

TECHNICAL SPECIFICATIONS

FT4BI Series

iQ Drive®

R-410A, Ultra High Efficiency Heat Pump, 22 SEER Residential System 2-3-4 Ton Capacities

The iQ Drive® Heat Pump System features fully variable speed compressor technology and variable speed indoor and outdoor motors. The system provides variable cooling capacity as needed modulating over a 5 degree F° temperature range. 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%).



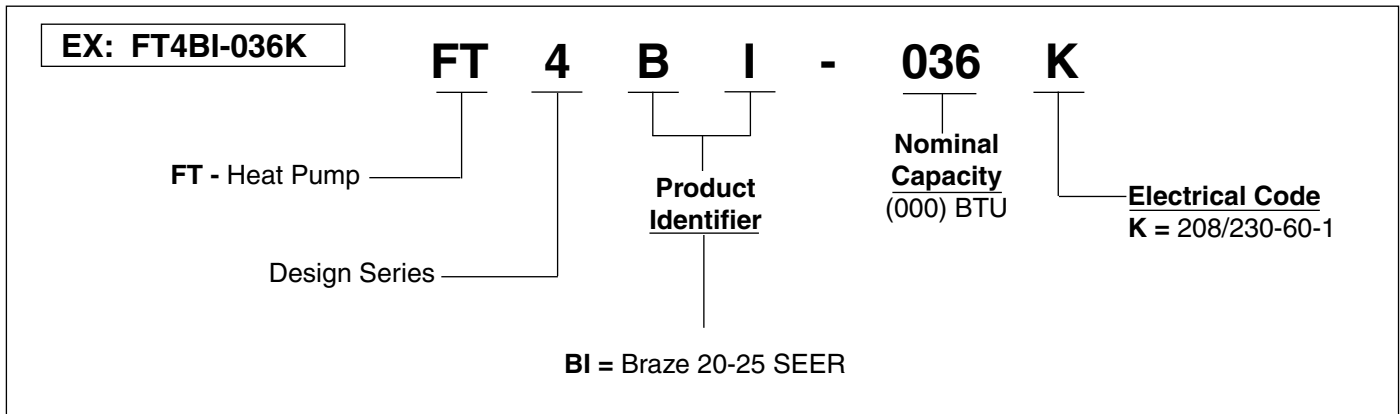
WARRANTY

- 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 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.
- **Full Port Service Valves:** Full port brass ball valves provide low pressure drop and ease of service. The valves are actuated by 1/4 turn full open to full close.
- **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 22 SEER with sound ratings of 59-72dB depending upon operating conditions.

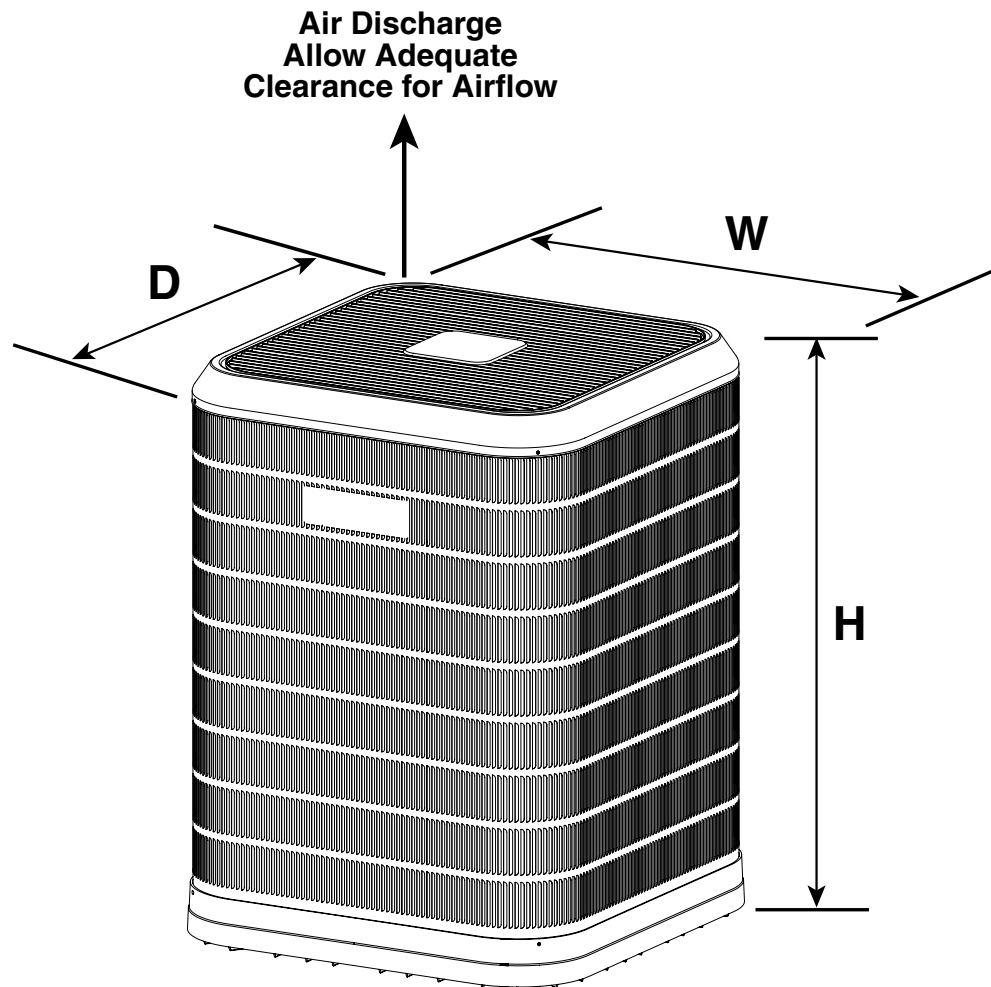
MODEL IDENTIFICATION CODES



DIMENSIONS

AIR CONDITIONER OUTDOOR SECTION

FT4BI	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

22 SEER — Ultra High Efficiency — Single Phase

Model Number FT4BI-		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 - 20	1 - 20	1 - 20
		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.		171	203	203	
Weight	Net	190	220	225	
Approximate (lbs.)	Ship	200	230	235	

