

## TECHNICAL SPECIFICATIONS

# ESA1BE Series

### High Efficiency Air Conditioner 14 SEER Residential System 1-1/2 – 5 Ton Capacity

The ESA1BE Series of air conditioners offers exceptional performance. The unit, when combined with our engineered coils or air handlers, offers a full line of quality, split system cooling equipment.

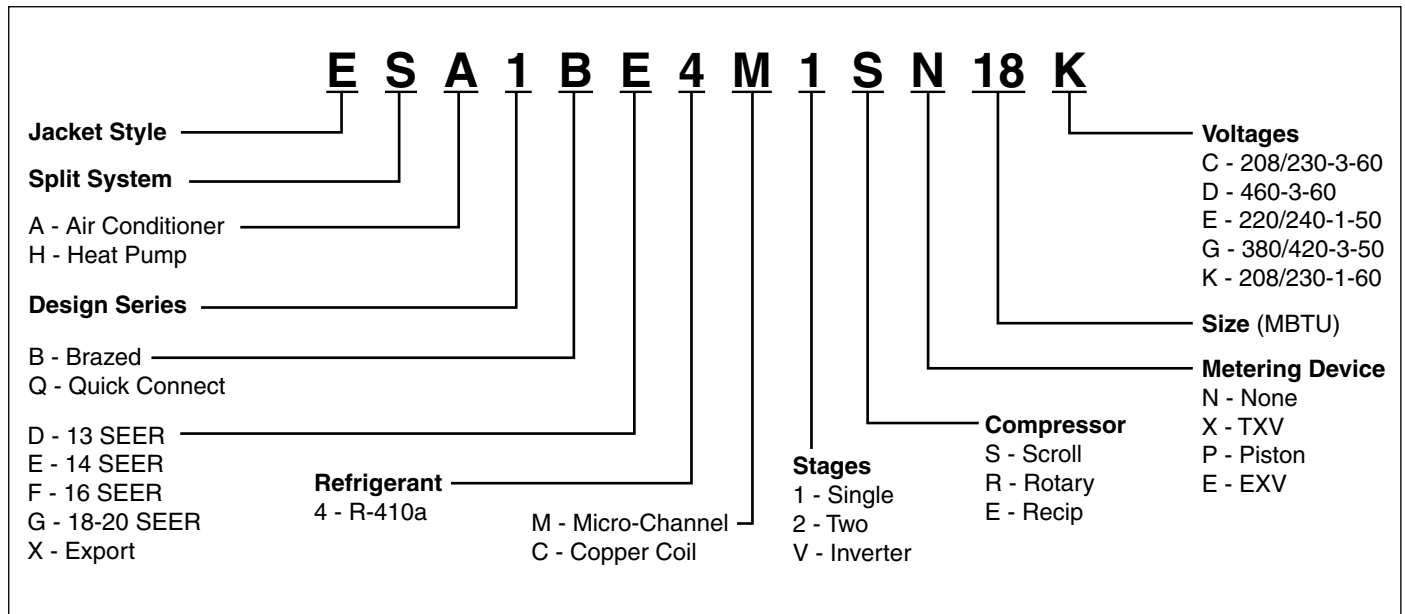


## FEATURES and BENEFITS

- **Designed Using Galvanized Steel:** With a polyester urethane coat finish, it passes 950 hours of salt spray per ASTM Std. B117.
- **Permanently Lubricated Motor:** A heavy duty PSC motor for long lasting reliability and quiet operation. Requires no maintenance and is completely protected from rain and snow.
- **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.
- **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.
- **Composite Base Pan:** Absorbs sound and is corrosion resistant. Composite is also stronger and lighter than steel.
- **Swept Wing Fan Blade:** Designed to significantly reduce unwanted noise.
- **Micro-Channel Coils:** All aluminum coils in all models which provides high corrosion resistance.
- **Servicer-Friendly Jacket:** Side panels can be easily removed and replaced without removing the top grill.



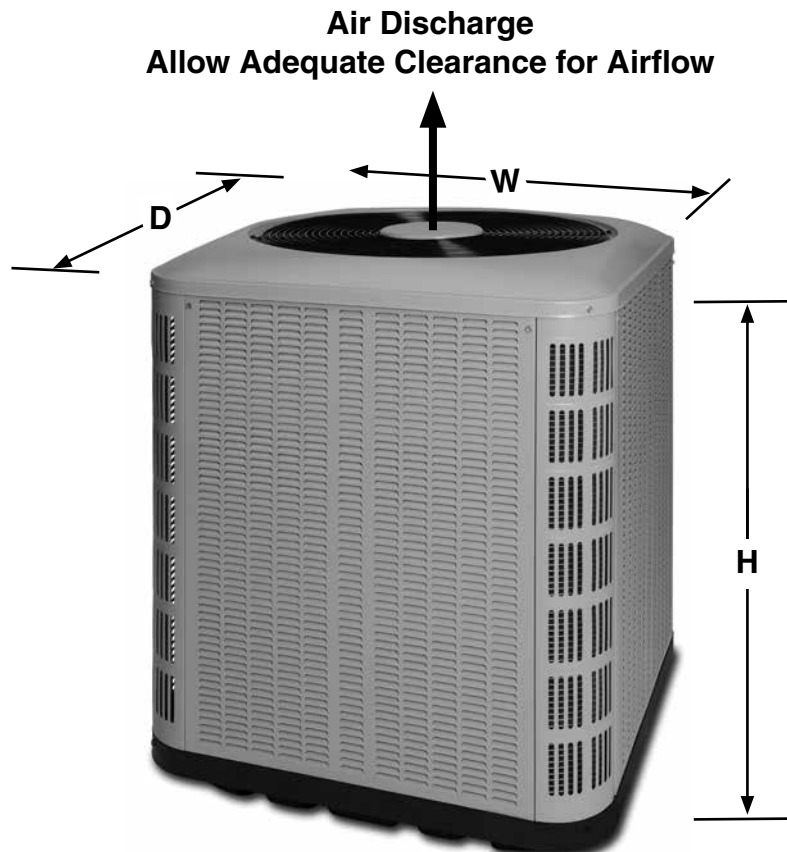
## MODEL IDENTIFICATION CODES



## DIMENSIONS

### AIR CONDITIONER OUTDOOR SECTION

| ESA1BE | 18K   | 24K   | 30K   | 36K   | 42K   | 48K   | 60K   |
|--------|-------|-------|-------|-------|-------|-------|-------|
| H      | 28.5  | 32.5  | 29.25 | 37.25 | 41.25 | 41.25 | 45.25 |
| W      | 23.75 | 23.75 | 23.75 | 23.75 | 31.75 | 31.75 | 31.75 |
| D      | 23.75 | 23.75 | 31.75 | 31.75 | 31.75 | 31.75 | 31.75 |



# PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

## 14 SEER — High Efficiency — Single Phase

| Model Number ESA1BE                                                                   |                        |           | 18K          | 24K  | 30K  | 36K      | 42K   | 48K   | 60K        |
|---------------------------------------------------------------------------------------|------------------------|-----------|--------------|------|------|----------|-------|-------|------------|
| Electrical Data                                                                       | Volts-Cycles-Phase (1) |           | 208/230-60-1 |      |      |          |       |       |            |
|                                                                                       | Total Amps             |           | 9.9          | 14.4 | 15.0 | 15.1     | 19.4  | 21.3  | 29.0       |
|                                                                                       | Delay Fuse Max. (2)    |           | 20           | 30   | 30   | 30       | 40    | 45    | 60         |
|                                                                                       | Min. Circuit Ampacity  |           | 12.1         | 17.7 | 18.5 | 18.6     | 23.9  | 26.3  | 35.6       |
| Component Data                                                                        | Fan Motor              | Type      | PSC          |      |      |          |       |       | BLDC       |
|                                                                                       |                        | Amps      | 0.9          | 0.9  | 0.9  | 1.0      | 1.5   | 1.5   | 2.6        |
|                                                                                       |                        | HP        | 0.13         | 0.13 | 0.13 | 0.20     | 0.25  | 0.25  | 0.33       |
|                                                                                       | Compressor Data        | RLA       | 9.0          | 13.4 | 14.1 | 14.1     | 17.9  | 19.8  | 26.4       |
|                                                                                       |                        | LRA       | 48.0         | 58.3 | 73.0 | 77.0     | 112.0 | 109.0 | 134.0      |
| Refrigerant suction line O.D.<br>NOTE: Liquid line is 3/8" O.D.<br>for entire length. |                        | 0-24 ft.  | 3/4"         | 3/4" | 3/4" | 3/4"     | 7/8"  | 7/8"  | 7/8"       |
|                                                                                       |                        | 25-39 ft. | 3/4"         | 3/4" | 3/4" | 7/8" (3) | 7/8"  | 7/8"  | 1-1/8" (4) |
|                                                                                       |                        | 40-75 ft. | 3/4"         | 3/4" | 3/4" | 7/8" (3) | 7/8"  | 7/8"  | 1-1/8" (4) |
| Approximate Weight (lbs.)                                                             |                        | Net       | 143          | 151  | 160  | 183      | 213   | 215   | 251        |
|                                                                                       |                        | Ship      | 152          | 159  | 170  | 194      | 225   | 227   | 264        |
| Sound Rating db                                                                       |                        |           | 74           | 74   | 75   | 79       | 79    | 79    | 79         |

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

(2) HACR Type Circuit Breakers may be used.

