



**SMK** series

We Trust On Quality More Than Quantity

**FRIGAIR**

# 'FRIGAIR' Unit Cooler- SMK Series

4 Fin/ Inch.

Evaporating Temperature: @-25°C Et.ΔT<sub>1</sub> 7°C - Freezer Electric Defrost

| MODEL      | CAPACITY<br>(BTU/HR) | NO. FAN |           |        | MOTOR SIZE |       | AIR THROW<br>(FT) | ELECTRIC<br>HEATER<br>(WATTS) | VOLTAGE<br>(V) |
|------------|----------------------|---------|-----------|--------|------------|-------|-------------------|-------------------------------|----------------|
|            |                      | NO.     | DIA (INS) | M3/HR  | WATTS      | RPM   |                   |                               |                |
| SMK 45 - L | 5,100                | 1       | 14        | 2,500  | 130        | 1,400 | 55                | 1,665                         | 240            |
| SMK 65 - L | 7,400                | 1       | 14        | 2,800  | 130        | 1,400 | 55                | 2,355                         | 240            |
| SMK 85 - L | 9,700                | 1       | 14        | 3,200  | 130        | 1,400 | 50                | 2,725                         | 240            |
| SMK 120- L | 12,400               | 1       | 14        | 3,200  | 130        | 1,400 | 50                | 3,775                         | 240            |
| SMK 160- L | 17,600               | 2       | 14        | 6,200  | 130        | 1,400 | 70                | 3,775                         | 240            |
| SMK 180- L | 20,600               | 2       | 14        | 6,700  | 130        | 1,400 | 70                | 4,280                         | 240            |
| SMK 240- L | 27,500               | 3       | 14        | 8,000  | 130        | 1,400 | 78                | 5,965                         | 240            |
| SMK 300- L | 33,000               | 3       | 14        | 8,000  | 130        | 1,400 | 78                | 5,965                         | 240            |
| SMK 360- L | 38,600               | 3       | 14        | 10,800 | 130        | 1,400 | 78                | 8,865                         | 240            |
| SMK 400- L | 46,300               | 4       | 14        | 10,908 | 130        | 1,400 | 78                | 8,865                         | 240            |

Evaporating Temperature: @-5°C Et.ΔT<sub>1</sub> 8°C - Chiller Air Defrost

| MODEL      | CAPACITY<br>(BTU/HR) | NO. FAN |           |        | MOTOR SIZE |       | AIR THROW<br>(FT) | VOLTAGE<br>(V) | TXV CONN.<br>INLET X ONTLET<br>(INS) | DRY<br>WTG<br>(KG) |
|------------|----------------------|---------|-----------|--------|------------|-------|-------------------|----------------|--------------------------------------|--------------------|
|            |                      | NO.     | DIA (INS) | M3/HR  | WATTS      | RPM   |                   |                |                                      |                    |
| SMK 45 - H | 6,500                | 1       | 14        | 2,500  | 130        | 1,400 | 55                | 240            | 1/2 x 3/4                            | 33                 |
| SMK 65 - H | 9,500                | 1       | 14        | 2,800  | 130        | 1,400 | 55                | 240            | 1/2 x 3/4                            | 33                 |
| SMK 85 - H | 12,500               | 1       | 14        | 3,200  | 130        | 1,400 | 50                | 240            | 1/2 x 3/4                            | 41                 |
| SMK 120- H | 15,880               | 1       | 14        | 3,200  | 130        | 1,400 | 50                | 240            | 1/2 x 1.1/8                          | 46                 |
| SMK 160- H | 22,500               | 2       | 14        | 6,200  | 130        | 1,400 | 70                | 240            | 1/2 x 1.1/8                          | 58                 |
| SMK 180- H | 26,500               | 2       | 14        | 6,700  | 130        | 1,400 | 70                | 240            | 5/8 x 1.1/8                          | 66                 |
| SMK 240- H | 35,500               | 3       | 14        | 8,000  | 130        | 1,400 | 70                | 240            | 5/8 x 1.5/8                          | 84                 |
| SMK 300- H | 42,500               | 3       | 14        | 8,000  | 130        | 1,400 | 78                | 240            | 5/8 x 1.5/8                          | 97                 |
| SMK 360- H | 49,500               | 3       | 14        | 10,800 | 130        | 1,400 | 70                | 240            | 5/8 x 1.5/8                          | 112                |
| SMK 400- H | 59,500               | 4       | 14        | 10,908 | 130        | 1,400 | 68                | 240            | 5/8 x 1.5/8                          | 112                |

