

TECHNICAL SPECIFICATIONS

FSA1BG Series

iQDrive®

Ultra-High Efficiency Air Conditioner 18+ SEER2 Residential System 2-5 Ton Capacities

The iQ Drive® air conditioner system features modulating compressor technology and variable speed indoor and outdoor fan motors. This system is controlled from a two stage cooling and heating thermostat. The system has the capability of adding up to 18% of additional cooling above the rated capacity. The air handler has de-humidification capabilities from the thermostat or duct mounted humidistat.



FEATURES and BENEFITS

- **iQ Drive®:** Inverter driven Samsung rotary compressor provides five capacities in modulating operation from a two stage thermostat.
- **Interface Control Board:** Two digit LED provides system operation, status and diagnostic troubleshooting information.
 - **System Control:** Utilizes a patented capacity control algorithm to select the optimum system capacity level.
 - **System Protection:** Internal controls monitor system operation to protect the inverter drive and compressor.
 - **Cooling operating temperature range:** 50 °F to 125 °F.
 - **Five Minute Restart Time Delay:** When the unit shuts down, a delay keeps the unit from restarting, eliminating the highest cause for compressor failure.
- **Compressor and Component Access:** Designed to make servicing easier for the contractor, hinge access panels are provided to all controls and the compressor.
- **High Efficiency with Low Sound Levels:** 18+ SEER2 with sound ratings of 57-76 depending upon operating conditions.
- **Compressor Sound Blanket:** Engineered to significantly reduce unwanted compressor noise.
- **Variable Speed Condenser Motor and Swept-Wing Fan Blade:** A heavy duty brushless DC motor for long lasting reliability and engineered to provide quiet operation. Requires no maintenance and is completely protected from rain and snow.
- **Service Port:** This port allows the contractor to read the suction pressure in all modes of operation without removing any panels, saving time and increasing serviceability.
- **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.
- **All-Aluminum Coils:** Designed to optimize heat transfer, and increase durability and reliability.
- **Composite Base Pan:** Absorbs sound and is corrosion resistant. Composite pan is also stronger and lighter than steel.
- **Designed Using Galvanized Steel:** With a polyester urethane coat finish, it passes 950 hours of salt spray per ASTM Std. B117.
- **One Piece Top/Orifice:** Designed for maximum airflow and quiet operation.
- **Removable Top Grille Assembly:** Allows ease of service from the top without disconnecting fan motor leads.
- **Servicer-Friendly Jacket:** Side panels can be easily removed and replaced without removing the top grill.

MODEL IDENTIFICATION CODES

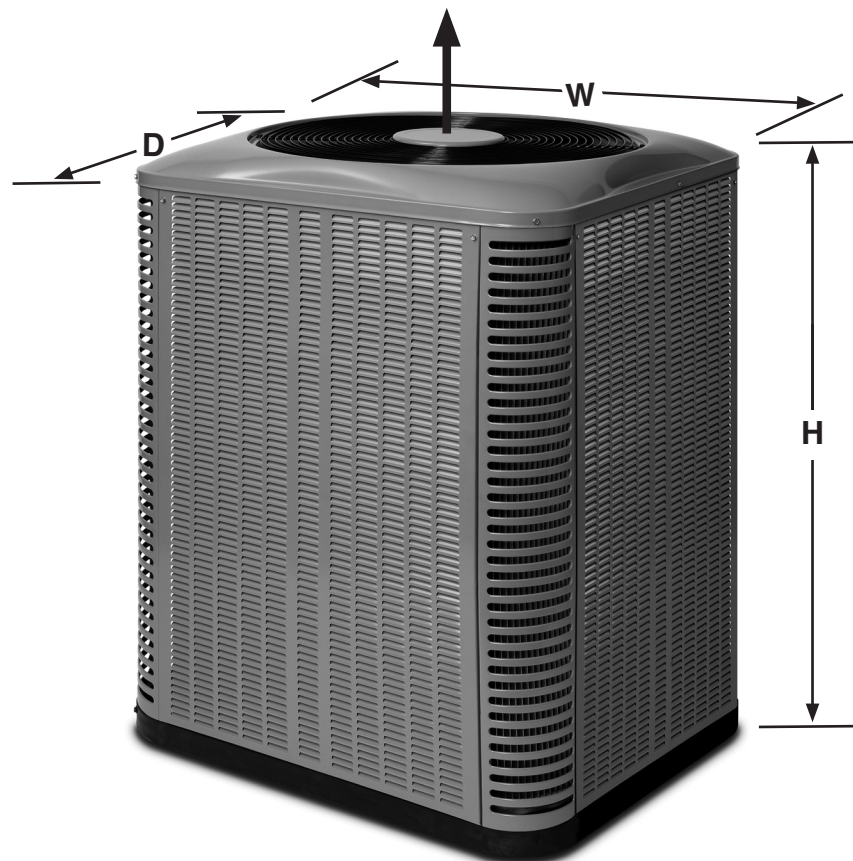
F	S	A	1	B	G	4	M	V	R	N	24	K	P
Jacket Style													New Paint Color
Split System													Voltages K - 208/230-1-60
A - Air Conditioner H - Heat Pump													Size (MBTU)
Design Series													Metering Device N - None X - TXV P - Piston E - EXV
B - Brazed Q - Quick Connect													
D - 13.4 SEER2 E - 14.3 SEER2 F - 15.2 SEER2 G - 17 - 19 SEER2													
					Refrigerant 4 - R-410a								
						M - Micro-Channel C - Copper Coil							
							Stages 1 - Single 2 - Two V - Inverter						
								Compressor S - Scroll R - Rotary E - Recip					

DIMENSIONS

AIR CONDITIONER OUTDOOR SECTION

FSA1BG	24KP	36KP	48KP	60KP
H	37	37	45	45
W	22 1/2	30 1/2	30 1/2	30 1/2
D	22 1/2	30 1/2	30 1/2	30 1/2

Air Discharge Allow Adequate Clearance for Airflow



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

18+ SEER2 — Ultra High Efficiency

Model Number FSA1BG			24KP	36KP	48KP	60KP
ELECTRICAL DATA	Volts-Cycles-Phase ⁽¹⁾		208/230-60-1			
	Total Amps		22.6	22.6	26.6	35.8
	Delay Fuse Max. ⁽²⁾		45	45	50	70
	Min. Circuit Ampacity		27.6	27.6	32.6	43.8
	Field Control Wiring Connections (24 vac from thermostat/indoor side)		R, C, Y1, Y2			
COMPONENT DATA	Fan Motor	Type	Brushless DC			
		HP	1/3	1/3	1/3	1/2
	Compressor Data	RLA	20	20	24	32
		LRA	N/A	N/A	N/A	N/A
	Service Valves	Liquid Side	3/8"	3/8"	3/8"	3/8"
		Vapor Side	3/4"	7/8"	7/8"	7/8"
Installation Refrigerant Vapor Line Size (All liquid lines 3/8" OD)		0 - 24 ft. equiv.	3/4"	7/8"	7/8"	7/8"
		25 - 39 ft. equiv.	3/4"	7/8"	1-1/8"	1-1/8"
		40 - 75 ft. equiv. ⁽⁴⁾	7/8"	1-1/8"	1-1/8"	1-1/8"
		75 - 100 ft. equiv. ⁽⁴⁾	1-1/8"	1-1/8"	1-1/8"	1-1/8"
Weight, lbs. (approximate)		Net	166	218	246	261
		Ship	174	229	259	274
Sound Level dB		Minimum	57	60	61	63
		Maximum	68	68	70	71

(1) Operating Voltage Range: 187 vac min. to 253 vac max.

(2) HACR Type circuit breakers may be used.