(3) Requires 7/8" to 3/4" reducer from line to unit.

(4) Requires 7/8" to 1-1/8" reducer from line to unit.

(5) Additional charge for line sets above 15 feet.

Values based on suction line as follows with 3/8" liquid line.

a) 3/4" = 0.6 oz. per additional foot.

b) 7/8" = 0.7 oz. per additional foot.

c) 1-1/8" = 0.8 oz per additional foot.

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

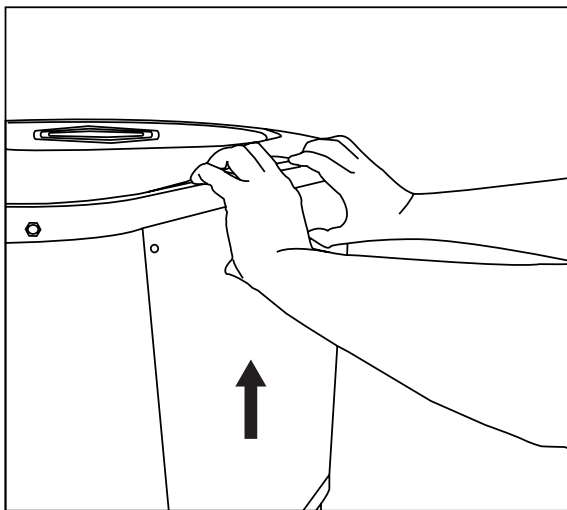
## ACCESSORIES - Condensing Unit

### Start Assist Kit - 912933

Provides additional starting torque for the compressor motor when operating with low line voltage or high operating temperatures.

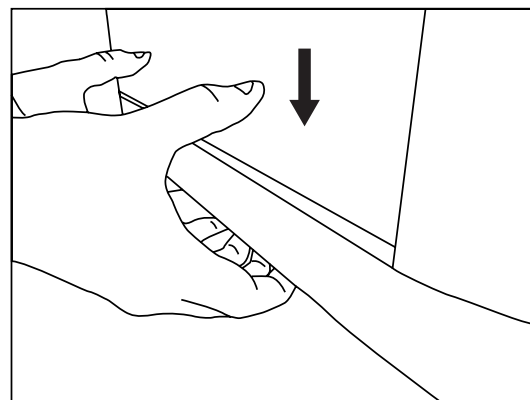
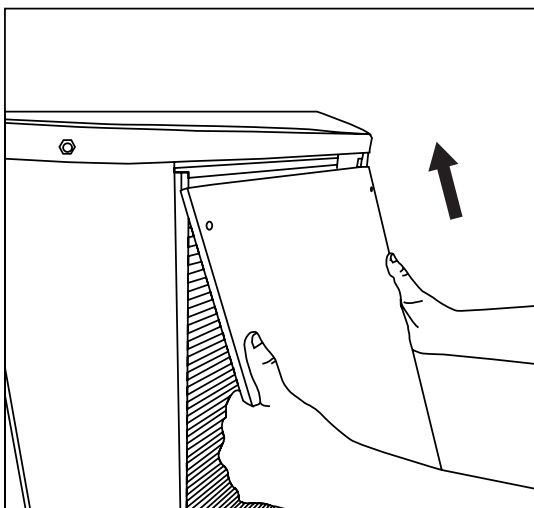
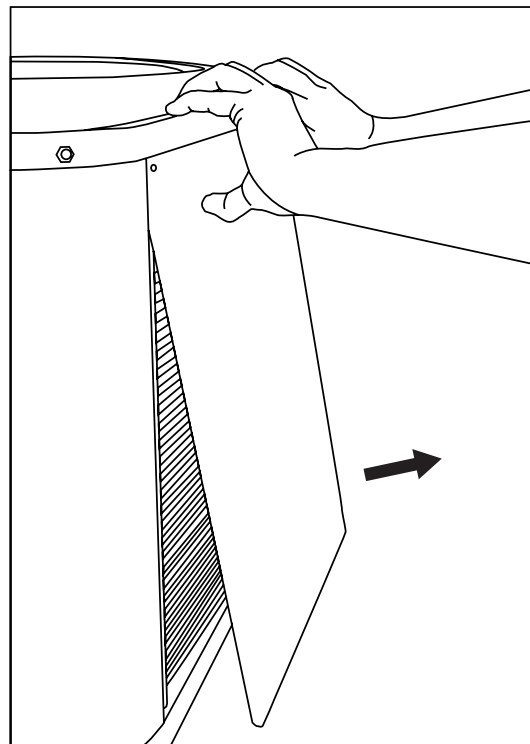
### Low Ambient Kit - 918837

## PANEL REMOVAL AND REPLACEMENT INSTRUCTIONS



### Removing Panels:

1. Remove screws.
2. Pull up on panel.
3. Rotate bottom of panel out.
4. Pull panel off.



### Reinstalling Panels:

1. Place panel back in towards top of unit.
2. Rotate bottom of panel inwards.
3. Push panel down until it fills gap at bottom of unit.
4. Replace screws.

# SYSTEM COOLING CAPACITIES

## 14 SEER — High Efficiency — Single Phase

| Outdoor Unit   | Indoor Unit               | BTUH   | SEER | EER  | CFM  |
|----------------|---------------------------|--------|------|------|------|
| ESA1BE4M1SN18K | C7B(A,H)M01824(C,U)-A+TXV | 18,000 | 14   | 12.2 | 680  |
| ESA1BE4M1SN18K | C7B(A,H)M01824(C,U)-B+TXV | 18,000 | 14   | 12.2 | 680  |
| ESA1BE4M1SN24K | C7B(A,H)M01824(C,U)-A+TXV | 24,000 | 14   | 12.2 | 845  |
| ESA1BE4M1SN24K | C7B(A,H)M01824(C,U)-B+TXV | 24,000 | 14   | 12.2 | 845  |
| ESA1BE4M1SN30K | C7B(A,H)M03036(C,U)-A+TXV | 29,000 | 14   | 12.0 | 945  |
| ESA1BE4M1SN30K | C7B(A,H)M03036(C,U)-B+TXV | 29,000 | 14   | 12.0 | 945  |
| ESA1BE4M1SN36K | C7B(A,H)M03642(C,U)-B+TXV | 34,800 | 14   | 12.2 | 1110 |
| ESA1BE4M1SN36K | C7B(A,H)M03648(C,U)-C+TXV | 34,800 | 14   | 12.2 | 1110 |
| ESA1BE4M1SN42K | C7B(A,H)M03642(C,U)-B+TXV | 40,500 | 14   | 12.2 | 1305 |
| ESA1BE4M1SN42K | C7B(A,H)M03648(C,U)-C+TXV | 40,500 | 14   | 12.2 | 1305 |
| ESA1BE4M1SN48K | C7B(A,H)M048(C,U)-C+TXV   | 45,500 | 14   | 11.7 | 1525 |
| ESA1BE4M1SN48K | C7B(A,H)M048(C,U)-D+TXV   | 45,500 | 14   | 11.7 | 1525 |
| ESA1BE4M1SN60K | C7B(A,H)M060(C,U)-C+TXV   | 57,000 | 14   | 11.7 | 1540 |
| ESA1BE4M1SN60K | C7B(A,H)M060(C,U)-D+TXV   | 57,000 | 14   | 11.7 | 1540 |

| Outdoor Unit   | Indoor Unit | BTUH   | SEER | EER  | CFM  |
|----------------|-------------|--------|------|------|------|
| ESA1BE4M1SN18K | B6BMMX24K-A | 18,000 | 14   | 12.2 | 600  |
| ESA1BE4M1SN18K | B6BMMX24K-B | 18,000 | 14   | 12.2 | 600  |
| ESA1BE4M1SN24K | B6BMMX24K-A | 24,000 | 14   | 12.2 | 705  |
| ESA1BE4M1SN24K | B6BMMX24K-B | 24,000 | 14   | 12.2 | 705  |
| ESA1BE4M1SN30K | B6BMMX30K-A | 30,200 | 14   | 12.2 | 875  |
| ESA1BE4M1SN30K | B6BMMX30K-B | 30,200 | 14   | 12.2 | 875  |
| ESA1BE4M1SN36K | B6BMMX36K-B | 34,000 | 14   | 12.2 | 905  |
| ESA1BE4M1SN42K | B6BMMX42K-B | 40,000 | 14   | 12.2 | 1225 |
| ESA1BE4M1SN48K | B6BMMX48K-C | 45,500 | 14   | 11.7 | 1450 |
| ESA1BE4M1SN60K | B6BMMX60K-C | 58,000 | 14   | 11.7 | 1660 |

See current AHRI Directory for certified combinations and ratings. All ratings are with time delay relay.