(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 920621*

*Revision "D" or later

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

22 SEER — Ultra High Efficiency — Single Phase

Outdoor Unit Model Number FT4BI-	Indoor Unit	Range Cooling Capacity @95° OD BTUH	EER @ Nominal Capacity	SEER	Nominal Capacity	Range SCFM
024K	B4VM-E24K-B	11,300-26,900	14.6	22	23,000	500-950
036K	B4VM-E36K-B	14,200-40,700	13.0	21	35,000	680-1110
048K	B4VM-E48K-C	14,300-48,000	12.5	21	44,500	725-1800

NOTE: Each system was operated at its nominal capacity.
Indoor conditions were 80F° dry-bulb temperature and 67F° wet-bulb temperature (approx. 51% relative humidity, 95F° outdoor temperature).

SYSTEM HEATING CAPACITIES

22 SEER — Ultra High Efficiency — Single Phase

Outdoor Unit Model Number FT4BI-	Indoor Unit	Range Heating Capacity @47° OD BTUH	Nominal Capacity	HSPF	COP @ Nominal Capacity	CFM
024K	B4VM-E24K-B	6,500-24,100	22,600	10	3.9	500-950
036K	B4VM-E36K-B	11,300-39,900	34,000	9.6	3.4	680-1110
048K	B4VM-E48K-C	11,400-47,800	46,000	10	3.6	725-1800

Minimum operating ambient temperature is 12F°

NOTE: Each system was operated at its nominal capacity.
Indoor conditions were 70F° dry-bulb temperature and 47F° dry bulb temperature, 43F° wet bulb outdoor temperature

See current AHRI Directory for certified combinations and ratings.

www.ahridirectory.org

EXPANDED RATINGS - 2 TON WITH G7 FURNACE

COOLING

Speed	Outdoor Temperature:		60°F		70°F		80°F		90°F		95°F		100°F		110°F		120°F			
	Indoor Tdb - °F	Indoor Twb - °F	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	
Minimum	80	62	13.5	13.5	0.36	12.9	12.9	0.43	12.2	11.5	11.1	11.1	10.7	10.7	9.8	9.8	0.92	8.8	8.8	1.08
	80	67	14.2	11.4	0.34	13.4	10.9	0.43	12.6	11.8	11.4	9.9	10.9	9.7	10.1	9.3	0.89	9.1	8.9	1.03
	80	72	15.2	9.0	0.30	14.8	8.8	0.38	13.8	12.8	12.2	7.8	11.7	7.5	10.5	7.0	0.90	9.3	6.4	1.06
Intermediate	75	63	12.9	10.9	0.36	12.2	10.5	0.43	11.4	10.2	10.2	9.5	9.7	9.3	8.9	8.8	0.93	8.0	8.0	1.09
	80	62	17.3	17.3	0.56	16.6	16.6	0.66	15.8	15.0	14.5	14.5	14.1	14.1	13.1	13.1	1.27	12.0	12.0	1.48
	80	67	18.6	14.2	0.50	17.7	13.7	0.62	16.7	15.7	15.1	12.6	14.6	12.4	13.5	11.9	1.23	12.4	11.4	1.40
Nominal	80	72	20.0	11.2	0.52	19.1	10.9	0.61	18.2	17.0	16.4	9.8	15.8	9.6	14.4	9.0	1.26	12.9	8.3	1.49
	75	63	16.8	13.4	0.55	15.9	13.0	0.65	15.1	14.1	13.7	11.9	13.2	11.7	12.1	11.2	1.25	11.0	10.7	1.45
	80	62	25.0	24.0	1.01	23.9	23.5	1.19	22.9	21.9	21.3	16.5	20.7	20.7	19.5	19.5	1.95	18.1	18.1	2.14
Maximum	80	67	27.1	18.9	0.98	25.9	18.7	1.15	24.6	23.3	22.6	17.7	21.9	17.4	20.4	16.6	1.97	18.9	15.7	2.22
	80	72	29.4	16.1	0.99	28.1	15.6	1.16	26.6	25.2	24.3	14.2	23.5	14.0	21.6	13.2	1.89	19.7	12.4	2.07
	75	63	24.6	18.8	1.00	23.4	18.2	1.16	22.3	21.1	20.4	17.1	19.8	16.7	18.4	16.0	1.92	16.9	15.3	2.13
Maximum	80	62	30.0	27.8	1.36	28.6	27.1	1.57	27.2	26.5	25.2	20.4	24.6	24.6	23.1	23.1	2.53	21.4	21.4	2.76
	80	67	32.0	23.2	1.39	30.6	22.6	1.58	29.2	27.7	26.9	21.2	26.1	20.8	24.4	20.1	2.55	22.6	19.2	2.84
	80	72	35.3	18.8	1.33	33.7	18.2	1.55	32.0	30.1	29.1	16.5	28.1	16.1	25.9	15.3	2.46	23.6	14.3	2.67
75	63	29.4	21.8	1.34	28.1	21.1	1.55	26.7	25.2	24.5	19.5	23.7	19.2	22.0	18.6	2.50	20.1	17.7	2.74	