(3) Additional charge for longer line sets as follows (with 3/8" liquid lines):

3/4" vapor line: 0.6 oz per additional foot

7/8" vapor line: 0.7 oz per additional foot

1-1/8" vapor line: 0.8 oz per additional foot

Minimum outdoor temperature for cooling is 50°F.

Sound levels measured at 10 feet.

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

(6) For additional charging instructions please refer to the QRD.

See current AHRI Directory for certified combinations and ratings.

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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 CAPACITIES AND MATCHES

18+ SEER2 Ultra High Efficiency Air Conditioners

Model Number	Indoor Model Number	Furnace Model Number	Capacity	SEER2	EER2	CFM
FSA1BG4MVRN24KP	C74B(A,H)MX24C-B	FG7T(*)-V(*)B(*)	23000	19	12	800
FSA1BG4MVRN24KP	B64VMMX24K-B		23000	19	12	855
FSA1BG4MVRN24KP	C74B(A,H)MX24C-A	FG7T(*)-V(*)A(*)	22800	19	12	745
FSA1BG4MVRN24KP	C74B(A,H)MX24C-B	MB7VM-1600K-B(*)	23000	19	12	855
FSA1BG4MVRN36KP	C74B(A,H)MX36C-B	FG7T(*)-V(*)B(*)	34400	19	11.5	1060
FSA1BG4MVRN36KP	B64VMMX36K-B		34400	19	11.5	1200
FSA1BG4MVRN36KP	C74B(A,H)MX36C-B	MB7VM-1600K-B(*)	34400	19	11.5	1200
FSA1BG4MVRN36KP	C74B(A,H)MX36C-C	FG7T(*)-V(*)C(*)	34400	19	11.5	1155
FSA1BG4MVRN48KP	C74B(A,H)MX48C-C	FG7T(*)-V(*)C(*)	44000	18	11.5	1470
FSA1BG4MVRN48KP	B64VMMX48K-C		44000	18	11.5	1550
FSA1BG4MVRN48KP	C74B(A,H)MX48C-C	MB7VM-2000K-C(*)	44000	18	11.5	1550
FSA1BG4MVRN48KP	C74B(A,H)MX48C-D	FG7T(*)-V(*)D(*)	44000	18	11.5	1500
FSA1BG4MVRN60KP	C74B(A,H)MX60C-C	FG7T(*)-V(*)C(*)	52000	18	11	1575
FSA1BG4MVRN60KP	B64VMMX60K-C		52000	18	11	1600
FSA1BG4MVRN60KP	C74B(A,H)MX60C-C	MB7VM-2000K-C(*)	52000	18	11	1600
FSA1BG4MVRN60KP	C74B(A,H)MX60C-D	FG7T(*)-V(*)D(*)	52000	18	11	1755

Note: Conditions for Nominal Capacity rating are 80°F dry bulb temperature, 67°F wet bulb temperature (approximately 51% RH) indoors, 95°F outdoor ambient temperature. Minimum outdoor temperature for cooling is 50°F.

See current AHRI Directory for certified combinations and ratings.

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COOLING EXPANDED RATINGS WITH VARIABLE SPEED AIR HANDLER

First Stage Low Speed (C1) Cooling

FSA1BG4MVRN24K with FG7 (Variable Speed) and C74B(A,H)MX24(C,U)-A Coil

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.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
425	80	62	9.9	9.9	0.35	9.9	9.9	0.46	9.7	9.7	0.56	9.3	9.3	0.66	8.8	8.8	0.76	8.3	8.3	0.86
	80	67	10.4	8.6	0.52	10.6	8.5	0.36	10.3	8.6	0.55	9.9	8.4	0.65	9.3	8.2	0.75	8.5	7.8	0.86
	80	72	11.6	6.4	0.31	11.5	6.4	0.43	11.2	6.3	0.53	10.7	6.1	0.64	10.1	5.9	0.75	9.3	5.5	0.86
	75	62	9.7	8.9	0.36	9.4	8.6	0.46	9.3	8.8	0.56	8.9	8.4	0.66	8.3	8.0	0.76	7.7	7.6	0.86
	75	67	10.6	6.5	0.34	10.4	6.5	0.44	10.2	6.4	0.55	9.8	6.1	0.65	9.2	5.9	0.76	8.5	5.7	0.86
500	80	62	10.4	10.5	0.34	10.3	10.4	0.45	10.1	10.1	0.55	9.7	9.7	0.65	9.2	9.2	0.75	8.7	8.7	0.86
	80	67	10.6	9.4	0.51	10.8	9.4	0.35	10.5	9.4	0.54	10.1	9.2	0.65	9.4	8.8	0.75	8.7	8.4	0.86
	80	72	11.8	6.8	0.31	11.8	6.9	0.42	11.4	6.8	0.53	10.9	6.6	0.64	10.3	6.2	0.75	9.5	5.8	0.86
	75	62	9.9	9.5	0.35	9.8	9.5	0.46	9.4	9.2	0.56	9.0	9.0	0.66	8.6	8.4	0.76	8.0	8.0	0.86
	75	67	10.8	7.0	0.33	10.7	7.0	0.44	10.4	6.9	0.55	9.9	6.5	0.65	9.4	6.4	0.75	8.6	6.1	0.86
575	80	62	10.9	10.9	0.33	10.7	10.8	0.44	10.5	10.5	0.54	10.1	10.1	0.65	9.6	9.6	0.75	9.0	9.0	0.86
	80	67	10.8	10.2	0.51	11.0	10.1	0.35	10.7	10.1	0.54	10.2	9.5	0.65	9.6	9.4	0.75	8.9	8.9	0.86
	80	72	12.0	7.1	0.30	11.9	7.2	0.42	11.6	7.1	0.53	11.0	6.9	0.64	10.4	6.5	0.75	9.6	6.0	0.86
	75	62	10.1	9.7	0.35	10.0	9.6	0.45	9.7	9.5	0.55	9.4	9.3	0.66	8.9	8.9	0.76	8.3	8.3	0.86
	75	67	11.0	7.5	0.33	10.9	7.5	0.44	10.6	7.2	0.54	10.1	7.0	0.65	9.5	6.8	0.75	8.7	6.4	0.86