[www.ahridirectory.org](http://www.ahridirectory.org)

# COOLING EXPANDED RATINGS - LOOSE COIL

ESA1BE4M1SN18K with C7B(A,H)M01824(C,U)-A + TXV Kit

| 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. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C.  | K.W. | T.C.  | S.C.  | K.W. |
| 525   | 80     | 62     | 19.7 | 14.7 | 1.08 | 19.0 | 14.6 | 1.22 | 18.2 | 15.0 | 1.36 | 17.3 | 14.8 | 1.51 | 16.36 | 15.63 | 1.69 | 15.31 | 14.63 | 1.89 |
|       | 80     | 67     | 21.7 | 12.2 | 1.08 | 20.8 | 12.1 | 1.22 | 19.9 | 12.2 | 1.36 | 18.9 | 12.0 | 1.52 | 17.80 | 11.75 | 1.71 | 16.69 | 10.92 | 1.90 |
|       | 80     | 72     | 23.9 | 9.6  | 1.08 | 22.9 | 9.5  | 1.22 | 21.9 | 9.7  | 1.38 | 20.7 | 9.4  | 1.54 | 19.57 | 9.26  | 1.72 | 18.37 | 9.48  | 1.91 |
|       | 75     | 62     | 19.7 | 12.3 | 1.08 | 18.9 | 12.2 | 1.22 | 18.1 | 12.3 | 1.36 | 17.2 | 12.1 | 1.51 | 16.21 | 11.04 | 1.69 | 15.13 | 11.88 | 1.89 |
| 600   | 80     | 62     | 20.3 | 16.2 | 1.11 | 19.5 | 16.6 | 1.25 | 18.7 | 16.2 | 1.39 | 17.8 | 16.0 | 1.54 | 16.75 | 15.99 | 1.72 | 15.88 | 15.75 | 1.92 |
|       | 80     | 67     | 22.3 | 13.0 | 1.11 | 21.4 | 13.4 | 1.25 | 20.4 | 13.0 | 1.39 | 19.3 | 12.9 | 1.55 | 18.13 | 12.83 | 1.74 | 16.98 | 12.81 | 1.93 |
|       | 80     | 72     | 24.5 | 10.0 | 1.11 | 23.5 | 10.5 | 1.25 | 22.3 | 10.1 | 1.41 | 21.1 | 10.0 | 1.57 | 19.94 | 10.08 | 1.75 | 18.68 | 10.13 | 1.94 |
|       | 75     | 62     | 20.2 | 13.1 | 1.11 | 19.4 | 13.5 | 1.25 | 18.5 | 13.1 | 1.39 | 17.6 | 12.9 | 1.54 | 16.53 | 12.87 | 1.72 | 15.42 | 12.78 | 1.92 |
| 675   | 80     | 62     | 20.8 | 17.6 | 1.14 | 20.0 | 17.7 | 1.28 | 19.1 | 17.4 | 1.42 | 18.2 | 17.2 | 1.57 | 17.34 | 16.75 | 1.76 | 16.38 | 16.31 | 1.95 |
|       | 80     | 67     | 22.7 | 14.0 | 1.13 | 21.7 | 14.1 | 1.27 | 20.7 | 13.8 | 1.42 | 19.6 | 13.7 | 1.59 | 18.40 | 13.56 | 1.77 | 17.21 | 13.61 | 1.96 |
|       | 80     | 72     | 25.0 | 10.8 | 1.13 | 23.9 | 11.0 | 1.28 | 22.7 | 10.6 | 1.44 | 21.5 | 10.6 | 1.61 | 20.21 | 10.54 | 1.78 | 18.92 | 10.68 | 1.97 |
|       | 75     | 62     | 20.6 | 14.1 | 1.14 | 19.7 | 14.2 | 1.28 | 18.8 | 13.9 | 1.42 | 17.9 | 13.8 | 1.57 | 16.75 | 13.59 | 1.75 | 15.69 | 13.95 | 1.95 |

ESA1BE4M1SN24K with C7B(A,H)M01824(C,U)-A+TXV Kit

| 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. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C.  | K.W. | T.C.  | S.C.  | K.W. |
| 700   | 80     | 62     | 25.2 | 19.8 | 1.38 | 24.3 | 19.7 | 1.55 | 23.2 | 19.8 | 1.72 | 22.1 | 19.5 | 1.91 | 20.90 | 20.47 | 2.12 | 19.63 | 19.23 | 2.38 |
|       | 80     | 67     | 27.5 | 15.9 | 1.38 | 26.4 | 15.8 | 1.55 | 25.2 | 16.0 | 1.73 | 23.9 | 15.7 | 1.93 | 22.50 | 15.39 | 2.15 | 21.14 | 14.48 | 2.39 |
|       | 80     | 72     | 30.2 | 12.3 | 1.39 | 28.9 | 12.3 | 1.56 | 27.6 | 12.5 | 1.75 | 26.1 | 12.2 | 1.96 | 24.69 | 11.99 | 2.17 | 23.18 | 12.29 | 2.41 |
|       | 75     | 62     | 25.0 | 16.2 | 1.38 | 24.1 | 16.0 | 1.55 | 23.0 | 16.1 | 1.72 | 21.9 | 15.8 | 1.91 | 20.63 | 14.50 | 2.12 | 19.27 | 15.60 | 2.38 |
| 800   | 80     | 62     | 25.9 | 21.4 | 1.42 | 24.8 | 21.8 | 1.59 | 23.8 | 21.3 | 1.76 | 22.6 | 21.1 | 1.95 | 21.54 | 20.82 | 2.18 | 20.40 | 20.23 | 2.42 |
|       | 80     | 67     | 28.1 | 17.0 | 1.42 | 26.9 | 17.5 | 1.59 | 25.7 | 17.0 | 1.77 | 24.4 | 16.8 | 1.97 | 22.92 | 16.81 | 2.20 | 21.48 | 16.80 | 2.43 |
|       | 80     | 72     | 30.8 | 13.0 | 1.43 | 29.5 | 13.6 | 1.60 | 28.1 | 13.1 | 1.80 | 26.6 | 13.0 | 2.00 | 25.07 | 13.06 | 2.22 | 23.50 | 13.14 | 2.45 |
|       | 75     | 62     | 25.6 | 17.2 | 1.42 | 24.6 | 17.6 | 1.59 | 23.4 | 17.2 | 1.76 | 22.3 | 17.0 | 1.95 | 21.05 | 17.28 | 2.16 | 19.65 | 17.17 | 2.42 |
| 900   | 80     | 62     | 26.4 | 23.2 | 1.46 | 25.4 | 23.3 | 1.63 | 24.4 | 22.7 | 1.80 | 23.4 | 22.2 | 1.99 | 22.17 | 21.42 | 2.23 | 20.99 | 20.90 | 2.47 |
|       | 80     | 67     | 28.6 | 18.3 | 1.46 | 27.4 | 18.5 | 1.63 | 26.1 | 18.0 | 1.81 | 24.7 | 18.0 | 2.01 | 23.18 | 17.79 | 2.23 | 21.77 | 18.30 | 2.47 |
|       | 80     | 72     | 31.3 | 13.9 | 1.47 | 30.0 | 14.2 | 1.64 | 28.5 | 13.8 | 1.84 | 26.9 | 13.7 | 2.04 | 25.34 | 13.70 | 2.26 | 23.71 | 13.87 | 2.49 |
|       | 75     | 62     | 26.1 | 18.5 | 1.46 | 25.0 | 18.6 | 1.62 | 23.9 | 18.6 | 1.80 | 22.7 | 18.5 | 1.99 | 21.31 | 18.34 | 2.21 | 19.92 | 18.33 | 2.46 |

