

R22

7-Mar-2007

## 3Phase 50Hz 380-415V / 60Hz 440-460V Models

| Nominal<br>Capa.<br>Btu/h | HP   | MODEL CODE        |                     | 50Hz     |       |         |       | 60Hz     |       |         |       |
|---------------------------|------|-------------------|---------------------|----------|-------|---------|-------|----------|-------|---------|-------|
|                           |      |                   |                     | Capacity | Input | Current | COP   | Capacity | Input | Current | COP   |
|                           |      |                   |                     | (kW)     | (kW)  | (A)     | (W/W) | (kW)     | (kW)  | (A)     | (W/W) |
| 38k                       | 3.1  | SANYO             | C-SB263H8C          | 9.15     | 2.95  | 5.5     | 3.10  | 11.20    | 3.50  | 5.5     | 3.20  |
|                           |      | Copeland          | —                   | —        | —     | —       | —     | —        | —     | —       | —     |
|                           |      | Danfoss (Bristol) | HRM038 (H23C383DBE) | 9.20     | 2.94  | 4.6     | 3.10  | 11.10    | 3.39  | 6.1     | 3.30  |
| 49k                       | 4    | SANYO             | C-SB303H8A          | 11.80    | 3.65  | 6.5     | 3.23  | 14.40    | 4.40  | 6.6     | 3.27  |
|                           |      | Copeland          | ZR49K3-TFD          | 11.85    | 3.65  | 6.3     | 3.24  | 14.45    | 4.35  | 6.3     | 3.32  |
|                           |      | Danfoss (Bristol) | HRM047 (H23C473DBE) | 11.50    | 3.57  | 6.5     | 3.20  | 13.90    | 4.22  | 7.0     | 3.30  |
| 57k                       | 4.5  | SANYO             | C-SB353H8A          | 13.50    | 4.25  | 7.5     | 3.18  | 16.70    | 5.09  | 7.6     | 3.28  |
|                           |      |                   | C-SBX165H38A        | 13.50    | 4.05  | 7.2     | 3.33  | 16.30    | 4.90  | 7.4     | 3.33  |
|                           |      | Copeland          | ZR57K3-TFD          | 13.75    | 4.10  | 7.2     | 3.35  | 17.20    | 5.00  | 7.3     | 3.43  |
|                           |      | Danfoss (Bristol) | HRM058 (H23R583DBE) | 14.30    | 4.26  | 6.8     | 3.40  | 16.90    | 5.01  | 7.2     | 3.40  |
| 61k                       | 5    | SANYO             | C-SB373H8A          | 14.50    | 4.54  | 7.9     | 3.19  | 17.90    | 5.55  | 8.2     | 3.23  |
|                           |      |                   | C-SBX180H38A        | 14.30    | 4.30  | 7.6     | 3.33  | 17.30    | 5.20  | 7.8     | 3.33  |
|                           |      |                   | C-SBX180H38C        | 14.70    | 4.45  | 7.7     | 3.30  | 17.80    | 5.40  | 7.9     | 3.30  |
|                           |      | Copeland          | ZR61K3-TFD          | 14.65    | 4.40  | 7.6     | 3.33  | 18.20    | 5.35  | 7.8     | 3.40  |
|                           |      | Danfoss (Bristol) | HRM060 (H23R603DBE) | 14.80    | 4.40  | 6.9     | 3.40  | 17.50    | 5.18  | 7.3     | 3.40  |
| 72k                       | 6    | SANYO             | C-SB453H8A          | 17.70    | 5.43  | 9.3     | 3.26  | 21.50    | 6.64  | 9.7     | 3.24  |
|                           |      |                   | C-SBX215H38N        | 17.80    | 5.35  | 9.4     | 3.33  | 21.50    | 6.45  | 9.6     | 3.33  |
|                           |      | Copeland          | ZR72KC-TF9/D        | 17.70    | 5.15  | 8.2     | 3.44  | 21.50    | 6.25  | 9.1     | 3.44  |
|                           |      | Danfoss (Bristol) | —                   | —        | —     | —       | —     | —        | —     | —       | —     |
| 94k                       | 7.7  | SANYO             | C-SC583H8H          | 23.60    | 7.15  | 12.3    | 3.30  | 28.50    | 8.75  | 12.8    | 3.26  |
|                           |      | Copeland          | ZR94KC-TFD          | 23.30    | 6.75  | 12.5    | 3.46  | 28.30    | 8.20  | 12.8    | 3.46  |
|                           |      | Danfoss Maneurop  | SM100               | 23.10    | 6.96  |         | 3.33  | 27.50    | 8.14  |         | 3.38  |
| 101k                      | 8    | SANYO             | C-SC603H8H          | 24.50    | 7.40  | 12.6    | 3.31  | 29.60    | 9.00  | 13.2    | 3.29  |
|                           |      | Copeland          | —                   | —        | —     | —       | —     | —        | —     | —       | —     |
|                           |      | Danfoss Maneurop  | —                   | —        | —     | —       | —     | —        | —     | —       | —     |
| 108k                      | 9    | SANYO             | C-SC673H8H          | 26.50    | 8.05  | 13.6    | 3.29  | 32.00    | 9.80  | 14.2    | 3.27  |
|                           |      | Copeland          | ZR108KC-TFD         | 26.40    | 7.50  | 13.7    | 3.51  | 32.00    | 9.20  | 14.1    | 3.49  |
|                           |      | Danfoss Maneurop  | SM110               | 25.90    | 7.82  |         | 3.32  | 31.60    | 9.35  |         | 3.38  |
| 125k                      | 10   | SANYO             | C-SC753H8H          | 30.60    | 9.05  | 15.4    | 3.38  | 36.90    | 11.10 | 16.1    | 3.32  |
|                           |      | Copeland          | ZR125KC-TFD         | 31.00    | 9.00  | 15.8    | 3.46  | 37.50    | 10.90 | 16.3    | 3.44  |
|                           |      | Danfoss Maneurop  | SM125               | 30.10    | 8.93  |         | 3.37  | 37.00    | 10.99 |         | 3.37  |
| 144k                      | 11.6 | SANYO (Only 50Hz) | C-SC863H8H          | 35.20    | 10.60 | 17.7    | 3.32  |          |       |         |       |
|                           |      | Copeland          | ZR144KC-TFD         | 35.00    | 10.10 | 17.6    | 3.49  | 42.50    | 12.30 | 18.2    | 3.47  |
|                           |      | Danfoss Maneurop  | —                   | —        | —     | —       | —     | —        | —     | —       | —     |
| 151k                      | 12   | SANYO (Only 50Hz) | C-SC903H8H          | 36.10    | 10.90 | 18.2    | 3.31  |          |       |         |       |
|                           |      | Copeland          | —                   | —        | —     | —       | —     | —        | —     | —       | —     |
|                           |      | Danfoss Maneurop  | SM148               | 36.10    | 10.80 |         | 3.34  | 43.80    | 13.00 |         | 3.37  |