Second Stage Rating Speed (C4) Cooling

FSA1BG4MVRN24K with FG7 (Variable Speed) and C74B(A,H)MX24(C,U)-A Coil

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.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
635	80	62	22.3	19.0	1.19	21.8	19.0	1.39	21.0	18.7	1.61	20.0	18.2	1.83	18.8	17.7	2.05	17.5	17.0	2.25
	80	67	22.2	15.1	1.84	23.6	15.7	1.54	23.3	15.6	1.61	22.2	15.1	1.84	20.9	14.5	2.06	19.4	13.9	2.27
	80	72	27.1	13.3	1.13	26.5	13.0	1.36	25.4	12.5	1.60	24.3	12.1	1.84	23.0	11.6	2.07	21.3	11.0	2.29
	75	62	22.2	16.2	1.19	21.7	16.0	1.40	20.9	15.7	1.61	20.0	15.2	1.83	18.9	14.5	2.04	17.5	13.8	2.24
	75	67	24.6	13.3	1.16	24.0	13.0	1.38	23.1	12.6	1.61	22.1	12.2	1.84	20.7	11.6	2.06	19.3	11.0	2.27
745	80	62	23.2	20.8	1.19	22.6	20.6	1.41	21.7	20.4	1.63	20.6	19.8	1.85	19.4	19.2	2.07	18.2	18.2	2.28
	80	67	22.9	16.2	1.86	24.4	16.9	1.55	24.1	16.8	1.62	22.8	16.2	1.86	21.5	15.7	2.08	20.0	14.9	2.29
	80	72	28.2	14.0	1.13	27.4	13.7	1.37	26.3	13.4	1.61	25.1	12.9	1.85	23.6	12.2	2.09	21.9	11.6	2.31
	75	62	23.1	17.5	1.20	22.5	17.3	1.41	21.6	16.9	1.62	20.6	16.3	1.84	19.4	15.5	2.06	18.0	14.9	2.26
	75	67	25.6	14.1	1.17	24.9	13.8	1.39	23.9	13.4	1.62	22.7	12.9	1.85	21.4	12.3	2.08	19.9	11.7	2.29
855	80	62	23.8	22.3	1.21	23.2	22.3	1.43	22.2	21.8	1.65	21.2	21.2	1.87	20.1	20.1	2.10	18.9	18.9	2.31
	80	67	23.4	17.2	1.88	25.0	18.0	1.58	24.6	17.7	1.65	23.4	17.2	1.88	21.9	16.7	2.11	20.2	15.7	2.32
	80	72	28.9	14.8	1.15	28.1	14.4	1.40	27.0	14.0	1.64	25.6	13.4	1.88	24.1	12.9	2.12	22.2	12.2	2.34
	75	62	23.8	18.7	1.22	23.1	18.5	1.43	22.1	18.0	1.65	21.0	17.5	1.87	19.8	16.5	2.09	18.3	15.9	2.29
	75	67	26.3	14.8	1.19	25.5	14.5	1.42	24.5	14.1	1.65	23.2	13.5	1.88	21.7	12.8	2.11	20.2	12.1	2.32

First Stage Low Speed (C1) Cooling

FSA1BG4MVRN24K with FG7 (Variable Speed) and C74B(A,H)MX24(C,U)-B Coil

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.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
470	80	62	10.3	10.3	0.34	10.2	10.2	0.45	10.0	10.0	0.55	9.6	9.6	0.65	9.1	9.1	0.75	8.5	8.6	0.85
	80	67	10.7	9.0	0.33	10.8	9.2	0.43	10.5	9.1	0.54	10.0	8.9	0.65	9.4	8.7	0.75	8.7	7.9	0.85
	80	72	11.8	6.7	0.31	11.7	6.7	0.42	11.4	6.6	0.53	10.9	6.4	0.64	10.2	6.1	0.74	9.4	5.7	0.85
	75	62	9.8	9.2	0.35	9.7	9.2	0.45	9.5	9.1	0.55	8.9	8.7	0.66	8.5	8.5	0.75	7.9	7.9	0.85
	75	67	10.7	6.8	0.33	10.6	6.8	0.44	10.3	6.7	0.54	9.9	6.4	0.65	9.3	6.3	0.75	8.6	6.0	0.85
550	80	62	10.8	10.8	0.33	10.6	10.6	0.44	10.4	10.4	0.54	10.0	10.0	0.65	9.5	9.5	0.75	8.9	8.9	0.85
	80	67	11.0	9.9	0.32	11.0	10.0	0.43	10.7	9.9	0.54	10.2	9.7	0.64	9.6	9.2	0.75	8.9	8.7	0.85
	80	72	12.0	7.1	0.30	11.9	7.1	0.41	11.5	7.0	0.52	11.0	6.8	0.63	10.4	6.4	0.74	9.6	6.0	0.85
	75	62	9.9	9.8	0.35	9.9	9.4	0.45	9.6	9.3	0.55	9.3	9.2	0.65	8.8	8.8	0.75	8.2	8.2	0.85
	75	67	11.0	7.3	0.32	10.9	7.4	0.43	10.5	7.2	0.54	10.1	6.8	0.65	9.5	6.7	0.75	8.7	6.3	0.85
630	80	62	11.2	11.2	0.32	11.0	11.0	0.43	10.7	10.7	0.54	10.3	10.3	0.64	9.8	9.8	0.75	9.2	9.2	0.85
	80	67	11.2	10.6	0.32	11.1	10.5	0.43	10.8	10.4	0.54	10.3	10.2	0.64	9.8	9.7	0.75	9.2	9.2	0.85
	80	72	12.1	7.3	0.30	12.1	7.4	0.41	11.7	7.3	0.52	11.1	7.1	0.63	10.5	6.8	0.74	9.6	6.2	0.85
	75	62	10.3	10.2	0.34	10.2	10.1	0.45	9.9	9.9	0.55	9.6	9.6	0.65	9.0	9.0	0.75	8.5	8.5	0.85
	75	67	11.2	7.7	0.32	11.0	7.8	0.43	10.7	7.4	0.54	10.2	7.3	0.64	9.6	7.1	0.75	8.8	6.6	0.85

E.D.B. = Entering dry bulb E.W.B. = Entering wet bulb T.C. = Total Capacity S.C. = Sensible Capacity kW = Kilo Watts

COOLING EXPANDED RATINGS WITH VARIABLE SPEED AIR HANDLER (CONT.)

Second Stage Rating Speed (C4) Cooling

FSA1BG4MVRN24K with FG7 (Variable Speed) and C74B(A,H)MX24(C,U)-B Coil

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.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
700	80	62	19.5	16.7	1.96	19.0	16.7	2.17	18.2	16.2	2.39	17.1	15.9	2.61	15.9	15.3	2.83	14.6	14.4	3.04
	80	67	22.0	13.6	1.93	21.4	13.3	2.16	20.5	13.0	2.39	19.3	12.4	2.62	18.0	12.0	2.85	16.5	11.2	3.06
	80	72	24.6	10.5	1.90	23.8	10.2	2.14	22.6	9.7	2.38	21.5	9.3	2.62	20.1	8.8	2.85	18.4	8.1	3.07
	75	62	19.5	13.7	1.96	18.9	13.5	2.17	18.1	13.1	2.39	17.1	12.6	2.61	15.9	11.9	2.82	14.6	11.2	3.03
	75	67	21.9	10.5	1.94	21.3	10.2	2.16	20.4	9.8	2.39	19.2	9.3	2.62	17.9	8.7	2.84	16.4	8.1	3.06
820	80	62	24.0	22.0	1.09	23.4	22.2	1.30	22.5	21.8	1.53	21.4	21.1	1.75	20.3	20.3	1.97	19.1	19.1	2.19
	80	67	26.6	18.6	1.06	25.8	18.3	1.29	24.8	17.8	1.52	23.6	17.3	1.76	22.2	16.8	1.99	20.5	15.9	2.20
	80	72	29.1	14.9	1.03	28.3	14.7	1.27	27.2	14.2	1.51	25.8	13.6	1.75	24.3	13.1	1.99	22.5	12.4	2.21
	75	62	24.0	18.7	1.09	23.3	18.5	1.31	22.4	18.1	1.52	21.3	17.6	1.75	20.0	16.6	1.96	18.6	16.0	2.17
	75	67	26.5	15.0	1.06	25.7	14.7	1.29	24.7	14.3	1.52	23.4	13.7	1.75	22.0	13.1	1.98	20.5	12.4	2.20
940	80	62	30.9	30.1	0.95	30.2	29.8	1.17	29.4	29.4	1.39	28.4	28.4	1.62	27.3	27.3	1.85	26.0	26.0	2.06
	80	67	32.1	26.0	0.93	31.3	25.6	1.16	30.3	25.2	1.39	29.1	24.6	1.63	27.5	24.2	1.86	26.1	23.2	2.07
	80	72	32.2	21.8	0.90	31.7	21.5	1.14	30.5	21.1	1.38	29.1	20.6	1.62	27.5	20.0	1.86	25.8	19.3	2.08
	75	62	29.4	26.3	0.96	28.7	26.0	1.17	27.7	25.5	1.39	26.7	24.9	1.61	26.2	23.9	1.83	24.8	23.1	2.04
	75	67	30.0	22.0	0.93	29.3	21.6	1.16	28.2	21.2	1.39	27.0	20.5	1.62	25.8	19.9	1.85	24.2	19.2	2.07