HEATING

Speed	Outdoor Temperature:	12°F		17°		20°		30°		40°		47°		50°		60°							
		Indoor Tdb - °F	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP					
Minimum	60	2.2	1.79	0.36	2.8	2.31	0.36	3.2	2.62	0.36	4.5	3.70	0.35	5.8	4.80	0.36	6.7	5.80	0.34	8.4	7.51	0.33	
	70	2.0	1.40	0.42	2.7	1.84	0.42	3.0	2.10	0.42	4.3	3.01	0.42	5.5	3.97	0.41	6.4	4.69	0.40	8.0	6.16	0.38	
	80	1.9	1.14	0.50	2.6	1.51	0.50	2.8	1.68	0.50	4.0	2.39	0.49	5.3	3.18	0.49	6.0	3.73	0.47	7.6	4.90	0.46	
Intermediate	60	6.8	3.20	0.62	7.6	3.45	0.64	8.0	3.67	0.64	9.6	4.27	0.66	11.2	4.90	0.67	12.4	5.43	0.67	14.7	6.51	0.66	
	70	6.5	2.63	0.73	7.3	2.86	0.74	7.7	3.01	0.75	9.2	3.51	0.77	10.8	4.05	0.78	11.9	4.46	0.78	14.1	5.34	0.77	
	80	6.3	2.21	0.84	7.0	2.39	0.85	7.4	2.52	0.86	8.8	2.93	0.88	10.3	3.38	0.89	11.4	3.75	0.89	13.5	4.47	0.88	
Nominal	60	11.2	2.48	1.32	13.2	2.87	1.35	13.8	2.96	1.37	17.2	3.56	1.42	20.6	4.03	1.50	22.9	4.40	1.53	24.0	4.57	5.00	1.60
	70	10.8	2.13	1.48	12.4	2.41	1.51	13.4	2.56	1.53	16.7	3.05	1.60	19.9	3.50	1.67	22.2	3.81	1.71	23.2	3.93	4.31	1.80
	80	10.4	1.84	1.66	12.4	2.14	1.70	12.9	2.20	1.72	16.1	2.63	1.79	19.3	3.03	1.87	21.4	3.26	1.92	22.5	3.41	3.73	2.02
Maximum	60	14.6	2.83	1.51	16.0	3.05	1.54	16.9	3.20	1.54	19.6	3.60	1.60	22.5	4.03	1.64	24.6	4.32	1.67	25.6	4.45	4.85	1.73
	70	14.1	2.47	1.67	15.4	2.65	1.70	16.2	2.76	1.72	18.9	3.13	1.77	21.7	3.50	1.82	23.7	3.75	1.86	24.6	3.86	4.22	1.92
	80	13.5	2.13	1.86	14.8	2.30	1.88	15.6	2.41	1.90	18.2	2.72	1.96	20.8	3.03	2.01	22.8	3.25	2.06	23.6	3.36	3.67	2.12

EXPANDED RATINGS - 3 TON WITH G7 FURNACE

COOLING

Speed	Outdoor Temperature:		60°F			70°F			80°F			90°F			95°F			100°F			110°F			120°F				
	Indoor Tdb - °F	Indoor Twb - °F	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	kW	Sensible Capacity	Total Capacity	
Minimum	80	62	16.2	0.44	15.4	0.55	14.5	0.66	13.8	13.8	0.80	13.6	0.88	13.3	0.95	13.0	13.0	0.95	13.0	13.0	1.11							
	80	67	17.3	0.38	13.9	0.52	15.2	0.66	14.1	12.9	0.80	13.6	0.87	13.1	0.94	12.1	11.7	1.08										
	80	72	17.8	0.41	17.0	0.51	15.9	0.63	14.9	9.8	0.78	14.6	0.86	14.2	0.93	13.8	9.3	1.10										
	75	63	14.9	0.46	13.9	0.57	13.2	0.68	12.5	12.0	0.82	12.2	1.19	0.89	11.9	1.17	0.96											
	80	62	24.9	0.91	23.7	1.08	22.5	1.26	21.5	21.5	1.46	20.9	1.57	20.4	1.68	19.2	19.2	1.92										
Intermediate	80	67	27.1	0.91	25.7	1.07	24.3	1.25	22.9	17.9	1.45	22.2	1.76	21.4	1.73	20.0	16.6	1.93										
	80	72	29.3	0.80	27.6	0.99	26.2	1.47	24.7	14.2	1.43	24.0	1.54	23.1	1.64	21.4	12.8	1.91										
	75	63	24.1	0.91	22.8	1.08	21.7	1.26	20.5	16.7	1.47	19.8	1.64	19.3	1.61	17.9	15.5	1.92										
	80	62	37.6	1.17	35.9	1.36	34.3	1.54	32.5	29.2	1.59	31.5	1.73	30.3	1.89	28.2	26.8	3.19										
	80	67	38.4	1.07	37.5	1.26	36.2	1.45	34.6	23.8	1.45	33.6	1.64	32.5	1.82	30.1	21.9	3.26										
Nominal	80	72	44.2	2.21	42.1	2.13	40.2	2.05	38.0	19.7	2.61	36.9	19.3	2.77	35.6	18.8	3.25											
	75	63	36.7	2.53	34.9	2.03	33.3	2.37	31.7	22.9	2.60	30.7	22.6	2.75	29.8	22.1	2.90											
	80	62	43.2	2.28	41.3	2.59	39.3	2.93	37.3	34.1	3.27	36.1	33.4	3.45	34.8	32.7	3.61											
	80	67	45.5	2.33	44.0	3.05	42.2	2.95	40.2	28.2	3.29	39.1	27.7	3.48	37.9	27.3	3.66											
	80	72	51.4	2.60	49.1	2.51	46.6	2.41	44.0	23.1	3.33	42.4	22.6	3.51	41.0	22.0	3.69											
Maximum	75	63	42.0	2.94	40.1	2.59	38.1	2.76	36.2	26.6	3.28	35.1	26.1	3.46	34.0	25.5	3.63											