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## 3Phase 50Hz 220-240V Models

| Nominal<br>Capa.<br>Btu/h | HP | MODEL CODE        |             | 50Hz             |               |                |              |
|---------------------------|----|-------------------|-------------|------------------|---------------|----------------|--------------|
|                           |    |                   |             | Capacity<br>(kW) | Input<br>(kW) | Current<br>(A) | COP<br>(W/W) |
| 49k                       | 4  | SANYO             | C-SB303H5A  | 11.70            | 3.70          | 12.4           | 3.16         |
|                           |    | Copeland          | ZR49K3-TF5  | 11.85            | 3.65          | 11.0           | 3.24         |
|                           |    | Danfoss (Bristol) | —           | —                | —             | —              | —            |
| 61k                       | 5  | SANYO             | C-SB373H5A  | 14.70            | 4.65          | 13.9           | 3.16         |
|                           |    | Copeland          | ZR61K3-TF5  | 14.65            | 4.40          | 16.3           | 3.33         |
|                           |    | Danfoss (Bristol) | —           | —                | —             | —              | —            |
| 72k                       | 6  | SANYO             | C-SB453H5A  | 17.80            | 5.50          | 16.8           | 3.24         |
|                           |    | Copeland          | ZR72KC-TF5  | 17.70            | 5.20          | 18.4           | 3.42         |
|                           |    | Danfoss (Bristol) | —           | —                | —             | —              | —            |
| 101k                      | 8  | SANYO             | C-SC603H5H  | 24.20            | 7.35          | 22.2           | 3.29         |
|                           |    | Copeland          | —           | —                | —             | —              | —            |
|                           |    | Danfoss Maneurop  | —           | —                | —             | —              | —            |
| 125k                      | 10 | SANYO             | C-SC753H5H  | 30.60            | 9.10          | 27.2           | 3.36         |
|                           |    | Copeland          | ZR125KC-TF5 | 31.00            | 9.00          | 31.7           | 3.46         |
|                           |    | Danfoss Maneurop  | SM125       | 30.10            | 8.93          |                | 3.37         |
| 151k                      | 12 | SANYO             | C-SC903H5H  | 36.00            | 10.90         | 32.1           | 3.30         |
|                           |    | Copeland          | —           | —                | —             | —              | —            |
|                           |    | Danfoss Maneurop  | SM148       | 36.10            | 10.80         |                | 3.34         |