First Stage Low Speed (C1) Cooling

FSA1BG4MVRN36K with FG7 (Variable Speed) and C74B(A,H)MX36(C,U)-B Coil

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.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
630	80	62	15.5	15.5	0.51	15.2	15.2	0.65	14.7	14.7	0.80	14.1	14.1	0.94	13.3	13.3	1.09	12.3	12.3	1.23
	80	67	16.7	13.6	0.49	16.2	13.3	0.64	15.7	13.1	0.79	14.8	12.7	0.94	13.8	12.5	1.08	12.5	11.9	1.23
	80	72	18.4	10.1	0.47	18.1	10.0	0.62	17.5	9.9	0.77	16.7	9.7	0.92	15.7	9.4	1.07	14.3	8.9	1.22
	75	62	14.8	13.5	0.53	14.2	13.1	0.67	13.7	13.0	0.81	13.1	12.8	0.95	12.2	12.2	1.09	11.2	11.2	1.23
	75	67	16.6	10.3	0.49	16.2	10.3	0.64	15.6	10.0	0.79	14.7	9.5	0.94	13.8	9.2	1.08	12.4	8.8	1.23
710	80	62	16.2	16.2	0.50	15.9	15.9	0.65	15.3	15.3	0.79	14.7	14.7	0.93	13.9	13.9	1.08	12.9	12.9	1.22
	80	67	17.1	14.6	0.49	16.5	14.2	0.64	15.9	14.1	0.79	15.2	13.9	0.93	14.2	13.5	1.08	12.9	12.8	1.22
	80	72	18.8	10.5	0.46	18.4	10.7	0.62	17.8	10.4	0.77	17.0	10.3	0.92	15.9	9.9	1.07	14.6	9.4	1.22
	75	62	15.0	14.2	0.52	14.6	14.2	0.66	14.1	14.0	0.81	13.4	13.4	0.95	12.6	12.6	1.09	11.6	11.6	1.23
	75	67	17.0	10.8	0.49	16.5	10.7	0.64	15.8	10.5	0.79	15.1	10.3	0.93	14.1	9.9	1.08	12.6	9.4	1.23
790	80	62	16.9	16.9	0.50	16.4	16.5	0.64	15.8	15.8	0.79	15.2	15.2	0.93	14.4	14.4	1.08	13.3	13.3	1.22
	80	67	17.4	15.5	0.48	16.9	15.2	0.64	16.3	15.1	0.78	15.5	14.7	0.93	14.4	14.2	1.08	13.3	13.2	1.22
	80	72	19.0	10.9	0.46	18.8	11.3	0.61	18.1	10.9	0.77	17.3	10.6	0.92	16.2	10.4	1.07	14.8	10.0	1.22
	75	62	15.3	15.1	0.52	15.0	14.9	0.66	14.6	14.6	0.80	13.9	13.8	0.94	13.0	13.0	1.09	12.0	12.0	1.23
	75	67	17.3	11.2	0.49	16.7	11.2	0.64	16.2	11.3	0.78	15.3	10.8	0.93	14.3	10.5	1.08	12.9	10.0	1.23

Second Stage Rating Speed (C4) Cooling

FSA1BG4MVRN36K with FG7 (Variable Speed) and C74B(A,H)MX36(C,U)-B Coil

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.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
940	80	62	34.0	29.0	2.15	33.1	28.6	2.47	32.0	28.0	2.80	30.4	27.2	3.14	28.5	26.4	3.47	26.2	25.2	3.80
	80	67	37.2	24.1	2.10	36.3	23.8	2.45	35.0	23.3	2.80	33.3	22.5	3.15	31.3	21.6	3.50	28.8	20.6	3.83
	80	72	40.0	19.2	2.04	39.1	18.8	2.41	37.8	18.2	2.78	36.1	17.6	3.15	34.0	16.8	3.51	31.1	15.7	3.86
	75	62	33.8	24.3	2.15	33.1	23.9	2.47	31.8	23.4	2.80	30.3	22.7	3.14	28.4	21.8	3.47	26.1	20.7	3.80
	75	67	36.9	19.5	2.10	36.1	19.1	2.45	34.9	18.7	2.80	33.2	18.0	3.15	31.2	17.0	3.50	28.6	16.0	3.84
1060	80	62	35.7	31.9	1.90	34.8	31.5	2.23	33.6	30.9	2.57	31.9	30.1	2.90	30.0	29.0	3.24	27.7	27.7	3.57
	80	67	39.0	26.4	1.85	38.0	26.0	2.21	36.6	25.4	2.56	34.9	24.7	2.92	32.8	23.9	3.27	30.1	22.8	3.60
	80	72	41.9	20.9	1.79	40.8	20.5	2.17	39.4	20.0	2.54	37.7	19.3	2.91	35.4	18.4	3.27	32.5	17.3	3.62
	75	62	35.7	26.7	1.90	34.7	26.3	2.23	33.4	25.7	2.56	31.8	24.9	2.90	29.9	24.0	3.24	27.4	22.9	3.57
	75	67	38.8	21.4	1.85	37.9	20.9	2.21	36.5	20.3	2.56	34.8	19.6	2.92	32.7	18.8	3.27	30.0	17.7	3.60
1180	80	62	37.6	34.8	1.58	36.7	33.3	1.92	35.2	33.7	2.26	33.6	32.9	2.60	31.7	31.7	2.94	29.6	29.6	3.27
	80	67	40.8	28.8	1.54	39.8	28.3	1.90	38.4	27.9	2.25	36.6	27.2	2.61	34.4	26.3	2.96	31.7	24.8	3.30
	80	72	43.8	22.8	1.48	42.6	22.4	1.85	41.2	21.9	2.23	39.3	21.1	2.60	37.1	20.3	2.97	34.0	19.2	3.32
	75	62	37.5	29.2	1.58	36.5	28.7	1.92	35.1	28.1	2.26	33.4	27.4	2.60	31.4	26.5	2.94	28.9	25.4	3.26
	75	67	40.7	23.2	1.54	39.7	22.8	1.90	38.2	22.2	2.25	36.4	21.6	2.61	34.2	20.7	2.96	31.5	19.4	3.30

E.D.B. = Entering dry bulb E.W.B. = Entering wet bulb T.C. = Total Capacity S.C. = Sensible Capacity kW = Kilo Watts

COOLING EXPANDED RATINGS WITH VARIABLE SPEED AIR HANDLER (CONT.)