HEATING

Speed	Outdoor Temperature:		12°F			17°			20°			30°			40°			47°			50°			60°		
	Indoor Tdb - °F	Indoor Twb - °F	Total Capacity	kW	COP	Total Capacity	kW	COP	Total Capacity	kW	COP	Total Capacity	kW	COP	Total Capacity	kW	COP	Total Capacity	kW	COP	Total Capacity	kW	COP	Total Capacity	kW	COP
Minimum	60	63	6.3	0.62	2.97	7.1	0.64	3.26	7.4	0.64	3.36	9.1	0.66	4.04	10.7	0.66	4.78	12.1	5.45	12.6	0.65	5.75	14.7	7.01	0.62	
	70	60	6.0	0.71	2.48	6.7	0.72	2.70	7.1	0.73	2.85	8.6	0.74	3.39	10.2	0.74	4.04	11.5	4.59	12.0	0.73	4.86	14.0	5.89	0.70	
	80	58	5.8	0.80	2.11	6.4	0.83	2.28	6.8	0.83	2.38	8.3	0.85	2.86	9.8	0.85	3.36	11.0	3.85	11.5	0.83	4.08	13.5	4.96	0.80	
	60	11.1	2.87	1.13	3.06	12.1	1.15	3.06	12.7	1.17	3.18	15.0	1.19	3.67	17.5	1.22	4.19	19.5	4.61	20.3	1.24	4.76	23.4	5.42	1.26	
	70	10.8	2.51	1.26	2.68	11.8	1.29	2.68	12.4	1.30	2.79	14.6	1.34	3.19	17.0	1.37	3.65	18.9	4.01	19.8	1.38	4.17	22.8	4.75	1.41	
Intermediate	80	10.6	2.21	1.40	2.35	11.5	1.43	2.35	12.1	1.44	2.44	14.3	1.49	2.81	16.7	1.52	3.23	18.5	3.54	19.4	1.53	3.66	22.3	4.19	1.56	
	60	20.8	2.90	2.11	2.88	22.8	2.18	3.06	24.0	2.23	3.16	28.0	2.39	3.44	32.0	2.55	3.68	34.9	3.85	36.1	2.66	3.90	40.1	4.10	2.87	
	70	20.2	2.55	2.32	2.70	22.2	2.41	2.70	23.4	2.46	2.78	27.3	2.64	3.04	31.2	2.81	3.26	34.0	3.40	35.2	2.93	3.46	39.1	3.63	3.16	
	80	19.8	2.29	2.54	2.42	21.7	2.62	2.42	22.9	2.68	2.50	26.7	2.87	2.73	30.6	2.94	3.06	33.3	3.07	34.4	3.18	3.10	38.3	3.27	3.44	
	60	25.2	2.63	2.80	2.78	28.7	2.88	2.78	29.3	2.93	2.87	33.1	3.13	3.13	37.4	3.38	3.38	40.4	3.52	41.6	3.36	3.59	45.8	3.80	3.53	
Maximum	70	24.9	2.42	3.01	2.71	25.5	3.11	2.55	28.4	3.16	2.63	32.7	3.34	2.87	36.9	3.08	3.08	39.9	3.23	41.1	3.62	3.29	45.3	3.48	3.81	
	80	24.3	2.16	3.28	2.65	2.29	3.38	2.77	2.36	3.44	2.36	32.0	2.58	3.64	36.1	2.78	3.81	39.0	2.90	40.2	2.95	3.99	44.3	3.13	4.14	

EXPANDED RATINGS - 4 TON WITH G7 FURNACE

COOLING

Speed	Outdoor Temperature:			60°F			70°F			80°F			90°F			95°F			100°F			110°F			120°F		
	Indoor Tdb - °F	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		
																										Indoor Tdb - °F	Total Capacity
Minimum	80	16.9	16.9	0.40	16.0	16.0	0.51	15.1	15.1	0.62	14.3	14.3	0.76	14.0	14.0	0.84	13.7	13.7	0.91	13.3	13.3	1.06					
	80	18.2	13.7	0.34	16.9	13.5	0.48	15.7	13.2	0.62	14.6	12.8	0.76	14.1	12.6	0.84	13.5	12.4	0.91	12.5	11.9	1.06					
	80	18.0	11.5	0.37	17.5	11.3	0.47	16.3	10.8	0.60	15.3	10.5	0.74	14.9	10.3	0.82	14.5	10.2	0.90	14.0	10.0	1.05					
	75	15.4	14.1	0.42	14.4	13.7	0.53	13.5	13.2	0.66	12.9	12.9	0.78	12.6	12.6	0.86	12.4	12.4	0.93	12.1	12.1	1.07					
Intermediate	80	31.0	30.8	1.09	29.7	29.7	1.28	28.4	28.4	1.48	27.1	27.1	1.69	26.4	26.4	1.80	25.6	25.6	1.91	23.8	23.8	2.15	21.9	21.9	2.39		
	80	32.3	23.6	1.00	31.2	23.1	1.22	29.8	22.6	1.45	28.3	22.0	1.68	27.4	21.7	1.80	26.5	21.4	1.92	24.6	20.5	2.17	22.4	19.5	2.42		
	80	35.9	20.1	1.01	34.2	19.4	1.22	32.3	18.8	1.44	30.6	18.1	1.67	29.6	17.7	1.79	28.4	17.2	1.90	26.1	16.2	2.15	23.5	15.2	2.39		
	75	29.9	23.7	1.09	28.3	22.9	1.28	26.9	22.3	1.49	25.4	21.6	1.70	24.6	21.1	1.81	23.7	20.8	1.92	22.0	19.9	2.15	20.0	18.9	2.38		
Nominal	80	47.3	43.4	2.64	45.4	42.3	2.96	43.4	41.4	3.29	41.3	40.3	3.64	40.2	39.8	3.83	39.2	39.1	4.01								
	80	50.9	38.8	2.64	48.9	37.8	2.96	46.6	36.8	3.30	44.3	35.8	3.67	43.0	35.3	3.87	41.7	34.8	4.08								
	80	55.9	29.4	2.62	53.0	28.4	2.97	50.2	27.3	3.36	47.6	26.4	3.73	46.4	25.9	3.92	45.2	25.4	4.10								
	75	46.0	33.5	2.65	44.1	32.7	2.96	42.0	31.7	3.30	39.9	30.7	3.66	38.7	30.1	3.84	37.7	29.7	4.03								
Maximum	80	55.6	50.8	3.44	53.5	49.9	3.79																				
	80	60.3	45.6	3.46	57.8	44.5	3.85																				
	80	65.4	34.2	3.49	62.6	33.1	3.91																				
	75	54.2	39.4	3.45	52.2	38.5	3.81																				