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## 3Phase 60Hz 208-230V Models

| Nominal<br>Capa.<br>Btu/h | HP  | MODEL CODE        |                     | 60Hz     |       |         |       |
|---------------------------|-----|-------------------|---------------------|----------|-------|---------|-------|
|                           |     |                   |                     | Capacity | Input | Current | COP   |
|                           |     |                   |                     | (kW)     | (kW)  | (A)     | (W/W) |
| 38k                       | 3.1 | SANYO             | C-SB263H6C          | 11.10    | 3.55  | 12.2    | 3.13  |
|                           |     | Copeland          | —                   | —        | —     | —       | —     |
|                           |     | Danfoss (Bristol) | HRM038 (H23C383DBD) | 11.10    | 3.39  | 12.3    | 3.30  |
| 40k                       | 3.5 | SANYO             | C-SB263H6B          | 11.90    | 3.70  | 12.5    | 3.22  |
|                           |     | Copeland          | ZR40K3-TF5          | 11.90    | 3.56  | 10.7    | 3.34  |
|                           |     | Danfoss (Bristol) | HRM040 (H23C403DBD) | 11.60    | 3.59  | 12.9    | 3.20  |
| 49k                       | 4   | SANYO             | C-SB303H6B          | 14.40    | 4.40  | 14.0    | 3.27  |
|                           |     | Copeland          | ZR49K3-TF5          | 14.45    | 4.35  | 12.6    | 3.32  |
|                           |     | Danfoss (Bristol) | HRM047 (H23C473DBD) | 13.70    | 4.16  | 13.7    | 3.30  |
| 57k                       | 4.5 | SANYO             | C-SB353H6B          | 16.80    | 5.10  | 16.4    | 3.29  |
|                           |     | Copeland          | ZR57K3-TF5          | 17.20    | 4.98  | 14.5    | 3.45  |
|                           |     | Danfoss (Bristol) | HRM058 (H23R583DBD) | 16.90    | 5.01  | 14.5    | 3.40  |
| 61k                       | 5   | SANYO             | C-SB373H6B          | 18.10    | 5.45  | 17.3    | 3.32  |
|                           |     | Copeland          | ZR61K3-TF5          | 18.20    | 5.35  | 16.5    | 3.41  |
|                           |     | Danfoss (Bristol) | HRM060 (H23R603DBD) | 17.50    | 5.18  | 14.7    | 3.40  |
| 72k                       | 6   | SANYO             | C-SB453H6B          | 21.30    | 6.55  | 20.5    | 3.25  |
|                           |     | Copeland          | ZR72KC-TF5          | 21.50    | 6.25  | 18.1    | 3.44  |
|                           |     | Danfoss (Bristol) | —                   | —        | —     | —       | —     |
| 94k                       | 7.7 | SANYO             | C-SC583H6H          | 27.90    | 8.75  | 27.2    | 3.19  |
|                           |     | Copeland          | ZR94KC-TF5          | 28.30    | 8.20  | 24.9    | 3.46  |
|                           |     | Danfoss Maneurop  | SM100               | 27.50    | 8.14  |         | 3.38  |
| 101k                      | 8   | SANYO             | C-SC603H6H          | 29.60    | 8.95  | 27.9    | 3.31  |
|                           |     | Copeland          | —                   | —        | —     | —       | —     |
|                           |     | Danfoss Maneurop  | —                   | —        | —     | —       | —     |
| 125k                      | 10  | SANYO             | C-SC753H6H          | 37.00    | 11.00 | 33.9    | 3.36  |
|                           |     | Copeland          | ZR125KC-TF5         | 37.50    | 10.90 | 32.6    | 3.44  |
|                           |     | Danfoss Maneurop  | SM125               | 37.00    | 10.99 |         | 3.37  |

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## 3Phase 60Hz 380V Models

| Nominal<br>Capa.<br>Btu/h | HP  | MODEL CODE        |             | 60Hz             |               |                |              |
|---------------------------|-----|-------------------|-------------|------------------|---------------|----------------|--------------|
|                           |     |                   |             | Capacity<br>(kW) | Input<br>(kW) | Current<br>(A) | COP<br>(W/W) |
| 38k                       | 3.1 | SANYO             | C-SB263H9C  | 10.90            | 3.60          | 6.1            | 3.03         |
|                           |     | Copeland          | —           | —                | —             | —              | —            |
|                           |     | Danfoss (Bristol) | —           | —                | —             | —              | —            |
| 49k                       | 4   | SANYO             | C-SB303H9A  | 14.20            | 4.40          | 7.5            | 3.23         |
|                           |     | Copeland          | ZR49KC-TF7  | 14.40            | 4.32          | 7.9            | 3.33         |
|                           |     | Danfoss (Bristol) | —           | —                | —             | —              | —            |
| 57k                       | 4.5 | SANYO             | C-SB353H9A  | 16.60            |               |                | 3.25         |
|                           |     | Copeland          | ZR57KS-TF7  | 17.10            | 5.05          | 8.9            | 3.37         |
|                           |     | Danfoss (Bristol) | —           | —                | —             | —              | —            |
| 61k                       | 5   | SANYO             | C-SB373H9A  | 17.80            | 5.50          | 9.4            | 3.24         |
|                           |     | Copeland          | ZR61KC-TF7  | 18.20            | 5.40          | 9.3            | 3.36         |
|                           |     | Danfoss (Bristol) | —           | —                | —             | —              | —            |
| 72k                       | 6   | SANYO             | C-SB453H9A  | 21.50            |               |                |              |
|                           |     | Copeland          | ZR72KC-TF7  | 21.50            | 6.25          | 10.5           | 3.44         |
|                           |     | Danfoss (Bristol) | —           | —                | —             | —              | —            |
| 101k                      | 8   | SANYO             | C-SC603H9H  | 29.60            | 9.00          | 15.6           | 3.29         |
|                           |     | Copeland          | —           | —                | —             | —              | —            |
|                           |     | Danfoss Maneurop  | —           | —                | —             | —              | —            |
| 125k                      | 10  | SANYO             | C-SC753H9H  | 37.30            |               |                | 3.36         |
|                           |     | Copeland          | ZR125KC-TF7 | 37.50            | 10.90         | 32.6           | 3.44         |
|                           |     | Danfoss Maneurop  | SM125       | 37.00            | 10.99         |                | 3.37         |