ESA1BE4M1SN30K with C7B(A,H)M03036(C,U)-A+TXV Kit

| 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. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C.  | K.W. | T.C.  | S.C.  | K.W. |
| 875   | 80     | 62     | 31.2 | 24.6 | 1.69 | 30.0 | 24.4 | 1.88 | 28.8 | 24.5 | 2.07 | 27.5 | 24.1 | 2.30 | 26.09 | 25.15 | 2.56 | 24.56 | 23.67 | 2.85 |
|       | 80     | 67     | 33.8 | 20.2 | 1.71 | 32.4 | 20.1 | 1.90 | 31.1 | 20.3 | 2.10 | 29.6 | 19.9 | 2.32 | 28.04 | 19.63 | 2.58 | 26.32 | 18.48 | 2.88 |
|       | 80     | 72     | 36.8 | 15.4 | 1.73 | 35.3 | 15.4 | 1.92 | 33.7 | 15.7 | 2.12 | 32.1 | 15.4 | 2.35 | 30.34 | 15.14 | 2.62 | 28.44 | 15.49 | 2.92 |
|       | 75     | 62     | 31.1 | 20.6 | 1.70 | 29.8 | 20.4 | 1.87 | 28.6 | 20.5 | 2.07 | 27.2 | 20.1 | 2.30 | 25.80 | 18.54 | 2.55 | 24.23 | 19.89 | 2.85 |
| 1000  | 80     | 62     | 31.9 | 26.3 | 1.75 | 30.7 | 26.8 | 1.93 | 29.4 | 26.1 | 2.13 | 28.0 | 25.8 | 2.35 | 26.63 | 25.50 | 2.61 | 25.15 | 24.94 | 2.91 |
|       | 80     | 67     | 34.4 | 21.5 | 1.76 | 33.0 | 22.1 | 1.94 | 31.6 | 21.6 | 2.15 | 30.0 | 21.3 | 2.37 | 28.42 | 21.33 | 2.63 | 26.59 | 21.28 | 2.94 |
|       | 80     | 72     | 37.3 | 16.3 | 1.79 | 35.8 | 17.0 | 1.97 | 34.2 | 16.5 | 2.18 | 32.5 | 16.4 | 2.40 | 30.62 | 16.47 | 2.67 | 28.64 | 16.55 | 2.97 |
|       | 75     | 62     | 31.6 | 21.8 | 1.74 | 30.3 | 22.3 | 1.92 | 29.1 | 21.8 | 2.12 | 27.7 | 21.5 | 2.35 | 26.17 | 21.45 | 2.60 | 24.56 | 21.34 | 2.90 |
| 1125  | 80     | 62     | 32.5 | 28.2 | 1.80 | 31.2 | 28.2 | 1.98 | 29.9 | 27.5 | 2.18 | 28.6 | 27.1 | 2.40 | 27.22 | 26.30 | 2.66 | 25.73 | 25.62 | 2.97 |
|       | 80     | 67     | 34.9 | 23.1 | 1.81 | 33.4 | 23.3 | 2.00 | 31.9 | 22.7 | 2.20 | 30.3 | 22.7 | 2.42 | 28.67 | 22.54 | 2.68 | 26.82 | 22.58 | 2.99 |
|       | 80     | 72     | 37.7 | 17.4 | 1.84 | 36.1 | 17.8 | 2.02 | 34.4 | 17.3 | 2.23 | 32.7 | 17.3 | 2.46 | 30.79 | 17.23 | 2.73 | 28.84 | 17.43 | 3.03 |
|       | 75     | 62     | 32.1 | 23.4 | 1.79 | 30.7 | 23.5 | 1.97 | 29.4 | 23.0 | 2.17 | 28.0 | 22.9 | 2.40 | 26.47 | 22.63 | 2.65 | 24.84 | 22.60 | 2.95 |

ESA1BE4M1SN36K with C7B(A,H)M03642(C,U)-B+TXV Kit

| 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. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C.  | K.W. | T.C.  | S.C.  | K.W. |
| 1050  | 80     | 62     | 36.2 | 28.7 | 2.03 | 34.9 | 28.5 | 2.25 | 33.4 | 28.6 | 2.48 | 31.9 | 28.1 | 2.75 | 30.10 | 29.26 | 3.05 | 28.39 | 27.60 | 3.39 |
|       | 80     | 67     | 39.8 | 23.6 | 2.04 | 38.2 | 23.5 | 2.26 | 36.5 | 23.7 | 2.50 | 34.7 | 23.3 | 2.77 | 32.88 | 22.98 | 3.06 | 30.92 | 21.39 | 3.39 |
|       | 80     | 72     | 43.7 | 18.2 | 2.05 | 41.9 | 18.1 | 2.28 | 40.0 | 18.5 | 2.53 | 38.1 | 18.1 | 2.78 | 36.09 | 17.85 | 3.07 | 33.94 | 18.31 | 3.40 |
|       | 75     | 62     | 36.1 | 24.0 | 2.03 | 34.7 | 23.8 | 2.25 | 33.2 | 23.9 | 2.49 | 31.7 | 23.5 | 2.75 | 29.85 | 21.61 | 3.05 | 28.08 | 23.18 | 3.39 |
| 1200  | 80     | 62     | 37.1 | 30.7 | 2.09 | 35.6 | 31.3 | 2.31 | 34.1 | 30.6 | 2.54 | 32.5 | 30.1 | 2.81 | 30.80 | 29.72 | 3.11 | 29.24 | 28.99 | 3.44 |
|       | 80     | 67     | 40.6 | 25.2 | 2.10 | 38.9 | 25.9 | 2.32 | 37.2 | 25.3 | 2.56 | 35.3 | 25.0 | 2.83 | 33.37 | 25.08 | 3.12 | 31.33 | 24.99 | 3.45 |
|       | 80     | 72     | 44.5 | 19.2 | 2.11 | 42.7 | 20.0 | 2.34 | 40.7 | 19.4 | 2.59 | 38.7 | 19.3 | 2.84 | 36.59 | 19.44 | 3.13 | 34.39 | 19.59 | 3.46 |
|       | 75     | 62     | 36.9 | 25.5 | 2.09 | 35.4 | 26.1 | 2.31 | 33.8 | 25.4 | 2.55 | 32.1 | 25.1 | 2.81 | 30.34 | 24.99 | 3.11 | 28.48 | 24.90 | 3.44 |
| 1350  | 80     | 62     | 37.8 | 32.9 | 2.15 | 36.3 | 33.0 | 2.37 | 34.8 | 32.1 | 2.60 | 33.2 | 31.5 | 2.87 | 31.67 | 30.60 | 3.16 | 30.04 | 29.92 | 3.50 |
|       | 80     | 67     | 41.2 | 27.1 | 2.15 | 39.5 | 27.4 | 2.37 | 37.6 | 26.8 | 2.62 | 35.7 | 26.7 | 2.89 | 33.76 | 26.44 | 3.17 | 31.67 | 26.56 | 3.50 |
|       | 80     | 72     | 45.2 | 20.6 | 2.17 | 43.2 | 21.0 | 2.40 | 41.2 | 20.4 | 2.64 | 39.1 | 20.4 | 2.90 | 36.95 | 20.38 | 3.19 | 34.67 | 20.65 | 3.51 |
|       | 75     | 62     | 37.5 | 27.3 | 2.15 | 35.9 | 27.5 | 2.37 | 34.3 | 26.8 | 2.60 | 32.5 | 26.6 | 2.87 | 30.72 | 26.40 | 3.16 | 28.81 | 26.39 | 3.50 |

# COOLING EXPANDED RATINGS - LOOSE COIL (CONTINUED)

ESA1BE4M1SN42K with C7B(A,H)M03642(C,U)-B+TXV Kit

| 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. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C.  | K.W. | T.C.  | S.C.  | K.W. |
| 1225  | 80     | 62     | 43.0 | 33.1 | 2.53 | 41.5 | 32.9 | 2.77 | 39.6 | 33.0 | 3.05 | 37.8 | 32.4 | 3.36 | 35.86 | 34.03 | 3.71 | 33.77 | 32.04 | 4.10 |
|       | 80     | 67     | 47.1 | 27.4 | 2.54 | 45.2 | 27.2 | 2.79 | 43.3 | 27.5 | 3.07 | 41.3 | 27.0 | 3.38 | 39.10 | 26.61 | 3.73 | 36.83 | 24.74 | 4.13 |
|       | 80     | 72     | 51.6 | 21.2 | 2.58 | 49.6 | 21.1 | 2.82 | 47.5 | 21.5 | 3.10 | 45.2 | 21.1 | 3.41 | 42.81 | 20.81 | 3.77 | 40.30 | 21.37 | 4.16 |
|       | 75     | 62     | 42.9 | 27.8 | 2.53 | 41.3 | 27.6 | 2.76 | 39.5 | 27.7 | 3.05 | 37.6 | 27.2 | 3.36 | 35.65 | 25.20 | 3.71 | 33.59 | 27.00 | 4.10 |
| 1400  | 80     | 62     | 44.0 | 35.4 | 2.60 | 42.4 | 36.1 | 2.83 | 40.5 | 35.2 | 3.12 | 38.5 | 34.8 | 3.43 | 36.55 | 34.53 | 3.78 | 34.45 | 34.11 | 4.18 |
|       | 80     | 67     | 48.1 | 29.1 | 2.61 | 46.2 | 30.0 | 2.86 | 44.1 | 29.2 | 3.15 | 42.0 | 28.9 | 3.45 | 39.72 | 28.95 | 3.80 | 37.36 | 28.97 | 4.20 |
|       | 80     | 72     | 52.6 | 22.3 | 2.64 | 50.5 | 23.3 | 2.89 | 48.2 | 22.6 | 3.17 | 45.9 | 22.4 | 3.48 | 43.38 | 22.63 | 3.84 | 40.74 | 22.80 | 4.23 |
|       | 75     | 62     | 43.9 | 29.5 | 2.60 | 42.2 | 30.2 | 2.83 | 40.2 | 29.4 | 3.12 | 38.3 | 29.1 | 3.43 | 36.24 | 29.03 | 3.78 | 34.05 | 28.80 | 4.17 |
| 1575  | 80     | 62     | 44.9 | 37.9 | 2.67 | 43.1 | 38.1 | 2.91 | 41.2 | 37.2 | 3.19 | 39.2 | 36.7 | 3.50 | 37.27 | 36.01 | 3.85 | 35.39 | 35.24 | 4.25 |
|       | 80     | 67     | 48.8 | 31.2 | 2.69 | 46.8 | 31.6 | 2.93 | 44.7 | 30.8 | 3.21 | 42.5 | 30.7 | 3.52 | 40.20 | 30.55 | 3.87 | 37.76 | 30.72 | 4.27 |
|       | 80     | 72     | 53.3 | 23.8 | 2.71 | 51.1 | 24.4 | 2.95 | 48.8 | 23.7 | 3.24 | 46.3 | 23.7 | 3.55 | 43.76 | 23.63 | 3.91 | 41.12 | 23.95 | 4.30 |
|       | 75     | 62     | 44.6 | 31.6 | 2.66 | 42.8 | 31.9 | 2.90 | 40.8 | 31.1 | 3.18 | 38.8 | 30.9 | 3.50 | 36.72 | 30.46 | 3.85 | 34.47 | 30.48 | 4.24 |

