0.32	59.4	0.31	56.7	0.30	53.8	0.29	52.3	0.29	50.7	50.7	47.5	0.29	44.1	4.47
11	75	62	51.7	0.40	49.6	0.39	47.3	0.39	44.9	0.39	43.7	0.39	42.4	42.4	39.7	0.39	36.9	4.43
	80	62	60.3	0.55	58.0	0.54	55.8	0.52	53.4	0.51	52.1	0.50	50.8	50.8	48.4	0.50	46.1	6.13
	80	67	65.4	0.49	62.7	0.40	60.0	0.43	57.4	0.42	56.0	0.41	54.7	54.7	52.0	0.41	48.4	6.17
	80	72	71.0	0.37	67.9	0.35	64.9	0.34	62.1	0.33	60.8	0.33	59.4	59.4	56.8	0.33	54.2	6.22
75	62	57.8	0.47	55.5	0.45	53.2	0.43	50.9	0.41	49.6	0.40	48.4	48.4	45.8	0.40	43.2	6.13	

COOLING EXPANDED RATINGS (Continued)

4 Ton iQ Air Conditioner, with G7 Gas Furnace, C 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	Capacity	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	67	18.2	14.3	0.39	17.3	14.3	0.51	16.3	14.2	0.63	15.3	13.9	0.78	14.7	13.7	0.85	14.2	13.4	0.93	13.2	12.8	1.09	12.1	12.0	1.27	
	80	72	18.0	11.5	0.43	17.8	11.4	0.50	16.8	11.1	0.62	16.0	10.9	0.75	15.6	10.8	0.83	15.2	10.7	0.91	14.9	10.5	1.07	14.5	10.2	1.25	
	75	62	15.4	15.0	0.49	14.6	14.6	0.57	13.9	13.9	0.67	13.4	13.4	0.80	13.1	13.1	0.87	12.9	12.9	0.95	12.6	12.6	1.11	12.4	12.4	1.29	
4	80	62	33.3	33.0	1.03	31.3	31.3	1.26	29.6	29.6	1.49	28.0	28.0	1.73	27.2	27.2	1.85	26.5	26.5	1.96	24.9	24.9	2.20	23.3	23.3	2.44	
	80	67	34.6	25.3	0.94	32.8	24.5	1.20	31.0	23.7	1.45	29.2	23.0	1.71	28.3	22.6	1.84	27.4	22.2	1.97	25.6	21.5	2.22	23.8	20.7	2.48	
	80	72	38.4	21.5	0.95	35.9	20.5	1.20	33.7	19.5	1.45	31.6	18.6	1.71	30.4	18.2	1.83	29.3	17.8	1.95	27.2	16.9	2.20	25.0	16.2	2.45	
8	80	62	52.1	47.6	2.57	50.0	46.6	2.95	47.7	45.6	3.32	45.3	44.4	3.70	44.1	43.5	3.88	42.8	42.6	4.06	40.1	40.1	4.41	37.3	37.3	4.73	
	80	67	57.1	39.5	2.57	54.7	38.4	2.95	52.1	37.3	3.34	49.4	36.3	3.73	48.0	35.7	3.93	46.5	35.2	4.13	43.5	34.0	4.54	40.4	32.7	4.95	
	80	72	63.2	33.3	2.62	60.6	32.4	3.01	57.9	31.4	3.40	54.9	30.3	3.79	53.4	29.8	3.97	51.8	29.2	4.16	48.5	27.8	4.49	45.1	26.3	4.78	
11	80	62	61.6	56.3	3.74	59.3	55.1	4.13	57.0	54.0	4.54	54.5	52.6	4.98	53.2	51.8	5.21	51.9	51.1	5.44	49.5	49.4	5.93	47.1	47.1	6.44	
	80	67	66.8	45.8	3.77	64.1	44.9	4.19	61.3	44.0	4.62	58.6	42.9	5.07	57.2	42.3	5.30	55.9	41.7	5.53	53.1	40.5	6.00	50.4	39.2	6.49	
	80	72	72.5	37.9	3.80	69.4	36.7	4.26	66.3	35.5	4.71	63.5	34.5	5.17	62.1	34.0	5.38	60.7	33.4	5.61	58.0	32.5	6.08	55.3	31.5	6.54	
75	62	59.1	45.6	3.75	56.7	44.4	4.15	54.4	43.2	4.57	52.0	41.9	5.01	50.6	41.3	5.23	49.4	40.6	5.46	46.7	38.0	5.94	44.1	36.8	6.44		