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## 1Phase 50Hz 220-240V Models

| Nominal<br>Capa.<br>Btu/h | HP  | MODEL CODE        |                     | 50Hz     |       |         |       | Motor<br>Type | Running<br>Capacitor | Starting<br>Capacitor |
|---------------------------|-----|-------------------|---------------------|----------|-------|---------|-------|---------------|----------------------|-----------------------|
|                           |     |                   |                     | Capacity | Input | Current | COP   |               |                      |                       |
|                           |     |                   |                     | (kW)     | (kW)  | (A)     | (W/W) |               |                      |                       |
| 38k                       | 3.1 | SANYO             | C-SB261H5B          | 9.10     | 3.10  | 14.6    | 2.94  | CSR           | 60uF/440V            | 100-140uF/330V        |
|                           |     | Copeland          | —                   | —        | —     | —       | —     | —             | —                    | —                     |
|                           |     | Danfoss (Bristol) | HRM038 (H23C383ABK) | 9.30     | 2.94  | 13.2    | 3.20  | PSC           | 70uF/370V            | 88-108uF/330V         |
| 40k                       | 3.5 | SANYO             | C-SB261H5A          | 9.70     |       |         | 2.98  | CSR           | 60uF/440V            | 100-140uF/330V        |
|                           |     | Copeland          | ZR40K3-PFJ          | 9.75     | 3.00  | 14.7    | 3.26  | PSC           |                      |                       |
|                           |     | Danfoss (Bristol) | —                   | —        | —     | —       | —     | —             | —                    | —                     |
| 49k                       | 4   | SANYO             | C-SB301H5A          | 12.00    | 3.80  | 18.5    | 3.16  | CSR           | 60uF/440V            | 100-140uF/330V        |
|                           |     | Copeland          | ZR48K3-PFJ          | 11.85    | 3.63  | 17.6    | 3.27  | PSC           |                      |                       |
|                           |     | Danfoss (Bristol) | HRM047 (H23C473ABK) | 11.60    | 3.72  | 17.3    | 3.10  | PSC           | 60uF/370V            | 88-108uF/330V         |
| 57k                       | 4.5 | SANYO             | C-SB351H5A          | 13.60    | 4.45  | 21.2    | 3.06  | PSC           | 70uF/440V            | —                     |
|                           |     | Copeland          | —                   | —        | —     | —       | —     | —             | —                    | —                     |
|                           |     | Danfoss (Bristol) | HRM058 (H23R583ABK) | 14.00    | 4.55  | 24.1    | 3.10  | PSC           | 55uF/440V            | 88-108uF/330V         |
| 61k                       | 5   | SANYO             | C-SB371H5A          | 14.70    | 4.65  | 22.2    | 3.16  | PSC           | 70uF/440V            | —                     |
|                           |     | Copeland          | ZR61KC-PFZ          | 14.95    | 4.55  | 21.7    | 3.28  | PSC           |                      |                       |
|                           |     | Danfoss (Bristol) | HRM060 (H23R603ABK) | 14.70    | 4.63  | 25.5    | 3.20  | PSC           | 55uF/440V            | 88-108uF/330V         |

CSR Type needs Starting Capacitor &amp; Relay.