ESA1BE4M1SN48K with C7B(A,H)M048(C,U)-C+TXV Kit

| 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. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C.  | K.W. | T.C.  | S.C.  | K.W. |
| 1400  | 80     | 62     | 48.1 | 37.3 | 2.77 | 46.2 | 37.0 | 3.07 | 44.2 | 37.2 | 3.39 | 42.1 | 36.5 | 3.75 | 39.87 | 38.15 | 4.16 | 37.61 | 35.99 | 4.60 |
|       | 80     | 67     | 52.3 | 30.8 | 2.81 | 50.3 | 30.6 | 3.10 | 48.1 | 30.9 | 3.41 | 45.8 | 30.3 | 3.78 | 43.45 | 29.85 | 4.18 | 40.99 | 27.77 | 4.64 |
|       | 80     | 72     | 57.5 | 23.9 | 2.84 | 55.1 | 23.8 | 3.12 | 52.7 | 24.3 | 3.44 | 50.1 | 23.8 | 3.81 | 47.38 | 23.48 | 4.21 | 44.45 | 24.10 | 4.66 |
|       | 75     | 62     | 47.9 | 31.3 | 2.77 | 45.9 | 31.0 | 3.06 | 44.0 | 31.2 | 3.38 | 41.9 | 30.5 | 3.75 | 39.63 | 28.24 | 4.16 | 37.33 | 30.24 | 4.60 |
| 1600  | 80     | 62     | 49.1 | 39.9 | 2.86 | 47.1 | 40.6 | 3.15 | 45.0 | 39.6 | 3.47 | 42.9 | 39.1 | 3.83 | 40.67 | 38.73 | 4.24 | 38.45 | 38.13 | 4.69 |
|       | 80     | 67     | 53.4 | 32.7 | 2.89 | 51.2 | 33.6 | 3.17 | 49.0 | 32.8 | 3.49 | 46.6 | 32.4 | 3.86 | 44.16 | 32.43 | 4.26 | 41.59 | 32.44 | 4.72 |
|       | 80     | 72     | 58.4 | 25.2 | 2.92 | 55.9 | 26.3 | 3.20 | 53.1 | 25.5 | 3.53 | 50.5 | 25.3 | 3.88 | 47.84 | 25.41 | 4.29 | 45.09 | 25.56 | 4.74 |
|       | 75     | 62     | 48.8 | 33.2 | 2.85 | 46.9 | 33.9 | 3.14 | 44.8 | 33.0 | 3.46 | 42.6 | 32.6 | 3.83 | 40.28 | 32.51 | 4.24 | 37.87 | 32.38 | 4.68 |
| 1800  | 80     | 62     | 49.9 | 42.7 | 2.94 | 47.9 | 42.8 | 3.23 | 45.8 | 41.7 | 3.55 | 43.7 | 41.1 | 3.91 | 41.56 | 40.15 | 4.32 | 39.48 | 39.31 | 4.77 |
|       | 80     | 67     | 54.2 | 35.0 | 2.97 | 52.0 | 35.4 | 3.25 | 49.7 | 34.6 | 3.57 | 47.2 | 34.4 | 3.94 | 44.67 | 34.18 | 4.34 | 42.00 | 34.34 | 4.80 |
|       | 80     | 72     | 58.8 | 26.9 | 3.00 | 56.4 | 27.4 | 3.28 | 53.8 | 26.6 | 3.59 | 51.2 | 26.6 | 3.96 | 48.40 | 26.45 | 4.37 | 45.55 | 26.76 | 4.82 |
|       | 75     | 62     | 49.6 | 35.5 | 2.94 | 47.6 | 35.7 | 3.23 | 45.4 | 34.8 | 3.54 | 43.1 | 34.6 | 3.91 | 40.76 | 34.07 | 4.32 | 38.30 | 34.07 | 4.76 |

ESA1BE4M1SN60K with C7B(A,H)M060(C,U)-C+TXV Kit

| 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. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C.  | K.W. | T.C.  | S.C.  | K.W. |
| 1750  | 80     | 62     | 60.6 | 46.3 | 3.54 | 58.4 | 45.6 | 3.90 | 56.1 | 45.9 | 4.31 | 53.7 | 45.2 | 4.76 | 51.10 | 47.35 | 5.29 | 48.37 | 44.82 | 5.89 |
|       | 80     | 67     | 66.0 | 38.3 | 3.59 | 63.6 | 38.0 | 3.96 | 61.0 | 38.5 | 4.36 | 58.4 | 37.8 | 4.82 | 55.56 | 37.26 | 5.35 | 52.57 | 34.81 | 5.95 |
|       | 80     | 72     | 72.5 | 29.9 | 3.65 | 69.8 | 29.8 | 4.03 | 66.9 | 30.4 | 4.43 | 63.8 | 29.9 | 4.89 | 60.47 | 29.54 | 5.41 | 56.92 | 30.37 | 6.01 |
|       | 75     | 62     | 60.3 | 38.8 | 3.54 | 58.1 | 38.5 | 3.90 | 55.8 | 38.8 | 4.30 | 53.3 | 38.0 | 4.76 | 50.80 | 35.41 | 5.29 | 48.02 | 37.85 | 5.89 |
| 2000  | 80     | 62     | 62.0 | 49.1 | 3.65 | 59.7 | 50.0 | 4.01 | 57.3 | 48.9 | 4.41 | 54.8 | 48.4 | 4.87 | 52.13 | 48.19 | 5.40 | 49.29 | 47.81 | 6.00 |
|       | 80     | 67     | 67.4 | 40.5 | 3.70 | 65.0 | 41.8 | 4.07 | 62.2 | 40.7 | 4.47 | 59.4 | 40.4 | 4.93 | 56.51 | 40.44 | 5.45 | 53.42 | 40.51 | 6.05 |
|       | 80     | 72     | 73.7 | 31.4 | 3.75 | 70.6 | 32.9 | 4.13 | 67.4 | 31.9 | 4.54 | 64.4 | 31.7 | 4.99 | 61.21 | 31.94 | 5.51 | 57.88 | 32.19 | 6.12 |
|       | 75     | 62     | 61.6 | 41.1 | 3.64 | 59.4 | 42.1 | 4.01 | 56.9 | 41.1 | 4.41 | 54.4 | 40.6 | 4.87 | 51.65 | 40.57 | 5.40 | 48.82 | 40.49 | 5.99 |
| 2250  | 80     | 62     | 63.1 | 52.6 | 3.75 | 60.8 | 52.9 | 4.12 | 58.2 | 51.6 | 4.52 | 55.7 | 51.2 | 4.98 | 52.99 | 50.41 | 5.51 | 50.14 | 49.93 | 6.10 |
|       | 80     | 67     | 68.6 | 43.4 | 3.81 | 65.9 | 43.9 | 4.17 | 63.2 | 42.9 | 4.58 | 60.3 | 42.8 | 5.03 | 57.25 | 42.58 | 5.55 | 54.05 | 42.86 | 6.16 |
|       | 80     | 72     | 74.4 | 33.5 | 3.86 | 71.4 | 34.2 | 4.24 | 68.4 | 33.2 | 4.65 | 65.3 | 33.3 | 5.10 | 61.96 | 33.19 | 5.62 | 58.52 | 33.68 | 6.23 |
|       | 75     | 62     | 62.7 | 43.9 | 3.75 | 60.3 | 44.3 | 4.11 | 57.8 | 43.2 | 4.51 | 55.2 | 43.1 | 4.97 | 52.39 | 42.71 | 5.50 | 49.39 | 42.45 | 6.09 |

