

TECHNICAL SPECIFICATIONS

FSA1BG Series

iQ Drive®

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

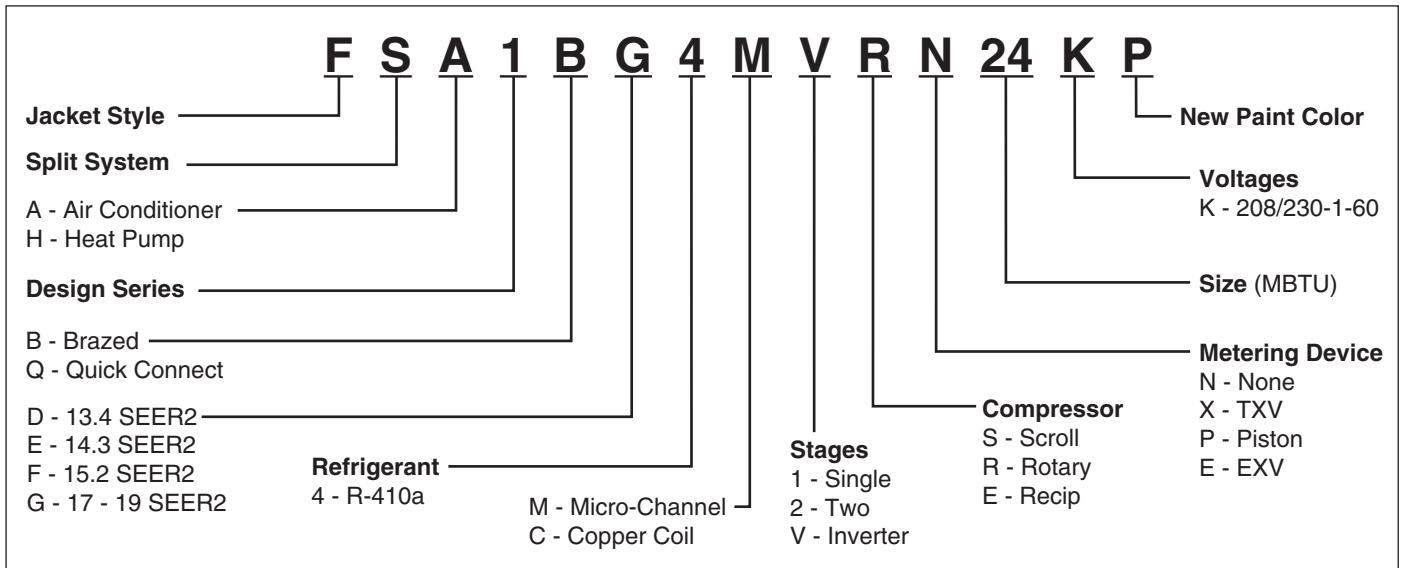
The iQ Drive® air conditioner system features modulating compressor technology and variable speed indoor and outdoor fan motors. This system is controlled from a two stage cooling and heating thermostat. The system has the capability of adding up to 18% of additional cooling above the rated capacity. 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.
- **Service-Friendly Jacket:** Side panels can be easily removed and replaced without removing the top grill.

MODEL IDENTIFICATION CODES

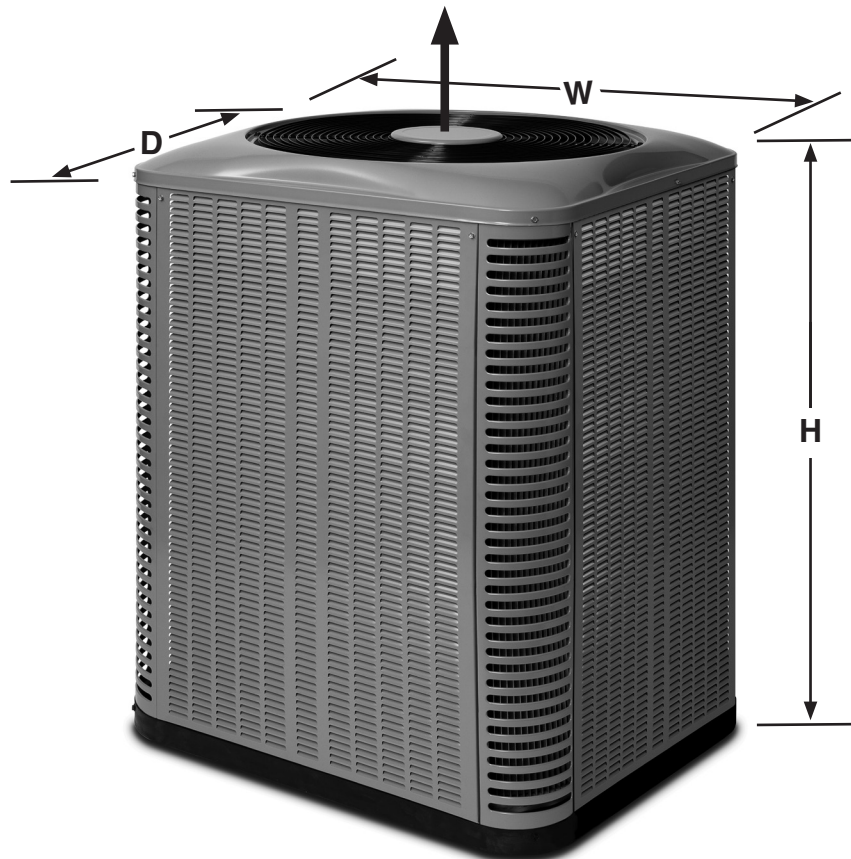


DIMENSIONS

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.

www.ahridirectory.org

| 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 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.

www.ahridirectory.org

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 |
| 500 | 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 |
| | 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 |
| 575 | 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 |
| | 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 1080 | 80 | 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 |
| | 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 |
| 1210 | 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 |
| | 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 |
| 1210 | 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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