First Stage Low Speed (C1) Cooling

FSA1BG4MVRN36K with FG7 (Variable Speed) and C74B(A,H)MX36(C,U)-C Coil

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.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
685	80	62	15.9	15.9	0.52	15.7	15.7	0.66	15.1	15.1	0.80	14.5	14.5	0.94	13.7	13.7	1.09	12.7	12.7	1.23
	80	67	16.1	14.0	0.75	16.9	14.2	0.53	15.8	13.9	0.80	15.0	13.5	0.94	14.0	13.1	1.09	12.7	12.6	1.23
	80	72	19.1	10.9	0.47	18.7	10.9	0.62	17.6	10.3	0.78	16.8	10.0	0.93	15.8	9.6	1.08	14.4	9.2	1.23
	75	62	14.9	14.0	0.53	14.6	13.9	0.67	14.0	13.7	0.82	13.2	13.2	0.96	12.4	12.4	1.10	11.5	11.4	1.24
	75	67	16.7	10.6	0.50	16.4	10.6	0.65	15.8	10.5	0.80	14.9	10.0	0.94	13.9	9.6	1.09	12.6	9.3	1.24
730	80	62	16.4	16.4	0.51	16.0	16.0	0.66	15.4	15.4	0.80	14.8	14.8	0.94	14.0	14.0	1.09	13.0	13.0	1.23
	80	67	16.2	14.6	0.75	17.0	14.6	0.53	16.0	14.4	0.79	15.2	13.9	0.94	14.1	13.5	1.09	13.0	12.8	1.23
	80	72	19.2	11.2	0.47	18.8	11.1	0.62	17.9	10.7	0.78	17.1	10.5	0.93	15.9	10.0	1.08	14.6	9.4	1.23
	75	62	15.0	14.5	0.53	14.8	14.4	0.67	14.1	14.1	0.81	13.5	13.5	0.96	12.7	12.7	1.10	11.7	11.7	1.24
	75	67	17.1	11.1	0.50	16.6	11.0	0.65	15.9	10.8	0.80	15.1	10.5	0.94	14.1	10.1	1.09	12.7	9.6	1.23
815	80	62	17.0	17.0	0.50	16.6	16.6	0.65	16.0	16.0	0.79	15.3	15.3	0.94	14.4	14.4	1.09	13.4	13.4	1.23
	80	67	16.5	15.5	0.75	17.3	15.1	0.52	16.3	15.3	0.79	15.4	14.9	0.94	14.5	14.4	1.09	13.4	13.3	1.23
	80	72	19.6	12.0	0.46	19.1	11.8	0.62	18.3	11.4	0.77	17.4	11.1	0.93	16.2	10.4	1.08	14.8	10.3	1.23
	75	62	15.5	14.2	0.52	15.1	15.1	0.66	14.7	14.7	0.80	14.0	14.0	0.95	13.1	13.1	1.10	12.1	12.1	1.24
	75	67	17.4	12.0	0.49	16.9	11.7	0.64	16.2	11.4	0.79	15.3	11.1	0.94	14.3	10.6	1.09	12.9	10.0	1.23

Second Stage Rating Speed (C4) Cooling

FSA1BG4MVRN36K with FG7 (Variable Speed) and C74B(A,H)MX36(C,U)-C Coil

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.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
1025	80	62	34.4	30.2	2.21	33.5	29.8	2.54	32.2	29.3	2.88	30.6	28.4	3.21	28.7	27.5	3.55	26.3	26.3	3.88
	80	67	33.5	23.3	3.23	35.7	24.2	2.77	35.2	24.0	2.88	33.5	23.3	3.23	31.5	22.5	3.58	28.8	21.4	3.92
	80	72	40.7	19.6	2.11	39.5	19.2	2.49	38.1	18.7	2.86	36.3	18.1	3.23	34.1	17.2	3.59	31.2	16.0	3.94
	75	62	34.3	25.2	2.21	33.5	24.8	2.54	32.2	24.3	2.88	30.5	23.5	3.21	28.6	22.5	3.55	26.1	21.5	3.88
	75	67	37.6	20.2	2.17	36.5	19.7	2.52	35.2	19.1	2.88	33.5	18.3	3.23	31.4	17.5	3.58	28.7	16.4	3.91
1090	80	62	35.5	32.0	2.04	34.5	31.5	2.37	33.2	30.3	2.71	31.6	30.0	3.05	29.5	29.0	3.39	27.4	27.3	3.72
	80	67	34.5	24.7	3.07	36.7	25.5	2.60	36.2	25.3	2.71	34.5	24.7	3.07	32.3	23.8	3.42	29.6	22.7	3.76
	80	72	41.8	20.8	1.94	40.6	20.3	2.32	39.0	19.8	2.69	37.3	19.1	3.06	35.0	18.1	3.43	32.0	17.0	3.77
	75	62	35.4	26.6	2.04	34.4	26.2	2.37	33.1	25.6	2.71	31.4	24.8	3.05	29.5	23.9	3.39	27.0	22.6	3.71
	75	67	38.6	21.2	2.00	37.6	20.7	2.36	36.2	20.1	2.71	34.4	19.4	3.07	32.2	18.6	3.42	29.5	17.4	3.75
1220	80	62	37.8	35.5	1.60	36.8	33.7	1.94	35.4	34.3	2.28	33.7	33.2	2.62	31.9	31.5	2.96	29.7	29.7	3.30
	80	67	36.6	27.6	2.64	38.9	28.6	2.17	38.4	28.4	2.28	36.6	27.7	2.64	34.3	26.7	2.99	31.5	25.6	3.33
	80	72	44.1	23.3	1.50	42.8	22.8	1.88	41.2	22.1	2.25	39.4	21.4	2.63	37.0	20.5	3.00	34.0	19.5	3.35
	75	62	37.8	29.7	1.60	36.7	29.2	1.94	35.3	28.6	2.28	33.5	27.8	2.62	31.5	27.0	2.96	28.9	25.8	3.29
	75	67	41.0	23.6	1.56	39.8	23.2	1.92	38.4	22.7	2.28	36.5	21.9	2.64	34.3	20.9	2.99	31.5	19.7	3.33

First Stage Low Speed (C1) Cooling

FSA1BG4MVRN48K with FG7 (Variable Speed) and C74B(A,H)MX48(C,U)-C Coil

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.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
860	80	62	22.6	21.9	0.80	22.1	21.9	1.00	21.1	20.9	1.19	19.9	19.9	1.40	18.7	18.7	1.60	17.5	17.5	1.81
	80	67	24.6	18.9	0.77	23.6	18.5	0.97	22.1	17.4	1.17	20.8	17.5	1.37	19.2	16.7	1.59	17.8	16.3	1.80
	80	72	27.2	14.3	0.73	25.9	14.2	0.94	24.2	13.6	1.14	22.6	13.0	1.35	20.7	11.7	1.56	19.2	11.8	1.80
	75	62	22.1	18.9	0.81	21.6	18.7	1.01	20.8	18.8	1.20	19.4	18.1	1.40	17.7	16.9	1.60	16.4	15.3	1.81
	75	67	24.4	14.7	0.77	23.3	14.1	0.98	22.3	13.8	1.17	20.8	13.1	1.37	19.1	12.5	1.59	17.7	12.0	1.80
990	80	62	23.6	23.6	0.78	23.0	22.9	0.98	21.9	21.9	1.18	20.7	20.7	1.38	19.3	19.3	1.59	18.0	18.0	1.81
	80	67	25.0	20.3	0.76	23.9	19.3	0.97	22.7	19.4	1.16	21.1	18.8	1.37	19.5	17.5	1.59	18.0	17.5	1.80
	80	72	27.8	15.6	0.72	26.3	14.4	0.93	24.6	14.6	1.14	22.8	12.9	1.35	21.0	12.3	1.56	19.5	12.6	1.78
	75	62	22.8	20.4	0.80	22.0	19.9	1.00	20.6	19.2	1.20	19.5	18.9	1.40	18.1	17.9	1.60	16.9	16.8	1.81
	75	67	24.9	15.5	0.76	23.7	14.8	0.97	22.6	14.6	1.16	21.1	14.0	1.37	19.4	13.5	1.59	17.9	12.9	1.80
1080	80	62	24.2	24.2	0.77	23.4	23.4	0.98	22.4	22.4	1.17	21.1	21.1	1.37	19.6	19.6	1.59	18.3	18.4	1.81
	80	67	25.3	21.3	0.75	24.3	20.9	0.96	22.8	20.4	1.16	21.3	19.8	1.36	19.6	19.0	1.59	18.3	17.8	1.80
	80	72	28.2	16.3	0.71	26.6	15.0	0.93	24.8	15.0	1.13	23.1	14.3	1.34	21.3	13.7	1.55	19.6	13.2	1.78
	75	62	23.1	21.4	0.79	22.3	21.0	1.00	21.1	20.5	1.19	19.8	19.4	1.40	18.5	18.3	1.60	17.2	17.2	1.81
	75	67	25.4	16.2	0.75	24.3	15.8	0.96	22.8	15.2	1.16	21.2	14.7	1.37	19.5	13.9	1.59	18.1	13.4	1.80

E.D.B. = Entering dry bulb E.W.B. = Entering wet bulb T.C. = Total Capacity S.C. = Sensible Capacity kW = Kilo Watts

COOLING EXPANDED RATINGS WITH VARIABLE SPEED AIR HANDLER (CONT.)