# COOLING EXPANDED RATINGS - AIR HANDLER

ESA1BE4M1SN18K with B6BMMX24K-A

| 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. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C.  | K.W. | T.C.  | S.C.  | K.W. |
| 525   | 80     | 62     | 19.4 | 15.6 | 1.05 | 18.5 | 15.5 | 1.19 | 17.7 | 15.6 | 1.33 | 16.7 | 15.3 | 1.48 | 15.78 | 15.51 | 1.65 | 14.82 | 14.57 | 1.85 |
|       | 80     | 67     | 21.2 | 12.7 | 1.05 | 20.2 | 12.6 | 1.19 | 19.3 | 12.7 | 1.33 | 18.2 | 12.5 | 1.49 | 17.04 | 12.24 | 1.67 | 15.89 | 11.54 | 1.86 |
|       | 80     | 72     | 23.2 | 9.7  | 1.05 | 22.2 | 9.6  | 1.19 | 21.1 | 9.8  | 1.34 | 19.8 | 9.5  | 1.51 | 18.61 | 9.37  | 1.68 | 17.36 | 9.57  | 1.87 |
|       | 75     | 62     | 19.3 | 12.9 | 1.05 | 18.5 | 12.8 | 1.19 | 17.6 | 12.9 | 1.33 | 16.6 | 12.6 | 1.48 | 15.63 | 11.44 | 1.65 | 14.47 | 12.38 | 1.85 |
| 600   | 80     | 62     | 19.9 | 17.0 | 1.08 | 19.0 | 17.3 | 1.21 | 18.1 | 16.9 | 1.35 | 17.3 | 16.3 | 1.51 | 16.36 | 15.80 | 1.68 | 15.38 | 15.25 | 1.88 |
|       | 80     | 67     | 21.6 | 13.7 | 1.07 | 20.7 | 14.1 | 1.22 | 19.6 | 13.7 | 1.36 | 18.5 | 13.5 | 1.52 | 17.31 | 13.50 | 1.70 | 16.12 | 13.46 | 1.89 |
|       | 80     | 72     | 23.7 | 10.3 | 1.07 | 22.6 | 10.7 | 1.22 | 21.4 | 10.4 | 1.37 | 20.1 | 10.2 | 1.54 | 18.90 | 10.28 | 1.71 | 17.60 | 10.31 | 1.90 |
|       | 75     | 62     | 19.8 | 13.9 | 1.08 | 18.9 | 14.2 | 1.21 | 17.9 | 13.8 | 1.35 | 16.9 | 13.7 | 1.51 | 15.89 | 13.58 | 1.68 | 14.71 | 13.46 | 1.88 |
| 675   | 80     | 62     | 20.5 | 18.6 | 1.10 | 19.7 | 18.3 | 1.24 | 18.8 | 17.5 | 1.38 | 17.9 | 16.9 | 1.54 | 16.83 | 16.26 | 1.72 | 15.84 | 15.77 | 1.91 |
|       | 80     | 67     | 22.1 | 14.9 | 1.10 | 21.0 | 15.0 | 1.24 | 19.9 | 14.7 | 1.39 | 18.8 | 14.6 | 1.55 | 17.51 | 14.43 | 1.73 | 16.30 | 14.45 | 1.91 |
|       | 80     | 72     | 24.1 | 11.1 | 1.10 | 22.9 | 11.3 | 1.25 | 21.7 | 11.0 | 1.40 | 20.4 | 10.9 | 1.57 | 19.09 | 10.86 | 1.74 | 17.76 | 10.95 | 1.93 |
|       | 75     | 62     | 20.3 | 15.2 | 1.10 | 19.3 | 15.3 | 1.24 | 18.3 | 14.9 | 1.38 | 17.3 | 14.8 | 1.53 | 16.18 | 14.62 | 1.71 | 14.98 | 14.55 | 1.91 |

ESA1BE4M1SN24K with B6BMMX24K-A

| 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. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C.  | K.W. | T.C.  | S.C.  | K.W. |
| 700   | 80     | 62     | 25.5 | 20.7 | 1.36 | 24.5 | 20.5 | 1.53 | 23.4 | 20.6 | 1.70 | 22.3 | 20.2 | 1.90 | 21.07 | 20.72 | 2.12 | 19.94 | 19.60 | 2.38 |
|       | 80     | 67     | 27.8 | 16.8 | 1.36 | 26.6 | 16.6 | 1.54 | 25.4 | 16.8 | 1.72 | 24.1 | 16.5 | 1.91 | 22.66 | 16.32 | 2.15 | 21.30 | 15.46 | 2.39 |
|       | 80     | 72     | 30.4 | 12.8 | 1.37 | 29.1 | 12.7 | 1.55 | 27.8 | 13.0 | 1.74 | 26.3 | 12.7 | 1.95 | 24.83 | 12.49 | 2.17 | 23.35 | 12.82 | 2.42 |
|       | 75     | 62     | 25.4 | 17.0 | 1.36 | 24.4 | 17.0 | 1.53 | 23.2 | 17.1 | 1.70 | 22.1 | 16.7 | 1.90 | 20.84 | 15.37 | 2.12 | 19.48 | 16.53 | 2.38 |
| 800   | 80     | 62     | 26.2 | 22.4 | 1.39 | 25.1 | 22.8 | 1.56 | 24.0 | 22.3 | 1.74 | 23.0 | 21.7 | 1.93 | 21.85 | 21.11 | 2.16 | 20.66 | 20.49 | 2.42 |
|       | 80     | 67     | 28.3 | 18.0 | 1.40 | 27.1 | 18.6 | 1.57 | 25.8 | 18.1 | 1.75 | 24.5 | 18.0 | 1.95 | 23.06 | 17.91 | 2.18 | 21.64 | 17.90 | 2.43 |
|       | 80     | 72     | 31.0 | 13.6 | 1.41 | 29.7 | 14.2 | 1.59 | 28.2 | 13.7 | 1.77 | 26.7 | 13.6 | 1.99 | 25.19 | 13.70 | 2.21 | 23.63 | 13.80 | 2.45 |
|       | 75     | 62     | 25.9 | 18.4 | 1.39 | 24.8 | 18.8 | 1.56 | 23.7 | 18.3 | 1.73 | 22.5 | 18.1 | 1.93 | 21.23 | 18.02 | 2.15 | 19.83 | 17.91 | 2.41 |
| 900   | 80     | 62     | 26.8 | 24.3 | 1.42 | 25.8 | 24.1 | 1.59 | 24.8 | 23.1 | 1.77 | 23.7 | 22.5 | 1.97 | 22.46 | 21.70 | 2.21 | 21.26 | 21.17 | 2.45 |
|       | 80     | 67     | 28.8 | 19.6 | 1.43 | 27.5 | 19.8 | 1.60 | 26.2 | 19.3 | 1.78 | 24.8 | 19.3 | 1.98 | 23.35 | 19.09 | 2.21 | 21.91 | 19.16 | 2.46 |
|       | 80     | 72     | 31.5 | 14.7 | 1.44 | 30.1 | 15.0 | 1.61 | 28.6 | 14.5 | 1.81 | 27.0 | 14.5 | 2.02 | 25.41 | 14.47 | 2.24 | 23.81 | 14.67 | 2.48 |
|       | 75     | 62     | 26.4 | 19.9 | 1.42 | 25.3 | 20.0 | 1.59 | 24.1 | 19.5 | 1.76 | 22.8 | 19.4 | 1.96 | 21.53 | 19.20 | 2.18 | 20.10 | 19.16 | 2.44 |