HEATING

Speed	Outdoor Temperature:			12°F			17°			20°			30°			40°			47°			50°			60°		
	Indoor Tdb - °F	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW		
																										Indoor Tdb - °F	Total Capacity
Minimum	60	5.6	2.70	0.61	6.3	2.99	0.62	6.8	3.22	0.62	8.4	4.13	0.60	10.1	4.63	0.64	11.2	5.24	0.63	11.8	5.56	0.62	13.6	6.67	0.59		
	70	5.4	2.23	0.71	6.1	2.48	0.72	6.5	2.63	0.73	8.0	3.18	0.74	9.6	3.81	0.74	10.8	4.31	0.73	11.3	4.55	0.73	13.0	5.46	0.70		
	80	5.1	1.84	0.82	5.8	2.03	0.84	6.3	2.19	0.84	7.8	2.81	0.81	9.3	3.20	0.85	10.4	3.60	0.85	10.9	3.81	0.84	12.5	4.54	0.81		
	60	14.1	3.33	1.24	15.2	3.53	1.27	16.0	3.65	1.28	18.5	4.14	1.31	21.3	4.62	1.35	23.4	5.05	1.36	24.2	5.22	1.36	27.3	5.85	1.37		
Intermediate	70	13.6	2.85	1.40	14.8	3.03	1.43	15.5	3.15	1.44	17.9	3.55	1.48	20.6	4.00	1.51	22.6	4.34	1.52	23.4	4.49	1.53	26.5	5.04	1.54		
	80	13.3	2.50	1.56	14.4	2.64	1.59	15.1	2.75	1.61	17.5	3.12	1.65	20.1	3.49	1.69	22.1	3.80	1.70	22.8	3.92	1.71	25.9	4.42	1.72		
	60	27.2	2.67	2.99	30.3	2.87	3.09	32.1	2.98	3.16	37.9	3.33	3.33	43.1	3.60	3.51	46.5	3.76	3.62	47.8	3.81	3.67	52.1	4.02	3.80		
	70	26.9	2.41	3.27	30.0	2.60	3.38	31.8	2.70	3.45	37.5	3.01	3.65	42.7	3.25	3.84	46.0	3.40	3.96	47.4	3.46	4.01	51.5	3.62	4.17		
Nominal	80	26.3	2.15	3.58	29.3	2.32	3.70	31.1	2.41	3.78	36.6	2.69	3.99	41.7	2.90	4.21	44.9	3.03	4.35	46.2	3.08	4.40	50.3	3.23	4.56		
	60	30.1	2.59	3.41	32.7	2.75	3.49	34.1	2.84	3.53	39.2	3.14	3.66	44.1	3.41	3.79	47.3	3.58	3.87	48.8	3.65	3.92	53.4	3.89	4.02		
	70	30.0	2.42	3.64	32.6	2.57	3.72	34.1	2.65	3.77	39.1	2.93	3.92	44.0	3.18	4.05	47.3	3.35	4.14	48.7	3.41	4.18	53.3	3.64	4.30		
	80	29.6	2.21	3.93	32.2	2.35	4.02	33.6	2.43	4.05	38.6	2.68	4.22	43.4	2.91	4.37	46.6	3.06	4.46	48.0	3.12	4.51	52.6	3.33	4.64		

EXPANDED RATINGS - 2 TON IQ HEAT PUMP WITH B4VM AIR HANDLER

COOLING

Speed	Outdoor Temperature:		60°F		70°F		80°F		90°F		95°F		100°F		110°F		120°F			
	Indoor Tdb - °F	Indoor Twb - °F	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	kW	
Minimum	80	62	13.5	13.5	0.34	12.9	0.41	12.2	12.2	0.50	11.5	0.61	11.1	10.7	0.74	9.8	9.8	0.88	8.8	1.03
	80	67	14.2	10.9	0.33	13.4	0.41	12.6	10.0	0.51	11.8	0.62	11.3	10.9	0.73	10.0	8.9	0.85	9.1	0.98
	80	72	15.2	9.0	0.29	14.8	0.36	13.8	8.4	0.47	12.8	0.58	12.2	11.7	0.71	10.5	7.0	0.86	9.3	1.01
Intermediate	80	62	17.5	17.5	0.52	16.8	0.61	16.0	16.0	0.71	15.2	0.84	14.7	14.3	0.99	13.3	13.3	1.17	12.2	1.37
	80	67	18.9	13.8	0.46	17.9	0.57	16.9	12.9	0.70	15.9	0.83	15.4	14.8	0.98	13.7	11.6	1.13	12.6	1.29
	80	72	20.3	11.4	0.48	19.4	0.56	18.4	10.7	0.67	17.2	0.81	16.6	16.0	0.97	14.6	9.1	1.16	13.1	1.38
Nominal	75	63	17.0	13.6	0.51	16.1	0.60	15.3	12.8	0.71	14.3	0.83	13.9	13.4	0.98	12.3	11.4	1.15	11.2	1.34
	80	62	25.4	24.4	0.97	24.3	23.9	23.3	23.3	1.32	22.3	2.23	21.7	21.1	1.69	19.8	19.8	1.87	18.4	2.06
	80	67	27.6	18.6	0.94	26.4	18.5	25.1	18.2	1.28	23.7	1.77	23.0	22.3	1.68	20.8	16.4	1.90	19.2	2.13
Maximum	80	72	29.9	16.4	0.95	28.6	15.9	27.1	15.4	1.29	25.6	1.48	24.7	23.9	1.64	22.0	13.4	1.82	20.0	1.99
	75	63	25.0	19.1	0.96	23.8	18.5	22.7	18.0	1.30	21.5	1.77	20.8	20.2	1.67	18.7	16.3	1.85	17.2	2.05
	80	62	30.5	28.3	1.31	29.1	27.6	27.7	27.0	1.73	26.3	2.62	25.6	25.0	2.19	23.5	23.5	2.43	21.8	2.65
Maximum	80	67	32.5	22.9	1.33	31.2	22.4	29.7	21.8	1.73	28.2	2.12	27.4	26.6	2.20	24.8	19.8	2.46	23.0	2.73
	80	72	35.9	19.1	1.28	34.3	18.5	32.6	17.9	1.71	30.6	1.72	29.6	28.6	2.16	26.4	15.6	2.37	24.0	2.57
	75	63	29.9	22.2	1.29	28.6	21.5	27.2	20.9	1.70	25.6	2.02	24.9	24.1	2.16	22.4	18.9	2.40	20.5	2.63