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## 1Phase 60Hz 208-230V Models

| Nominal<br>Capa.<br>Btu/h | HP  | MODEL CODE        |                     | 60Hz     |       |         |       | Motor<br>Type | Running<br>Capacitor | Starting<br>Capacitor |
|---------------------------|-----|-------------------|---------------------|----------|-------|---------|-------|---------------|----------------------|-----------------------|
|                           |     |                   |                     | Capacity | Input | Current | COP   |               |                      |                       |
|                           |     |                   |                     | (kW)     | (kW)  | (A)     | (W/W) |               |                      |                       |
| 38k                       | 3.1 | SANYO             | C-SB261H6C          | 11.20    | 3.60  | 18.0    | 3.11  | CSR           | 50uF/440V            | 100-140uF/330V        |
|                           |     | Copeland          | —                   | —        | —     | —       | —     | —             | —                    | —                     |
|                           |     | Danfoss (Bristol) | HRM038 (H23C383ABC) | 11.30    | 3.40  | 15.3    | 3.30  | PSC           | 55uF/370V            | 88-108uF/330V         |
| 40k                       | 3.5 | SANYO             | C-SB261H6A          | 12.10    | 3.75  | 18.8    | 3.23  | CSR           | 50uF/440V            | 100-140uF/330V        |
|                           |     | SANYO             | C-SB261H6B          | 11.80    | 3.85  | 18.3    | 3.06  | PSC           | 50uF/440V            | —                     |
|                           |     | Copeland          | ZR40K3-PFV          | 11.90    | 3.63  | 16.7    | 3.28  | PSC           |                      |                       |
|                           |     | Danfoss (Bristol) | HRM040 (H23C403ABC) | 11.90    | 3.60  | 16.1    | 3.30  | PSC           | 60uF/370V            | 88-108uF/330V         |
| 49k                       | 4   | SANYO             | C-SB301H6B          | 14.50    | 4.45  | 21.9    | 3.26  | PSC           | 50uF/440V            | —                     |
|                           |     | Copeland          | ZR48K3-PFV          | 14.60    | 4.32  | 19.5    | 3.38  | PSC           |                      |                       |
|                           |     | Danfoss (Bristol) | HRM047 (H23C473ABC) | 13.90    | 4.22  | 18.7    | 3.30  | PSC           | 60uF/370V            | 88-108uF/250V         |
| 57k                       | 4.5 | SANYO             | C-SB351H6A          | 16.70    | 5.35  | 26.2    | 3.12  | CSR           | 70uF/440V            | 100-140uF/330V        |
|                           |     | SANYO             | C-SB351H6B          | 16.70    | 5.30  | 26.5    | 3.15  | PSC           | 70uF/440V            | —                     |
|                           |     | Copeland          | ZR57K3-PFV          | 17.00    | 5.05  | 23.6    | 3.37  | PSC           |                      |                       |
|                           |     | Danfoss (Bristol) | HRM058 (H23R583ABC) | 16.90    | 5.06  | 22.7    | 3.30  | PSC           | 80uF/370V            | 189-227uF/330V        |
| 61k                       | 5   | SANYO             | C-SB371H6A          | 18.00    | 5.75  | 28.5    | 3.13  | CSR           | 80uF/440V            | 140-170uF/330V        |
|                           |     | Copeland          | ZR61KC-PFV          | 18.10    | 5.65  | 26.0    | 3.21  | PSC           |                      |                       |
|                           |     | Danfoss (Bristol) | HRM060 (H23R603ABC) | 17.50    | 5.25  | 23.6    | 3.30  | PSC           | 80uF/370V            | 189-227uF/330V        |

CSR Type needs Starting Capacitor &amp; Relay.

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## 3Phase 50Hz 380-415V / 60Hz 440-460V Models