4 Ton iQ Air Conditioner, with G7 Gas Furnace, D 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	Capacity	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	67	17.9	14.1	0.39	17.0	14.1	0.50	16.0	14.0	0.63	15.0	13.7	0.77	14.5	13.5	0.84	14.0	13.2	0.92	12.9	12.6	1.08	11.9	11.8	1.26	
	80	72	17.8	11.4	0.43	17.5	11.3	0.49	16.5	11.0	0.61	15.7	10.8	0.74	15.4	10.6	0.82	15.0	10.5	0.90	14.7	10.3	1.06	14.3	10.1	1.24	
	75	63	15.1	14.8	0.49	14.4	14.4	0.56	13.7	13.7	0.66	13.2	13.2	0.79	13.0	13.0	0.86	12.8	12.8	0.94	12.5	12.5	1.09	12.2	12.2	1.27	
4	80	62	33.6	33.3	1.03	31.5	31.5	1.26	29.8	29.8	1.49	28.2	28.2	1.73	27.5	27.5	1.85	26.7	26.7	1.96	25.1	25.1	2.20	23.5	23.5	2.44	
	80	67	34.9	25.5	0.94	33.1	24.7	1.20	31.3	23.9	1.46	29.5	23.2	1.71	28.6	22.8	1.84	27.6	22.4	1.97	25.8	21.6	2.22	24.0	20.8	2.48	
	80	72	38.7	21.7	0.96	36.2	20.6	1.20	33.9	19.7	1.45	31.8	18.8	1.71	30.7	18.4	1.83	29.6	17.9	1.95	27.4	17.1	2.20	24.0	20.8	2.45	
8	80	62	52.1	47.6	2.54	50.0	46.6	2.92	47.7	45.6	3.29	45.3	44.4	3.67	44.1	43.5	3.85	42.8	42.6	4.03	40.1	40.1	4.38	37.3	37.3	4.70	
	80	67	57.1	39.5	2.54	54.7	38.4	2.92	52.1	37.3	3.31	49.4	36.3	3.70	48.0	35.7	3.90	46.5	35.2	4.10	43.5	34.0	4.51	40.4	32.7	4.92	
	80	72	63.2	33.3	2.59	60.6	32.4	2.98	57.9	31.4	3.37	54.9	30.3	3.75	53.4	29.8	3.94	51.8	29.2	4.12	48.5	27.8	4.46	45.1	26.3	4.75	
11	80	62	61.6	56.3	3.71	59.3	55.1	4.09	57.0	54.0	4.51	54.5	52.6	4.95	53.2	51.8	5.18	51.9	51.1	5.41	49.5	49.4	5.90	47.1	47.1	6.41	
	80	67	66.8	45.8	3.74	64.1	44.9	4.16	61.3	44.0	4.59	58.6	42.9	5.04	57.2	42.3	5.27	55.9	41.7	5.50	53.1	40.5	5.97	50.4	39.2	6.46	
	80	72	72.5	37.9	3.77	69.4	36.7	4.22	66.3	35.5	4.68	63.5	34.5	5.13	62.1	34.0	5.35	60.7	33.4	5.58	58.0	32.5	6.05	55.3	31.5	6.51	
75	63	59.1	45.6	3.72	56.7	44.4	4.12	54.4	43.2	4.54	52.0	41.9	4.97	50.6	41.3	5.20	49.4	40.6	5.43	46.7	38.0	5.91	44.1	36.8	6.41		

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