HEATING

Speed	Outdoor Temperature:		12°F		17°		20°		30°		40°		47°		50°		60°			
	Indoor Tdb - °F	Indoor Tdb - °F	Total Capacity	COP	Total Capacity	COP	Total Capacity	COP	Total Capacity	COP	Total Capacity	COP	Total Capacity	COP	Total Capacity	COP	Total Capacity	COP	kW	
Minimum	60	60	2.5	2.14	0.34	3.1	2.64	0.34	3.5	2.95	0.34	4.7	4.00	0.34	6.8	6.03	0.33	8.4	8.00	0.31
	70	70	2.3	1.74	0.40	2.9	2.16	0.40	3.3	2.41	0.40	4.5	3.26	0.40	6.5	4.92	0.39	8.0	6.53	0.36
	80	80	2.2	1.40	0.47	2.8	1.73	0.47	3.1	1.93	0.47	4.2	2.62	0.47	6.1	3.95	0.46	7.6	5.24	0.43
Intermediate	60	60	6.9	3.29	0.61	7.7	3.59	0.63	8.1	3.77	0.63	9.8	4.39	0.65	11.4	5.07	0.66	14.9	6.89	0.65
	70	70	6.6	2.72	0.71	7.4	2.96	0.73	7.8	3.11	0.74	9.4	3.62	0.76	11.0	4.18	0.77	14.3	5.52	0.76
	80	80	6.4	2.28	0.82	7.1	2.48	0.84	7.5	2.60	0.85	9.0	3.03	0.87	10.5	3.50	0.88	13.7	4.82	0.87
Nominal	60	60	13.6	3.04	1.31	14.9	3.26	1.34	15.7	3.40	1.36	18.5	3.84	1.41	21.3	4.26	1.47	27.1	5.11	1.56
	70	70	13.1	2.62	1.47	14.0	2.73	1.50	15.2	2.93	1.52	17.9	3.31	1.59	20.6	3.68	1.64	26.2	4.40	1.75
	80	80	12.7	2.26	1.65	14.0	2.43	1.69	14.7	2.53	1.71	17.3	2.85	1.78	20.0	3.17	1.84	25.4	3.80	1.96
Maximum	60	60	14.8	2.94	1.48	16.2	3.16	1.51	17.1	3.29	1.52	19.9	3.73	1.57	22.9	4.16	1.61	29.1	5.02	1.70
	70	70	14.3	2.55	1.64	15.6	2.74	1.67	16.4	2.85	1.69	19.2	3.23	1.74	22.1	3.61	1.79	28.0	4.36	1.88
	80	80	13.7	2.21	1.82	15.0	2.38	1.85	15.8	2.48	1.87	18.5	2.81	1.93	21.2	3.14	1.98	26.9	3.79	2.08

EXPANDED RATINGS - 3 TON IQ HEAT PUMP WITH B4VM AIR HANDLER

COOLING

Speed	Outdoor Temperature:		60°F			70°F			80°F			90°F			95°F			100°F			110°F			120°F			
	Indoor Tdb - °F	Twb - °F	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	
Minimum	80	62	16.9	16.9	0.43	16.0	16.0	0.54	15.1	15.1	0.65	14.4	14.4	0.78	14.1	14.1	0.86	13.8	13.8	0.93	13.5	13.5	1.09				
	80	67	18.0	14.1	0.38	13.6	16.9	0.51	15.8	13.1	0.65	14.7	12.6	0.78	14.2	12.3	0.85	13.6	12.0	0.92	12.5	11.4	1.05				
Intermediate	80	72	18.5	11.4	0.40	17.7	11.1	0.50	16.5	10.7	0.62	15.5	10.2	0.76	15.2	10.1	0.84	14.8	9.9	0.91	14.4	9.7	1.08				
	75	63	15.5	13.8	0.45	14.5	13.3	0.56	13.7	12.9	0.67	13.0	12.5	0.80	12.7	12.4	0.87	12.4	12.2	0.94	12.1	12.0	1.10				
Nominal	80	62	25.9	24.6	0.86	24.6	23.9	1.02	23.4	23.3	1.19	22.3	22.3	1.38	21.7	21.7	1.49	21.2	21.2	1.59	19.9	19.9	1.82	18.3	18.3	2.06	
	80	67	28.1	19.8	0.86	26.7	18.9	1.01	25.3	18.3	1.18	23.8	17.8	1.37	23.0	17.5	1.48	22.3	17.2	1.59	20.7	16.6	1.82	19.2	15.6	2.08	
Maximum	80	72	30.4	16.4	0.76	28.7	15.9	0.94	27.2	15.3	1.14	25.7	14.7	1.35	24.9	14.4	1.46	24.0	14.0	1.56	22.2	13.3	1.81	20.2	12.4	2.05	
	75	63	25.0	18.9	0.86	23.7	18.5	1.02	22.5	17.9	1.19	21.3	17.3	1.39	20.6	17.0	1.49	20.0	16.7	1.60	18.6	16.1	1.82	17.0	15.2	2.06	
Nominal	80	62	39.2	33.0	1.72	37.4	32.1	1.97	35.7	31.2	2.25	33.9	30.4	2.53	32.8	29.7	2.67	31.6	29.0	2.82	29.4	27.9	3.12				
	80	67	39.9	23.9	1.69	39.1	24.7	1.95	37.7	24.5	2.23	36.0	23.8	2.53	35.0	23.4	2.69	33.9	22.9	2.85	31.3	21.9	3.19				
Maximum	80	72	46.0	23.0	1.67	43.9	22.2	1.95	41.9	21.4	2.24	39.6	20.5	2.55	38.4	20.1	2.71	37.1	19.6	2.86	34.3	18.5	3.18				
	75	63	38.2	26.4	1.72	36.4	25.6	1.98	34.7	24.7	2.25	33.0	23.9	2.54	32.0	23.5	2.69	31.0	23.0	2.83	29.1	22.1	3.17				
Maximum	80	62	45.0	38.5	2.23	43.0	37.5	2.53	40.9	36.5	2.86	38.9	35.5	3.20	37.6	34.8	3.57	36.2	34.1	3.53							
	80	67	47.4	32.3	2.28	45.8	30.5	2.57	43.9	29.2	2.88	41.8	28.2	3.22	40.7	27.8	3.40	39.5	27.3	3.58							
Maximum	80	72	53.5	27.1	2.19	51.1	26.1	2.52	48.5	25.1	2.89	45.8	24.1	3.25	44.2	23.5	3.43	42.7	22.9	3.61							
	75	63	43.7	30.6	2.23	41.8	29.6	2.53	39.7	28.7	2.87	37.7	27.7	3.21	36.6	27.2	3.38	35.4	26.6	3.55							