| Nominal<br>Capa.<br>Btu/h | HP  | MODEL CODE        |                     | 50Hz     |       |         |       | 60Hz     |       |         |       |
|---------------------------|-----|-------------------|---------------------|----------|-------|---------|-------|----------|-------|---------|-------|
|                           |     |                   |                     | Capacity | Input | Current | COP   | Capacity | Input | Current | COP   |
|                           |     |                   |                     | (kW)     | (kW)  | (A)     | (W/W) | (kW)     | (kW)  | (A)     | (W/W) |
| 49k                       | 4   | SANYO             | C-SBN303H8A         | 11.60    | 3.80  | 6.8     | 3.05  | 14.60    | 4.60  | 6.9     | 3.17  |
|                           |     | Copeland          | ZR49K3E-TFD         | 11.35    | 3.67  | 6.4     | 3.10  | 13.60    | 4.40  | 6.4     | 3.09  |
|                           |     | Danfoss (Bristol) | HRP047 (H73C473DBE) | 11.10    | 3.69  | 7.8     | 3.00  | —        | —     | —       | —     |
| 57k                       | 4.5 | SANYO             | C-SBN353H8A         | 13.40    | 4.60  | 8.1     | 2.91  | 16.50    | 5.60  | 8.4     | 2.95  |
|                           |     | Copeland          | ZR57K3E-TFD         | 13.10    | 4.16  | 7.3     | 3.15  | 16.00    | 5.05  | 7.3     | 3.19  |
|                           |     | Danfoss (Bristol) | HRP058 (H73R583DBE) | 13.50    | 4.47  | 6.0     | 3.00  | —        | —     | —       | —     |
| 61k                       | 5   | SANYO             | C-SBN373H8A         | 14.50    | 4.95  | 8.5     | 2.93  | 17.80    | 5.96  | 8.8     | 2.99  |
|                           |     | Copeland          | ZR61K3E-TFD         | 13.80    | 4.43  | 7.9     | 3.12  | 17.10    | 5.40  | 7.9     | 3.16  |
|                           |     | Danfoss (Bristol) | HRP060 (H73R603DBE) | 13.90    | 4.55  | 6.2     | 3.00  | —        | —     | —       | —     |
| 72k                       | 6   | SANYO             | C-SBN453H8A         | 17.60    | 5.80  | 9.9     | 3.03  | 21.30    | 7.00  | 10.2    | 3.04  |
|                           |     | Copeland          | ZR72KCE-TF9/D       | 16.60    | 5.15  | 9.0     | 3.23  | 20.30    | 6.20  | 8.8     | 3.29  |
|                           |     | Danfoss (Bristol) | HLP072 (H73R723DBE) | 16.80    | 5.17  | 9.4     | 3.30  | —        | —     | —       | —     |
| 101k                      | 8   | SANYO             | C-SCN603H8H         | 24.50    | 7.75  | 13.2    | 3.16  | 29.10    | 9.45  | 13.9    | 3.08  |
|                           |     | Copeland          | —                   | —        | —     | —       | —     | —        | —     | —       | —     |
|                           |     | Danfoss Maneurop  | SZ110               | 24.60    | 7.76  |         | 3.17  | 30.10    | 9.29  |         | 3.24  |
| 125k                      | 10  | SANYO             | C-SCN753H8H         | 29.90    | 9.35  | 15.9    | 3.20  | 35.90    | 11.50 | 16.7    | 3.12  |
|                           |     | Copeland          | ZR125KCE-TFD        | 29.20    | 9.05  | 16.2    | 3.23  | 37.50    | 11.40 | 16.8    | 3.30  |
|                           |     | Danfoss Maneurop  | SZ125               | 28.60    | 8.95  |         | 3.19  | 34.90    | 10.89 |         | 3.21  |
| 151k                      | 12  | SANYO (Only 50Hz) | C-SCN903H8H         | 34.90    | 11.30 | 18.9    | 3.09  |          |       |         |       |
|                           |     | Copeland          | —                   | —        | —     | —       | —     | —        | —     | —       | —     |
|                           |     | Danfoss Maneurop  | SZ148               | 35.10    | 10.99 |         | 3.19  | 42.60    | 13.35 |         | 3.19  |

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## 3Phase 50Hz 220-240V Models

| Nominal<br>Capa.<br>Btu/h | HP | MODEL CODE        |              | 50Hz             |               |                |              |
|---------------------------|----|-------------------|--------------|------------------|---------------|----------------|--------------|
|                           |    |                   |              | Capacity<br>(kW) | Input<br>(kW) | Current<br>(A) | COP<br>(W/W) |
| 49k                       | 4  | SANYO             | C-SBN303H5A  | 11.50            | 3.85          | 12.9           | 2.99         |
|                           |    | Copeland          | ZR49KCE-TF5  | 11.20            | 3.69          | 11.1           | 3.04         |
|                           |    | Danfoss (Bristol) | —            | —                | —             | —              | —            |
| 61k                       | 5  | SANYO             | C-SBN373H5A  | 14.70            | 5.05          | 15.1           | 2.91         |
|                           |    | Copeland          | ZR61K3E-TF5  | 13.80            | 4.43          | 13.7           | 3.12         |
|                           |    | Danfoss (Bristol) | —            | —                | —             | —              | —            |
| 72k                       | 6  | SANYO             | C-SBN453H5A  | 17.70            | 5.90          | 18.0           | 3.00         |
|                           |    | Copeland          | ZR72KCE-TF5  | 16.60            | 5.15          | 18.1           | 3.23         |
|                           |    | Danfoss (Bristol) | —            | —                | —             | —              | —            |
| 101k                      | 8  | SANYO             | C-SCN603H5H  | 24.20            | 7.70          | 23.3           | 3.14         |
|                           |    | Copeland          | —            | —                | —             | —              | —            |
|                           |    | Danfoss Maneurop  | —            | —                | —             | —              | —            |
| 125k                      | 10 | SANYO             | C-SCN753H5H  | 29.90            | 9.40          | 28.1           | 3.18         |
|                           |    | Copeland          | ZR125KCE-TF5 | 29.20            | 9.05          | 32.4           | 3.23         |
|                           |    | Danfoss Maneurop  | SZ125        | 28.60            | 8.95          |                | 3.19         |
| 151k                      | 12 | SANYO             | C-SCN903H5H  | 34.80            | 11.30         | 33.3           | 3.08         |
|                           |    | Copeland          | —            | —                | —             | —              | —            |
|                           |    | Danfoss Maneurop  | SZ148        | 35.10            | 10.99         |                | 3.19         |