Second Stage Rating Speed (C4) Cooling

FSA1BG4MVRN48K with FG7 (Variable Speed) and C74B(A,H)MX48(C,U)-C Coil

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.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
1285	80	62	43.9	37.1	2.64	43.3	37.2	3.10	41.9	36.2	3.54	40.0	35.6	3.99	37.8	34.6	4.43	35.6	33.6	4.89
	80	67	48.8	31.7	2.62	48.0	31.5	3.10	46.4	30.7	3.56	44.3	29.8	4.02	41.9	28.7	4.48	39.5	27.7	4.95
	80	72	54.0	26.0	2.60	53.0	25.5	3.09	51.2	24.8	3.57	49.0	24.0	4.05	46.4	23.0	4.52	43.4	21.8	5.00
	75	62	43.7	31.5	2.64	43.2	31.2	3.10	41.8	30.6	3.54	39.9	29.7	3.98	37.7	28.6	4.43	35.5	27.6	4.89
	75	67	48.5	25.8	2.62	47.7	25.5	3.10	46.3	24.9	3.56	44.1	23.9	4.01	41.7	22.9	4.48	39.4	21.9	4.95
1480	80	62	45.5	40.4	2.60	44.8	40.0	3.07	43.3	39.5	3.52	41.3	38.7	3.96	39.0	37.6	4.41	36.7	35.7	4.88
	80	67	50.5	33.9	2.58	49.7	33.6	3.07	47.9	32.8	3.53	45.7	31.8	3.99	43.2	30.9	4.46	40.8	29.9	4.93
	80	72	56.0	27.6	2.57	54.8	27.1	3.06	52.8	26.4	3.54	50.4	25.4	4.03	47.9	24.4	4.51	44.8	23.2	4.99
	75	62	45.4	33.6	2.60	44.7	33.7	3.07	43.2	32.9	3.52	41.2	32.0	3.96	38.9	31.0	4.41	36.6	29.5	4.87
	75	67	50.3	27.4	2.59	49.5	27.1	3.07	47.7	26.3	3.53	45.5	25.5	3.99	43.0	24.4	4.46	40.5	23.3	4.93
1610	80	62	46.4	41.8	2.57	45.7	42.3	3.04	44.1	41.6	3.49	42.1	40.6	3.94	39.7	38.9	4.39	37.8	37.8	4.86
	80	67	51.6	35.4	2.55	50.6	35.0	3.04	48.8	34.2	3.50	46.5	33.2	3.97	44.0	32.1	4.44	41.4	31.1	4.91
	80	72	57.2	28.6	2.54	56.1	28.3	3.04	53.8	27.3	3.52	51.4	26.4	4.00	48.7	25.3	4.48	45.6	24.2	4.97
	75	62	46.0	34.5	2.57	45.6	35.1	3.04	44.0	34.4	3.49	41.9	33.5	3.94	39.6	32.4	4.39	37.2	31.2	4.85
	75	67	51.4	28.5	2.55	50.5	28.1	3.04	48.6	27.3	3.50	46.3	26.3	3.97	43.8	25.3	4.44	41.2	24.2	4.91

First Stage Low Speed (C1) Cooling

FSA1BG4MVRN48K with FG7 (Variable Speed) and C74B(A,H)MX48(C,U)-D Coil

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.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
940	80	62	23.3	23.2	0.77	22.6	22.6	0.97	21.7	21.6	1.16	20.4	20.4	1.36	19.1	19.1	1.57	17.9	17.9	1.78
	80	67	23.0	19.0	1.08	24.8	19.7	0.78	22.5	18.8	1.14	21.1	18.2	1.35	19.4	17.5	1.57	18.0	17.0	1.78
	80	72	27.5	15.1	0.71	26.2	14.6	0.91	24.6	14.1	1.12	22.8	13.5	1.32	21.1	12.9	1.53	19.4	12.1	1.77
	75	62	22.5	19.7	0.78	21.9	19.7	0.98	20.7	18.9	1.18	19.4	18.4	1.38	18.0	17.8	1.58	16.8	16.6	1.78
	75	67	24.8	15.2	0.74	23.8	14.8	0.94	22.4	13.7	1.15	20.9	13.0	1.35	19.4	13.2	1.57	18.0	12.6	1.78
990	80	62	23.5	23.5	0.78	22.9	22.9	0.98	21.9	21.9	1.18	20.6	20.6	1.38	19.3	19.3	1.60	18.1	18.1	1.81
	80	67	23.0	19.5	1.10	24.8	20.1	0.80	22.4	18.9	1.17	21.0	18.6	1.37	19.4	17.9	1.59	18.0	17.4	1.80
	80	72	27.6	15.3	0.73	26.3	14.9	0.93	24.6	14.3	1.14	22.9	13.6	1.34	21.1	12.7	1.56	19.4	12.3	1.80
	75	62	22.6	20.4	0.80	22.0	20.0	1.00	20.6	19.1	1.20	19.4	18.9	1.40	18.1	17.7	1.60	16.8	16.5	1.81
	75	67	24.9	15.2	0.76	23.9	15.1	0.96	22.5	14.6	1.17	20.9	13.1	1.37	19.4	13.0	1.59	18.0	12.9	1.80
1070	80	62	23.9	23.9	0.82	23.2	23.2	1.02	22.1	22.2	1.22	20.9	20.9	1.42	19.4	19.4	1.63	18.2	18.2	1.85
	80	67	23.1	20.2	1.14	25.0	20.8	0.84	22.7	20.0	1.20	21.1	19.4	1.41	19.4	18.7	1.63	18.1	17.7	1.84
	80	72	27.8	15.7	0.76	26.4	15.3	0.97	24.7	14.7	1.18	22.9	13.9	1.38	21.0	13.2	1.60	19.3	12.6	1.84
	75	62	22.7	21.0	0.84	22.0	20.7	1.04	20.8	20.2	1.24	19.5	18.9	1.44	18.2	17.9	1.64	16.9	16.9	1.85
	75	67	25.0	15.6	0.80	24.0	15.5	1.00	22.5	14.1	1.21	21.1	14.5	1.41	19.2	13.5	1.63	17.9	13.1	1.84