HEATING

Speed	Outdoor Temperature:		12°F			17°			20°			30°			40°			47°			50°			60°		
	Indoor Tdb - °F	Tdb - °F	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW
Minimum	60	60	6.0	2.98	0.59	6.8	3.29	0.60	7.2	3.48	0.61	8.9	4.15	0.63	10.6	4.91	0.63	11.9	5.52	0.63	12.4	5.80	0.63	14.3	6.86	0.61
	70	70	5.7	2.51	0.67	6.4	2.76	0.68	6.9	2.92	0.69	8.4	3.49	0.71	10.1	4.13	0.71	11.3	4.64	0.71	11.8	4.87	0.71	13.6	5.76	0.69
Intermediate	80	80	5.5	2.11	0.76	6.2	2.33	0.78	6.6	2.46	0.79	8.1	2.94	0.81	9.7	3.48	0.82	10.8	3.90	0.81	11.3	4.10	0.81	13.1	4.85	0.79
	60	60	11.1	2.91	1.12	12.1	3.11	1.14	12.7	3.24	1.15	15.0	3.71	1.18	17.5	4.24	1.21	19.5	4.65	1.23	20.3	4.84	1.23	23.4	5.51	1.25
Nominal	70	70	10.8	2.54	1.25	11.8	2.71	1.27	12.4	2.82	1.28	14.6	3.23	1.32	17.0	3.70	1.35	18.9	4.06	1.37	19.8	4.22	1.37	22.8	4.81	1.39
	80	80	10.6	2.23	1.39	11.5	2.39	1.41	12.1	2.49	1.43	14.3	2.85	1.47	16.7	3.25	1.50	18.5	3.57	1.52	19.4	3.71	1.53	22.3	4.23	1.54
Maximum	60	60	20.4	2.76	2.16	22.6	2.95	2.24	23.9	3.06	2.28	28.1	3.39	2.42	32.1	3.69	2.55	34.9	3.89	2.63	36.0	3.96	2.66	39.7	4.22	2.76
	70	70	19.8	2.44	2.38	22.0	2.61	2.47	23.3	2.71	2.52	27.4	3.01	2.67	31.3	3.27	2.81	34.0	3.44	2.90	35.1	3.51	2.93	38.7	3.74	3.04
Maximum	80	80	19.4	2.19	2.60	21.5	2.35	2.69	22.8	2.43	2.74	26.8	2.70	2.91	30.7	2.94	3.06	33.3	3.09	3.15	34.3	3.15	3.19	37.9	3.35	3.31
	60	60	25.2	2.67	2.76	27.4	2.82	2.85	28.7	2.90	2.90	33.1	3.17	3.06	37.4	3.41	3.21	40.4	3.57	3.32	41.6	3.63	3.36	45.8	3.84	3.49
Maximum	70	70	24.9	2.45	2.97	27.1	2.58	3.07	28.4	2.66	3.13	32.7	2.90	3.30	36.9	3.12	3.47	39.9	3.27	3.58	41.1	3.33	3.62	45.3	3.52	3.77
	80	80	24.3	2.20	3.24	26.5	2.32	3.34	27.7	2.39	3.40	32.0	2.61	3.59	36.1	2.80	3.77	39.0	2.94	3.89	40.2	2.99	3.94	44.3	3.17	4.10