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## 1Phase 50Hz 220-240V Models

| Nominal<br>Capa.<br>Btu/h | HP  | MODEL CODE        |                     | 50Hz     |       |         |       | Motor<br>Type | Running<br>Capacitor | Starting<br>Capacitor |
|---------------------------|-----|-------------------|---------------------|----------|-------|---------|-------|---------------|----------------------|-----------------------|
|                           |     |                   |                     | Capacity | Input | Current | COP   |               |                      |                       |
|                           |     |                   |                     | (kW)     | (kW)  | (A)     | (W/W) |               |                      |                       |
| 40k                       | 3.5 | SANYO             | C-SBN261H5A         | 9.70     | 3.40  | 16.1    | 2.85  | CSR           | 60uF/440V            | 100-140uF/330V        |
|                           |     | Copeland          | ZR40K3E-PFJ         | 9.30     | 3.03  | 14.3    | 3.07  | PSC           |                      |                       |
|                           |     | Danfoss (Bristol) | —                   | —        | —     | —       | —     | —             | —                    | —                     |
| 49k                       | 4   | SANYO             | C-SBN301H5A         | 11.80    | 4.00  | 19.4    | 2.95  | CSR           | 60uF/440V            | 100-140uF/330V        |
|                           |     | Copeland          | ZR48K3E-PFJ         | 11.40    | 3.71  | 17.9    | 3.08  | PSC           |                      |                       |
|                           |     | Danfoss (Bristol) | HRP047 (H73C473ABK) | 11.10    | 3.69  | 17.7    | 3.00  | PSC           | 60uF/370V            | 88-108uF/330V         |
| 57k                       | 4.5 | SANYO             | C-SBN351H5A         | 13.50    | 4.75  | 22.7    | 2.84  | PSC           | 70uF/440V            | —                     |
|                           |     | Copeland          | —                   | —        | —     | —       | —     | —             | —                    | —                     |
|                           |     | Danfoss (Bristol) | HRP058 (H73R583ABK) | 13.70    | 4.33  | 19.0    | 3.20  | PSC           | 55uF/440V            | 88-108uF/330V         |
| 61k                       | 5   | SANYO             | C-SBN371H5A         | 14.70    | 5.05  | 24.1    | 2.91  | PSC           | 70uF/440V            | —                     |
|                           |     | Copeland          | ZR61KCE-PFZ         | 14.35    | 4.57  | 21.5    | 3.14  | PSC           |                      |                       |
|                           |     | Danfoss (Bristol) | HRP060 (H73R603ABK) | 14.10    | 4.46  | 19.9    | 3.20  | PSC           | 55uF/440V            | 88-108uF/330V         |

CSR Type needs Starting Capacitor &amp; Relay.

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## 3Phase 50Hz 380-415V / 60Hz 440-460V Models