ESA1BE4M1SN30K with B6BMMX30K-A

| 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. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C.  | K.W. | T.C.  | S.C.  | K.W. |
| 875   | 80     | 62     | 32.3 | 25.9 | 1.74 | 31.0 | 25.7 | 1.94 | 29.5 | 25.8 | 2.15 | 28.0 | 25.3 | 2.39 | 26.48 | 26.03 | 2.67 | 24.94 | 24.52 | 2.99 |
|       | 80     | 67     | 34.9 | 20.9 | 1.76 | 33.3 | 20.8 | 1.96 | 31.8 | 21.0 | 2.17 | 30.1 | 20.6 | 2.41 | 28.40 | 20.29 | 2.68 | 26.53 | 19.28 | 3.01 |
|       | 80     | 72     | 37.6 | 15.9 | 1.78 | 36.0 | 15.8 | 1.98 | 34.3 | 16.1 | 2.19 | 32.5 | 15.7 | 2.44 | 30.63 | 15.46 | 2.71 | 28.60 | 15.79 | 3.03 |
|       | 75     | 62     | 32.2 | 21.5 | 1.74 | 30.8 | 21.2 | 1.93 | 29.4 | 21.4 | 2.15 | 27.9 | 20.9 | 2.39 | 26.24 | 19.18 | 2.67 | 24.49 | 20.67 | 2.99 |
| 1000  | 80     | 62     | 33.0 | 28.0 | 1.79 | 31.5 | 28.4 | 1.99 | 30.1 | 27.8 | 2.20 | 28.7 | 27.1 | 2.44 | 27.29 | 26.37 | 2.72 | 25.73 | 25.51 | 3.04 |
|       | 80     | 67     | 35.5 | 22.5 | 1.81 | 33.9 | 23.1 | 2.01 | 32.2 | 22.5 | 2.22 | 30.5 | 22.3 | 2.46 | 28.75 | 22.27 | 2.74 | 26.82 | 22.22 | 3.06 |
|       | 80     | 72     | 38.2 | 16.8 | 1.83 | 36.5 | 17.5 | 2.03 | 34.7 | 17.0 | 2.25 | 32.9 | 16.8 | 2.49 | 30.95 | 16.88 | 2.77 | 28.87 | 16.94 | 3.09 |
|       | 75     | 62     | 32.8 | 23.0 | 1.79 | 31.3 | 23.5 | 1.99 | 29.9 | 22.9 | 2.20 | 28.3 | 22.6 | 2.44 | 26.61 | 22.50 | 2.71 | 24.81 | 22.36 | 3.04 |
| 1125  | 80     | 62     | 33.6 | 30.2 | 1.84 | 32.2 | 30.0 | 2.04 | 30.9 | 28.8 | 2.25 | 29.5 | 28.0 | 2.50 | 27.98 | 27.04 | 2.77 | 26.35 | 26.24 | 3.10 |
|       | 80     | 67     | 35.9 | 24.3 | 1.86 | 34.2 | 24.6 | 2.06 | 32.6 | 24.0 | 2.27 | 30.8 | 23.9 | 2.51 | 29.00 | 23.72 | 2.79 | 27.04 | 23.77 | 3.11 |
|       | 80     | 72     | 38.6 | 18.1 | 1.88 | 36.8 | 18.4 | 2.08 | 35.0 | 17.8 | 2.30 | 33.1 | 17.8 | 2.54 | 31.17 | 17.77 | 2.82 | 29.05 | 17.95 | 3.14 |
|       | 75     | 62     | 33.2 | 24.8 | 1.84 | 31.7 | 24.9 | 2.04 | 30.2 | 24.3 | 2.25 | 28.6 | 24.2 | 2.49 | 26.89 | 23.93 | 2.76 | 25.07 | 23.87 | 3.09 |

ESA1BE4M1SN36K with B6BMMX36K-B

| 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. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C.  | K.W. | T.C.  | S.C.  | K.W. |
| 1050  | 80     | 62     | 37.0 | 30.5 | 2.06 | 35.5 | 30.3 | 2.29 | 34.0 | 30.4 | 2.54 | 32.3 | 29.9 | 2.81 | 30.63 | 30.12 | 3.14 | 29.07 | 28.58 | 3.49 |
|       | 80     | 67     | 40.3 | 24.8 | 2.07 | 38.6 | 24.6 | 2.30 | 36.8 | 24.8 | 2.55 | 34.9 | 24.4 | 2.83 | 32.98 | 24.05 | 3.14 | 30.96 | 22.88 | 3.50 |
|       | 80     | 72     | 43.9 | 18.8 | 2.08 | 42.0 | 18.7 | 2.32 | 40.0 | 19.0 | 2.58 | 38.0 | 18.6 | 2.86 | 35.92 | 18.37 | 3.15 | 33.74 | 18.83 | 3.50 |
|       | 75     | 62     | 36.9 | 25.2 | 2.06 | 35.3 | 25.0 | 2.29 | 33.7 | 25.1 | 2.54 | 32.0 | 24.6 | 2.81 | 30.16 | 22.72 | 3.14 | 28.29 | 24.42 | 3.49 |
| 1200  | 80     | 62     | 37.9 | 33.0 | 2.11 | 36.4 | 33.5 | 2.34 | 34.9 | 32.5 | 2.59 | 33.3 | 31.5 | 2.88 | 31.75 | 30.67 | 3.18 | 30.08 | 29.82 | 3.54 |
|       | 80     | 67     | 41.0 | 26.6 | 2.12 | 39.3 | 27.4 | 2.35 | 37.4 | 26.7 | 2.60 | 35.4 | 26.4 | 2.88 | 33.47 | 26.48 | 3.19 | 31.39 | 26.48 | 3.55 |
|       | 80     | 72     | 44.7 | 19.9 | 2.13 | 42.7 | 20.8 | 2.37 | 40.7 | 20.2 | 2.63 | 38.6 | 20.0 | 2.90 | 36.44 | 20.14 | 3.21 | 34.19 | 20.28 | 3.55 |
|       | 75     | 62     | 37.6 | 27.1 | 2.11 | 36.0 | 27.6 | 2.34 | 34.3 | 27.0 | 2.58 | 32.5 | 26.6 | 2.87 | 30.66 | 26.57 | 3.18 | 28.74 | 26.47 | 3.54 |
| 1350  | 80     | 62     | 38.8 | 35.3 | 2.16 | 37.4 | 34.9 | 2.39 | 35.9 | 33.5 | 2.64 | 34.3 | 32.6 | 2.93 | 32.65 | 31.54 | 3.23 | 30.90 | 30.77 | 3.59 |
|       | 80     | 67     | 41.6 | 28.9 | 2.17 | 39.8 | 29.2 | 2.40 | 37.8 | 28.5 | 2.66 | 35.9 | 28.4 | 2.93 | 33.84 | 28.25 | 3.24 | 31.73 | 28.37 | 3.59 |
|       | 80     | 72     | 45.3 | 21.5 | 2.18 | 43.2 | 21.9 | 2.43 | 41.1 | 21.3 | 2.68 | 38.9 | 21.3 | 2.96 | 36.74 | 21.26 | 3.26 | 34.44 | 21.55 | 3.60 |
|       | 75     | 62     | 38.2 | 29.2 | 2.16 | 36.5 | 29.5 | 2.39 | 34.8 | 28.8 | 2.64 | 32.9 | 28.6 | 2.92 | 31.05 | 28.30 | 3.23 | 29.11 | 28.28 | 3.59 |

# COOLING EXPANDED RATINGS - AIR HANDLER (CONTINUED)

ESA1BE4M1SN42K with B6BMMX42K-B

| 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. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C.  | K.W. | T.C.  | S.C.  | K.W. |
| 1225  | 80     | 62     | 42.9 | 35.3 | 2.48 | 41.3 | 35.0 | 2.71 | 39.3 | 35.1 | 2.99 | 37.4 | 34.5 | 3.29 | 35.50 | 34.90 | 3.64 | 33.65 | 33.08 | 4.03 |
|       | 80     | 67     | 46.7 | 28.7 | 2.50 | 44.7 | 28.5 | 2.74 | 42.6 | 28.8 | 3.01 | 40.3 | 28.2 | 3.31 | 38.05 | 27.84 | 3.65 | 35.72 | 26.54 | 4.04 |
|       | 80     | 72     | 50.9 | 21.7 | 2.52 | 48.7 | 21.6 | 2.76 | 46.5 | 22.0 | 3.03 | 44.0 | 21.6 | 3.34 | 41.61 | 21.25 | 3.68 | 39.02 | 21.76 | 4.07 |
|       | 75     | 62     | 42.7 | 29.2 | 2.48 | 40.9 | 28.9 | 2.71 | 38.9 | 29.1 | 2.98 | 36.9 | 28.5 | 3.29 | 34.84 | 26.23 | 3.64 | 32.66 | 28.17 | 4.02 |
| 1400  | 80     | 62     | 44.0 | 38.2 | 2.55 | 42.2 | 38.8 | 2.78 | 40.4 | 37.7 | 3.06 | 38.6 | 36.5 | 3.37 | 36.76 | 35.52 | 3.71 | 34.80 | 34.50 | 4.10 |
|       | 80     | 67     | 47.5 | 30.9 | 2.56 | 45.3 | 31.7 | 2.81 | 43.3 | 30.9 | 3.08 | 41.0 | 30.6 | 3.38 | 38.67 | 30.58 | 3.72 | 36.20 | 30.53 | 4.11 |
|       | 80     | 72     | 51.8 | 23.1 | 2.59 | 49.6 | 24.1 | 2.82 | 47.2 | 23.4 | 3.10 | 44.7 | 23.2 | 3.41 | 42.14 | 23.29 | 3.75 | 39.43 | 23.42 | 4.13 |
|       | 75     | 62     | 43.5 | 31.3 | 2.54 | 41.7 | 32.0 | 2.78 | 39.6 | 31.2 | 3.06 | 37.6 | 30.8 | 3.36 | 35.41 | 30.65 | 3.70 | 33.17 | 30.51 | 4.09 |
| 1575  | 80     | 62     | 45.1 | 41.0 | 2.62 | 43.4 | 40.5 | 2.85 | 41.6 | 38.8 | 3.14 | 39.8 | 37.8 | 3.44 | 37.80 | 36.52 | 3.78 | 35.72 | 35.57 | 4.17 |
|       | 80     | 67     | 48.2 | 33.5 | 2.63 | 46.0 | 33.8 | 2.88 | 43.8 | 33.0 | 3.14 | 41.5 | 32.8 | 3.45 | 39.11 | 32.59 | 3.79 | 36.62 | 32.69 | 4.18 |
|       | 80     | 72     | 52.5 | 24.9 | 2.66 | 50.2 | 25.4 | 2.89 | 47.7 | 24.7 | 3.17 | 45.1 | 24.7 | 3.48 | 42.50 | 24.59 | 3.82 | 39.73 | 24.89 | 4.20 |
|       | 75     | 62     | 44.2 | 33.8 | 2.61 | 42.3 | 34.1 | 2.85 | 40.2 | 33.2 | 3.12 | 38.1 | 33.0 | 3.43 | 35.86 | 32.63 | 3.77 | 33.65 | 32.60 | 4.16 |