Second Stage Rating Speed (C4) Cooling

FSA1BG4MVRN48K with FG7 (Variable Speed) and C74B(A,H)MX48(C,U)-D Coil

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.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
1400	80	62	43.6	38.5	2.36	43.0	38.0	2.81	41.5	37.9	3.24	39.7	37.1	3.67	37.7	36.0	4.09	35.5	34.5	4.53
	80	67	43.8	30.7	3.69	46.4	31.7	3.11	45.9	31.6	3.25	43.8	30.7	3.69	41.5	29.7	4.13	38.7	28.2	4.58
	80	72	53.3	26.4	2.33	52.3	26.1	2.80	50.6	25.4	3.25	48.1	24.4	3.71	45.6	23.4	4.17	42.9	22.3	4.63
	75	62	43.4	32.4	2.37	42.9	32.3	2.81	41.5	31.6	3.24	39.6	30.7	3.67	37.5	29.6	4.09	35.0	28.1	4.52
	75	67	48.1	26.3	2.34	47.2	26.0	2.80	45.7	25.3	3.24	43.6	24.5	3.69	41.3	23.5	4.13	38.8	22.4	4.58
1480	80	62	43.9	39.3	2.44	43.2	39.4	2.89	41.7	38.9	3.32	39.8	38.0	3.75	37.7	36.7	4.17	35.6	35.3	4.61
	80	67	44.0	31.2	3.77	46.6	32.2	3.19	46.1	32.2	3.33	44.0	31.2	3.77	41.6	30.1	4.22	39.2	28.9	4.67
	80	72	53.6	26.7	2.41	52.7	26.4	2.88	50.7	25.6	3.33	48.4	24.7	3.79	45.8	23.6	4.25	43.1	22.6	4.72
	75	62	43.7	32.9	2.44	43.1	32.8	2.89	41.6	32.3	3.32	39.7	31.3	3.75	37.5	30.0	4.17	35.0	28.5	4.60
	75	67	48.2	26.5	2.42	47.5	26.3	2.88	45.9	25.6	3.32	43.8	24.7	3.77	41.4	23.7	4.21	38.9	22.6	4.66
1600	80	62	44.1	40.6	2.58	43.4	40.7	3.03	41.9	40.1	3.46	39.9	39.0	3.89	37.8	37.6	4.32	36.0	36.0	4.76
	80	67	44.1	31.7	3.91	46.9	33.1	3.33	46.4	32.8	3.47	44.1	31.7	3.91	41.7	30.8	4.36	39.2	29.6	4.81
	80	72	54.1	27.1	2.54	53.0	26.7	3.01	51.0	25.8	3.47	48.7	24.9	3.93	46.0	23.9	4.39	43.2	22.9	4.86
	75	62	43.9	33.6	2.58	43.3	33.6	3.03	41.8	33.0	3.46	39.8	32.1	3.89	37.6	30.8	4.32	35.0	29.2	4.75
	75	67	48.8	27.0	2.56	47.7	26.6	3.01	46.1	26.0	3.46	43.9	25.0	3.91	41.5	23.9	4.36	38.9	22.8	4.81

E.D.B. = Entering dry bulb E.W.B. = Entering wet bulb T.C. = Total Capacity S.C. = Sensible Capacity kW = Kilo Watts

COOLING EXPANDED RATINGS WITH VARIABLE SPEED AIR HANDLER (CONT.)

First Stage Low Speed (C1) Cooling

FSA1BG4MVRN60K with FG7 (Variable Speed) and C74B(A,H)MX60(C,U)-C Coil

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.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
990	80	62	21.9	21.8	0.70	21.5	21.5	0.89	20.6	20.6	1.07	19.4	19.4	1.26	18.0	18.0	1.45	16.7	16.7	1.66
	80	67	22.8	19.3	0.67	22.1	19.2	0.86	20.9	18.9	1.05	19.6	18.2	1.24	18.1	17.6	1.44	16.7	16.4	1.64
	80	72	24.4	14.2	0.63	23.7	12.8	0.82	22.3	13.7	1.01	20.7	13.0	1.21	19.1	12.5	1.41	17.5	11.9	1.62
	75	62	20.8	19.5	0.73	20.4	19.4	0.92	19.5	19.1	1.10	18.4	18.4	1.29	17.1	16.6	1.48	15.8	15.8	1.67
	75	67	22.6	14.0	0.68	22.1	14.4	0.86	20.8	12.7	1.06	19.6	13.5	1.25	18.1	13.0	1.44	16.6	12.3	1.64
1080	80	62	22.2	22.2	0.72	21.7	21.7	0.91	20.8	20.8	1.10	19.5	19.5	1.29	18.1	18.1	1.49	16.7	16.7	1.69
	80	67	22.8	20.2	0.71	22.1	20.2	0.90	20.9	19.6	1.09	19.5	18.5	1.28	18.2	17.8	1.47	16.8	16.7	1.68
	80	72	24.6	14.7	0.66	23.7	14.5	0.85	22.4	12.0	1.05	20.7	13.4	1.25	19.0	12.9	1.45	17.5	12.2	1.65
	75	62	20.9	20.4	0.76	20.4	20.2	0.95	19.7	19.7	1.13	18.6	18.5	1.32	17.2	17.2	1.51	15.9	15.9	1.71
	75	67	22.7	15.1	0.71	22.0	15.0	0.90	20.9	14.6	1.09	19.6	14.0	1.28	18.0	13.3	1.48	16.5	12.6	1.68
1210	80	62	22.5	22.5	0.77	22.0	22.0	0.97	20.9	21.0	1.16	19.6	19.6	1.35	18.2	18.2	1.55	16.7	16.7	1.75
	80	67	22.7	21.2	0.77	22.0	21.0	0.96	20.8	20.2	1.15	19.6	19.4	1.34	18.2	18.1	1.53	16.8	16.8	1.74
	80	72	24.5	15.1	0.72	23.6	14.9	0.91	22.1	13.7	1.11	20.6	14.0	1.31	18.9	13.5	1.51	17.3	12.7	1.72
	75	62	21.2	21.0	0.82	20.8	20.8	1.01	19.9	19.9	1.19	18.7	18.7	1.38	17.3	17.3	1.57	15.9	16.0	1.77
	75	67	22.7	15.8	0.77	22.0	15.4	0.96	20.8	14.7	1.16	19.4	14.5	1.35	17.9	13.9	1.54	16.4	13.3	1.75

Second Stage Rating Speed (C4) Cooling

FSA1BG4MVRN60K with FG7 (Variable Speed) and C74B(A,H)MX60(C,U)-C Coil

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.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
1480	80	62	53.2	44.0	3.19	52.5	43.7	3.70	50.8	42.8	4.20	48.6	41.7	4.70	46.2	40.7	5.20	43.6	39.5	5.72
	80	67	58.6	37.5	3.17	57.6	37.2	3.70	55.7	36.3	4.21	53.3	35.2	4.73	50.6	34.0	5.24	47.8	32.9	5.78
	80	72	64.2	30.8	3.15	62.9	30.2	3.69	60.8	29.3	4.23	58.1	28.3	4.75	55.2	27.2	5.28	52.2	26.0	5.84
	75	62	53.0	37.4	3.19	52.5	37.4	3.70	50.7	36.5	4.20	48.5	35.3	4.70	46.0	34.1	5.20	43.4	32.9	5.72
	75	67	58.4	30.9	3.17	57.4	30.5	3.70	55.4	29.6	4.21	53.1	28.6	4.73	50.4	27.4	5.24	47.7	26.2	5.77
1610	80	62	53.9	45.4	3.30	53.1	45.0	3.81	51.4	44.2	4.31	49.1	43.4	4.82	46.5	42.3	5.32	43.9	41.0	5.84
	80	67	59.4	38.6	3.28	58.3	38.1	3.81	56.2	37.2	4.33	53.8	36.2	4.84	51.0	35.0	5.36	48.1	33.7	5.90
	80	72	65.0	31.3	3.25	63.6	30.7	3.80	61.5	29.9	4.34	58.7	28.8	4.86	55.6	27.6	5.40	52.5	26.4	5.96
	75	62	53.7	38.5	3.30	53.0	38.2	3.81	51.2	37.3	4.31	48.9	36.2	4.81	46.4	35.1	5.32	43.7	33.8	5.84
	75	67	59.1	31.5	3.28	58.0	31.0	3.81	56.0	30.1	4.33	53.6	29.1	4.84	50.8	27.9	5.36	48.0	26.7	5.89
1805	80	62	54.6	47.2	3.51	53.7	46.8	4.03	51.8	46.4	4.54	49.4	45.4	5.04	46.7	44.1	5.55	44.0	42.7	6.06
	80	67	60.1	39.9	3.49	58.8	39.4	4.03	56.7	38.5	4.55	54.1	37.2	5.07	51.3	36.1	5.59	48.3	34.8	6.13
	80	72	65.7	31.9	3.47	64.2	31.3	4.02	61.9	30.4	4.56	59.1	29.3	5.09	55.9	28.0	5.63	52.7	26.8	6.19
	75	62	54.4	39.7	3.51	53.5	39.4	4.03	51.6	38.5	4.54	49.2	37.3	5.04	46.6	36.1	5.55	43.8	34.8	6.07
	75	67	59.8	32.0	3.49	58.6	31.6	4.03	56.5	30.7	4.55	54.0	29.7	5.07	51.1	28.4	5.58	48.2	27.1	6.13