| Nominal<br>Capa.<br>Btu/h | HP  | MODEL CODE        |                     | 50Hz     |       |         |       | 60Hz     |       |         |       |
|---------------------------|-----|-------------------|---------------------|----------|-------|---------|-------|----------|-------|---------|-------|
|                           |     |                   |                     | Capacity | Input | Current | COP   | Capacity | Input | Current | COP   |
|                           |     |                   |                     | (kW)     | (kW)  | (A)     | (W/W) | (kW)     | (kW)  | (A)     | (W/W) |
| 38k                       | 3.5 | SANYO             | C-SBN263H8D         | 8.85     | 3.55  | 6.4     | 2.49  | 11.60    | 4.20  | 6.4     | 2.76  |
|                           |     | Copeland          | ZP38K3E-TFD         | 9.00     | 3.12  | 5.5     | 2.89  | 11.00    | 3.75  | 5.4     | 2.93  |
|                           |     | Danfoss (Bristol) | HRH038 (H83C383DBE) | 9.20     | 3.36  | 6.6     | 2.80  | 11.10    | 3.79  | 6.7     | 2.90  |
| 41k                       | 4   | SANYO             | C-SBN303H8D         | 9.80     | 3.65  | 6.6     | 2.68  | 12.20    | 4.25  | 6.5     | 2.87  |
|                           |     | Copeland          | ZP41K3E-TFD         | 9.80     | 3.37  | 6.0     | 2.91  | 11.95    | 3.95  | 6.0     | 3.02  |
|                           |     | Danfoss (Bristol) | HRH041 (H83C413DBE) | 10.20    | 3.59  | 5.3     | 2.80  | 12.30    | 4.08  | 7.1     | 3.00  |
| 54k                       | 4.5 | SANYO             | C-SBN353H8D         | 13.00    | 4.65  | 8.0     | 2.80  | 16.20    | 5.45  | 8.0     | 2.97  |
|                           |     | Copeland          | ZP54K3E-TFD         | 13.20    | 4.45  | 7.8     | 2.96  | 15.90    | 5.25  | 8.0     | 3.05  |
|                           |     | Danfoss (Bristol) | HRH054 (H83R543DBE) | 13.30    | 4.42  | 7.2     | 3.00  | 16.00    | 5.30  | 7.2     | 3.00  |
| 57k                       | 5   | SANYO             | C-SBN373H8D         | 14.10    | 4.75  | 8.2     | 2.97  | 17.10    | 5.60  | 8.3     | 3.05  |
|                           |     | Copeland          | ZR57K3E-TFD         | 13.95    | 4.61  | 8.1     | 3.02  | 17.00    | 5.45  | 8.2     | 3.11  |
|                           |     | Danfoss (Bristol) | HRH056 (H83R563DBE) | 13.80    | 4.58  | 7.2     | 3.00  | 16.40    | 5.50  | 7.2     | 3.00  |
| 67k                       | 6   | SANYO             | C-SBN453H8D         | 16.40    | 5.75  | 9.8     | 2.85  | 20.30    | 6.75  | 9.8     | 3.01  |
|                           |     | Copeland          | ZP67KCE-TFD         | 16.10    | 5.20  | 9.1     | 3.10  | 19.60    | 6.20  | 9.0     | 3.16  |
|                           |     | Danfoss (Bristol) | HLH068 (H83R683DBV) | 16.90    | 5.26  | 10.8    | 3.20  | 20.10    | 6.30  | 8.9     | 3.20  |
| 83k                       | 7   | SANYO (Only 50Hz) | C-SBN523H8D         | 19.20    | 6.75  | 11.6    | 2.84  |          |       |         |       |
|                           |     | Copeland          | ZP83KCE-TFD         | 19.90    | 6.40  | 11.7    | 3.11  | 24.30    | 7.65  | 11.1    | 3.18  |
|                           |     | Danfoss (Bristol) | —                   | —        | —     | —       | —     | —        | —     | —       | —     |
| 90k                       | 8   | SANYO             | C-SCP270H38A        | 22.40    | 7.40  | 13.1    | 3.03  | 27.20    | 8.90  | 13.4    | 3.06  |
|                           |     | Copeland          | ZP90KCE-TFD         | 21.80    | 6.90  | 12.3    | 3.15  | 26.50    | 8.35  | 12.4    | 3.17  |
| 103k                      | 10  | SANYO             | C-SCP315H38A        | 26.00    | 8.60  | 14.9    | 3.02  | 31.40    | 10.40 | 15.3    | 3.02  |
|                           |     | Copeland          | ZP103KCE-TFD        | 25.20    | 7.80  | 13.6    | 3.22  | 30.50    | 9.55  | 14.3    | 3.22  |
| 120k                      | 11  | SANYO             | C-SCP360H38A        | 29.80    | 9.90  | 16.9    | 3.01  | 35.90    | 11.90 | 17.4    | 3.02  |
|                           |     | Copeland          | ZP120KCE-TFD        | 29.20    | 9.15  | 16.6    | 3.18  | 35.50    | 11.10 | 16.4    | 3.21  |
| 137k                      | 12  | SANYO (Only 50Hz) | C-SCP400H38A        | 32.80    | 10.90 | 18.3    | 3.01  |          |       |         |       |
|                           |     | Copeland          | ZP137KCE-TFD        | 32.50    | 10.20 | 17.8    | 3.20  | 39.50    | 12.30 | 17.9    | 3.23  |

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1Phase 50Hz 220-240V Models

| Nominal<br>Capa.<br>Btu/h | HP  | MODEL CODE        |             | 50Hz     |       |         |       | Motor<br>Type | Running<br>Capacitor | Starting<br>Capacitor |
|---------------------------|-----|-------------------|-------------|----------|-------|---------|-------|---------------|----------------------|-----------------------|
|                           |     |                   |             | Capacity | Input | Current | COP   |               |                      |                       |
|                           |     |                   |             | (kW)     | (kW)  | (A)     | (W/W) |               |                      |                       |
| 38k                       | 3.5 | SANYO             | C-SBN261H5D | 9.15     | 3.70  | 18.0    | 2.47  | CSR           | 60uF/440V            | 100-140uF/330V        |
|                           |     | Copeland          | —           | —        | —     | —       | —     | —             | —                    | —                     |
|                           |     | Danfoss (Bristol) | —           | —        | —     | —       | —     | —             | —                    | —                     |
| 41k                       | 4   | SANYO             | C-SBN301H5D | 9.35     | 3.75  | 18.1    | 2.49  | CSR           | 60uF/440V            | 100-140uF/330V        |
|                           |     | Copeland          | ZP41K3E-PFJ | 9.85     | 3.57  | 16.9    | 2.76  | PSC           |                      |                       |
|                           |     | Danfoss (Bristol) | —           | —        | —     | —       | —     | —             | —                    | —                     |

CSR Type needs Starting Capacitor & Relay.