ESA1BE4M1SN48K with B6BMMX48K-C

| 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. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C.  | K.W. | T.C.  | S.C.  | K.W. |
| 1400  | 80     | 62     | 47.6 | 38.2 | 2.72 | 45.7 | 37.9 | 3.01 | 43.8 | 38.1 | 3.31 | 41.8 | 37.4 | 3.67 | 39.76 | 39.03 | 4.06 | 37.62 | 36.93 | 4.49 |
|       | 80     | 67     | 51.6 | 31.0 | 2.76 | 49.6 | 30.8 | 3.03 | 47.4 | 31.1 | 3.34 | 45.2 | 30.5 | 3.69 | 42.81 | 30.06 | 4.08 | 40.38 | 28.39 | 4.52 |
|       | 80     | 72     | 57.0 | 23.9 | 2.79 | 54.8 | 23.8 | 3.06 | 52.3 | 24.3 | 3.37 | 49.8 | 23.8 | 3.72 | 47.11 | 23.53 | 4.11 | 44.31 | 24.17 | 4.55 |
|       | 75     | 62     | 47.1 | 31.4 | 2.72 | 45.2 | 31.1 | 3.00 | 43.2 | 31.3 | 3.31 | 41.2 | 31.0 | 3.66 | 39.07 | 28.73 | 4.06 | 36.82 | 30.75 | 4.49 |
| 1600  | 80     | 62     | 48.8 | 41.2 | 2.80 | 46.9 | 41.8 | 3.08 | 45.0 | 40.9 | 3.39 | 42.9 | 40.4 | 3.74 | 41.09 | 39.70 | 4.14 | 39.06 | 38.73 | 4.58 |
|       | 80     | 67     | 52.8 | 33.1 | 2.83 | 50.7 | 34.0 | 3.10 | 48.5 | 33.2 | 3.41 | 46.0 | 32.8 | 3.76 | 43.61 | 33.20 | 4.15 | 41.09 | 33.21 | 4.59 |
|       | 80     | 72     | 58.2 | 25.3 | 2.86 | 55.7 | 26.5 | 3.13 | 53.1 | 25.7 | 3.44 | 50.4 | 25.5 | 3.79 | 47.43 | 25.68 | 4.18 | 44.63 | 25.81 | 4.61 |
|       | 75     | 62     | 48.1 | 33.9 | 2.79 | 46.2 | 34.6 | 3.07 | 44.2 | 33.8 | 3.38 | 42.0 | 33.4 | 3.73 | 39.78 | 33.25 | 4.13 | 37.50 | 33.14 | 4.56 |
| 1800  | 80     | 62     | 49.9 | 44.4 | 2.87 | 48.0 | 44.5 | 3.15 | 46.3 | 43.1 | 3.46 | 44.4 | 42.1 | 3.82 | 42.32 | 40.89 | 4.21 | 40.18 | 40.01 | 4.65 |
|       | 80     | 67     | 53.7 | 35.7 | 2.90 | 51.5 | 36.1 | 3.17 | 49.2 | 35.6 | 3.48 | 46.7 | 35.5 | 3.83 | 44.23 | 35.24 | 4.22 | 41.64 | 35.41 | 4.66 |
|       | 80     | 72     | 58.9 | 27.2 | 2.93 | 56.1 | 27.8 | 3.20 | 53.4 | 27.0 | 3.51 | 50.8 | 27.0 | 3.86 | 48.03 | 26.85 | 4.25 | 45.17 | 27.16 | 4.68 |
|       | 75     | 62     | 49.0 | 36.5 | 2.86 | 47.0 | 36.7 | 3.14 | 44.9 | 35.8 | 3.45 | 42.7 | 35.6 | 3.80 | 40.41 | 35.27 | 4.20 | 38.04 | 35.27 | 4.63 |

ESA1BE4M1SN60K with B6BMMX60K-C

| 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. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C.  | S.C.  | K.W. | T.C.  | S.C.  | K.W. |
| 1500  | 80     | 62     | 60.0 | 46.4 | 3.45 | 57.7 | 46.0 | 3.83 | 55.3 | 46.3 | 4.26 | 52.8 | 45.5 | 4.75 | 50.18 | 47.93 | 5.30 | 47.44 | 45.31 | 5.94 |
|       | 80     | 67     | 65.2 | 37.9 | 3.50 | 62.6 | 37.6 | 3.89 | 60.1 | 38.2 | 4.32 | 57.3 | 37.6 | 4.80 | 54.33 | 37.09 | 5.36 | 51.31 | 34.87 | 5.98 |
|       | 80     | 72     | 71.1 | 29.3 | 3.57 | 68.2 | 29.1 | 3.96 | 65.4 | 29.7 | 4.39 | 62.3 | 29.1 | 4.87 | 59.25 | 28.78 | 5.42 | 55.95 | 29.60 | 6.06 |
|       | 75     | 62     | 59.8 | 38.7 | 3.45 | 57.5 | 38.4 | 3.83 | 55.0 | 38.7 | 4.26 | 52.4 | 38.0 | 4.74 | 49.76 | 35.34 | 5.30 | 46.96 | 37.86 | 5.93 |
| 1650  | 80     | 62     | 61.1 | 49.0 | 3.51 | 58.8 | 50.0 | 3.89 | 56.3 | 48.9 | 4.31 | 53.7 | 48.4 | 4.80 | 51.08 | 48.33 | 5.36 | 48.46 | 48.00 | 5.99 |
|       | 80     | 67     | 66.3 | 40.0 | 3.56 | 63.6 | 41.2 | 3.95 | 60.9 | 40.2 | 4.37 | 58.0 | 39.8 | 4.85 | 55.04 | 39.97 | 5.41 | 51.86 | 40.08 | 6.03 |
|       | 80     | 72     | 72.3 | 30.4 | 3.63 | 69.3 | 31.9 | 4.01 | 66.3 | 30.9 | 4.44 | 63.2 | 30.7 | 4.92 | 59.95 | 30.98 | 5.47 | 56.52 | 31.28 | 6.11 |
|       | 75     | 62     | 60.8 | 40.7 | 3.50 | 58.4 | 41.7 | 3.88 | 55.8 | 40.7 | 4.31 | 53.2 | 40.2 | 4.80 | 50.51 | 40.21 | 5.35 | 47.62 | 40.15 | 5.98 |
| 1800  | 80     | 62     | 62.2 | 52.2 | 3.56 | 59.7 | 52.5 | 3.94 | 57.2 | 51.4 | 4.37 | 54.6 | 51.1 | 4.85 | 52.13 | 50.36 | 5.41 | 49.60 | 49.39 | 6.05 |
|       | 80     | 67     | 67.2 | 42.6 | 3.61 | 64.4 | 43.1 | 3.99 | 61.6 | 42.1 | 4.42 | 58.6 | 42.0 | 4.90 | 55.56 | 41.84 | 5.46 | 52.37 | 42.14 | 6.09 |
|       | 80     | 72     | 73.2 | 32.3 | 3.67 | 70.2 | 33.0 | 4.07 | 67.1 | 32.1 | 4.50 | 63.8 | 32.2 | 4.98 | 60.50 | 32.16 | 5.52 | 57.02 | 32.71 | 6.16 |
|       | 75     | 62     | 61.6 | 43.2 | 3.55 | 59.2 | 43.6 | 3.94 | 56.6 | 42.5 | 4.36 | 53.9 | 42.4 | 4.85 | 51.12 | 42.06 | 5.40 | 48.17 | 42.19 | 6.03 |





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