First Stage Low Speed (C1) Cooling

FSA1BG4MVRN60K with FG7 (Variable Speed) and C74B(A,H)MX60(C,U)-D Coil

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.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
990	80	62	22.0	22.0	0.66	21.6	21.6	0.84	20.7	20.7	1.03	19.5	19.5	1.22	18.2	18.2	1.41	16.9	16.9	1.61
	80	67	21.5	18.9	0.95	22.7	18.3	0.67	21.0	16.8	1.02	19.7	16.0	1.20	18.3	17.5	1.39	16.9	16.7	1.60
	80	72	24.6	14.4	0.58	23.7	14.2	0.78	22.5	13.7	0.97	20.9	13.0	1.17	19.3	12.2	1.37	17.7	11.5	1.58
	75	62	21.0	19.5	0.69	20.5	19.5	0.87	19.6	19.2	1.05	18.5	18.3	1.24	17.3	17.2	1.43	16.0	16.0	1.63
	75	67	22.7	14.5	0.64	22.1	14.3	0.83	21.1	14.1	1.02	19.8	13.7	1.20	18.3	13.1	1.39	16.8	12.0	1.60
1070	80	62	22.2	22.2	0.69	21.8	21.8	0.87	20.9	20.9	1.06	19.7	19.7	1.25	18.3	18.3	1.44	16.9	16.9	1.66
	80	67	21.5	19.7	0.99	22.8	20.1	0.70	21.0	17.3	1.05	19.7	18.9	1.24	18.3	18.2	1.43	17.0	17.0	1.64
	80	72	24.7	14.8	0.62	23.8	14.5	0.81	22.4	13.8	1.01	20.8	13.1	1.21	19.2	12.4	1.41	17.6	11.6	1.62
	75	62	21.1	20.3	0.72	20.4	19.8	0.91	19.8	19.7	1.09	18.7	18.6	1.28	17.4	17.4	1.47	16.1	16.1	1.67
	75	67	22.8	14.9	0.67	22.2	14.6	0.86	21.1	14.5	1.05	19.7	14.1	1.24	18.2	12.8	1.43	16.7	12.2	1.64
1205	80	62	22.5	22.5	0.75	22.0	22.0	0.94	21.0	21.0	1.13	19.7	19.7	1.32	18.3	18.3	1.52	16.8	16.8	1.74
	80	67	21.4	20.6	1.07	22.8	21.2	0.78	21.0	20.5	1.12	19.7	19.4	1.31	18.4	18.4	1.50	16.9	16.9	1.71
	80	72	24.6	14.9	0.69	23.6	14.7	0.89	22.3	14.1	1.08	20.7	13.4	1.29	19.0	12.6	1.49	17.3	11.6	1.70
	75	62	21.2	20.7	0.79	20.8	20.7	0.98	19.9	19.9	1.16	18.7	18.7	1.35	17.4	17.4	1.54	16.0	16.0	1.75
	75	67	22.7	15.4	0.74	22.1	15.2	0.94	20.9	14.3	1.13	19.5	14.5	1.32	18.0	13.4	1.51	16.4	12.1	1.72

E.D.B. = Entering dry bulb E.W.B. = Entering wet bulb T.C. = Total Capacity S.C. = Sensible Capacity kW = Kilo Watts

COOLING EXPANDED RATINGS WITH VARIABLE SPEED AIR HANDLER (CONT.)

Second Stage Rating Speed (C4) Cooling

FSA1BG4MVRN60K with FG7 (Variable Speed) and C74B(A,H)MX60(C,U)-D Coil

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.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW	T.C.	S.C.	kW
1480	80	62	50.8	42.0	3.53	50.1	41.6	4.05	48.4	40.8	4.54	46.2	39.7	5.04	43.9	38.6	5.54	41.5	37.2	6.04
	80	67	50.7	33.2	5.07	53.7	34.5	4.40	53.1	34.3	4.55	50.7	33.2	5.07	48.1	32.0	5.57	45.5	30.8	6.09
	80	72	61.2	28.7	3.49	60.0	28.2	4.03	57.9	27.3	4.56	55.4	26.3	5.08	52.6	25.3	5.61	49.6	24.2	6.16
	75	62	50.5	35.4	3.53	49.9	35.3	4.05	48.3	34.5	4.54	46.1	33.4	5.04	43.7	32.2	5.54	41.3	30.8	6.04
	75	67	55.6	28.8	3.51	54.4	28.3	4.03	52.9	27.7	4.55	50.5	26.6	5.06	48.0	25.5	5.57	45.3	24.3	6.09
1600	80	62	52.2	44.2	3.46	51.4	43.7	3.98	49.6	42.8	4.47	47.4	42.0	4.97	45.0	40.8	5.47	42.5	39.4	5.98
	80	67	51.9	34.9	5.00	55.0	36.2	4.33	54.4	35.9	4.48	51.9	34.9	5.00	49.3	33.7	5.51	46.6	32.4	6.03
	80	72	62.7	29.9	3.42	61.4	29.4	3.96	59.2	28.6	4.49	56.6	27.6	5.01	53.7	26.5	5.54	50.7	25.2	6.09
	75	62	51.9	37.2	3.46	51.2	36.9	3.98	49.5	36.1	4.47	47.3	35.1	4.97	44.8	33.8	5.47	42.4	32.5	5.97
	75	67	57.0	30.2	3.44	55.7	29.6	3.96	54.1	28.9	4.48	51.7	27.9	5.00	49.2	26.8	5.50	46.3	25.6	6.02
1800	80	62	54.3	47.5	3.21	53.5	47.1	3.73	51.6	46.9	4.23	49.3	45.8	4.73	46.8	44.3	5.24	44.3	42.7	5.74
	80	67	53.8	37.7	4.76	57.0	38.9	4.09	56.3	38.7	4.24	53.8	37.7	4.76	51.1	36.3	5.27	48.3	35.1	5.80
	80	72	65.0	32.2	3.17	63.5	31.6	3.72	61.3	30.7	4.25	58.6	29.6	4.77	55.5	28.4	5.31	52.4	27.3	5.86
	75	62	54.1	40.0	3.21	53.3	39.7	3.73	51.5	38.9	4.23	49.1	37.7	4.73	46.6	36.7	5.24	44.1	35.3	5.74
	75	67	59.3	32.3	3.19	57.9	31.8	3.72	56.1	31.1	4.24	53.6	30.0	4.76	50.9	28.9	5.27	48.1	27.6	5.79

E.D.B. = Entering dry bulb E.W.B. = Entering wet bulb T.C. = Total Capacity S.C. = Sensible Capacity kW = Kilo Watts

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