EXPANDED RATINGS - 4 TON IQ HEAT PUMP WITH B4VM AIR HANDLER

COOLING

Speed	Outdoor Temperature:		60°F			70°F			80°F			90°F			95°F			100°F			110°F			120°F			
	Indoor Tdb - °F	Twb - °F	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	
Minimum	80	62	17.2	17.2	0.38	16.3	16.3	0.48	15.4	15.4	0.59	14.6	14.6	0.72	14.3	14.3	0.79	14.0	14.0	0.86	13.6	13.6	1.00				
	80	67	18.5	14.6	0.32	17.3	14.4	0.45	16.1	14.1	0.58	14.9	13.7	0.72	14.3	13.4	0.79	13.8	13.2	0.86	12.7	12.7	1.00				
	80	72	18.3	11.7	0.35	17.8	11.5	0.44	16.6	11.0	0.57	15.6	10.7	0.70	15.2	10.5	0.77	14.8	10.4	0.85	10.2	10.2	0.99				
	75	63	15.7	14.4	0.40	14.7	14.0	0.50	13.8	13.5	0.62	13.1	13.1	0.74	12.8	12.8	0.81	12.6	12.6	0.88	12.3	12.3	1.01				
Intermediate	80	62	30.2	30.0	1.08	28.9	28.9	1.27	27.7	27.7	1.47	26.4	26.4	1.68	25.7	25.7	1.79	24.9	24.9	1.90	23.2	23.2	2.13	21.3	21.3	2.37	2.37
	80	67	31.5	23.3	0.99	30.3	22.8	1.21	29.0	22.3	1.43	27.5	21.8	1.67	26.7	21.4	1.79	25.8	21.1	1.91	23.9	20.3	2.15	21.8	21.8	19.3	2.40
	80	72	35.0	19.6	1.00	33.3	18.9	1.21	31.5	18.3	1.43	29.8	17.6	1.66	28.8	17.2	1.78	27.7	16.8	1.89	25.4	15.8	2.13	22.9	22.9	14.8	2.37
	75	63	29.1	23.1	1.08	27.6	22.3	1.27	26.2	21.7	1.48	24.7	21.0	1.69	24.0	20.6	1.80	23.1	20.3	1.91	21.4	19.4	2.13	19.5	19.5	18.4	2.36
Nominal	80	62	49.0	44.9	2.43	47.0	43.8	2.72	44.9	42.8	3.02	42.7	41.7	3.35	41.6	41.2	3.52	40.6	40.5	3.69							
	80	67	52.7	37.3	2.43	50.6	36.3	2.72	48.2	35.3	3.03	45.8	34.4	3.38	44.5	33.9	3.56	43.2	33.5	3.75							
	80	72	57.8	30.4	2.41	54.9	29.4	2.73	52.0	28.3	3.09	49.3	27.3	3.43	48.0	26.8	3.60	46.8	26.3	3.77							
	75	63	47.6	34.7	2.44	45.6	33.8	2.72	43.5	32.8	3.03	41.3	31.8	3.36	40.1	31.2	3.53	39.0	30.7	3.70							
Maximum	80	62	57.5	52.6	3.46	55.4	51.6	3.82																			
	80	67	62.4	43.8	3.48	59.9	42.7	3.88																			
	80	72	67.7	35.4	3.51	64.8	34.3	3.94																			
	75	63	56.1	40.8	3.47	54.0	39.8	3.84																			

HEATING

Speed	Outdoor Temperature:		12°F			17°			20°			30°			40°			47°			50°			60°		
	Indoor Tdb - °F	Tdb - °F	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW	Total Capacity	COP	kW
Minimum	60	60	7.0	3.66	0.56	7.6	3.95	0.56	7.9	4.13	0.56	9.3	4.83	0.56	10.8	5.66	0.56	11.9	6.34	0.55	12.5	6.65	0.55	14.3	7.84	0.53
	70	67	6.7	3.01	0.65	7.3	3.25	0.65	7.6	3.40	0.66	8.9	3.97	0.70	10.3	4.66	0.65	11.4	5.21	0.64	11.9	5.47	0.64	13.7	6.45	0.62
	80	72	6.4	2.51	0.75	7.0	2.71	0.76	7.3	2.84	0.76	8.6	3.31	0.76	10.0	3.88	0.75	11.0	4.35	0.74	11.5	4.56	0.74	13.2	5.38	0.72
Intermediate	60	60	14.2	3.52	1.18	15.4	3.75	1.20	16.1	3.89	1.22	18.7	4.39	1.25	21.5	4.94	1.28	23.6	5.36	1.29	24.5	5.55	1.29	27.6	6.23	1.30
	70	67	13.7	3.03	1.33	14.9	3.22	1.35	15.6	3.35	1.37	18.1	3.78	1.41	20.8	4.25	1.43	22.8	4.61	1.45	23.7	4.78	1.45	26.7	5.36	1.46
	80	72	13.4	2.65	1.48	14.5	2.82	1.51	15.2	2.93	1.53	17.7	3.31	1.57	20.3	3.72	1.60	22.3	4.04	1.62	23.1	4.18	1.62	26.1	4.69	1.63
Nominal	60	60	27.2	2.64	3.02	30.3	2.88	3.09	32.1	3.01	3.13	37.9	3.42	3.25	43.1	3.76	3.35	46.5	3.98	3.42	47.8	4.07	3.45	52.1	4.33	3.52
	70	67	26.9	2.38	3.31	30.0	2.60	3.38	31.8	2.72	3.42	37.5	3.09	3.56	42.7	3.40	3.67	46.0	3.60	3.74	47.4	3.68	3.77	51.5	3.92	3.86
	80	72	26.3	2.13	3.62	29.3	2.32	3.70	31.1	2.43	3.75	36.6	2.76	3.89	41.7	3.04	4.02	44.9	3.21	4.10	46.2	3.28	4.13	50.3	3.49	4.22
Maximum	60	60	30.4	2.75	3.24	33.0	2.92	3.31	34.5	3.02	3.35	39.6	3.33	3.48	44.5	3.62	3.60	47.8	3.81	3.68	49.3	3.88	3.72	53.9	4.14	3.82
	70	67	30.3	2.57	3.46	32.9	2.73	3.53	34.5	2.82	3.58	39.5	3.11	3.72	44.4	3.38	3.85	47.8	3.56	3.94	49.2	3.63	3.97	53.8	3.86	4.08
	80	72	29.9	2.35	3.73	32.5	2.50	3.81	34.0	2.58	3.85	39.0	2.85	4.01	43.8	3.10	4.15	47.1	3.26	4.24	48.5	3.32	4.28	53.1	3.54	4.40



GENERAL TERMS OF LIMITED WARRANTY

NORDYNE will furnish a replacement for any part of this product which fails in normal use and service within the first ten years of installation, in accordance with the terms of the warranty.

For complete details of the Limited Warranty, including applicable terms and conditions, see your local installer or contact the NORDYNE warranty department for a copy.

NORDYNE

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