## CAPACITY SMK/ 4 FIN/ INCH

### CAPACITY CORRECTION FACTORS

EVAPORATING TEMPERATURE °C

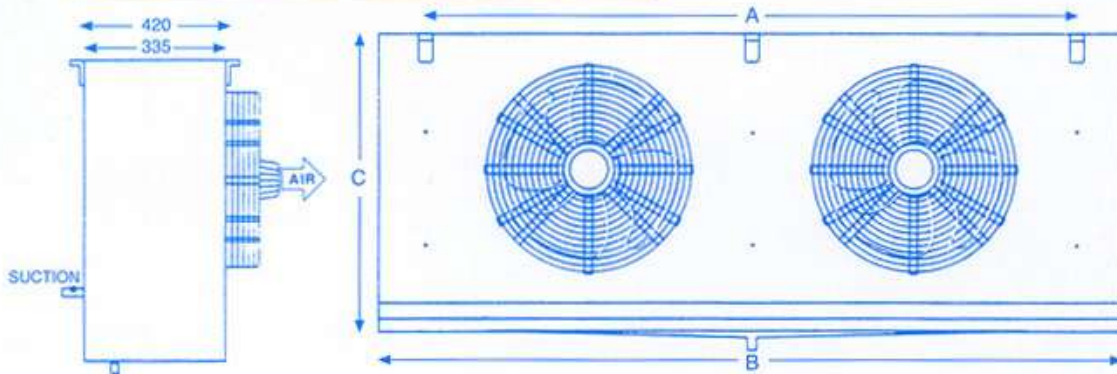
| ΔT <sub>1</sub> °C | -35  | -30  | -25  | -20  | -15  | -10  | -5   | 0    | 5    |
|--------------------|------|------|------|------|------|------|------|------|------|
| 5                  | 0.66 | 0.69 | 0.71 | 0.73 | 0.76 | 0.78 | 0.80 | 0.82 | 0.84 |
| 6                  | 0.79 | 0.83 | 0.86 | 0.88 | 0.91 | 0.94 | 0.96 | 0.98 | 1.00 |
| 7                  | 0.92 | 0.97 | 1.00 | 1.03 | 1.06 | 1.10 | 1.12 | 1.15 | 1.17 |
| 8                  | 1.05 | 1.11 | 1.14 | 1.18 | 1.21 | 1.26 | 1.28 | 1.31 | 1.34 |
| 9                  | 1.18 | 1.25 | 1.29 | 1.32 | 1.36 | 1.41 | 1.44 | 1.48 | 1.52 |
| 10                 | 1.31 | 1.38 | 1.43 | 1.47 | 1.51 | 1.57 | 1.60 | 1.64 | 1.68 |

| Refrigerant       | R-22 | R-12 / R-134A | R-502 / R-404A |
|-------------------|------|---------------|----------------|
| Correction Factor | 1.0  | 0.95          | 0.97           |

### Rating Conditions

ΔT<sub>1</sub> : These figures is obtained from the difference between air-on temperature and refrigerant evaporating temperature.

Correction Factor : For other temperature differences and evaporating temperatures, multiply the basic rating by the relevant capacity correction factor shown in the tables.



### Features And Dimension

| MODEL  | A    | B    | C   |
|--------|------|------|-----|
| SMK 45 | 482  | 770  | 540 |
| -65    | 710  | 1020 | 540 |
| -85    | 840  | 1120 | 540 |
| -120   | 1050 | 1320 | 540 |
| -160   | 1200 | 1500 | 540 |
| -180   | 1380 | 1650 | 540 |
| -240   | 1805 | 2080 | 540 |
| -300   | 2085 | 2370 | 540 |
| -360   | 2670 | 2950 | 540 |
| -400   | 2670 | 2950 | 540 |

For more information contact:

