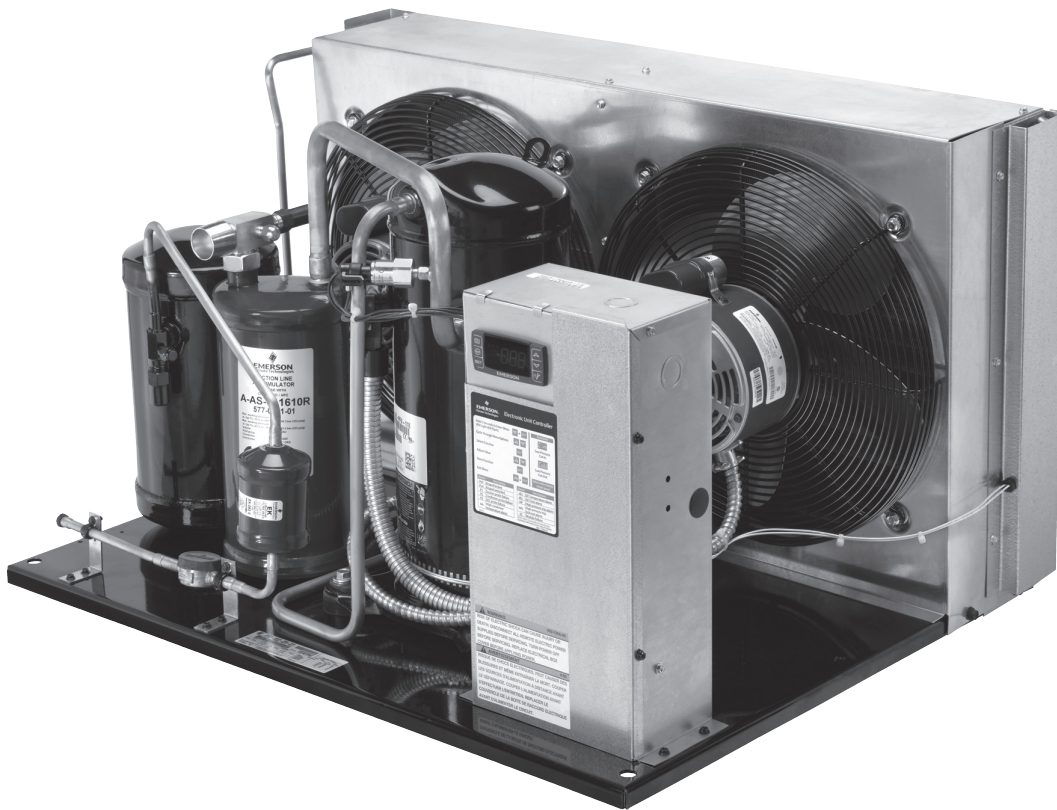


# FFAP, FFWP and FPAK Line

## Copeland Scroll™ air-cooled and water-cooled condensing units



## Product Information

|                            |   |
|----------------------------|---|
| Horsepower:                | 1 – 5   |
| Temperature Applications:  | Low/Medium/High   |
| Refrigerants:              | R-134a, R-404A, R-22, R-407A, R-407C                            |
| Installation Applications: | A variety of applications including bulk milk and walk-in boxes |

# Nomenclature • Welded Condensing Units

| Temperature Application | Code |
|-------------------------|------|
| High Temperature        | H    |
| Medium Temperature      | M    |
| Low Temperature         | L    |
| Extended Medium Temp.   | F    |
| Extra Low Temperature   | E    |
| Multiple                | S    |
| Multiple                | N    |
| Multiple                | P    |
| R-404A LT and R-134a HT | K    |

| Compressor Motor Types |   |      |
|------------------------|---|------|
| Phase                  | Description   | Code |
| 1                      | Capacitor Run - Capacitor Start   | C    |
| 1                      | Induction Run - Capacitor Start   | I    |
| 1                      | Induction Run - Split Phase   | S    |
| 1                      | Capacitor Run - Permanent Split   | P    |
| 3                      | Three Phase - General<br>3 Lead Single Voltage<br>6 Lead Part Winding 575V<br>9 Lead Dual Voltage | T    |
| 3                      | Star (Wye) Delta  | E    |
| 3                      | 6 Lead - Part Winding or<br>Across the Line   | F    |

| Bill Of Material (BOM) |   |
|------------------------|---|
| 001 thru 099           | Intended for UL Listing and CUL Certified                           |
| 100 thru 299           | Intended for UL Recognition and CUL Certified                       |
| 300 thru 399           | Not eligible for either UL Listing, UL Recognition or CUL Certified |

**X X X X - X X X X - X X X - X X X**

Condensing Unit Family Series

| Type of Design            | Code |
|---------------------------|------|
| Air Cooled Steel Base     | A    |
| Air Cooled Copevap Base   | E/P  |
| Narrow Air Cooled Copevap | T    |
| Water Cooled Steel Base   | W    |
| Custom Base               | C    |
| Discus                    | D    |

| Comp. Motor Rating |      |
|--------------------|------|
| Nominal HP         | Code |
| 1/2                | 0050 |
| 3/4                | 0075 |
| 1                  | 0100 |
| 1-1/2              | 0150 |
| 2                  | 0200 |
| 3                  | 0300 |
| 4                  | 0400 |
| 5                  | 0500 |
| 6                  | 0600 |
| 7-1/2              | 0750 |
| 9                  | 0900 |
| 10                 | 1000 |
| 15                 | 1500 |

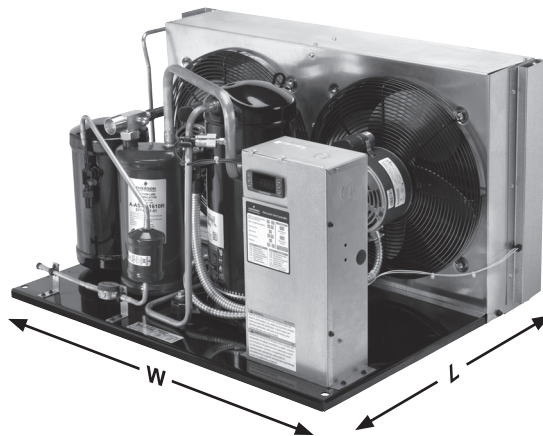
Note: Left position may be a letter indicating a revision change

| Compressor Motor Protection   |      |
|---|------|
| Type Protection   | Code |
| External Inherent Protection - One Protector (Line Break)                     | A    |
| Internal Inherent Protection - One Protector (Line Break)                     | F    |
| Internal Thermal Protection - Electronic Sensors; and Control Module External | S    |

| Electrical Codes |           |      |
|------------------|-----------|------|
| 60 Hz.           | 50 Hz.    | Code |
| 115-1            | 100-1     | A    |
| 230-1            | -         | B    |
| 208/230-3        | 200/220-3 | C    |
| 460-3            | -         | D    |
| 575-3            | -         | E    |
| -                | 230-1     | G    |
| -                | 380/420-3 | M    |
| 208/230-1        | 200-1     | V    |
| -                | 220-3     | W    |
| -                | 220/240-1 | Z    |

Note: When applicable, specific 50 Hz ratings (not necessarily identical to typical shown above) will be shown as alternate on 60 Hz rated models.

| Refrigerant   | Code  |
|---------------|-------|
| R404A/507     | J/4   |
| R134a         | T/2   |
| R12           | B     |
| R22           | C/3/M |
| Multiple      | F     |
| R22/407C      | G     |
| R22           | 9     |
| R134a/404A/22 | N     |
| R134a/404A    | P     |
| R404A/22      | 8     |



| BOM  | Suction Valve | Suction Accumulator | Receiver | BX Conduit | Fan Guard | Discharge-Line T'stat | High/ Low Pressure Control | Anti-Short Cycle Time Delay | Filter Drier | Moisture Indicator | Compressor Crankcase Heater | Head Pressure Control Valve | Fan Cycle Control | Water Valve |
|------|---------------|---------------------|----------|------------|-----------|-----------------------|----------------------------|-----------------------------|--------------|--------------------|-----------------------------|-----------------------------|-------------------|-------------|
| -020 | •             |                     | •        | •          |           | •                     | •                          | •                           |              |                    |                             |                             |                   | •           |
| -070 | •             | •                   | •        | •          | •         | •                     | •                          | •                           | •            | •                  |                             |                             |                   |             |
| -071 | •             | •                   | •        | •          | •         | •                     | •                          | •                           | •            | •                  | •                           |                             | •                 |             |
| -072 | •             |                     | •        | •          | •         | •                     | •                          | •                           | •            | •                  |                             |                             |                   |             |
| -075 | •             | •                   | •        | •          | •         | •                     | •                          | •                           | •            | •                  | •                           | •                           |                   |             |

BOM (bills of material) numbers apply only to the units listed in this section. All models are UL Listed. UL/UR are registered trademarks of Underwriters Laboratories, Inc.

## Copeland Scroll™ air-cooled and water-cooled condensing units

| Features   | Benefits   |
|--|--|
| Copeland Scroll Compressor                                 | Reliability  |
|  | High Energy Efficiency   |
|  | Low Sound & Vibration  |
| Advance Diagnostics and Protection Features                | Faster Trouble Shooting<br>Warranty Reduction  |
| Factory Installed EK Filter Drier & HMI Moisture Indicator | Less Leaks, Reduce Callbacks, Lower Installation Cost,<br>Increase Equipment Reliability, Lower Warranty |
| Modular Components   | Replacement Serviceability   |
| Multi Refrigerant Approval for High/Med Models             | Application Flexibility<br>Inventory Consolidation   |

### Resources and Support

#### EmersonClimate.com

##### ■ Online Product Information and Technical Data

- Application Engineering Bulletins
- Instruction Sheets
- Marketing Brochures

##### ■ Product Selection Tools

- Walk-In Box Load Calculator

##### ■ Where to Buy

Optional Hood (refer to appendix of this catalog or form number 2010ECT-121 for more information)

### Application Engineering Bulletins

- 4-1273 Factors to Consider in Converting Compressor Rated Capacity to Actual Capacity
- 4-1299 Application Guidelines for K4 Refrigeration Copeland Scroll™ Compressors 2-8 Horsepower
- 4-1387 Application Guidelines for ZS\*\*KAE Copeland Scroll™ Refrigeration Compressors 1.3-4.5 HP
- 8-1347 Copeland PerformanceAlert™ Diagnostic Module
- 8-1376 Electronic Unit Controller
- 11-1147 Suction Accumulators
- 11-1297 Liquid Line Filter-Driers
- 17-1260 Compressor Overheating
- 17-1268 Compression Ratio as it Affects Compressor Reliability
- 22-1182 Liquid Refrigerant Control in Refrigeration and Air Conditioning Systems

For more information, visit [EmersonClimate.com](http://EmersonClimate.com) and login to the Customer Portal to view Online Product Information

## Copeland Scroll™ air-cooled condensing units

### Capacity Data

| LOW/MED/HIGH TEMP               |                      | Capacity (BTU/Hr) at 90° Ambient - Evaporator Temp (°F) |       |        |        |        |        |        |        |
|---------------------------------|----------------------|---|-------|--------|--------|--------|--------|--------|--------|
| Model                           | BOM                  | Refrig.   | H.P.  | -30    | -25    | -20    | -15    | -10    | -5     |
| FFAP-015Z-CFV, TFC, TFD         | 075, 072             | 22  | 1-1/2 |        |        |        |        |        |        |
|                                 |                      | 134a  | 1-1/2 |        |        |        |        |        |        |
|                                 |                      | 404A  | 1-1/2 | 3,520  | 3,980  | 4,470  | 5,010  | 5,600  | 6,230  |
|                                 |                      | 407A  | 1-1/2 |        | 3,360  | 3,960  | 4,550  | 5,160  | 5,780  |
|                                 |                      | 407C  | 1-1/2 |        |        |        |        |        |        |
| FFAP-017Z-CFV, TFC, TFD         | 075, 072             | 22  | 1-3/4 |        |        |        |        |        |        |
|                                 |                      | 134a  | 1-3/4 |        |        |        |        |        |        |
|                                 |                      | 404A  | 1-3/4 | 4,100  | 4,630  | 5,200  | 5,820  | 6,490  | 7,210  |
|                                 |                      | 407A  | 1-3/4 |        | 3,970  | 4,670  | 5,370  | 6,080  | 6,800  |
|                                 |                      | 407C  | 1-3/4 |        |        |        |        |        |        |
| FFAP-020Z-CFV, TFC, TFD         | 071, 072             | 22  | 2     |        |        |        |        |        |        |
|                                 |                      | 134a  | 2     |        |        |        |        |        |        |
|                                 |                      | 404A  | 2     | 4,780  | 5,390  | 6,060  | 6,780  | 7,560  | 8,410  |
|                                 |                      | 407A  | 2     |        | 4,540  | 5,350  | 6,150  | 6,970  | 7,800  |
|                                 |                      | 407C  | 2     |        |        |        |        |        |        |
| FFAP-022Z-CFV, TFC, TFD         | 071, 072*            | 22  | 2-1/4 |        |        |        |        |        |        |
|                                 |                      | 134a  | 2-1/4 |        |        |        |        |        |        |
|                                 |                      | 404A  | 2-1/4 | 5,810  | 6,560  | 7,370  | 8,250  | 9,210  | 10,200 |
|                                 |                      | 407A  | 2-1/4 |        | 5,480  | 6,460  | 7,430  | 8,410  | 9,430  |
|                                 |                      | 407C  | 2-1/4 |        |        |        |        |        |        |
| FFAP-030Z-CFV, TFC, TFD         | 071, 072*            | 22  | 3     |        |        |        |        |        |        |
|                                 |                      | 134a  | 3     |        |        |        |        |        |        |
|                                 |                      | 404A  | 3     | 6,550  | 7,400  | 8,330  | 9,340  | 10,400 | 11,600 |
|                                 |                      | 407A  | 3     |        | 6,250  | 7,370  | 8,480  | 9,620  | 10,800 |
|                                 |                      | 407C  | 3     |        |        |        |        |        |        |
| FFAP-032Z-CFV, TFC, TFD         | 071, 072*            | 22  | 3-1/4 |        |        |        |        |        |        |
|                                 |                      | 134a  | 3-1/4 |        |        |        |        |        |        |
|                                 |                      | 404A  | 3-1/4 | 8,660  | 9,770  | 11,000 | 12,300 | 13,700 | 15,200 |
|                                 |                      | 407A  | 3-1/4 |        | 7,130  | 8,530  | 9,990  | 11,500 | 13,100 |
|                                 |                      | 407C  | 3-1/4 |        |        |        |        |        |        |
| FFAP-040Z-CFV, TFC, TFD         | 071, 072*            | 22  | 4     |        |        |        |        |        |        |
|                                 |                      | 134a  | 4     |        |        |        |        |        |        |
|                                 |                      | 404A  | 4     | 9,770  | 11,100 | 12,500 | 14,000 | 15,700 | 17,500 |
|                                 |                      | 407A  | 4     |        | 8,350  | 9,950  | 11,600 | 13,400 | 15,300 |
|                                 |                      | 407C  | 4     |        |        |        |        |        |        |
| FFAP-042Z-CFV, TFC, TFD         | 071, 072*            | 22  | 4-1/4 |        |        |        |        |        |        |
|                                 |                      | 134a  | 4-1/4 |        |        |        |        |        |        |
|                                 |                      | 404A  | 4-1/4 | 12,300 | 13,900 | 15,700 | 17,600 | 19,700 | 21,900 |
|                                 |                      | 407A  | 4-1/4 |        | 10,700 | 12,800 | 15,000 | 17,300 | 19,700 |
|                                 |                      | 407C  | 4-1/4 |        |        |        |        |        |        |
| FFAP-050Z-CFV, TFC, TFD,<br>TFE | 071, 072**<br>075*** | 22  | 5     |        |        |        |        |        |        |
|                                 |                      | 134a  | 5     |        |        |        |        |        |        |
|                                 |                      | 404A  | 5     | 14,500 | 16,200 | 18,200 | 20,200 | 22,500 | 24,800 |
|                                 |                      | 407A  | 5     |        |        |        |        |        |        |
|                                 |                      | 407C  | 5     |        |        |        |        |        |        |

Performance @ 40°F return gas (65°F return gas for performance in bold), 5°F subcooling.

\* -TFD not available

\*\* -TFD or TFE not available

\*\*\* -TFE only

## Copeland Scroll™ air-cooled condensing units

### Capacity Data

| LOW/MED/HIGH TEMP               |                      | Capacity (BTU/Hr) at 90° Ambient - Evaporator Temp (°F) |       |        |        |        |        |        |
|---------------------------------|----------------------|---|-------|--------|--------|--------|--------|--------|
| Model                           | BOM                  | Refrig.   | H.P.  | 0      | +5     | +10    | +15    | +20    |
| FFAP-015Z-CFV, TFC, TFD         | 075, 072             | 22  | 1-1/2 | 6,730  | 7,630  | 8,530  | 9,450  | 10,400 |
|                                 |                      | 134a  | 1-1/2 | 4,220  | 4,770  | 5,360  | 6,000  | 6,680  |
|                                 |                      | 404A  | 1-1/2 | 6,900  | 7,660  | 8,460  | 9,320  | 10,200 |
|                                 |                      | 407A  | 1-1/2 | 6,430  | 7,130  | 7,870  | 8,660  | 9,510  |
|                                 |                      | 407C  | 1-1/2 | 5,630  | 6,490  | 7,410  | 8,330  | 9,290  |
| FFAP-017Z-CFV, TFC, TFD         | 075, 072             | 22  | 1-3/4 | 7,790  | 8,830  | 9,860  | 10,900 | 12,000 |
|                                 |                      | 134a  | 1-3/4 | 5,000  | 5,640  | 6,340  | 7,080  | 7,880  |
|                                 |                      | 404A  | 1-3/4 | 7,970  | 8,830  | 9,730  | 10,700 | 11,700 |
|                                 |                      | 407A  | 1-3/4 | 7,550  | 8,360  | 9,210  | 10,100 | 11,100 |
|                                 |                      | 407C  | 1-3/4 | 6,860  | 7,880  | 8,970  | 10,100 | 11,200 |
| FFAP-020Z-CFV, TFC, TFD         | 071, 072             | 22  | 2     | 9,000  | 10,200 | 11,400 | 12,600 | 13,900 |
|                                 |                      | 134a  | 2     | 5,710  | 6,450  | 7,240  | 8,090  | 9,010  |
|                                 |                      | 404A  | 2     | 9,300  | 10,300 | 11,400 | 12,500 | 13,700 |
|                                 |                      | 407A  | 2     | 8,660  | 9,600  | 10,600 | 11,600 | 12,800 |
|                                 |                      | 407C  | 2     | 7,600  | 8,760  | 9,990  | 11,200 | 12,500 |
| FFAP-022Z-CFV, TFC, TFD         | 071, 072*            | 22  | 2-1/4 | 10,700 | 12,100 | 13,500 | 15,000 | 16,500 |
|                                 |                      | 134a  | 2-1/4 | 6,810  | 7,690  | 8,640  | 9,660  | 10,800 |
|                                 |                      | 404A  | 2-1/4 | 11,300 | 12,600 | 13,900 | 15,200 | 16,700 |
|                                 |                      | 407A  | 2-1/4 | 10,500 | 11,600 | 12,800 | 14,100 | 15,400 |
|                                 |                      | 407C  | 2-1/4 | 9,400  | 10,800 | 12,200 | 13,700 | 15,200 |
| FFAP-030Z-CFV, TFC, TFD         | 071, 072*            | 22  | 3     | 12,300 | 13,900 | 15,500 | 17,200 | 19,000 |
|                                 |                      | 134a  | 3     | 7,870  | 8,890  | 10,000 | 11,200 | 12,500 |
|                                 |                      | 404A  | 3     | 12,900 | 14,300 | 15,900 | 17,500 | 19,300 |
|                                 |                      | 407A  | 3     | 12,000 | 13,300 | 14,700 | 16,200 | 17,800 |
|                                 |                      | 407C  | 3     | 10,700 | 12,300 | 14,000 | 15,800 | 17,600 |
| FFAP-032Z-CFV, TFC, TFD         | 071, 072*            | 22  | 3-1/4 | 16,000 | 18,200 | 20,300 | 22,500 | 24,700 |
|                                 |                      | 134a  | 3-1/4 | 10,400 | 11,800 | 13,200 | 14,700 | 16,400 |
|                                 |                      | 404A  | 3-1/4 | 16,800 | 18,600 | 20,500 | 22,500 | 24,700 |
|                                 |                      | 407A  | 3-1/4 | 14,800 | 16,700 | 18,600 | 20,600 | 22,700 |
|                                 |                      | 407C  | 3-1/4 | 13,900 | 16,000 | 18,200 | 20,400 | 22,700 |
| FFAP-040Z-CFV, TFC, TFD         | 071, 072*            | 22  | 4     | 18,600 | 21,100 | 23,700 | 26,300 | 29,000 |
|                                 |                      | 134a  | 4     | 11,800 | 13,400 | 15,100 | 16,900 | 18,900 |
|                                 |                      | 404A  | 4     | 19,500 | 21,700 | 24,100 | 26,600 | 29,400 |
|                                 |                      | 407A  | 4     | 17,300 | 19,400 | 21,800 | 24,200 | 26,900 |
|                                 |                      | 407C  | 4     | 16,700 | 19,300 | 21,900 | 24,600 | 27,500 |
| FFAP-042Z-CFV, TFC, TFD         | 071, 072*            | 22  | 4-1/4 | 22,800 | 25,900 | 28,900 | 32,100 | 35,400 |
|                                 |                      | 134a  | 4-1/4 | 14,600 | 16,500 | 18,500 | 20,700 | 23,100 |
|                                 |                      | 404A  | 4-1/4 | 24,400 | 27,000 | 29,900 | 33,000 | 36,400 |
|                                 |                      | 407A  | 4-1/4 | 22,300 | 25,100 | 28,000 | 31,100 | 34,500 |
|                                 |                      | 407C  | 4-1/4 | 19,600 | 22,700 | 25,800 | 29,000 | 32,400 |
| FFAP-050Z-CFV, TFC, TFD,<br>TFE | 071, 072**<br>075*** | 22  | 5     | 26,200 | 29,100 | 32,100 | 35,400 | 38,900 |
|                                 |                      | 134a  | 5     | 16,600 | 18,700 | 20,900 | 23,400 | 26,000 |
|                                 |                      | 404A  | 5     | 27,300 | 30,100 | 33,000 | 36,000 | 39,300 |
|                                 |                      | 407A  | 5     |        |        |        |        |        |
|                                 |                      | 407C  | 5     | 21,200 | 24,500 | 28,100 | 32,000 | 36,100 |

Performance @ 40°F return gas (65°F return gas for performance in bold), 5°F subcooling.

\* -TFD not available

\*\* -TFD or TFE not available

\*\*\* -TFE only

## Copeland Scroll™ air-cooled condensing units

### Capacity Data

| LOW/MED/HIGH TEMP               |                      | Cap. (BTU/Hr) at 90° F Ambient - Evaporator Temp (°F) |       |               |               |               |               |               |
|---------------------------------|----------------------|---|-------|---------------|---------------|---------------|---------------|---------------|
| Model                           | BOM                  | Refrig.   | H.P.  | +25           | +30           | +35           | +40           | +45           |
| FFAP-015Z-CFV, TFC, TFD         | 075, 072             | 22  | 1-1/2 | <b>11,400</b> | <b>12,400</b> | <b>13,600</b> | <b>14,800</b> | <b>16,100</b> |
|                                 |                      | 134a  | 1-1/2 | <b>7,540</b>  | <b>8,340</b>  | <b>9,200</b>  | <b>10,100</b> | <b>11,100</b> |
|                                 |                      | 404A  | 1-1/2 | <b>11,500</b> | <b>12,400</b> | <b>13,400</b> | <b>14,500</b> | <b>15,600</b> |
|                                 |                      | 407A  | 1-1/2 | <b>10,700</b> | <b>11,800</b> | <b>12,900</b> | <b>14,100</b> | <b>15,400</b> |
|                                 |                      | 407C  | 1-1/2 | <b>10,400</b> | <b>11,400</b> | <b>12,500</b> | <b>13,600</b> | <b>14,800</b> |
| FFAP-017Z-CFV, TFC, TFD         | 075, 072             | 22  | 1-3/4 | <b>13,100</b> | <b>14,300</b> | <b>15,600</b> | <b>17,000</b> | <b>18,400</b> |
|                                 |                      | 134a  | 1-3/4 | <b>8,900</b>  | <b>9,840</b>  | <b>10,800</b> | <b>11,900</b> | <b>13,100</b> |
|                                 |                      | 404A  | 1-3/4 | <b>13,100</b> | <b>14,300</b> | <b>15,500</b> | <b>16,900</b> | <b>18,500</b> |
|                                 |                      | 407A  | 1-3/4 | <b>12,500</b> | <b>13,700</b> | <b>15,000</b> | <b>16,300</b> | <b>17,800</b> |
|                                 |                      | 407C  | 1-3/4 | <b>12,500</b> | <b>13,700</b> | <b>14,900</b> | <b>16,200</b> | <b>17,500</b> |
| FFAP-020Z-CFV, TFC, TFD         | 071, 072             | 22  | 2     | <b>15,200</b> | <b>16,600</b> | <b>18,100</b> | <b>19,600</b> | <b>21,300</b> |
|                                 |                      | 134a  | 2     | <b>10,200</b> | <b>11,200</b> | <b>12,400</b> | <b>13,600</b> | <b>14,900</b> |
|                                 |                      | 404A  | 2     | <b>15,300</b> | <b>16,600</b> | <b>17,900</b> | <b>19,200</b> | <b>20,600</b> |
|                                 |                      | 407A  | 2     | <b>14,400</b> | <b>15,700</b> | <b>17,200</b> | <b>18,800</b> | <b>20,500</b> |
|                                 |                      | 407C  | 2     | <b>14,000</b> | <b>15,300</b> | <b>16,800</b> | <b>18,200</b> | <b>19,700</b> |
| FFAP-022Z-CFV, TFC, TFD         | 071, 072*            | 22  | 2-1/4 | <b>18,300</b> | <b>20,000</b> | <b>21,700</b> | <b>23,600</b> | <b>25,600</b> |
|                                 |                      | 134a  | 2-1/4 | <b>12,300</b> | <b>13,600</b> | <b>15,000</b> | <b>16,500</b> | <b>18,100</b> |
|                                 |                      | 404A  | 2-1/4 | <b>18,900</b> | <b>20,600</b> | <b>22,500</b> | <b>24,400</b> | <b>26,800</b> |
|                                 |                      | 407A  | 2-1/4 | <b>17,400</b> | <b>19,100</b> | <b>20,900</b> | <b>22,800</b> | <b>24,900</b> |
|                                 |                      | 407C  | 2-1/4 | <b>17,300</b> | <b>19,000</b> | <b>20,700</b> | <b>22,500</b> | <b>24,400</b> |
| FFAP-030Z-CFV, TFC, TFD         | 071, 072*            | 22  | 3     | <b>20,800</b> | <b>22,700</b> | <b>24,800</b> | <b>27,000</b> | <b>29,400</b> |
|                                 |                      | 134a  | 3     | <b>14,100</b> | <b>15,600</b> | <b>17,200</b> | <b>19,000</b> | <b>20,800</b> |
|                                 |                      | 404A  | 3     | <b>21,600</b> | <b>23,500</b> | <b>25,400</b> | <b>27,500</b> | <b>29,600</b> |
|                                 |                      | 407A  | 3     | <b>20,200</b> | <b>22,100</b> | <b>24,200</b> | <b>26,500</b> | <b>29,000</b> |
|                                 |                      | 407C  | 3     | <b>19,700</b> | <b>21,700</b> | <b>23,700</b> | <b>26,100</b> | <b>28,700</b> |
| FFAP-032Z-CFV, TFC, TFD         | 071, 072*            | 22  | 3-1/4 | <b>27,400</b> | <b>29,800</b> | <b>32,400</b> | <b>35,100</b> | <b>38,000</b> |
|                                 |                      | 134a  | 3-1/4 | <b>18,500</b> | <b>20,400</b> | <b>22,500</b> | <b>24,700</b> | <b>27,100</b> |
|                                 |                      | 404A  | 3-1/4 | <b>27,300</b> | <b>29,500</b> | <b>31,800</b> | <b>34,200</b> | <b>36,700</b> |
|                                 |                      | 407A  | 3-1/4 | <b>25,700</b> | <b>28,200</b> | <b>30,700</b> | <b>33,400</b> | <b>36,300</b> |
|                                 |                      | 407C  | 3-1/4 | <b>25,400</b> | <b>27,900</b> | <b>30,400</b> | <b>33,000</b> | <b>35,800</b> |
| FFAP-040Z-CFV, TFC, TFD         | 071, 072*            | 22  | 4     | <b>31,700</b> | <b>34,800</b> | <b>38,100</b> | <b>41,600</b> | <b>45,400</b> |
|                                 |                      | 134a  | 4     | <b>21,300</b> | <b>23,700</b> | <b>26,200</b> | <b>28,900</b> | <b>31,800</b> |
|                                 |                      | 404A  | 4     | <b>34,200</b> | <b>37,500</b> | <b>41,000</b> | <b>44,800</b> | <b>49,500</b> |
|                                 |                      | 407A  | 4     | <b>30,600</b> | <b>33,700</b> | <b>37,000</b> | <b>40,600</b> | <b>44,300</b> |
|                                 |                      | 407C  | 4     | <b>30,700</b> | <b>33,800</b> | <b>37,100</b> | <b>41,000</b> | <b>45,200</b> |
| FFAP-042Z-CFV, TFC, TFD         | 071, 072*            | 22  | 4-1/4 | <b>38,700</b> | <b>42,400</b> | <b>46,400</b> | <b>50,500</b> | <b>55,000</b> |
|                                 |                      | 134a  | 4-1/4 | <b>26,100</b> | <b>29,000</b> | <b>32,000</b> | <b>35,200</b> | <b>38,700</b> |
|                                 |                      | 404A  | 4-1/4 | <b>40,800</b> | <b>44,800</b> | <b>49,100</b> | <b>54,000</b> | <b>59,000</b> |
|                                 |                      | 407A  | 4-1/4 | <b>39,200</b> | <b>43,100</b> | <b>47,200</b> | <b>51,500</b> | <b>57,000</b> |
|                                 |                      | 407C  | 4-1/4 | <b>36,300</b> | <b>39,900</b> | <b>43,800</b> | <b>47,700</b> | <b>51,900</b> |
| FFAP-050Z-CFV, TFC, TFD,<br>TFE | 071, 072**<br>075*** | 22  | 5     | <b>43,100</b> | <b>47,100</b> | <b>51,500</b> | <b>55,500</b> | <b>60,500</b> |
|                                 |                      | 134a  | 5     | <b>29,400</b> | <b>32,500</b> | <b>35,800</b> | <b>39,300</b> | <b>43,000</b> |
|                                 |                      | 404A  | 5     | <b>45,400</b> | <b>49,300</b> | <b>53,500</b> | <b>57,500</b> | <b>62,000</b> |
|                                 |                      | 407A  | 5     |               |               |               |               |               |
|                                 |                      | 407C  | 5     | <b>41,600</b> | <b>46,100</b> | <b>50,800</b> | <b>55,500</b> | <b>60,100</b> |

Performance @ 40°F return gas (65°F return gas for performance in bold), 5°F subcooling.

\* -TFD not available

\*\* -TFD or TFE not available

\*\*\* -TFE only

# Copeland Scroll™ air-cooled condensing units

## Capacity Data

| LOW/MED/HIGH TEMP               |                      | Capacity (BTU/Hr) at 100° Ambient - Evaporator Temp (°F) |       |        |        |        |        |        |        |
|---------------------------------|----------------------|--|-------|--------|--------|--------|--------|--------|--------|
| Model                           | BOM                  | Refrig.  | H.P.  | -30    | -25    | -20    | -15    | -10    | -5     |
| FFAP-015Z-CFV, TFC, TFD         | 075, 072             | 22   | 1-1/2 |        |        |        |        |        |        |
|                                 |                      | 134a   | 1-1/2 |        |        |        |        |        |        |
|                                 |                      | 404A   | 1-1/2 |        | 3,710  | 4,160  | 4,650  | 5,180  | 5,750  |
|                                 |                      | 407A   | 1-1/2 |        |        |        | 4,220  | 4,790  | 5,370  |
|                                 |                      | 407C   | 1-1/2 |        |        |        |        |        |        |
| FFAP-017Z-CFV, TFC, TFD         | 075, 072             | 22   | 1-3/4 |        |        |        |        |        |        |
|                                 |                      | 134a   | 1-3/4 |        |        |        |        |        |        |
|                                 |                      | 404A   | 1-3/4 |        | 4,310  | 4,830  | 5,390  | 5,990  | 6,640  |
|                                 |                      | 407A   | 1-3/4 |        |        |        |        | 5,640  | 6,320  |
|                                 |                      | 407C   | 1-3/4 |        |        |        |        |        |        |
| FFAP-020Z-CFV, TFC, TFD         | 071, 072             | 22   | 2     |        |        |        |        |        |        |
|                                 |                      | 134a   | 2     |        |        |        |        |        |        |
|                                 |                      | 404A   | 2     |        | 5,020  | 5,630  | 6,280  | 6,990  | 7,750  |
|                                 |                      | 407A   | 2     |        |        |        |        | 6,470  | 7,250  |
|                                 |                      | 407C   | 2     |        |        |        |        |        |        |
| FFAP-022Z-CFV, TFC, TFD         | 071, 072*            | 22   | 2-1/4 |        |        |        |        |        |        |
|                                 |                      | 134a   | 2-1/4 |        |        |        |        |        |        |
|                                 |                      | 404A   | 2-1/4 |        | 6,110  | 6,860  | 7,650  | 8,510  | 9,450  |
|                                 |                      | 407A   | 2-1/4 |        |        |        |        | 7,820  | 8,760  |
|                                 |                      | 407C   | 2-1/4 |        |        |        |        |        |        |
| FFAP-030Z-CFV, TFC, TFD         | 071, 072*            | 22   | 3     |        |        |        |        |        |        |
|                                 |                      | 134a   | 3     |        |        |        |        |        |        |
|                                 |                      | 404A   | 3     | 6,120  | 6,900  | 7,750  | 8,670  | 9,660  | 10,700 |
|                                 |                      | 407A   | 3     |        |        |        | 7,870  | 8,940  | 10,000 |
|                                 |                      | 407C   | 3     |        |        |        |        |        |        |
| FFAP-032Z-CFV, TFC, TFD         | 071, 072*            | 22   | 3-1/4 |        |        |        |        |        |        |
|                                 |                      | 134a   | 3-1/4 |        |        |        |        |        |        |
|                                 |                      | 404A   | 3-1/4 |        | 9,110  | 10,200 | 11,400 | 12,600 | 14,000 |
|                                 |                      | 407A   | 3-1/4 |        |        |        |        | 10,500 | 12,100 |
|                                 |                      | 407C   | 3-1/4 |        |        |        |        |        |        |
| FFAP-040Z-CFV, TFC, TFD         | 071, 072*            | 22   | 4     |        |        |        |        |        |        |
|                                 |                      | 134a   | 4     |        |        |        |        |        |        |
|                                 |                      | 404A   | 4     | 9,150  | 10,300 | 11,600 | 13,000 | 14,600 | 16,200 |
|                                 |                      | 407A   | 4     |        |        |        | 10,500 | 12,200 | 14,100 |
|                                 |                      | 407C   | 4     |        |        |        |        |        |        |
| FFAP-042Z-CFV, TFC, TFD         | 071, 072*            | 22   | 4-1/4 |        |        |        |        |        |        |
|                                 |                      | 134a   | 4-1/4 |        |        |        |        |        |        |
|                                 |                      | 404A   | 4-1/4 | 11,500 | 13,000 | 14,600 | 16,300 | 18,200 | 20,300 |
|                                 |                      | 407A   | 4-1/4 |        |        |        | 13,600 | 15,800 | 18,200 |
|                                 |                      | 407C   | 4-1/4 |        |        |        |        |        |        |
| FFAP-050Z-CFV, TFC, TFD,<br>TFE | 071, 072**<br>075*** | 22   | 5     |        |        |        |        |        |        |
|                                 |                      | 134a   | 5     |        |        |        |        |        |        |
|                                 |                      | 404A   | 5     |        | 15,000 | 16,700 | 18,600 | 20,600 | 22,800 |
|                                 |                      | 407A   | 5     |        |        |        |        |        |        |
|                                 |                      | 407C   | 5     |        |        |        |        |        |        |

Performance @ 40°F return gas (65°F return gas for performance in bold), 5°F subcooling.

\* -TFD not available

\*\* -TFD or TFE not available

\*\*\* -TFE only

## Copeland Scroll™ air-cooled condensing units

### Capacity Data

| LOW/MED/HIGH TEMP               |                      | Capacity (BTU/Hr) at 100° Ambient - Evaporator Temp (°F) |       |        |        |        |        |        |
|---------------------------------|----------------------|--|-------|--------|--------|--------|--------|--------|
| Model                           | BOM                  | Refrig.  | H.P.  | 0      | +5     | +10    | +15    | +20    |
| FFAP-015Z-CFV, TFC, TFD         | 075, 072             | 22   | 1-1/2 | 6,270  | 7,140  | 8,020  | 8,900  | 9,800  |
|                                 |                      | 134a   | 1-1/2 | 4,000  | 4,510  | 5,060  | 5,660  | 6,300  |
|                                 |                      | 404A   | 1-1/2 | 6,350  | 7,040  | 7,760  | 8,530  | 9,370  |
|                                 |                      | 407A   | 1-1/2 | 5,970  | 6,620  | 7,300  | 8,040  | 8,820  |
|                                 |                      | 407C   | 1-1/2 | 5,230  | 6,080  | 6,960  | 7,850  | 8,750  |
| FFAP-017Z-CFV, TFC, TFD         | 075, 072             | 22   | 1-3/4 | 7,240  | 8,250  | 9,250  | 10,300 | 11,300 |
|                                 |                      | 134a   | 1-3/4 | 4,730  | 5,330  | 5,980  | 6,670  | 7,420  |
|                                 |                      | 404A   | 1-3/4 | 7,320  | 8,090  | 8,900  | 9,770  | 10,700 |
|                                 |                      | 407A   | 1-3/4 | 7,010  | 7,760  | 8,550  | 9,380  | 10,300 |
|                                 |                      | 407C   | 1-3/4 | 6,390  | 7,380  | 8,420  | 9,450  | 10,500 |
| FFAP-020Z-CFV, TFC, TFD         | 071, 072             | 22   | 2     | 8,370  | 9,540  | 10,700 | 11,900 | 13,100 |
|                                 |                      | 134a   | 2     | 5,410  | 6,100  | 6,830  | 7,630  | 8,480  |
|                                 |                      | 404A   | 2     | 8,550  | 9,450  | 10,400 | 11,400 | 12,500 |
|                                 |                      | 407A   | 2     | 8,050  | 8,910  | 9,820  | 10,800 | 11,800 |
|                                 |                      | 407C   | 2     | 7,060  | 8,200  | 9,380  | 10,600 | 11,800 |
| FFAP-022Z-CFV, TFC, TFD         | 071, 072*            | 22   | 2-1/4 | 9,940  | 11,300 | 12,700 | 14,100 | 15,600 |
|                                 |                      | 134a   | 2-1/4 | 6,450  | 7,270  | 8,160  | 9,110  | 10,100 |
|                                 |                      | 404A   | 2-1/4 | 10,400 | 11,500 | 12,700 | 14,000 | 15,300 |
|                                 |                      | 407A   | 2-1/4 | 9,730  | 10,800 | 11,900 | 13,100 | 14,300 |
|                                 |                      | 407C   | 2-1/4 | 8,770  | 10,100 | 11,500 | 12,900 | 14,400 |
| FFAP-030Z-CFV, TFC, TFD         | 071, 072*            | 22   | 3     | 11,400 | 13,000 | 14,600 | 16,200 | 17,900 |
|                                 |                      | 134a   | 3     | 7,460  | 8,420  | 9,450  | 10,600 | 11,800 |
|                                 |                      | 404A   | 3     | 11,900 | 13,200 | 14,600 | 16,000 | 17,600 |
|                                 |                      | 407A   | 3     | 11,200 | 12,400 | 13,700 | 15,100 | 16,500 |
|                                 |                      | 407C   | 3     | 9,980  | 11,600 | 13,200 | 14,900 | 16,700 |
| FFAP-032Z-CFV, TFC, TFD         | 071, 072*            | 22   | 3-1/4 | 14,900 | 17,000 | 19,100 | 21,100 | 23,300 |
|                                 |                      | 134a   | 3-1/4 | 9,860  | 11,100 | 12,400 | 13,900 | 15,400 |
|                                 |                      | 404A   | 3-1/4 | 15,400 | 17,100 | 18,800 | 20,600 | 22,600 |
|                                 |                      | 407A   | 3-1/4 | 13,700 | 15,500 | 17,300 | 19,200 | 21,200 |
|                                 |                      | 407C   | 3-1/4 | 12,900 | 14,900 | 17,000 | 19,200 | 21,400 |
| FFAP-040Z-CFV, TFC, TFD         | 071, 072*            | 22   | 4     | 17,400 | 19,900 | 22,300 | 24,800 | 27,400 |
|                                 |                      | 134a   | 4     | 11,200 | 12,700 | 14,300 | 16,000 | 17,800 |
|                                 |                      | 404A   | 4     | 18,000 | 20,000 | 22,200 | 24,500 | 27,000 |
|                                 |                      | 407A   | 4     | 16,000 | 18,100 | 20,300 | 22,600 | 25,100 |
|                                 |                      | 407C   | 4     | 15,800 | 18,200 | 20,800 | 23,400 | 26,100 |
| FFAP-042Z-CFV, TFC, TFD         | 071, 072*            | 22   | 4-1/4 | 21,300 | 24,300 | 27,300 | 30,300 | 33,400 |
|                                 |                      | 134a   | 4-1/4 | 13,800 | 15,600 | 17,500 | 19,600 | 21,800 |
|                                 |                      | 404A   | 4-1/4 | 22,400 | 24,900 | 27,500 | 30,300 | 33,400 |
|                                 |                      | 407A   | 4-1/4 | 20,700 | 23,400 | 26,200 | 29,200 | 32,300 |
|                                 |                      | 407C   | 4-1/4 | 18,300 | 21,300 | 24,300 | 27,400 | 30,600 |
| FFAP-050Z-CFV, TFC, TFD,<br>TFE | 071, 072**<br>075*** | 22   | 5     | 25,000 | 27,700 | 30,500 | 33,600 | 36,900 |
|                                 |                      | 134a   | 5     | 15,600 | 17,600 | 19,700 | 22,000 | 24,500 |
|                                 |                      | 404A   | 5     | 25,000 | 27,500 | 30,100 | 32,900 | 35,800 |
|                                 |                      | 407A   | 5     |        |        |        |        |        |
|                                 |                      | 407C   | 5     | 19,500 | 22,500 | 25,800 | 29,500 | 33,400 |

Performance @ 40°F return gas (65°F return gas for performance in bold), 5°F subcooling.

\* -TFD not available

\*\* -TFD or TFE not available

\*\*\* -TFE only



## Copeland Scroll™ air-cooled condensing units

### Capacity Data

| LOW/MED/HIGH TEMP               |                      | Cap. (BTU/Hr) at 100° F Ambient - Evaporator Temp (°F) |       |               |               |               |               |               |
|---------------------------------|----------------------|--|-------|---------------|---------------|---------------|---------------|---------------|
| Model                           | BOM                  | Refrig.  | H.P.  | +25           | +30           | +35           | +40           | +45           |
| FFAP-015Z-CFV, TFC, TFD         | 075, 072             | 22   | 1-1/2 | <b>10,800</b> | <b>11,800</b> | <b>12,900</b> | <b>14,000</b> | <b>15,200</b> |
|                                 |                      | 134a   | 1-1/2 | <b>7,130</b>  | <b>7,890</b>  | <b>8,690</b>  | <b>9,560</b>  | <b>10,500</b> |
|                                 |                      | 404A   | 1-1/2 | <b>10,600</b> | <b>11,500</b> | <b>12,400</b> | <b>13,300</b> | <b>14,300</b> |
|                                 |                      | 407A   | 1-1/2 | <b>10,000</b> | <b>11,000</b> | <b>12,000</b> | <b>13,100</b> | <b>14,400</b> |
|                                 |                      | 407C   | 1-1/2 | <b>9,830</b>  | <b>10,800</b> | <b>11,800</b> | <b>12,800</b> | <b>13,900</b> |
| FFAP-017Z-CFV, TFC, TFD         | 075, 072             | 22   | 1-3/4 | <b>12,400</b> | <b>13,600</b> | <b>14,800</b> | <b>16,100</b> | <b>17,500</b> |
|                                 |                      | 134a   | 1-3/4 | <b>8,400</b>  | <b>9,280</b>  | <b>10,200</b> | <b>11,200</b> | <b>12,300</b> |
|                                 |                      | 404A   | 1-3/4 | <b>12,000</b> | <b>13,100</b> | <b>14,200</b> | <b>15,500</b> | <b>17,000</b> |
|                                 |                      | 407A   | 1-3/4 | <b>11,600</b> | <b>12,700</b> | <b>13,900</b> | <b>15,200</b> | <b>16,600</b> |
|                                 |                      | 407C   | 1-3/4 | <b>11,800</b> | <b>12,900</b> | <b>14,100</b> | <b>15,300</b> | <b>16,500</b> |
| FFAP-020Z-CFV, TFC, TFD         | 071, 072             | 22   | 2     | <b>14,400</b> | <b>15,700</b> | <b>17,100</b> | <b>18,600</b> | <b>20,200</b> |
|                                 |                      | 134a   | 2     | <b>9,600</b>  | <b>10,600</b> | <b>11,700</b> | <b>12,800</b> | <b>14,100</b> |
|                                 |                      | 404A   | 2     | <b>14,200</b> | <b>15,300</b> | <b>16,500</b> | <b>17,700</b> | <b>19,000</b> |
|                                 |                      | 407A   | 2     | <b>13,400</b> | <b>14,700</b> | <b>16,000</b> | <b>17,500</b> | <b>19,100</b> |
|                                 |                      | 407C   | 2     | <b>13,200</b> | <b>14,500</b> | <b>15,800</b> | <b>17,200</b> | <b>18,600</b> |
| FFAP-022Z-CFV, TFC, TFD         | 071, 072*            | 22   | 2-1/4 | <b>17,300</b> | <b>18,900</b> | <b>20,600</b> | <b>22,300</b> | <b>24,200</b> |
|                                 |                      | 134a   | 2-1/4 | <b>11,600</b> | <b>12,900</b> | <b>14,200</b> | <b>15,600</b> | <b>17,100</b> |
|                                 |                      | 404A   | 2-1/4 | <b>17,400</b> | <b>19,000</b> | <b>20,700</b> | <b>22,500</b> | <b>24,700</b> |
|                                 |                      | 407A   | 2-1/4 | <b>16,200</b> | <b>17,800</b> | <b>19,400</b> | <b>21,200</b> | <b>23,200</b> |
|                                 |                      | 407C   | 2-1/4 | <b>16,400</b> | <b>18,000</b> | <b>19,600</b> | <b>21,300</b> | <b>23,100</b> |
| FFAP-030Z-CFV, TFC, TFD         | 071, 072*            | 22   | 3     | <b>19,700</b> | <b>21,500</b> | <b>23,500</b> | <b>25,600</b> | <b>27,900</b> |
|                                 |                      | 134a   | 3     | <b>13,300</b> | <b>14,700</b> | <b>16,300</b> | <b>17,900</b> | <b>19,700</b> |
|                                 |                      | 404A   | 3     | <b>20,000</b> | <b>21,700</b> | <b>23,400</b> | <b>25,300</b> | <b>27,200</b> |
|                                 |                      | 407A   | 3     | <b>18,800</b> | <b>20,600</b> | <b>22,600</b> | <b>24,700</b> | <b>27,100</b> |
|                                 |                      | 407C   | 3     | <b>18,700</b> | <b>20,600</b> | <b>22,500</b> | <b>24,800</b> | <b>27,300</b> |
| FFAP-032Z-CFV, TFC, TFD         | 071, 072*            | 22   | 3-1/4 | <b>25,800</b> | <b>28,100</b> | <b>30,600</b> | <b>33,100</b> | <b>35,800</b> |
|                                 |                      | 134a   | 3-1/4 | <b>17,400</b> | <b>19,300</b> | <b>21,200</b> | <b>23,300</b> | <b>25,500</b> |
|                                 |                      | 404A   | 3-1/4 | <b>25,300</b> | <b>27,300</b> | <b>29,400</b> | <b>31,600</b> | <b>33,800</b> |
|                                 |                      | 407A   | 3-1/4 | <b>24,100</b> | <b>26,400</b> | <b>28,800</b> | <b>31,300</b> | <b>33,900</b> |
|                                 |                      | 407C   | 3-1/4 | <b>24,000</b> | <b>26,300</b> | <b>28,700</b> | <b>31,200</b> | <b>33,700</b> |
| FFAP-040Z-CFV, TFC, TFD         | 071, 072*            | 22   | 4     | <b>30,100</b> | <b>33,100</b> | <b>36,200</b> | <b>39,600</b> | <b>43,200</b> |
|                                 |                      | 134a   | 4     | <b>20,200</b> | <b>22,400</b> | <b>24,800</b> | <b>27,400</b> | <b>30,100</b> |
|                                 |                      | 404A   | 4     | <b>31,600</b> | <b>34,600</b> | <b>37,900</b> | <b>41,400</b> | <b>45,800</b> |
|                                 |                      | 407A   | 4     | <b>28,600</b> | <b>31,500</b> | <b>34,600</b> | <b>37,800</b> | <b>41,300</b> |
|                                 |                      | 407C   | 4     | <b>29,300</b> | <b>32,200</b> | <b>35,300</b> | <b>38,900</b> | <b>42,900</b> |
| FFAP-042Z-CFV, TFC, TFD         | 071, 072*            | 22   | 4-1/4 | <b>36,800</b> | <b>40,300</b> | <b>44,000</b> | <b>48,000</b> | <b>52,500</b> |
|                                 |                      | 134a   | 4-1/4 | <b>24,700</b> | <b>27,400</b> | <b>30,300</b> | <b>33,300</b> | <b>36,600</b> |
|                                 |                      | 404A   | 4-1/4 | <b>37,800</b> | <b>41,400</b> | <b>45,400</b> | <b>49,900</b> | <b>54,500</b> |
|                                 |                      | 407A   | 4-1/4 | <b>36,900</b> | <b>40,500</b> | <b>44,400</b> | <b>48,500</b> | <b>53,500</b> |
|                                 |                      | 407C   | 4-1/4 | <b>34,400</b> | <b>37,900</b> | <b>41,400</b> | <b>45,200</b> | <b>49,000</b> |
| FFAP-050Z-CFV, TFC, TFD,<br>TFE | 071, 072**<br>075*** | 22   | 5     | <b>40,900</b> | <b>44,700</b> | <b>48,700</b> | <b>53,000</b> | <b>57,500</b> |
|                                 |                      | 134a   | 5     | <b>27,800</b> | <b>30,800</b> | <b>33,900</b> | <b>37,200</b> | <b>40,700</b> |
|                                 |                      | 404A   | 5     | <b>41,800</b> | <b>45,300</b> | <b>49,000</b> | <b>53,000</b> | <b>57,000</b> |
|                                 |                      | 407A   | 5     |               |               |               |               |               |
|                                 |                      | 407C   | 5     | <b>38,600</b> | <b>43,000</b> | <b>47,400</b> | <b>51,900</b> | <b>56,300</b> |

Performance @ 40°F return gas (65°F return gas for performance in bold), 5°F subcooling.

\* -TFD not available

\*\* -TFD or TFE not available

\*\*\* -TFE only

## Copeland Scroll™ air-cooled condensing units

### Capacity Data

| LOW/MED/HIGH TEMP               |                      | Capacity (BTU/Hr) at 110° Ambient - Evaporator Temp (°F) |       |     |        |        |        |        |        |
|---------------------------------|----------------------|--|-------|-----|--------|--------|--------|--------|--------|
| Model                           | BOM                  | Refrig.  | H.P.  | -30 | -25    | -20    | -15    | -10    | -5     |
| FFAP-015Z-CFV, TFC, TFD         | 075, 072             | 22   | 1-1/2 |     |        |        |        |        |        |
|                                 |                      | 134a   | 1-1/2 |     |        |        |        |        |        |
|                                 |                      | 404A   | 1-1/2 |     | 3,410  | 3,820  | 4,250  | 4,720  | 5,220  |
|                                 |                      | 407A   | 1-1/2 |     |        |        |        |        |        |
|                                 |                      | 407C   | 1-1/2 |     |        |        |        |        |        |
| FFAP-017Z-CFV, TFC, TFD         | 075, 072             | 22   | 1-3/4 |     |        |        |        |        |        |
|                                 |                      | 134a   | 1-3/4 |     |        |        |        |        |        |
|                                 |                      | 404A   | 1-3/4 |     |        | 4,420  | 4,910  | 5,440  | 6,010  |
|                                 |                      | 407A   | 1-3/4 |     |        |        |        |        |        |
|                                 |                      | 407C   | 1-3/4 |     |        |        |        |        |        |
| FFAP-020Z-CFV, TFC, TFD         | 071, 072             | 22   | 2     |     |        |        |        |        |        |
|                                 |                      | 134a   | 2     |     |        |        |        |        |        |
|                                 |                      | 404A   | 2     |     |        | 5,150  | 5,730  | 6,350  | 7,020  |
|                                 |                      | 407A   | 2     |     |        |        |        |        |        |
|                                 |                      | 407C   | 2     |     |        |        |        |        |        |
| FFAP-022Z-CFV, TFC, TFD         | 071, 072*            | 22   | 2-1/4 |     |        |        |        |        |        |
|                                 |                      | 134a   | 2-1/4 |     |        |        |        |        |        |
|                                 |                      | 404A   | 2-1/4 |     | 5,630  | 6,290  | 6,990  | 7,750  | 8,580  |
|                                 |                      | 407A   | 2-1/4 |     |        |        |        |        |        |
|                                 |                      | 407C   | 2-1/4 |     |        |        |        |        |        |
| FFAP-030Z-CFV, TFC, TFD         | 071, 072*            | 22   | 3     |     |        |        |        |        |        |
|                                 |                      | 134a   | 3     |     |        |        |        |        |        |
|                                 |                      | 404A   | 3     |     |        |        | 7,930  | 8,810  | 9,770  |
|                                 |                      | 407A   | 3     |     |        |        |        |        | 9,290  |
|                                 |                      | 407C   | 3     |     |        |        |        |        |        |
| FFAP-032Z-CFV, TFC, TFD         | 071, 072*            | 22   | 3-1/4 |     |        |        |        |        |        |
|                                 |                      | 134a   | 3-1/4 |     |        |        |        |        |        |
|                                 |                      | 404A   | 3-1/4 |     |        | 9,320  | 10,400 | 11,500 | 12,700 |
|                                 |                      | 407A   | 3-1/4 |     |        |        |        |        |        |
|                                 |                      | 407C   | 3-1/4 |     |        |        |        |        |        |
| FFAP-040Z-CFV, TFC, TFD         | 071, 072*            | 22   | 4     |     |        |        |        |        |        |
|                                 |                      | 134a   | 4     |     |        |        |        |        |        |
|                                 |                      | 404A   | 4     |     | 9,560  | 10,700 | 12,000 | 13,400 | 14,800 |
|                                 |                      | 407A   | 4     |     |        |        |        |        | 13,100 |
|                                 |                      | 407C   | 4     |     |        |        |        |        |        |
| FFAP-042Z-CFV, TFC, TFD         | 071, 072*            | 22   | 4-1/4 |     |        |        |        |        |        |
|                                 |                      | 134a   | 4-1/4 |     |        |        |        |        |        |
|                                 |                      | 404A   | 4-1/4 |     | 12,000 | 13,400 | 15,000 | 16,700 | 18,500 |
|                                 |                      | 407A   | 4-1/4 |     |        |        |        |        |        |
|                                 |                      | 407C   | 4-1/4 |     |        |        |        |        |        |
| FFAP-050Z-CFV, TFC, TFD,<br>TFE | 071, 072**<br>075*** | 22   | 5     |     |        |        |        |        |        |
|                                 |                      | 134a   | 5     |     |        |        |        |        |        |
|                                 |                      | 404A   | 5     |     |        | 15,200 | 16,900 | 18,700 | 20,600 |
|                                 |                      | 407A   | 5     |     |        |        |        |        |        |
|                                 |                      | 407C   | 5     |     |        |        |        |        |        |

Performance @ 40°F return gas (65°F return gas for performance in bold), 5°F subcooling.

\* -TFD not available

\*\* -TFD or TFE not available

\*\*\* -TFE only

## Copeland Scroll™ air-cooled condensing units

### Capacity Data

| LOW/MED/HIGH TEMP               |                      | Capacity (BTU/Hr) at 110° Ambient - Evaporator Temp (°F) |       |        |        |        |        |        |
|---------------------------------|----------------------|--|-------|--------|--------|--------|--------|--------|
| Model                           | BOM                  | Refrig.  | H.P.  | 0      | +5     | +10    | +15    | +20    |
| FFAP-015Z-CFV, TFC, TFD         | 075, 072             | 22   | 1-1/2 | 5,770  | 6,630  | 7,480  | 8,330  | 9,190  |
|                                 |                      | 134a   | 1-1/2 | 3,750  | 4,230  | 4,740  | 5,290  | 5,880  |
|                                 |                      | 404A   | 1-1/2 | 5,750  | 6,360  | 7,000  | 7,680  | 8,430  |
|                                 |                      | 407A   | 1-1/2 | 5,520  | 6,120  | 6,740  | 7,410  | 8,140  |
|                                 |                      | 407C   | 1-1/2 | 4,780  | 5,620  | 6,470  | 7,320  | 8,180  |
| FFAP-017Z-CFV, TFC, TFD         | 075, 072             | 22   | 1-3/4 | 6,660  | 7,650  | 8,620  | 9,600  | 10,600 |
|                                 |                      | 134a   | 1-3/4 | 4,430  | 4,990  | 5,590  | 6,230  | 6,920  |
|                                 |                      | 404A   | 1-3/4 | 6,600  | 7,290  | 8,000  | 8,770  | 9,590  |
|                                 |                      | 407A   | 1-3/4 | 6,480  | 7,170  | 7,890  | 8,650  | 9,480  |
|                                 |                      | 407C   | 1-3/4 | 5,860  | 6,820  | 7,820  | 8,810  | 9,820  |
| FFAP-020Z-CFV, TFC, TFD         | 071, 072             | 22   | 2     | 7,700  | 8,850  | 9,980  | 11,100 | 12,300 |
|                                 |                      | 134a   | 2     | 5,060  | 5,700  | 6,390  | 7,120  | 7,920  |
|                                 |                      | 404A   | 2     | 7,720  | 8,520  | 9,360  | 10,300 | 11,200 |
|                                 |                      | 407A   | 2     | 7,440  | 8,240  | 9,060  | 9,950  | 10,900 |
|                                 |                      | 407C   | 2     | 6,430  | 7,550  | 8,690  | 9,830  | 11,000 |
| FFAP-022Z-CFV, TFC, TFD         | 071, 072*            | 22   | 2-1/4 | 9,160  | 10,500 | 11,900 | 13,200 | 14,600 |
|                                 |                      | 134a   | 2-1/4 | 6,040  | 6,810  | 7,630  | 8,520  | 9,480  |
|                                 |                      | 404A   | 2-1/4 | 9,430  | 10,400 | 11,500 | 12,600 | 13,800 |
|                                 |                      | 407A   | 2-1/4 | 9,000  | 9,970  | 11,000 | 12,100 | 13,200 |
|                                 |                      | 407C   | 2-1/4 | 8,050  | 9,390  | 10,700 | 12,100 | 13,500 |
| FFAP-030Z-CFV, TFC, TFD         | 071, 072*            | 22   | 3     | 10,500 | 12,100 | 13,600 | 15,200 | 16,800 |
|                                 |                      | 134a   | 3     | 7,010  | 7,900  | 8,860  | 9,890  | 11,000 |
|                                 |                      | 404A   | 3     | 10,800 | 11,900 | 13,200 | 14,500 | 15,900 |
|                                 |                      | 407A   | 3     | 10,300 | 11,400 | 12,600 | 13,900 | 15,300 |
|                                 |                      | 407C   | 3     | 9,160  | 10,800 | 12,400 | 14,000 | 15,700 |
| FFAP-032Z-CFV, TFC, TFD         | 071, 072*            | 22   | 3-1/4 | 13,700 | 15,800 | 17,800 | 19,800 | 21,800 |
|                                 |                      | 134a   | 3-1/4 | 9,230  | 10,400 | 11,600 | 13,000 | 14,400 |
|                                 |                      | 404A   | 3-1/4 | 13,900 | 15,400 | 16,900 | 18,500 | 20,200 |
|                                 |                      | 407A   | 3-1/4 |        | 14,700 | 16,400 | 18,100 | 20,000 |
|                                 |                      | 407C   | 3-1/4 | 11,700 | 13,700 | 15,800 | 17,800 | 19,900 |
| FFAP-040Z-CFV, TFC, TFD         | 071, 072*            | 22   | 4     | 16,100 | 18,500 | 20,900 | 23,300 | 25,800 |
|                                 |                      | 134a   | 4     | 10,500 | 11,900 | 13,400 | 15,000 | 16,700 |
|                                 |                      | 404A   | 4     | 16,400 | 18,200 | 20,200 | 22,300 | 24,500 |
|                                 |                      | 407A   | 4     | 14,900 | 16,900 | 18,900 | 21,100 | 23,400 |
|                                 |                      | 407C   | 4     | 14,600 | 17,000 | 19,500 | 22,000 | 24,600 |
| FFAP-042Z-CFV, TFC, TFD         | 071, 072*            | 22   | 4-1/4 | 19,700 | 22,600 | 25,500 | 28,400 | 31,400 |
|                                 |                      | 134a   | 4-1/4 | 12,900 | 14,600 | 16,400 | 18,400 | 20,400 |
|                                 |                      | 404A   | 4-1/4 | 20,400 | 22,600 | 25,000 | 27,500 | 30,200 |
|                                 |                      | 407A   | 4-1/4 | 19,500 | 22,100 | 24,700 | 27,500 | 30,400 |
|                                 |                      | 407C   | 4-1/4 | 16,800 | 19,700 | 22,600 | 25,600 | 28,700 |
| FFAP-050Z-CFV, TFC, TFD,<br>TFE | 071, 072**<br>075*** | 22   | 5     | 23,900 | 26,300 | 28,900 | 31,800 | 34,800 |
|                                 |                      | 134a   | 5     | 14,700 | 16,500 | 18,500 | 20,700 | 23,000 |
|                                 |                      | 404A   | 5     | 22,600 | 24,800 | 27,100 | 29,600 | 32,200 |
|                                 |                      | 407A   | 5     |        |        |        |        |        |
|                                 |                      | 407C   | 5     | 17,900 | 20,600 | 23,600 | 26,900 | 30,600 |

Performance @ 40°F return gas (65°F return gas for performance in bold), 5°F subcooling.

\* -TFD not available

\*\* -TFD or TFE not available

\*\*\* -TFE only

## Copeland Scroll™ air-cooled condensing units

### Capacity Data

| LOW/MED/HIGH TEMP               |                      | Capacity (BTU/Hr) at 110° Ambient - Evaporator Temp (°F) |       |               |               |               |               |               |
|---------------------------------|----------------------|--|-------|---------------|---------------|---------------|---------------|---------------|
| Model                           | BOM                  | Refrig.  | H.P.  | +25           | +30           | +35           | +40           | +45           |
| FFAP-015Z-CFV, TFC, TFD         | 075, 072             | 22   | 1-1/2 | <b>11,400</b> | <b>11,100</b> | <b>12,200</b> | <b>13,200</b> |               |
|                                 |                      | 134a   | 1-1/2 | <b>6,690</b>  | <b>7,390</b>  | <b>8,150</b>  | <b>8,970</b>  | <b>9,840</b>  |
|                                 |                      | 404A   | 1-1/2 | <b>9,910</b>  | <b>10,700</b> | <b>11,500</b> | <b>12,300</b> | <b>13,200</b> |
|                                 |                      | 407A   | 1-1/2 | <b>9,270</b>  | <b>10,200</b> | <b>11,100</b> | <b>12,200</b> | <b>13,300</b> |
|                                 |                      | 407C   | 1-1/2 | <b>9,060</b>  | <b>10,080</b> | <b>11,100</b> | <b>12,100</b> | <b>13,100</b> |
| FFAP-017Z-CFV, TFC, TFD         | 075, 072             | 22   | 1-3/4 | <b>11,700</b> | <b>12,800</b> |               |               |               |
|                                 |                      | 134a   | 1-3/4 | <b>7,860</b>  | <b>8,680</b>  | <b>9,560</b>  | <b>10,500</b> | <b>11,500</b> |
|                                 |                      | 404A   | 1-3/4 | <b>10,800</b> | <b>11,800</b> | <b>12,900</b> |               |               |
|                                 |                      | 407A   | 1-3/4 | <b>10,800</b> | <b>11,800</b> | <b>12,900</b> | <b>14,100</b> | <b>15,400</b> |
|                                 |                      | 407C   | 1-3/4 | <b>10,800</b> | <b>12,000</b> | <b>13,200</b> | <b>14,300</b> | <b>15,500</b> |
| FFAP-020Z-CFV, TFC, TFD         | 071, 072             | 22   | 2     | <b>13,500</b> | <b>14,800</b> | <b>16,200</b> |               |               |
|                                 |                      | 134a   | 2     | <b>8,990</b>  | <b>9,930</b>  | <b>10,900</b> | <b>12,000</b> | <b>13,200</b> |
|                                 |                      | 404A   | 2     | <b>13,300</b> | <b>14,400</b> | <b>15,400</b> | <b>16,500</b> | <b>17,600</b> |
|                                 |                      | 407A   | 2     | <b>12,400</b> | <b>13,600</b> | <b>14,800</b> | <b>16,200</b> | <b>17,700</b> |
|                                 |                      | 407C   | 2     | <b>12,200</b> | <b>13,550</b> | <b>14,900</b> | <b>16,200</b> | <b>17,500</b> |
| FFAP-022Z-CFV, TFC, TFD         | 071, 072*            | 22   | 2-1/4 | <b>16,300</b> | <b>17,800</b> | <b>19,400</b> | <b>21,100</b> | <b>22,800</b> |
|                                 |                      | 134a   | 2-1/4 | <b>10,900</b> | <b>12,100</b> | <b>13,300</b> | <b>14,600</b> | <b>16,100</b> |
|                                 |                      | 404A   | 2-1/4 | <b>15,800</b> | <b>17,300</b> | <b>18,800</b> | <b>20,600</b> | <b>22,600</b> |
|                                 |                      | 407A   | 2-1/4 | <b>15,000</b> | <b>16,500</b> | <b>18,000</b> | <b>19,700</b> | <b>21,500</b> |
|                                 |                      | 407C   | 2-1/4 | <b>15,400</b> | <b>17,000</b> | <b>18,500</b> | <b>20,100</b> | <b>21,700</b> |
| FFAP-030Z-CFV, TFC, TFD         | 071, 072*            | 22   | 3     | <b>18,500</b> | <b>20,300</b> | <b>22,200</b> | <b>24,200</b> | <b>26,400</b> |
|                                 |                      | 134a   | 3     | <b>12,500</b> | <b>13,800</b> | <b>15,300</b> | <b>16,800</b> | <b>18,400</b> |
|                                 |                      | 404A   | 3     | <b>18,600</b> | <b>20,100</b> | <b>21,700</b> | <b>23,300</b> | <b>25,000</b> |
|                                 |                      | 407A   | 3     | <b>17,400</b> | <b>19,100</b> | <b>20,900</b> | <b>22,900</b> | <b>25,100</b> |
|                                 |                      | 407C   | 3     | <b>17,700</b> | <b>19,500</b> | <b>21,300</b> | <b>23,500</b> | <b>25,800</b> |
| FFAP-032Z-CFV, TFC, TFD         | 071, 072*            | 22   | 3-1/4 | <b>24,300</b> | <b>26,500</b> | <b>28,800</b> | <b>31,200</b> | <b>33,700</b> |
|                                 |                      | 134a   | 3-1/4 | <b>16,300</b> | <b>18,000</b> | <b>19,800</b> | <b>21,800</b> | <b>23,800</b> |
|                                 |                      | 404A   | 3-1/4 | <b>23,800</b> | <b>25,600</b> | <b>27,500</b> | <b>29,400</b> | <b>31,400</b> |
|                                 |                      | 407A   | 3-1/4 | <b>22,900</b> | <b>25,000</b> | <b>27,200</b> | <b>29,500</b> | <b>32,000</b> |
|                                 |                      | 407C   | 3-1/4 | <b>22,500</b> | <b>24,700</b> | <b>27,000</b> | <b>29,300</b> | <b>31,700</b> |
| FFAP-040Z-CFV, TFC, TFD         | 071, 072*            | 22   | 4     | <b>28,500</b> | <b>31,300</b> | <b>34,300</b> | <b>37,500</b> | <b>40,900</b> |
|                                 |                      | 134a   | 4     | <b>19,000</b> | <b>21,100</b> | <b>23,300</b> | <b>25,700</b> | <b>28,300</b> |
|                                 |                      | 404A   | 4     | <b>28,800</b> | <b>31,600</b> | <b>34,700</b> | <b>38,000</b> | <b>42,100</b> |
|                                 |                      | 407A   | 4     | <b>26,800</b> | <b>29,400</b> | <b>32,300</b> | <b>35,300</b> | <b>38,500</b> |
|                                 |                      | 407C   | 4     | <b>27,800</b> | <b>30,600</b> | <b>33,500</b> | <b>36,900</b> | <b>40,700</b> |
| FFAP-042Z-CFV, TFC, TFD         | 071, 072*            | 22   | 4-1/4 | <b>34,700</b> | <b>38,100</b> | <b>41,700</b> | <b>45,500</b> | <b>49,600</b> |
|                                 |                      | 134a   | 4-1/4 | <b>23,300</b> | <b>25,800</b> | <b>28,500</b> | <b>31,300</b> | <b>34,400</b> |
|                                 |                      | 404A   | 4-1/4 | <b>34,500</b> | <b>37,900</b> | <b>41,600</b> | <b>45,700</b> | <b>50,000</b> |
|                                 |                      | 407A   | 4-1/4 | <b>34,900</b> | <b>38,300</b> | <b>41,900</b> | <b>45,700</b> | <b>50,000</b> |
|                                 |                      | 407C   | 4-1/4 | <b>32,400</b> | <b>35,700</b> | <b>39,100</b> | <b>42,600</b> | <b>46,200</b> |
| FFAP-050Z-CFV, TFC, TFD,<br>TFE | 071, 072**<br>075*** | 22   | 5     | <b>38,600</b> | <b>42,200</b> | <b>45,900</b> | <b>49,900</b> | <b>54,000</b> |
|                                 |                      | 134a   | 5     | <b>26,200</b> | <b>29,000</b> | <b>31,900</b> | <b>35,100</b> | <b>38,400</b> |
|                                 |                      | 404A   | 5     | <b>37,900</b> | <b>41,100</b> | <b>44,500</b> | <b>48,100</b> | <b>52,000</b> |
|                                 |                      | 407A   | 5     |               |               |               |               |               |
|                                 |                      | 407C   | 5     | <b>35,600</b> | <b>39,700</b> | <b>43,900</b> | <b>48,100</b> | <b>52,400</b> |

Performance @ 40°F return gas (65°F return gas for performance in bold), 5°F subcooling.

\* -TFD not available

\*\* -TFD or TFE not available

\*\*\* -TFE only

# Copeland Scroll™ air-cooled condensing units

## Physical and Electrical Data

| Model                        | Refrig. | Comp                       | Overall Dimensions (in) |      |      | Refrigerant Connecting Lines (in) |        | Minimum Circuit Ampacity - Max Fuse Size |           |           |           | Pump Down Capacity (lbs) | Ship Weight (lbs) |
|------------------------------|---------|----------------------------|-------------------------|------|------|-----------------------------------|--------|--|-----------|-----------|-----------|--------------------------|-------------------|
|                              |         |                            | L                       | W    | H    | Suction                           | Liquid | 208/230-1                                | 230-3     | 460-3     | 575-3     |                          |                   |
| FFAP-015Z-CFV, TFC, TFD      | 22      | ZS09KAE-PFV, TF5, TFD      | 24.0                    | 18.3 | 16.6 | 7/8 S                             | 3/8 S  | 13.9 - 20                                | 11.4 - 15 | 6.4 - 15  |           | 7.4                      | 130               |
|                              | 134a    |                            |                         |      |      |                                   |        |  |           |           |           | 7.5                      |                   |
|                              | 404A    |                            |                         |      |      |                                   |        |  |           |           |           | 6.4                      |                   |
|                              | 407A    |                            |                         |      |      |                                   |        |  |           |           |           | 7.0                      |                   |
|                              | 407C    |                            |                         |      |      |                                   |        |  |           |           |           | 6.9                      |                   |
| FFAP-017Z-CFV, TFC, TFD      | 22      | ZS11KAE-PFV, TF5, TFD      | 24.1                    | 18.3 | 16.6 | 7/8 S                             | 3/8 S  | 17.2 - 25                                | 14.4 - 20 | 7.0 - 15  |           | 13                       | 191               |
|                              | 134a    |                            |                         |      |      |                                   |        |  |           |           |           | 13.1                     |                   |
|                              | 404A    |                            |                         |      |      |                                   |        |  |           |           |           | 11.2                     |                   |
|                              | 407A    |                            |                         |      |      |                                   |        |  |           |           |           | 12.2                     |                   |
|                              | 407C    |                            |                         |      |      |                                   |        |  |           |           |           | 11.4                     |                   |
| FFAP-020Z-CFV, TFC, TFD      | 22      | ZS13KAE-PFV, TF5, TFD      | 25.2                    | 34   | 19   | 7/8 S                             | 3/8 S  | 16.8 - 25                                | 13.9 - 20 | 7.1 - 15  |           | 13                       | 191               |
|                              | 134a    |                            |                         |      |      |                                   |        |  |           |           |           | 13.1                     |                   |
|                              | 404A    |                            |                         |      |      |                                   |        |  |           |           |           | 11.2                     |                   |
|                              | 407A    |                            |                         |      |      |                                   |        |  |           |           |           | 12.2                     |                   |
|                              | 407C    |                            |                         |      |      |                                   |        |  |           |           |           | 11.4                     |                   |
| FFAP-022Z-CFV, TFC, TFD      | 22      | ZS15KAE-PFV, TF5, TFD      | 25.2                    | 34   | 19   | 7/8 S                             | 3/8 S  | 22.4 - 35                                | 16.1 - 20 | 10 - 15   |           | 13                       | 209               |
|                              | 134a    |                            |                         |      |      |                                   |        |  |           |           |           | 13.1                     |                   |
|                              | 404A    |                            |                         |      |      |                                   |        |  |           |           |           | 11.2                     |                   |
|                              | 407A    |                            |                         |      |      |                                   |        |  |           |           |           | 12.2                     |                   |
|                              | 407C    |                            |                         |      |      |                                   |        |  |           |           |           | 11.4                     |                   |
| FFAP-030Z-CFV, TFC, TFD      | 22      | ZS19KAE-PFV, TF5, TFD      | 25.2                    | 34.1 | 19   | 7/8 S                             | 3/8 S  | 25.3 - 40                                | 19.9 - 30 | 11.3 - 15 |           | 13                       | 209               |
|                              | 134a    |                            |                         |      |      |                                   |        |  |           |           |           | 13.1                     |                   |
|                              | 404A    |                            |                         |      |      |                                   |        |  |           |           |           | 11.2                     |                   |
|                              | 407A    |                            |                         |      |      |                                   |        |  |           |           |           | 12.2                     |                   |
|                              | 407C    |                            |                         |      |      |                                   |        |  |           |           |           | 11.4                     |                   |
| FFAP-032Z-CFV, TFC, TFD      | 22      | ZS21KAE-PFV, TF5, TFD      | 25.2                    | 34.1 | 19   | 7/8 S                             | 3/8 S  | 31.8 - 50                                | 21.8 - 30 | 11.8 - 15 |           | 21.5                     | 290               |
|                              | 134a    |                            |                         |      |      |                                   |        |  |           |           |           | 21.8                     |                   |
|                              | 404A    |                            |                         |      |      |                                   |        |  |           |           |           | 18.7                     |                   |
|                              | 407A    |                            |                         |      |      |                                   |        |  |           |           |           | 20.3                     |                   |
|                              | 407C    |                            |                         |      |      |                                   |        |  |           |           |           | 18.3                     |                   |
| FFAP-040Z-CFV, TFC, TFD      | 22      | ZS26KAE-PFV, TF5, TFD      | 28.2                    | 44.1 | 26.8 | 1 1/8 S                           | 1/2 S  | 33.1 - 50                                | 23 - 35   | 11 - 15   |           | 21.5                     | 296               |
|                              | 134a    |                            |                         |      |      |                                   |        |  |           |           |           | 21.8                     |                   |
|                              | 404A    |                            |                         |      |      |                                   |        |  |           |           |           | 18.7                     |                   |
|                              | 407A    |                            |                         |      |      |                                   |        |  |           |           |           | 20.3                     |                   |
|                              | 407C    |                            |                         |      |      |                                   |        |  |           |           |           | 18.3                     |                   |
| FFAP-042Z-CFV, TFC, TFD      | 22      | ZS33KAE-PFV, TF5, TFD      | 28.2                    | 44.1 | 26.8 | 1 1/8 S                           | 1/2 S  | 38.9 - 60                                | 31.5 - 50 | 14.9 - 20 |           | 21.5                     | 296               |
|                              | 134a    |                            |                         |      |      |                                   |        |  |           |           |           | 21.8                     |                   |
|                              | 404A    |                            |                         |      |      |                                   |        |  |           |           |           | 18.7                     |                   |
|                              | 407A    |                            |                         |      |      |                                   |        |  |           |           |           | 20.3                     |                   |
|                              | 407C    |                            |                         |      |      |                                   |        |  |           |           |           | 18.3                     |                   |
| FFAP-050Z-CFV, TFC, TFD, TFE | 22      | ZS38K4E-PFV, TF5, TFD, TFE | 28.6                    | 44.1 | 26.9 | 1 1/8 S                           | 1/2 S  | 43.4 - 70                                | 30.4 - 45 | 14.4 - 20 | 11.9 - 15 | 21.5                     | 297               |
|                              | 134a    |                            |                         |      |      |                                   |        |  |           |           |           | 21.8                     |                   |
|                              | 404A    |                            |                         |      |      |                                   |        |  |           |           |           | 18.7                     |                   |
|                              | 407A    |                            |                         |      |      |                                   |        |  |           |           |           | 20.3                     |                   |
|                              | 407C    |                            |                         |      |      |                                   |        |  |           |           |           |                          |                   |

Pumpdown capacity is receiver volume only at 90%, 90°F ambient.

### Hood Selection

| Copeland™ Model | Flex-Line Hood |
|-----------------|----------------|
| FFAP-015Z       | 505-7066-01    |
| FFAP-017Z       | 505-7066-01    |
| FFAP-020Z       | 505-7066-02    |
| FFAP-022Z       | 505-7066-02    |
| FFAP-030Z       | 505-7066-02    |
| FFAP-032Z       | 505-7066-02    |
| FFAP-040Z       | 505-7066-03    |
| FFAP-042Z       | 505-7066-03    |
| FFAP-050Z       | 505-7066-03    |



NOTE: See appendix for Flex-Line hood information

### Emerson™ Electronic Unit Controller



| Part #      | Description   |
|-------------|---|
| 943-0152-00 | 115V Electronic Unit Controller                                   |
| 943-0153-00 | 230V Electronic Unit Controller                                   |
| 943-0154-00 | 115V Electronic Unit Controller with Fan Cycling                  |
| 943-0155-00 | 230V Electronic Unit Controller with Fan Cycling                  |
| 929-0114-00 | Electronic Unit Controller Suction Pressure Transducer (150 PSIA) |
| 929-0113-00 | DLT Sensor Kit  |

## Copeland Scroll™ water-cooled condensing units

### Capacity Data

| LOW/MED/HIGH TEMP               |     | Capacity (BTU/Hr) at 105° Condensing Temp - Evaporator Temp (°F) |       |        |        |        |        |        |        |
|---------------------------------|-----|--|-------|--------|--------|--------|--------|--------|--------|
| Model                           | BOM | Refrig.  | H.P.  | -30    | -25    | -20    | -15    | -10    | -5     |
| FFWP-015Z-CFV, TFC, TFD         | 020 | 22   | 1-1/2 |        |        |        |        |        |        |
|                                 |     | 134a   | 1-1/2 |        |        |        |        |        |        |
|                                 |     | 404A   | 1-1/2 | 3,230  | 3,670  | 4,140  | 4,670  | 5,240  | 5,890  |
|                                 |     | 407A   | 1-1/2 |        | 3,330  | 3,960  | 4,590  | 5,240  | 5,910  |
|                                 |     | 407C   | 1-1/2 |        |        |        |        |        |        |
| FFWP-017Z-CFV, TFC, TFD         | 020 | 22   | 1-3/4 |        |        |        |        |        |        |
|                                 |     | 134a   | 1-3/4 |        |        |        |        |        |        |
|                                 |     | 404A   | 1-3/4 | 3,990  | 4,520  | 5,110  | 5,750  | 6,470  | 7,260  |
|                                 |     | 407A   | 1-3/4 |        | 3,980  | 4,720  | 5,480  | 6,250  | 7,060  |
|                                 |     | 407C   | 1-3/4 |        |        |        |        |        |        |
| FFWP-020Z-CFV, TFC, TFD         | 020 | 22   | 2     |        |        |        |        |        |        |
|                                 |     | 134a   | 2     |        |        |        |        |        |        |
|                                 |     | 404A   | 2     | 4,400  | 4,990  | 5,630  | 6,350  | 7,140  | 8,010  |
|                                 |     | 407A   | 2     |        | 4,540  | 5,390  | 6,250  | 7,140  | 8,060  |
|                                 |     | 407C   | 2     |        |        |        |        |        |        |
| FFWP-022Z-CFV, TFC, TFD         | 020 | 22   | 2-1/4 |        |        |        |        |        |        |
|                                 |     | 134a   | 2-1/4 |        |        |        |        |        |        |
|                                 |     | 404A   | 2-1/4 | 5,300  | 6,010  | 6,790  | 7,650  | 8,600  | 9,650  |
|                                 |     | 407A   | 2-1/4 |        | 5,470  | 6,500  | 7,540  | 8,610  | 9,720  |
|                                 |     | 407C   | 2-1/4 |        |        |        |        |        |        |
| FFWP-030Z-CFV, TFC,<br>CFZ, TFD | 020 | 22   | 3     |        |        |        |        |        |        |
|                                 |     | 134a   | 3     |        |        |        |        |        |        |
|                                 |     | 404A   | 3     | 6,340  | 7,190  | 8,120  | 9,150  | 10,300 | 11,500 |
|                                 |     | 407A   | 3     |        | 6,180  | 7,340  | 8,510  | 9,710  | 11,000 |
|                                 |     | 407C   | 3     |        |        |        |        |        |        |
| FFWP-032Z-CFV, TFC, TFD         | 020 | 22   | 3-1/4 |        |        |        |        |        |        |
|                                 |     | 134a   | 3-1/4 |        |        |        |        |        |        |
|                                 |     | 404A   | 3-1/4 | 8,220  | 9,320  | 10,500 | 11,900 | 13,300 | 15,000 |
|                                 |     | 407A   | 3-1/4 |        | 7,160  | 8,680  | 10,300 | 11,900 | 13,700 |
|                                 |     | 407C   | 3-1/4 |        |        |        |        |        |        |
| FFWP-040Z-CFV,TFC,TFD           | 020 | 22   | 4     |        |        |        |        |        |        |
|                                 |     | 134a   | 4     |        |        |        |        | 8,850  | 10,200 |
|                                 |     | 404A   | 4     | 9,390  | 10,600 | 12,000 | 13,600 | 15,200 | 17,100 |
|                                 |     | 407A   | 4     |        | 7,940  | 9,640  | 11,400 | 13,300 | 15,200 |
|                                 |     | 407C   | 4     |        | 4,430  | 6,730  | 9,050  | 11,400 | 13,800 |
| FFWP-042Z-CFV, TFC, TFD         | 020 | 22   | 4-1/4 |        |        |        |        |        |        |
|                                 |     | 134a   | 4-1/4 |        |        |        |        |        |        |
|                                 |     | 404A   | 4-1/4 | 11,300 | 12,800 | 14,500 | 16,300 | 18,400 | 20,600 |
|                                 |     | 407A   | 4-1/4 |        | 10,400 | 12,700 | 15,000 | 17,400 | 20,000 |
|                                 |     | 407C   | 4-1/4 |        |        |        |        |        |        |
| FFWP-050Z-CFV, TFC,<br>TFD, TFE | 020 | 22   | 5     |        |        |        |        |        |        |
|                                 |     | 134a   | 5     |        |        |        |        |        |        |
|                                 |     | 404A   | 5     | 14,100 | 15,900 | 17,900 | 20,100 | 22,500 | 25,000 |
|                                 |     | 407A   | 5     |        |        |        |        |        |        |
|                                 |     | 407C   | 5     |        |        |        |        |        |        |

Performance @ 40°F return gas (65°F return gas for performance in **bold**), 5°F subcooling.

## Copeland Scroll™ water-cooled condensing units

### Capacity Data

| LOW/MED/HIGH TEMP            |     | Capacity (BTU/Hr) at 105° Condensing Temp - Evaporator Temp (°F) |       |        |        |        |        |        |
|------------------------------|-----|--|-------|--------|--------|--------|--------|--------|
| Model                        | BOM | Refrig.  | H.P.  | 0      | +5     | +10    | +15    | +20    |
| FFWP-015Z-CFV, TFC, TFD      | 020 | 22   | 1-1/2 | 6,770  | 7,740  | 8,720  | 9,750  | 10,800 |
|                              |     | 134a   | 1-1/2 | 4,070  | 4,620  | 5,220  | 5,870  | 6,590  |
|                              |     | 404A   | 1-1/2 | 6,590  | 7,370  | 8,230  | 9,180  | 10,200 |
|                              |     | 407A   | 1-1/2 | 6,630  | 7,410  | 8,250  | 9,170  | 10,200 |
|                              |     | 407C   | 1-1/2 | 5,750  | 6,670  | 7,620  | 8,630  | 9,700  |
| FFWP-017Z-CFV, TFC, TFD      | 020 | 22   | 1-3/4 | 7,970  | 9,100  | 10,300 | 11,500 | 12,700 |
|                              |     | 134a   | 1-3/4 | 4,850  | 5,510  | 6,230  | 7,010  | 7,870  |
|                              |     | 404A   | 1-3/4 | 8,130  | 9,090  | 10,200 | 11,300 | 12,600 |
|                              |     | 407A   | 1-3/4 | 7,920  | 8,850  | 9,850  | 11,000 | 12,200 |
|                              |     | 407C   | 1-3/4 | 6,870  | 7,960  | 9,100  | 10,300 | 11,600 |
| FFWP-020Z-CFV, TFC, TFD      | 020 | 22   | 2     | 9,160  | 10,500 | 11,800 | 13,200 | 14,600 |
|                              |     | 134a   | 2     | 5,540  | 6,290  | 7,110  | 8,010  | 8,990  |
|                              |     | 404A   | 2     | 8,970  | 10,000 | 11,200 | 12,500 | 13,900 |
|                              |     | 407A   | 2     | 9,050  | 10,100 | 11,300 | 12,500 | 13,900 |
|                              |     | 407C   | 2     | 7,840  | 9,090  | 10,400 | 11,800 | 13,200 |
| FFWP-022Z-CFV, TFC, TFD      | 020 | 22   | 2-1/4 | 10,800 | 12,300 | 13,900 | 15,500 | 17,200 |
|                              |     | 134a   | 2-1/4 | 6,680  | 7,590  | 8,570  | 9,650  | 10,800 |
|                              |     | 404A   | 2-1/4 | 10,800 | 12,100 | 13,500 | 15,100 | 16,800 |
|                              |     | 407A   | 2-1/4 | 10,900 | 12,200 | 13,600 | 15,100 | 16,700 |
|                              |     | 407C   | 2-1/4 | 9,450  | 11,000 | 12,500 | 14,200 | 15,900 |
| FFWP-030Z-CFV, TFC, CFZ, TFD | 020 | 22   | 3     | 12,200 | 14,000 | 15,800 | 17,600 | 19,600 |
|                              |     | 134a   | 3     | 7,540  | 8,560  | 9,680  | 10,900 | 12,200 |
|                              |     | 404A   | 3     | 12,900 | 14,500 | 16,200 | 18,000 | 20,100 |
|                              |     | 407A   | 3     | 12,300 | 13,700 | 15,300 | 17,000 | 18,900 |
|                              |     | 407C   | 3     |        |        | 14,500 | 16,400 | 18,500 |
| FFWP-032Z-CFV, TFC, TFD      | 020 | 22   | 3-1/4 | 16,400 | 18,800 | 21,200 | 23,600 | 26,300 |
|                              |     | 134a   | 3-1/4 | 10,100 | 11,500 | 13,000 | 14,600 | 16,400 |
|                              |     | 404A   | 3-1/4 | 16,800 | 18,700 | 20,900 | 23,300 | 26,000 |
|                              |     | 407A   | 3-1/4 | 15,600 | 17,700 | 19,900 | 22,300 | 25,000 |
|                              |     | 407C   | 3-1/4 | 14,300 | 16,600 | 19,000 | 21,500 | 24,200 |
| FFWP-040Z-CFV, TFC, TFD      | 020 | 22   | 4     | 18,200 | 20,800 | 23,500 | 26,200 | 29,100 |
|                              |     | 134a   | 4     | 11,600 | 13,200 | 14,900 | 16,800 | 18,900 |
|                              |     | 404A   | 4     | 19,200 | 21,400 | 23,900 | 26,700 | 29,700 |
|                              |     | 407A   | 4     | 17,400 | 19,600 | 22,100 | 24,800 | 27,700 |
|                              |     | 407C   | 4     | 16,300 | 18,900 | 21,600 | 24,500 | 27,500 |
| FFWP-042Z-CFV, TFC, TFD      | 020 | 22   | 4-1/4 | 22,600 | 25,900 | 29,200 | 32,600 | 36,200 |
|                              |     | 134a   | 4-1/4 | 14,000 | 15,800 | 17,900 | 20,200 | 22,600 |
|                              |     | 404A   | 4-1/4 | 23,100 | 25,800 | 28,900 | 32,200 | 35,800 |
|                              |     | 407A   | 4-1/4 | 22,800 | 25,800 | 29,000 | 32,600 | 36,400 |
|                              |     | 407C   | 4-1/4 | 19,700 | 22,900 | 26,200 | 29,600 | 33,300 |
| FFWP-050Z-CFV, TFC, TFD, TFE | 020 | 22   | 5     | 26,200 | 29,300 | 32,600 | 36,300 | 40,200 |
|                              |     | 134a   | 5     | 16,000 | 18,100 | 20,400 | 23,000 | 25,800 |
|                              |     | 404A   | 5     | 27,900 | 30,900 | 34,300 | 37,900 | 41,900 |
|                              |     | 407A   | 5     |        |        |        |        |        |
|                              |     | 407C   | 5     | 22,500 | 26,200 | 30,400 | 35,000 | 39,900 |

Performance @ 40°F return gas (65°F return gas for performance in **bold**), 5°F subcooling.

# Copeland Scroll™ water-cooled condensing units

## Capacity Data

| LOW/MED/HIGH TEMP            |     | Capacity (BTU/Hr) at 105° Condensing Temp - Evaporator Temp (°F) |       |               |               |               |               |               |
|------------------------------|-----|--|-------|---------------|---------------|---------------|---------------|---------------|
| Model                        | BOM | Refrig.  | H.P.  | +25           | +30           | +35           | +40           | +45           |
| FFWP-015Z-CFV, TFC, TFD      | 020 | 22   | 1-1/2 | <b>12,100</b> | <b>13,300</b> | <b>14,700</b> | <b>16,100</b> | <b>17,700</b> |
|                              |     | 134a   | 1-1/2 | <b>7,620</b>  | <b>8,500</b>  | <b>9,460</b>  | <b>10,500</b> | <b>11,600</b> |
|                              |     | 404A   | 1-1/2 | <b>11,400</b> | <b>13,600</b> | <b>14,900</b> | <b>16,400</b> | <b>18,000</b> |
|                              |     | 407A   | 1-1/2 | <b>12,000</b> | <b>13,300</b> | <b>14,700</b> | <b>16,300</b> | <b>18,300</b> |
|                              |     | 407C   | 1-1/2 | <b>11,100</b> | <b>12,300</b> | <b>13,600</b> | <b>15,000</b> | <b>16,500</b> |
| FFWP-017Z-CFV, TFC, TFD      | 020 | 22   | 1-3/4 | <b>14,200</b> | <b>15,700</b> | <b>17,300</b> | <b>19,000</b> | <b>20,900</b> |
|                              |     | 134a   | 1-3/4 | <b>9,090</b>  | <b>10,100</b> | <b>11,300</b> | <b>12,500</b> | <b>13,900</b> |
|                              |     | 404A   | 1-3/4 | <b>14,900</b> | <b>16,600</b> | <b>18,400</b> | <b>20,400</b> | <b>22,700</b> |
|                              |     | 407A   | 1-3/4 | <b>14,300</b> | <b>15,900</b> | <b>17,600</b> | <b>19,500</b> | <b>21,800</b> |
|                              |     | 407C   | 1-3/4 | <b>13,300</b> | <b>14,700</b> | <b>16,300</b> | <b>18,000</b> | <b>19,700</b> |
| FFWP-020Z-CFV, TFC, TFD      | 020 | 22   | 2     | <b>16,400</b> | <b>18,000</b> | <b>19,900</b> | <b>21,800</b> | <b>24,000</b> |
|                              |     | 134a   | 2     | <b>10,400</b> | <b>11,600</b> | <b>12,900</b> | <b>14,300</b> | <b>15,900</b> |
|                              |     | 404A   | 2     | <b>17,000</b> | <b>18,800</b> | <b>20,900</b> | <b>23,200</b> | <b>25,800</b> |
|                              |     | 407A   | 2     | <b>16,300</b> | <b>18,100</b> | <b>20,100</b> | <b>22,200</b> | <b>24,900</b> |
|                              |     | 407C   | 2     | <b>15,100</b> | <b>16,800</b> | <b>18,600</b> | <b>20,500</b> | <b>22,500</b> |
| FFWP-022Z-CFV, TFC, TFD      | 020 | 22   | 2-1/4 | <b>19,200</b> | <b>21,200</b> | <b>23,400</b> | <b>25,700</b> | <b>28,200</b> |
|                              |     | 134a   | 2-1/4 | <b>12,500</b> | <b>14,000</b> | <b>15,600</b> | <b>17,300</b> | <b>19,100</b> |
|                              |     | 404A   | 2-1/4 | <b>20,400</b> | <b>22,700</b> | <b>25,200</b> | <b>28,000</b> | <b>31,100</b> |
|                              |     | 407A   | 2-1/4 | <b>19,700</b> | <b>21,800</b> | <b>24,200</b> | <b>26,800</b> | <b>30,000</b> |
|                              |     | 407C   | 2-1/4 | <b>18,300</b> | <b>20,300</b> | <b>22,400</b> | <b>24,700</b> | <b>27,200</b> |
| FFWP-030Z-CFV, TFC, CFZ, TFD | 020 | 22   | 3     | <b>21,900</b> | <b>24,100</b> | <b>26,500</b> | <b>29,200</b> | <b>32,000</b> |
|                              |     | 134a   | 3     | <b>14,100</b> | <b>15,800</b> | <b>17,500</b> | <b>19,500</b> | <b>21,600</b> |
|                              |     | 404A   | 3     | <b>22,900</b> | <b>25,200</b> | <b>27,700</b> | <b>30,500</b> | <b>33,400</b> |
|                              |     | 407A   | 3     | <b>22,200</b> | <b>24,600</b> | <b>27,300</b> | <b>30,200</b> | <b>33,800</b> |
|                              |     | 407C   | 3     | <b>20,600</b> | <b>22,800</b> | <b>25,300</b> | <b>27,800</b> | <b>30,600</b> |
| FFWP-032Z-CFV, TFC, TFD      | 020 | 22   | 3-1/4 | <b>29,400</b> | <b>32,400</b> | <b>35,600</b> | <b>39,200</b> | <b>43,000</b> |
|                              |     | 134a   | 3-1/4 | <b>19,000</b> | <b>21,200</b> | <b>23,600</b> | <b>26,200</b> | <b>29,000</b> |
|                              |     | 404A   | 3-1/4 | <b>30,700</b> | <b>34,100</b> | <b>37,900</b> | <b>42,100</b> | <b>46,700</b> |
|                              |     | 407A   | 3-1/4 | <b>28,600</b> | <b>31,800</b> | <b>35,300</b> | <b>39,100</b> | <b>43,200</b> |
|                              |     | 407C   | 3-1/4 | <b>27,700</b> | <b>30,700</b> | <b>34,000</b> | <b>37,500</b> | <b>41,200</b> |
| FFWP-040Z-CFV, TFC, TFD      | 020 | 22   | 4     | <b>32,600</b> | <b>35,900</b> | <b>39,500</b> | <b>43,400</b> | <b>47,700</b> |
|                              |     | 134a   | 4     | <b>21,000</b> | <b>23,500</b> | <b>26,100</b> | <b>29,000</b> | <b>32,200</b> |
|                              |     | 404A   | 4     | <b>32,900</b> | <b>36,500</b> | <b>40,400</b> | <b>44,700</b> | <b>49,300</b> |
|                              |     | 407A   | 4     | <b>32,700</b> | <b>36,400</b> | <b>40,400</b> | <b>44,700</b> | <b>49,900</b> |
|                              |     | 407C   | 4     | <b>30,600</b> | <b>34,000</b> | <b>37,600</b> | <b>41,500</b> | <b>45,600</b> |
| FFWP-042Z-CFV, TFC, TFD      | 020 | 22   | 4-1/4 | <b>40,500</b> | <b>44,600</b> | <b>49,100</b> | <b>54,000</b> | <b>59,300</b> |
|                              |     | 134a   | 4-1/4 | <b>26,100</b> | <b>29,200</b> | <b>32,500</b> | <b>36,100</b> | <b>40,000</b> |
|                              |     | 404A   | 4-1/4 | <b>43,000</b> | <b>47,700</b> | <b>53,000</b> | <b>58,800</b> | <b>65,300</b> |
|                              |     | 407A   | 4-1/4 | <b>41,700</b> | <b>46,400</b> | <b>51,500</b> | <b>57,000</b> | <b>63,500</b> |
|                              |     | 407C   | 4-1/4 | <b>38,100</b> | <b>42,300</b> | <b>46,800</b> | <b>51,600</b> | <b>56,800</b> |
| FFWP-050Z-CFV, TFC, TFD, TFE | 020 | 22   | 5     | <b>44,800</b> | <b>49,400</b> | <b>54,300</b> | <b>59,500</b> | <b>65,100</b> |
|                              |     | 134a   | 5     | <b>29,800</b> | <b>33,200</b> | <b>36,900</b> | <b>40,800</b> | <b>45,200</b> |
|                              |     | 404A   | 5     | <b>48,700</b> | <b>53,500</b> | <b>58,800</b> | <b>64,400</b> | <b>70,400</b> |
|                              |     | 407A   | 5     |               |               |               |               |               |
|                              |     | 407C   | 5     | <b>45,000</b> | <b>50,400</b> | <b>55,900</b> | <b>61,500</b> | <b>67,200</b> |

Performance @ 40°F return gas (65°F return gas for performance in **bold**), 5°F subcooling.



# Copeland Scroll™ water-cooled condensing units

## Physical and Electrical Data

| Model                        | Refrig. | Comp                       | Overall Dimensions (In) |      |      | Connecting Lines |        | Water Connections |        | Minimum Circuit Ampacity - Max Fuse Size |           |          |        | Pump Down Capacity (lbs) | Ship Weight (lbs) |
|------------------------------|---------|----------------------------|-------------------------|------|------|------------------|--------|-------------------|--------|--|-----------|----------|--------|--------------------------|-------------------|
|                              |         |                            | L                       | W    | H    | Suction          | Liquid | In                | Out    | 208/230-1                                | 230-3     | 460-3    | 575-3  |                          |                   |
| FFWP-015Z-CFV, TFC, TFD      | 22      | ZS09KAE-PFV, TF5, TFD      | 24.0                    | 16.1 | 16.6 | 7/8 S            | 3/8 S  | 3/8 FPT           | 5/8 OD | 12.5 - 20                                | 10 - 15   | 4.8 - 15 |        | 13                       | 99                |
|                              | 134a    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 13.1                     |                   |
|                              | 404A    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 11.2                     |                   |
|                              | 407A    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 12.2                     |                   |
|                              | 407C    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 11.4                     |                   |
| FFWP-017Z-CFV, TFC, TFD      | 22      | ZS11KAE-PFV, TF5, TFD      | 24.0                    | 16.1 | 16.6 | 7/8 S            | 3/8 S  | 3/8 FPT           | 5/8 OD | 15.8 - 25                                | 13 - 20   | 5.4 - 15 |        | 13                       | 103               |
|                              | 134a    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 13.1                     |                   |
|                              | 404A    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 11.2                     |                   |
|                              | 407A    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 12.2                     |                   |
|                              | 407C    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 11.4                     |                   |
| FFWP-020Z-CFV, TFC, TFD      | 22      | ZS13KAE-PFV, TF5, TFD      | 24.0                    | 16.1 | 16.6 | 7/8 S            | 3/8 S  | 3/8 FPT           | 5/8 OD | 15 - 25                                  | 12.1 - 20 | 6 - 15   |        | 13                       | 105               |
|                              | 134a    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 13.1                     |                   |
|                              | 404A    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 11.2                     |                   |
|                              | 407A    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 12.2                     |                   |
|                              | 407C    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 11.4                     |                   |
| FFWP-022Z-CFV, TFC, TFD      | 22      | ZS15KAE-PFV, TF5, TFD      | 24.0                    | 16.1 | 16.6 | 7/8 S            | 3/8 S  | 3/8 FPT           | 5/8 OD | 19.6 - 35                                | 13.3 - 20 | 6.8-15   |        | 13                       | 106               |
|                              | 134a    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 13.1                     |                   |
|                              | 404A    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 11.2                     |                   |
|                              | 407A    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 12.2                     |                   |
|                              | 407C    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 11.4                     |                   |
| FFWP-030Z-CFV, TFC, TFD      | 22      | ZS19KAE-PFV, TF5, TFD      | 24.1                    | 16.1 | 16.6 | 7/8 S            | 3/8 S  | 3/8 FPT           | 5/8 OD | 22.5-40                                  | 13.3-20   | 6.8-15   |        | 13                       | 118               |
|                              | 134a    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 13.1                     |                   |
|                              | 404A    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 11.2                     |                   |
|                              | 407A    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 12.2                     |                   |
|                              | 407C    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 11.4                     |                   |
| FFWP-032Z-CFV, TFC, TFD      | 22      | ZS21KAE-PFV, TF5, TFD      | 27.2                    | 21.5 | 18.2 | 1 1/8 S          | 3/8 S  | 1/2 FPT           | 7/8 OD | 23.1 - 40                                | 13.9 - 20 | 7 - 15   |        | 13                       | 164               |
|                              | 134a    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 13.1                     |                   |
|                              | 404A    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 11.2                     |                   |
|                              | 407A    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 12.2                     |                   |
|                              | 407C    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 11.4                     |                   |
| FFWP-040Z-CFV, TFC, TFD      | 22      | ZS26KAE-PFV, TF5, TFD      | 27.5                    | 21   | 21.1 | 1 1/8 S          | 1/2 S  | 3/4 FPT           | 7/8 OD | 29.5-50                                  | 19.4-30   | 21-27.5  |        | 21.5                     | 190               |
|                              | 134a    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 21.8                     |                   |
|                              | 404A    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 18.7                     |                   |
|                              | 407A    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 20.3                     |                   |
|                              | 407C    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 18.3                     |                   |
| FFWP-042Z-CFV, TFC, TFD      | 22      | ZS33KAE-PFV, TF5, TFD      | 27.2                    | 21.6 | 21.1 | 1 1/8 S          | 1/2 S  | 3/4 FPT           | 7/8 OD | 35.3 - 60                                | 27.9-50   | 21-27.5  |        | 21.5                     | 195               |
|                              | 134a    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 21.8                     |                   |
|                              | 404A    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 18.7                     |                   |
|                              | 407A    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 20.3                     |                   |
|                              | 407C    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 18.3                     |                   |
| FFWP-050Z-CFV, TFC, TFD, TFE | 22      | ZS38K4E-PFV, TF5, TFD, TFE | 27.5                    | 21.7 | 21.1 | 1 1/8 S          | 1/2 S  | 3/4 FPT           | 7/8 OD | 39.8 - 70                                | 26.8 - 45 | 12 - 20  | 9.9-15 | 21.5                     | 218               |
|                              | 134a    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 21.8                     |                   |
|                              | 404A    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 18.7                     |                   |
|                              | 407A    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 20.3                     |                   |
|                              | 407C    |                            |                         |      |      |                  |        |                   |        |  |           |          |        | 18.3                     |                   |

Pumpdown capacity is receiver volume only at 90%, 90°F ambient.

## Copeland Scroll™ air-cooled condensing units

### Capacity Data

| MED/HIGH TEMP         |          | Capacity (BTU/Hr) at 90° Ambient - Evaporator Temp (°F) |       |       |        |        |        |        |        |
|-----------------------|----------|---|-------|-------|--------|--------|--------|--------|--------|
| Model                 | BOM      | Refrig.   | H.P.  | -30   | -25    | -20    | -15    | -10    | -5     |
| FPAK-010Z-CFV,TFC,TFD | 072      | 134a  | 1     |       |        |        |        |        |        |
|                       |          | 404A  | 1     | 3,410 | 3,830  | 4,290  | 4,770  | 5,290  | 5,840  |
| FPAK-012Z-CFV,TFC,TFD | 072      | 134a  | 1-1/4 |       |        |        |        |        |        |
|                       |          | 404A  | 1-1/4 | 3,950 | 4,430  | 4,940  | 5,490  | 6,060  | 6,670  |
| FPAK-013Z-CFV,TFC,TFD | 072, 075 | 134a  | 1-1/3 |       |        |        |        |        |        |
|                       |          | 404A  | 1-1/3 | 5,680 | 6,390  | 7,150  | 7,970  | 8,850  | 9,780  |
| FPAK-015Z-CFV,TFC,TFD | 072, 075 | 134a  | 1-1/2 |       |        |        |        |        |        |
|                       |          | 404A  | 1-1/2 | 6,310 | 7,090  | 7,930  | 8,810  | 9,760  | 10,800 |
| FPAK-020Z-CFV,TFC,TFD | 071, 072 | 134a  | 2     |       |        |        |        |        |        |
|                       |          | 404A  | 2     | 8,520 | 9,580  | 10,700 | 12,000 | 13,300 | 14,700 |
| FPAK-039Z-CFV,TFC,TFD | 071      | 134a  | 4     |       |        |        |        |        |        |
|                       |          | 404A  | 4     | 9,530 | 10,700 | 12,100 | 13,500 | 15,000 | 16,700 |

| Model                 | BOM      | Refrig. | H.P.  | 0      | +5     | +10    | +15    | +20    |
|-----------------------|----------|---------|-------|--------|--------|--------|--------|--------|
| FPAK-010Z-CFV,TFC,TFD | 072      | 134a    | 1     | 4,020  | 4,520  | 5,060  | 5,620  | 6,230  |
|                       |          | 404A    | 1     | 6,410  |        |        |        |        |
| FPAK-012Z-CFV,TFC,TFD | 072      | 134a    | 1-1/4 | 4,730  | 5,300  | 5,920  | 6,560  | 7,250  |
|                       |          | 404A    | 1-1/4 | 7,290  |        |        |        |        |
| FPAK-013Z-CFV,TFC,TFD | 072, 075 | 134a    | 1-1/3 | 6,640  | 7,470  | 8,360  | 9,300  | 10,300 |
|                       |          | 404A    | 1-1/3 | 10,800 |        |        |        |        |
| FPAK-015Z-CFV,TFC,TFD | 072, 075 | 134a    | 1-1/2 | 7,410  | 8,330  | 9,310  | 10,300 | 11,500 |
|                       |          | 404A    | 1-1/2 | 11,800 |        |        |        |        |
| FPAK-020Z-CFV,TFC,TFD | 071, 072 | 134a    | 2     | 10,000 | 11,300 | 12,600 | 14,000 | 15,500 |
|                       |          | 404A    | 2     | 16,100 |        |        |        |        |
| FPAK-039Z-CFV,TFC,TFD | 071      | 134a    | 4     | 12,600 | 14,200 | 15,900 | 17,700 | 19,700 |
|                       |          | 404A    | 4     | 18,400 |        |        |        |        |

| Model                 | BOM      | Refrig. | H.P.  | +25           | +30           | +35           | +40           | +45           |
|-----------------------|----------|---------|-------|---------------|---------------|---------------|---------------|---------------|
| FPAK-010Z-CFV,TFC,TFD | 072      | 134a    | 1     | <b>7,100</b>  | <b>7,810</b>  | <b>8,570</b>  | <b>9,370</b>  | <b>10,200</b> |
|                       |          | 404A    | 1     |               |               |               |               |               |
| FPAK-012Z-CFV,TFC,TFD | 072      | 134a    | 1-1/4 | <b>8,250</b>  | <b>9,060</b>  | <b>9,910</b>  | <b>10,800</b> | <b>11,700</b> |
|                       |          | 404A    | 1-1/4 |               |               |               |               |               |
| FPAK-013Z-CFV,TFC,TFD | 072, 075 | 134a    | 1-1/3 | <b>11,800</b> | <b>13,000</b> | <b>14,200</b> | <b>15,600</b> | <b>17,000</b> |
|                       |          | 404A    | 1-1/3 |               |               |               |               |               |
| FPAK-015Z-CFV,TFC,TFD | 072, 075 | 134a    | 1-1/2 | <b>13,100</b> | <b>14,300</b> | <b>15,700</b> | <b>17,200</b> | <b>18,700</b> |
|                       |          | 404A    | 1-1/2 |               |               |               |               |               |
| FPAK-020Z-CFV,TFC,TFD | 071, 072 | 134a    | 2     | <b>17,700</b> | <b>19,500</b> | <b>21,400</b> | <b>23,400</b> | <b>25,600</b> |
|                       |          | 404A    | 2     |               |               |               |               |               |
| FPAK-039Z-CFV,TFC,TFD | 071      | 134a    | 4     | <b>22,500</b> | <b>24,800</b> | <b>27,200</b> | <b>29,800</b> | <b>32,600</b> |
|                       |          | 404A    | 4     |               |               |               |               |               |

Performance @ 40°F return gas (65°F return gas for performance in **bold**), 5°F subcooling.

## Copeland Scroll™ air-cooled condensing units

### Capacity Data

| MED/HIGH TEMP         |          | Capacity (BTU/Hr) at 100° Ambient - Evaporator Temp (°F) |       |     |        |        |        |        |        |
|-----------------------|----------|--|-------|-----|--------|--------|--------|--------|--------|
| Model                 | BOM      | Refrig.  | H.P.  | -30 | -25    | -20    | -15    | -10    | -5     |
| FPAK-010Z-CFV,TFC,TFD | 072      | 134a   | 1     |     |        |        |        |        |        |
|                       |          | 404A   | 1     |     | 3,560  | 3,960  | 4,390  | 4,850  | 5,340  |
| FPAK-012Z-CFV,TFC,TFD | 072      | 134a   | 1-1/4 |     |        |        |        |        |        |
|                       |          | 404A   | 1-1/4 |     | 4,100  | 4,560  | 5,030  | 5,540  | 6,070  |
| FPAK-013Z-CFV,TFC,TFD | 072, 075 | 134a   | 1-1/3 |     |        |        |        |        |        |
|                       |          | 404A   | 1-1/3 |     | 5,940  | 6,630  | 7,360  | 8,140  | 8,970  |
| FPAK-015Z-CFV,TFC,TFD | 072, 075 | 134a   | 1-1/2 |     |        |        |        |        |        |
|                       |          | 404A   | 1-1/2 |     | 6,580  | 7,330  | 8,120  | 8,960  | 9,850  |
| FPAK-020Z-CFV,TFC,TFD | 071, 072 | 134a   | 2     |     |        |        |        |        |        |
|                       |          | 404A   | 2     |     | 8,910  | 9,940  | 11,000 | 12,200 | 13,400 |
| FPAK-039Z-CFV,TFC,TFD | 071      | 134a   | 4     |     |        |        |        |        |        |
|                       |          | 404A   | 4     |     | 10,000 | 11,200 | 12,500 | 13,800 | 15,300 |

| Model                 | BOM      | Refrig. | H.P.  | 0      | +5     | +10    | +15    | +20    |
|-----------------------|----------|---------|-------|--------|--------|--------|--------|--------|
| FPAK-010Z-CFV,TFC,TFD | 072      | 134a    | 1     |        | 4,260  | 4,750  | 5,280  | 5,840  |
|                       |          | 404A    | 1     | 5,830  |        |        |        |        |
| FPAK-012Z-CFV,TFC,TFD | 072      | 134a    | 1-1/4 |        | 4,980  | 5,550  | 6,140  | 6,780  |
|                       |          | 404A    | 1-1/4 | 6,600  |        |        |        |        |
| FPAK-013Z-CFV,TFC,TFD | 072, 075 | 134a    | 1-1/3 |        | 7,040  | 7,870  | 8,750  | 9,690  |
|                       |          | 404A    | 1-1/3 | 9,820  |        |        |        |        |
| FPAK-015Z-CFV,TFC,TFD | 072, 075 | 134a    | 1-1/2 |        | 7,840  | 8,750  | 9,710  | 10,700 |
|                       |          | 404A    | 1-1/2 | 10,800 |        |        |        |        |
| FPAK-020Z-CFV,TFC,TFD | 071, 072 | 134a    | 2     |        | 10,600 | 11,900 | 13,200 | 14,600 |
|                       |          | 404A    | 2     | 14,700 |        |        |        |        |
| FPAK-039Z-CFV,TFC,TFD | 071      | 134a    | 4     | 11,900 | 13,400 | 15,000 | 16,700 | 18,500 |
|                       |          | 404A    | 4     | 16,800 |        |        |        |        |

| Model                 | BOM      | Refrig. | H.P.  | +25           | +30           | +35           | +40           | +45           |
|-----------------------|----------|---------|-------|---------------|---------------|---------------|---------------|---------------|
| FPAK-010Z-CFV,TFC,TFD | 072      | 134a    | 1     | <b>6,670</b>  | <b>7,340</b>  | <b>8,040</b>  | <b>8,790</b>  | <b>9,580</b>  |
|                       |          | 404A    | 1     |               |               |               |               |               |
| FPAK-012Z-CFV,TFC,TFD | 072      | 134a    | 1-1/4 | <b>7,740</b>  | <b>8,480</b>  | <b>9,270</b>  | <b>10,100</b> | <b>11,000</b> |
|                       |          | 404A    | 1-1/4 |               |               |               |               |               |
| FPAK-013Z-CFV,TFC,TFD | 072, 075 | 134a    | 1-1/3 | <b>11,100</b> | <b>12,200</b> | <b>13,400</b> | <b>14,600</b> | <b>16,000</b> |
|                       |          | 404A    | 1-1/3 |               |               |               |               |               |
| FPAK-015Z-CFV,TFC,TFD | 072, 075 | 134a    | 1-1/2 | <b>12,300</b> | <b>13,500</b> | <b>14,800</b> | <b>16,100</b> | <b>17,600</b> |
|                       |          | 404A    | 1-1/2 |               |               |               |               |               |
| FPAK-020Z-CFV,TFC,TFD | 071, 072 | 134a    | 2     | <b>16,700</b> | <b>18,400</b> | <b>20,200</b> | <b>22,100</b> | <b>24,100</b> |
|                       |          | 404A    | 2     |               |               |               |               |               |
| FPAK-039Z-CFV,TFC,TFD | 071      | 134a    | 4     | <b>21,100</b> | <b>23,300</b> | <b>25,600</b> | <b>28,000</b> | <b>30,700</b> |
|                       |          | 404A    | 4     |               |               |               |               |               |

Performance @ 40°F return gas (65°F return gas for performance in **bold**), 5°F subcooling.

## Copeland Scroll™ air-cooled condensing units

### Capacity Data

| MED/HIGH TEMP         |          | Capacity (BTU/Hr) at 110° Ambient - Evaporator Temp (°F) |       |     |     |        |        |        |        |
|-----------------------|----------|--|-------|-----|-----|--------|--------|--------|--------|
| Model                 | BOM      | Refrig.  | H.P.  | -30 | -25 | -20    | -15    | -10    | -5     |
| FPAK-010Z-CFV,TFC,TFD | 072      | 134a   | 1     |     |     |        |        |        |        |
|                       |          | 404A   | 1     |     |     |        | 3,960  | 4,350  | 4,760  |
| FPAK-012Z-CFV,TFC,TFD | 072      | 134a   | 1-1/4 |     |     |        |        |        |        |
|                       |          | 404A   | 1-1/4 |     |     |        |        | 4,930  | 5,380  |
| FPAK-013Z-CFV,TFC,TFD | 072, 075 | 134a   | 1-1/3 |     |     |        |        |        |        |
|                       |          | 404A   | 1-1/3 |     |     | 6,020  | 6,650  | 7,330  | 8,040  |
| FPAK-015Z-CFV,TFC,TFD | 072, 075 | 134a   | 1-1/2 |     |     |        |        |        |        |
|                       |          | 404A   | 1-1/2 |     |     |        | 7,310  | 8,030  | 8,790  |
| FPAK-020Z-CFV,TFC,TFD | 071, 072 | 134a   | 2     |     |     |        |        |        |        |
|                       |          | 404A   | 2     |     |     | 9,040  | 10,000 | 11,000 | 12,100 |
| FPAK-039Z-CFV,TFC,TFD | 071      | 134a   | 4     |     |     |        |        |        |        |
|                       |          | 404A   | 4     |     |     | 11,400 | 12,700 | 14,000 | 15,400 |

| Model                 | BOM      | Refrig. | H.P.  | 0      | +5 | +10    | +15    | +20    |
|-----------------------|----------|---------|-------|--------|----|--------|--------|--------|
| FPAK-010Z-CFV,TFC,TFD | 072      | 134a    | 1     |        |    | 4,410  | 4,900  | 5,410  |
|                       |          | 404A    | 1     | 5,180  |    |        |        |        |
| FPAK-012Z-CFV,TFC,TFD | 072      | 134a    | 1-1/4 |        |    |        | 5,680  | 6,260  |
|                       |          | 404A    | 1-1/4 | 5,820  |    |        |        |        |
| FPAK-013Z-CFV,TFC,TFD | 072, 075 | 134a    | 1-1/3 |        |    | 7,320  | 8,130  | 9,000  |
|                       |          | 404A    | 1-1/3 | 8,770  |    |        |        |        |
| FPAK-015Z-CFV,TFC,TFD | 072, 075 | 134a    | 1-1/2 |        |    | 8,120  | 9,010  | 9,950  |
|                       |          | 404A    | 1-1/2 | 9,560  |    |        |        |        |
| FPAK-020Z-CFV,TFC,TFD | 071, 072 | 134a    | 2     |        |    | 11,100 | 12,300 | 13,600 |
|                       |          | 404A    | 2     | 13,200 |    |        |        |        |
| FPAK-039Z-CFV,TFC,TFD | 071      | 134a    | 4     |        |    | 14,000 | 15,500 | 17,200 |
|                       |          | 404A    | 4     | 16,800 |    |        |        |        |

| Model                 | BOM      | Refrig. | H.P.  | +25           | +30           | +35           | +40           | +45           |
|-----------------------|----------|---------|-------|---------------|---------------|---------------|---------------|---------------|
| FPAK-010Z-CFV,TFC,TFD | 072      | 134a    | 1     | <b>6,210</b>  | <b>6,820</b>  | <b>7,470</b>  | <b>8,160</b>  | <b>8,900</b>  |
|                       |          | 404A    | 1     |               |               |               |               |               |
| FPAK-012Z-CFV,TFC,TFD | 072      | 134a    | 1-1/4 | <b>7,160</b>  | <b>7,850</b>  | <b>8,570</b>  | <b>9,350</b>  | <b>10,200</b> |
|                       |          | 404A    | 1-1/4 |               |               |               |               |               |
| FPAK-013Z-CFV,TFC,TFD | 072, 075 | 134a    | 1-1/3 | <b>10,300</b> | <b>11,400</b> | <b>12,500</b> | <b>13,600</b> | <b>14,900</b> |
|                       |          | 404A    | 1-1/3 |               |               |               |               |               |
| FPAK-015Z-CFV,TFC,TFD | 072, 075 | 134a    | 1-1/2 | <b>11,400</b> | <b>12,500</b> | <b>13,700</b> | <b>15,000</b> | <b>16,300</b> |
|                       |          | 404A    | 1-1/2 |               |               |               |               |               |
| FPAK-020Z-CFV,TFC,TFD | 071, 072 | 134a    | 2     | <b>15,600</b> | <b>17,200</b> | <b>18,800</b> | <b>20,600</b> | <b>22,500</b> |
|                       |          | 404A    | 2     |               |               |               |               |               |
| FPAK-039Z-CFV,TFC,TFD | 071      | 134a    | 4     | <b>19,700</b> | <b>21,700</b> | <b>23,900</b> | <b>26,200</b> | <b>28,600</b> |
|                       |          | 404A    | 4     |               |               |               |               |               |

Performance @ 40°F return gas (65°F return gas for performance in **bold**), 5°F subcooling.

# Copeland Scroll™ air-cooled condensing units

## Physical and Electrical Data

| Model                 | Refrig. | Comp                  | Overall Dimensions (in) |      |      | Refrigerant Connecting Lines (in) |        | Minimum Circuit Ampacity - Max Fuse Size |         |         |       | Pump Down Capacity (lbs) | Ship Weight (lbs) |
|-----------------------|---------|-----------------------|-------------------------|------|------|-----------------------------------|--------|--|---------|---------|-------|--------------------------|-------------------|
|                       |         |                       | L                       | W    | H    | Suction                           | Liquid | 208/230-1                                | 230-3   | 460-3   | 575-3 |                          |                   |
| FPAK-010Z-CFV,TFC,TFD | 134a    | ZS09KAE-PFV, TF5, TFD | 24.0                    | 17.1 | 16.6 | 5/8                               | 3/8    | 13.7-20                                  | 11.2-15 | 5.5-15  |       | 7.4                      | 98                |
|                       | 404A    |                       |                         |      |      |                                   |        |  |         |         |       | 6.3                      |                   |
| FPAK-012Z-CFV,TFC,TFD | 134a    | ZS11KAE-PFV, TF5, TFD | 24.0                    | 17.1 | 16.6 | 5/8                               | 3/8    | 16.9-25                                  | 14.2-20 | 6.2-15  |       | 7.4                      | 103               |
|                       | 404A    |                       |                         |      |      |                                   |        |  |         |         |       | 6.3                      |                   |
| FPAK-013Z-CFV,TFC,TFD | 134a    | ZS15KAE-PFV, TF5, TFD | 24.1                    | 18.3 | 16.6 | 5/8                               | 3/8    | 21-35                                    | 14.7-20 | 8.4-15  |       | 7.4                      | 109               |
|                       | 404A    |                       |                         |      |      |                                   |        |  |         |         |       | 6.3                      |                   |
| FPAK-015Z-CFV,TFC,TFD | 134a    | ZS19KAE-PFV, TF5, TFD | 24.1                    | 18.3 | 16.6 | 5/8                               | 3/8    | 23.9-40                                  | 18.5-30 | 9.7-15  |       | 7.4                      | 117               |
|                       | 404A    |                       |                         |      |      |                                   |        |  |         |         |       | 6.3                      |                   |
| FPAK-020Z-CFV,TFC,TFD | 134a    | ZS21KAE-PFV, TF5, TFD | 25.0                    | 34.1 | 19   | 5/8                               | 3/8    | 31.8-50                                  | 21.8-30 | 11.8-15 |       | 12.9                     | 197               |
|                       | 404A    |                       |                         |      |      |                                   |        |  |         |         |       | 11.1                     |                   |
| FPAK-039Z-CFV,TFC,TFD | 134a    | ZS29KAE-PFV, TF5, TFD | 25.2                    | 34.1 | 19   | 5/8                               | 3/8    | 35.4-50                                  | 28.4-45 | 15-20   |       | 12.9                     | 218               |
|                       | 404A    |                       |                         |      |      |                                   |        |  |         |         |       | 11.1                     |                   |



NOTE:  
See appendix  
for Flex-Line  
hood information



### Hood Selection

| Copeland™ Model | Flex-Line Hood |
|-----------------|----------------|
| FPAK-010Z       | 505-7066-01    |
| FFAK-012Z       | 505-7066-01    |
| FFAK-013Z       | 505-7066-01    |
| FFAK-015Z       | 505-7066-01    |
| FFAK-020Z       | 505-7066-02    |
| FFAK-039Z       | 505-7066-02    |

### Emerson™ Electronic Unit Controller

| Part #      | Description   |
|-------------|---|
| 943-0152-00 | 115V Electronic Unit Controller                                   |
| 943-0153-00 | 230V Electronic Unit Controller                                   |
| 943-0154-00 | 115V Electronic Unit Controller with Fan Cycling                  |
| 943-0155-00 | 230V Electronic Unit Controller with Fan Cycling                  |
| 929-0114-00 | Electronic Unit Controller Suction Pressure Transducer (150 PSIA) |
| 929-0113-00 | DLT Sensor Kit  |

## Unit cross reference

| Status   | Product Number | Length (in) | Width (in) | Height (in) | Refrigerant | Application | Capacity | MCA / Fuse |
|----------|----------------|-------------|------------|-------------|-------------|-------------|----------|------------|
| Obsolete | F3AD-B151-CFV  | 24          | 18.3       | 16.9        | 22          | HT          | 11300    | 14.2 - 20  |
| Active   | FFAP-015Z-CFV  | 24          | 18.3       | 16.6        | 22          | HT          | 11400    | 13.9 - 20  |
| Obsolete | FGAH-A151-CFV  | 24          | 18.3       | 16.9        | 22          | HT          | 11300    | 14.2 - 20  |
| Active   | FFAP-015Z-CFV  | 24          | 18.3       | 16.6        | 22          | HT          | 11400    | 13.9 - 20  |
| Obsolete | F3AD-B151-TFC  | 24          | 18.3       | 16.9        | 22          | HT          | 11300    | 10.4 - 15  |
| Active   | FFAP-015Z-TFC  | 24          | 18.3       | 16.6        | 22          | HT          | 11400    | 11.4 - 15  |
| Obsolete | FGAH-A151-TFC  | 24          | 18.3       | 16.9        | 22          | HT          | 11300    | 10.4 - 15  |
| Active   | FFAP-015Z-TFC  | 24          | 18.3       | 16.6        | 22          | HT          | 11400    | 11.4 - 15  |
| Obsolete | F3AD-B151-TFD  | 24          | 18.3       | 16.9        | 22          | HT          | 11100    | 5.4 - 15   |
| Active   | FFAP-015Z-TFD  | 24          | 18.3       | 16.6        | 22          | HT          | 11400    | 6.4 - 15   |
| Obsolete | FGAH-A151-TFD  | 24          | 18.3       | 16.9        | 22          | HT          | 11300    | 5.4 - 15   |
| Active   | FFAP-015Z-TFD  | 24          | 18.3       | 16.6        | 22          | HT          | 11400    | 6.4 - 15   |
| Obsolete | F3WD-C151-CFV  | 24          | 16.1       | 15          | 22          | HT          | 13500    | 11.3 - 20  |
| Active   | FFWP-015Z-CFV  | 24          | 16.1       | 16.6        | 22          | HT          | 12100    | 12.5 - 20  |
| Obsolete | FGWH-A151-CFV  | 24          | 16.7       | 14.3        | 22          | HT          | 13500    | 11.3 - 20  |
| Active   | FFWP-015Z-CFV  | 24          | 16.1       | 16.6        | 22          | HT          | 12100    | 12.5 - 20  |
| Obsolete | F3WD-C151-TFC  | 24          | 16.1       | 14.2        | 22          | HT          | 13500    | 7.5 - 15   |
| Active   | FFWP-015Z-TFC  | 24          | 16.1       | 16.6        | 22          | HT          | 12100    | 10 - 15    |
| Obsolete | FGWH-A151-TFC  | 24          | 16.7       | 14.3        | 22          | HT          | 13500    | 7.5 - 15   |
| Active   | FFWP-015Z-TFC  | 24          | 16.1       | 16.6        | 22          | HT          | 12100    | 10 - 15    |
| Obsolete | F3WD-C151-TFD  | 24          | 16.1       | 15.4        | 22          | HT          | 13500    | 3.8 - 15   |
| Active   | FFWP-015Z-TFD  | 24          | 16.1       | 16.6        | 22          | HT          | 12100    | 4.8 - 15   |
| Obsolete | FGWH-A151-TFD  | 24          | 16.7       | 15.4        | 22          | HT          | 13500    | 3.8 - 15   |
| Active   | FFWP-015Z-TFD  | 24          | 16.1       | 16.6        | 22          | HT          | 12100    | 4.8 - 15   |
| Obsolete | F3AD-B201-CFV  | 25          | 34         | 19          | 22          | HT          | 15400    | 19.2 - 30  |
| Active   | FFAP-020Z-CFV  | 25.2        | 34         | 19          | 22          | HT          | 15200    | 16.8 - 25  |
| Obsolete | FGAH-A201-CFV  | 25          | 34         | 19          | 22          | HT          | 15400    | 19.2 - 30  |
| Active   | FFAP-020Z-CFV  | 25.2        | 34         | 19          | 22          | HT          | 15200    | 16.8 - 25  |
| Obsolete | FGAH-A201-TFD  | 25          | 34         | 19          | 22          | HT          | 15400    | 6.1 - 15   |
| Active   | FFAP-020Z-TFD  | 25.2        | 34         | 19          | 22          | HT          | 15200    | 7.1 - 15   |
| Obsolete | FGAH-A201-TFC  | 25          | 34         | 19          | 22          | HT          | 15400    | 11.7 - 15  |
| Active   | FFAP-020Z-TFC  | 25.2        | 34         | 19          | 22          | HT          | 15200    | 13.9 - 20  |
| Obsolete | F3AD-B201-TFD  | 25          | 34         | 19          | 22          | HT          | 15800    | 6.1 - 15   |
| Active   | FFAP-020Z-TFD  | 25.2        | 34         | 19          | 22          | HT          | 15200    | 7.1 - 15   |
| Obsolete | F3AD-B201-TFC  | 25          | 34         | 19          | 22          | HT          | 15800    | 11.7 - 15  |
| Active   | FFAP-020Z-TFC  | 25.2        | 34         | 19          | 22          | HT          | 15200    | 13.9 - 20  |
| Obsolete | F3WD-C201-CFV  | 24          | 16.1       | 15          | 22          | HT          | 16900    | 16.9 - 30  |
| Active   | FFWP-020Z-CFV  | 24          | 16.1       | 16.6        | 22          | HT          | 16400    | 15 - 25    |
| Obsolete | FGWH-A201-CFV  | 24          | 16.7       | 15          | 22          | HT          | 16900    | 16.9 - 30  |
| Active   | FFWP-020Z-CFV  | 24          | 16.1       | 16.6        | 22          | HT          | 16400    | 15 - 25    |
| Obsolete | F3WD-C201-TFC  | 24          | 16.1       | 14.2        | 22          | HT          | 16900    | 9.4 - 15   |
| Active   | FFWP-020Z-TFC  | 24          | 16.1       | 16.6        | 22          | HT          | 16400    | 12.1 - 20  |
| Obsolete | FGWH-A201-TFC  | 24          | 16.7       | 14.3        | 22          | HT          | 16900    | 9.4 - 15   |
| Active   | FFWP-020Z-TFC  | 24          | 16.1       | 16.6        | 22          | HT          | 16400    | 12.1 - 20  |
| Obsolete | F3WD-C201-TFD  | 24          | 16.1       | 15.4        | 22          | HT          | 16900    | 4.6 - 15   |
| Active   | FFWP-020Z-TFD  | 24          | 16.1       | 16.6        | 22          | HT          | 16400    | 6 - 15     |
| Obsolete | FGWH-A201-TFD  | 24          | 16.7       | 15.4        | 22          | HT          | 16900    | 4.6 - 15   |
| Active   | FFWP-020Z-TFD  | 24          | 16.1       | 16.6        | 22          | HT          | 16400    | 6 - 15     |
| Obsolete | F3AD-B225-CFV  | 25.1        | 34.1       | 19          | 22          | HT          | 17100    | 21.1 - 30  |
| Active   | FFAP-022Z-CFV  | 25.2        | 34         | 19          | 22          | HT          | 18300    | 22.4 - 35  |
| Obsolete | F3AD-B225-TFD  | 25.1        | 34.1       | 19          | 22          | HT          | 17100    | 7.0 - 15   |
| Active   | FFAP-022Z-TFD  | 25.2        | 34         | 19          | 22          | HT          | 18300    | 10 - 15    |

Performance @ 25°F evaporator temp, 65°F return gas, 5°F subcooling, 90°F ambient.

## Unit cross reference

| Status   | Product Number | Length (in) | Width (in) | Height (in) | Refrigerant | Application | Capacity | MCA / Fuse |
|----------|----------------|-------------|------------|-------------|-------------|-------------|----------|------------|
| Obsolete | F3AD-B225-TFC  | 25.1        | 34.1       | 19          | 22          | HT          | 17100    | 13.3 - 15  |
| Active   | FFAP-022Z-TFC  | 25.2        | 34         | 19          | 22          | HT          | 18300    | 16.1 - 20  |
| Obsolete | FGAH-A225-CFV  | 25.1        | 34.1       | 19          | 22          | HT          | 18100    | 21.1 - 30  |
| Active   | FFAP-022Z-CFV  | 25.2        | 34         | 19          | 22          | HT          | 18300    | 22.4 - 35  |
| Obsolete | FGAH-A225-TFC  | 25.1        | 34.1       | 19          | 22          | HT          | 18100    | 13.3 - 15  |
| Active   | FFAP-022Z-TFC  | 25.2        | 34         | 19          | 22          | HT          | 18300    | 16.1 - 20  |
| Obsolete | FGAH-A225-TFD  | 25.1        | 34.1       | 19          | 22          | HT          | 18100    | 7.0 - 15   |
| Active   | FFAP-022Z-TFD  | 25.2        | 34         | 19          | 22          | HT          | 18300    | 10 - 15    |
| Obsolete | F3WD-C225-CFV  | 24          | 16.1       | 15          | 22          | HT          | 19300    | 18.8 - 30  |
| Active   | FFWP-022Z-CFV  | 24          | 16.1       | 16.6        | 22          | HT          | 19200    | 19.6 - 35  |
| Obsolete | FGWH-A225-CFV  | 24          | 16.7       | 15          | 22          | HT          | 19300    | 18.8 - 30  |
| Active   | FFWP-022Z-CFV  | 24          | 16.1       | 16.6        | 22          | HT          | 19200    | 19.6 - 35  |
| Obsolete | F3WD-C225-TFC  | 24          | 16.1       | 14.6        | 22          | HT          | 19300    | 11.0 - 15  |
| Active   | FFWP-022Z-TFC  | 24          | 16.1       | 16.6        | 22          | HT          | 19200    | 13.3 - 20  |
| Obsolete | FGWH-A225-TFC  | 24          | 16.7       | 14.6        | 22          | HT          | 19300    | 11.0 - 15  |
| Active   | FFWP-022Z-TFC  | 24          | 16.1       | 16.6        | 22          | HT          | 19200    | 13.3 - 20  |
| Obsolete | F3AD-B301-CFV  | 25.2        | 34.1       | 19.1        | 22          | HT          | 24600    | 28.9 - 40  |
| Active   | FFAP-032Z-CFV  | 25.2        | 34.1       | 19          | 22          | HT          | 27400    | 31.8 - 50  |
| Obsolete | FGAH-A301-CFV  | 25.2        | 34.1       | 19.1        | 22          | HT          | 24600    | 28.9 - 40  |
| Active   | FFAP-032Z-CFV  | 25.2        | 34.1       | 19          | 22          | HT          | 27400    | 31.8 - 50  |
| Obsolete | F3AD-B301-TFC  | 25.2        | 34.1       | 19.1        | 22          | HT          | 24600    | 19.7 - 20  |
| Active   | FFAP-032Z-TFC  | 25.2        | 34.1       | 19          | 22          | HT          | 27400    | 21.8 - 30  |
| Obsolete | FGAH-A301-TFC  | 25.2        | 34.1       | 19.1        | 22          | HT          | 24600    | 19.7 - 20  |
| Active   | FFAP-032Z-TFC  | 25.2        | 34.1       | 19          | 22          | HT          | 27400    | 21.8 - 30  |
| Obsolete | F3AD-B301-TFD  | 25.2        | 34.1       | 19.1        | 22          | HT          | 24600    | 10.2 - 15  |
| Active   | FFAP-032Z-TFD  | 25.2        | 34.1       | 19          | 22          | HT          | 27400    | 11.8 - 15  |
| Obsolete | FGAH-A301-TFD  | 25.2        | 34.1       | 19.1        | 22          | HT          | 24600    | 10.2 - 15  |
| Active   | FFAP-032Z-TFD  | 25.2        | 34.1       | 19          | 22          | HT          | 27400    | 11.8 - 15  |
| Obsolete | FGAH-A325-TFD  | 25.2        | 34.1       | 18.9        | 22          | HT          | 26400    | 10.6 - 15  |
| Active   | FFAP-032Z-TFD  | 25.2        | 34.1       | 19          | 22          | HT          | 27400    | 11.8 - 15  |
| Obsolete | FGAH-A325-CFV  | 25.2        | 34.1       | 18.9        | 22          | HT          | 26400    | 30.1 - 40  |
| Active   | FFAP-032Z-CFV  | 25.2        | 34.1       | 19          | 22          | HT          | 27400    | 31.8 - 50  |
| Obsolete | FGAH-A325-TFC  | 25.2        | 34.1       | 18.9        | 22          | HT          | 26400    | 22.2 - 25  |
| Active   | FFAP-032Z-TFC  | 25.2        | 34.1       | 19          | 22          | HT          | 27400    | 21.8 - 30  |
| Obsolete | F3AD-B325-CFV  | 25.2        | 34.1       | 18.9        | 22          | HT          | 26500    | 30.1 - 40  |
| Active   | FFAP-032Z-CFV  | 25.2        | 34.1       | 19          | 22          | HT          | 27400    | 31.8 - 50  |
| Obsolete | F3AD-B325-TFC  | 25.2        | 34.1       | 18.9        | 22          | HT          | 26500    | 22.2 - 25  |
| Active   | FFAP-032Z-TFC  | 25.2        | 34.1       | 19          | 22          | HT          | 27400    | 21.8 - 30  |
| Obsolete | F3AD-B325-TFD  | 25.2        | 34.1       | 18.9        | 22          | HT          | 26500    | 10.6 - 15  |
| Active   | FFAP-032Z-TFD  | 25.2        | 34.1       | 19          | 22          | HT          | 27400    | 11.8 - 15  |
| Obsolete | F3WD-C301-CFV  | 26.2        | 21         | 15.4        | 22          | HT          | 27300    | 23.1 - 40  |
| Active   | FFWP-032Z-CFV  | 27.2        | 21.5       | 18.2        | 22          | HT          | 29400    | 23.1 - 40  |
| Obsolete | FGWH-A301-CFV  | 25          | 21         | 15.5        | 22          | HT          | 27300    | 23.1 - 40  |
| Active   | FFWP-032Z-CFV  | 27.2        | 21.5       | 18.2        | 22          | HT          | 29400    | 23.1 - 40  |
| Obsolete | F3WD-C301-TFC  | 25          | 21         | 15.8        | 22          | HT          | 27300    | 13.9 - 20  |
| Active   | FFWP-032Z-TFC  | 27.2        | 21.5       | 18.2        | 22          | HT          | 29400    | 13.9 - 20  |
| Obsolete | FGWH-A301-TFC  | 25          | 21         | 15.8        | 22          | HT          | 27300    | 13.9 - 20  |
| Active   | FFWP-032Z-TFC  | 27.2        | 21.5       | 18.2        | 22          | HT          | 29400    | 13.9 - 20  |
| Obsolete | F3WD-C301-TFD  | 25          | 21         | 15.8        | 22          | HT          | 27300    | 7.0 - 15   |
| Active   | FFWP-032Z-TFD  | 27.2        | 21.5       | 18.2        | 22          | HT          | 29400    | 7 - 15     |
| Obsolete | FGWH-A301-TFD  | 25          | 21         | 15.8        | 22          | HT          | 27300    | 7.0 - 15   |
| Active   | FFWP-032Z-TFD  | 27.2        | 21.5       | 18.2        | 22          | HT          | 29400    | 7 - 15     |

Performance @ 25°F evaporator temp, 65°F return gas, 5°F subcooling, 90°F ambient.

## Unit cross reference

| Status   | Product Number | Length (in) | Width (in) | Height (in) | Refrigerant | Application | Capacity | MCA / Fuse |
|----------|----------------|-------------|------------|-------------|-------------|-------------|----------|------------|
| Obsolete | F3WD-C325-CFV  | 26.2        | 21         | 15.4        | 22          | HT          | 29700    | 24.3 - 40  |
| Active   | FFWP-032Z-CFV  | 27.2        | 21.5       | 18.2        | 22          | HT          | 29400    | 23.1 - 40  |
| Obsolete | F3WD-C325-TFC  | 25          | 21         | 16.1        | 22          | HT          | 29700    | 16.4 - 25  |
| Active   | FFWP-032Z-TFC  | 27.2        | 21.5       | 18.2        | 22          | HT          | 29400    | 13.9 - 20  |
| Obsolete | F3WD-C325-TFD  | 25          | 21         | 16.1        | 22          | HT          | 29700    | 7.4 - 15   |
| Active   | FFWP-032Z-TFD  | 27.2        | 21.5       | 18.2        | 22          | HT          | 29400    | 7 - 15     |
| Obsolete | FGWH-A325-TFD  | 25          | 21         | 15.5        | 22          | HT          | 30200    | 7.4 - 15   |
| Active   | FFWP-032Z-TFD  | 27.2        | 21.5       | 18.2        | 22          | HT          | 29400    | 7 - 15     |
| Obsolete | FGWH-A325-TFC  | 25          | 21         | 15.5        | 22          | HT          | 30200    | 16.4 - 25  |
| Active   | FFWP-032Z-TFC  | 27.2        | 21.5       | 18.2        | 22          | HT          | 29400    | 13.9 - 20  |
| Obsolete | FGWH-A325-CFV  | 25          | 21         | 15.5        | 22          | HT          | 30200    | 24.3 - 40  |
| Active   | FFWP-032Z-CFV  | 27.2        | 21.5       | 18.2        | 22          | HT          | 29400    | 23.1 - 40  |
| Obsolete | FGAH-A401-CFV  | 24          | 18.3       | 16.1        | 22          | HT          | 37500    | 39.9 - 60  |
| Active   | FFAP-042Z-CFV  | 24          | 18.3       | 16.1        | 22          | HT          | 38700    | 38.9 - 60  |
| Obsolete | FGAH-A401-CFV  | 24          | 18.3       | 16.1        | 22          | HT          | 37500    | 39.9 - 60  |
| Active   | FFAP-042Z-CFV  | 24          | 18.3       | 16.1        | 22          | HT          | 38700    | 38.9 - 60  |
| Obsolete | FGAH-A401-TFC  | 28.2        | 44.1       | 26.8        | 22          | HT          | 37500    | 26.1 - 40  |
| Active   | FFAP-042Z-TFC  | 24          | 18.3       | 16.1        | 22          | HT          | 38700    | 31.5 - 50  |
| Obsolete | F3AD-B401-TFC  | 28.2        | 44.1       | 26.9        | 22          | HT          | 37600    | 26.1 - 40  |
| Active   | FFAP-042Z-TFC  | 24          | 18.3       | 16.1        | 22          | HT          | 38700    | 31.5 - 50  |
| Obsolete | F3WD-C401-CFV  | 26.8        | 21         | 21.1        | 22          | HT          | 39400    | 36.3 - 60  |
| Active   | FFWP-042Z-CFV  | 27.2        | 21.6       | 21.1        | 22          | HT          | 40500    | 35.3 - 60  |
| Obsolete | FGWH-A401-CFV  | 26.8        | 21         | 21.1        | 22          | HT          | 39400    | 36.3 - 60  |
| Active   | FFWP-042Z-CFV  | 27.2        | 21.6       | 21.1        | 22          | HT          | 40500    | 35.3 - 60  |
| Obsolete | F3WD-C401-TFC  | 26.8        | 21         | 21.1        | 22          | HT          | 39400    | 22.5 - 40  |
| Active   | FFWP-042Z-TFC  | 27.2        | 21.6       | 21.1        | 22          | HT          | 40500    | 27.9-50    |
| Obsolete | FGWH-A401-TFC  | 26.8        | 21         | 21.1        | 22          | HT          | 39400    | 22.5 - 40  |
| Active   | FFWP-042Z-TFC  | 27.2        | 21.6       | 21.1        | 22          | HT          | 40500    | 27.9-50    |
| Obsolete | F3AD-A501-TFC  | 28.6        | 44.1       | 26.9        | 22          | HT          | 42700    | 30.3 - 45  |
| Active   | FFAP-050Z-TFC  | 28.6        | 44.1       | 26.9        | 22          | HT          | 43100    | 30.4 -45   |
| Obsolete | F3AD-A501-TFD  | 28.6        | 44.1       | 26.9        | 22          | HT          | 42700    | 14.4 - 20  |
| Active   | FFAP-050Z-TFD  | 28.6        | 44.1       | 26.9        | 22          | HT          | 43100    | 14.4 - 20  |
| Obsolete | F3AD-A501-CFV  | 28.6        | 44.1       | 26.9        | 22          | HT          | 42700    | 46.4 - 70  |
| Active   | FFAP-050Z-CFV  | 28.6        | 44.1       | 26.9        | 22          | HT          | 43100    | 43.4 - 70  |
| Obsolete | FGAH-A501-CFV  | 28.6        | 44.1       | 26.9        | 22          | HT          | 43200    | 46.5 - 70  |
| Active   | FFAP-050Z-CFV  | 28.6        | 44.1       | 26.9        | 22          | HT          | 43100    | 43.4 - 70  |
| Obsolete | FGAH-A501-TFC  | 28.6        | 44.1       | 26.9        | 22          | HT          | 43200    | 30.4 - 45  |
| Active   | FFAP-050Z-TFC  | 28.6        | 44.1       | 26.9        | 22          | HT          | 43100    | 30.4 - 45  |
| Obsolete | FGAH-A501-TFD  | 28.6        | 44.1       | 26.9        | 22          | HT          | 43200    | 14.4 - 20  |
| Active   | FFAP-050Z-TFD  | 28.6        | 44.1       | 26.9        | 22          | HT          | 43100    | 14.4 - 20  |
| Obsolete | F3WD-C501-CFV  | 25.8        | 21.8       | 21.1        | 22          | HT          | 45100    | 42.9 - 70  |
| Active   | FFWP-050Z-CFV  | 27.5        | 21.7       | 21.1        | 22          | HT          | 44800    | 39.8 - 70  |
| Obsolete | FGWH-A501-CFV  | 25.8        | 21.8       | 21.1        | 22          | HT          | 45100    | 42.9 - 70  |
| Active   | FFWP-050Z-CFV  | 27.5        | 21.7       | 21.1        | 22          | HT          | 44800    | 39.8 - 70  |
| Obsolete | F3WD-C501-TFC  | 25.8        | 21.8       | 21.1        | 22          | HT          | 45100    | 26.8 - 45  |
| Active   | FFWP-050Z-TFC  | 27.5        | 21.7       | 21.1        | 22          | HT          | 44800    | 26.8 - 45  |
| Obsolete | FGWH-A501-TFC  | 25.8        | 21.8       | 21.1        | 22          | HT          | 45100    | 26.8 - 45  |
| Active   | FFWP-050Z-TFC  | 27.5        | 21.7       | 21.1        | 22          | HT          | 44800    | 26.8 - 45  |
| Obsolete | F3WD-C501-TFD  | 25.8        | 21.8       | 21.1        | 22          | HT          | 45100    | 12.0 - 20  |
| Active   | FFWP-050Z-TFD  | 27.5        | 21.7       | 21.1        | 22          | HT          | 44800    | 12 - 20    |
| Obsolete | FGWH-A501-TFD  | 25.8        | 21.8       | 21.1        | 22          | HT          | 45100    | 12.0 - 20  |
| Active   | FFWP-050Z-TFD  | 27.5        | 21.7       | 21.1        | 22          | HT          | 44800    | 12 - 20    |

Performance @ 25°F evaporator temp, 65°F return gas, 5°F subcooling, 90°F ambient.



## Unit cross reference

| Status   | Product Number | Length (in) | Width (in) | Height (in) | Refrigerant | Application | Capacity | MCA / Fuse |
|----------|----------------|-------------|------------|-------------|-------------|-------------|----------|------------|
| Obsolete | FTAH-A101-CFV  | 24          | 16.8       | 15.9        | 134A        | HT          | 7770     | 14.8-20    |
| Active   | FPAK-012Z-CFV  | 24          | 17.1       | 16.6        | 134A        | HT          | 8250     | 16.9-25    |
| Active   | FFAP-015Z-CFV  | 24          | 18.3       | 16.6        | 134A        | HT          | 7540     | 13.9 - 20  |
| Obsolete | FTAH-A101-TFC  | 24          | 16.8       | 15.9        | 134A        | HT          | 7770     | 10.5-15    |
| Active   | FPAK-012Z-TFC  | 24          | 17.1       | 16.6        | 134A        | HT          | 8250     | 14.2-20    |
| Active   | FFAP-015Z-TFC  | 24          | 18.3       | 16.6        | 134A        | HT          | 7540     | 11.4 - 15  |
| Obsolete | FTAH-A101-TFD  | 24          | 16.8       | 15.9        | 134A        | HT          | 7770     | 5.2-15     |
| Active   | FPAK-012Z-TFD  | 24          | 17.1       | 16.6        | 134A        | HT          | 8250     | 6.2-15     |
| Active   | FFAP-015Z-TFD  | 24          | 18.3       | 16.6        | 134A        | HT          | 7540     | 6.4 - 15   |
| Obsolete | FPWN-C150-TFC  | 24          | 16.2       | 17          | 134A        | HT          | 8900     | 9.4-15     |
| Active   | FFWP-017Z-TFC  | 24          | 16.1       | 16.6        | 134A        | HT          | 9090     | 13 - 20    |
| Obsolete | FPWN-C150-CFV  | 24          | 16.2       | 17          | 134A        | HT          | 8900     | 13.6-20    |
| Active   | FFWP-017Z-CFV  | 24          | 16.1       | 16.6        | 134A        | HT          | 9090     | 15.8 - 25  |
| Obsolete | FPWN-C150-TFD  | 24          | 16.2       | 17          | 134A        | HT          | 8900     | 4.5-15     |
| Active   | FFWP-017Z-TFD  | 24          | 16.1       | 16.6        | 134A        | HT          | 9090     | 5.4 - 15   |
| Obsolete | FTAH-A125-CFV  | 24          | 18.3       | 16.2        | 134A        | HT          | 11200    | 18.4-25    |
| Active   | FPAK-013Z-CFV  | 24.1        | 18.3       | 16.6        | 134A        | HT          | 11800    | 21-35      |
| Active   | FFAP-022Z-CFV  | 25.2        | 34         | 19          | 134A        | HT          | 12300    | 22.4 - 35  |
| Obsolete | FTAH-A125-TFC  | 24          | 18.3       | 16.2        | 134A        | HT          | 11200    | 14.3-20    |
| Active   | FPAK-013Z-TFC  | 24.1        | 18.3       | 16.6        | 134A        | HT          | 11800    | 14.7-20    |
| Active   | FFAP-022Z-TFC  | 25.2        | 34         | 19          | 134A        | HT          | 12300    | 16.1 - 20  |
| Obsolete | FTAH-A125-TFD  | 24          | 18.3       | 16.2        | 134A        | HT          | 11200    | 7.5-15     |
| Active   | FPAK-013Z-TFD  | 24.1        | 18.3       | 16.6        | 134A        | HT          | 11800    | 8.4-15     |
| Active   | FFAP-022Z-TFD  | 25.2        | 34         | 19          | 134A        | HT          | 12300    | 10 - 15    |
| Obsolete | FPWN-C225-TFD  | 24          | 16.1       | 14.6        | 134A        | HT          | 12500    | 5.9-15     |
| Active   | FFWP-022Z-TFD  | 24          | 16.1       | 16.6        | 134A        | HT          | 12500    | 6.8-15     |
| Obsolete | FTAH-A150-CFV  | 24          | 18.3       | 16.2        | 134A        | HT          | 13300    | 21.4-35    |
| Active   | FPAK-015Z-CFV  | 24.1        | 18.3       | 16.6        | 134A        | HT          | 13100    | 23.9-40    |
| Active   | FFAP-030Z-CFV  | 25.2        | 34.1       | 19          | 134A        | HT          | 14100    | 25.3 - 40  |
| Obsolete | FTAH-A150-TFC  | 24          | 18.3       | 16.2        | 134A        | HT          | 13300    | 15.9-20    |
| Active   | FPAK-015Z-TFC  | 24.1        | 18.3       | 16.6        | 134A        | HT          | 13100    | 18.5-30    |
| Active   | FFAP-030Z-TFC  | 25.2        | 34.1       | 19          | 134A        | HT          | 14100    | 19.9 - 30  |
| Obsolete | FTAH-A150-TFD  | 24          | 18.3       | 16.2        | 134A        | HT          | 13300    | 7.5-15     |
| Active   | FPAK-015Z-TFD  | 24.1        | 18.3       | 16.6        | 134A        | HT          | 13100    | 9.7-15     |
| Active   | FFAP-030Z-TFD  | 25.2        | 34.1       | 19          | 134A        | HT          | 14100    | 11.3 - 15  |
| Obsolete | FPWN-C300-TFC  | 24          | 16.9       | 14.8        | 134A        | HT          | 15900    | 13.0-20    |
| Active   | FFWP-030Z-TFC  | 24.1        | 16.1       | 16.6        | 134A        | HT          | 14100    | 13.3-20    |
| Obsolete | FPWN-C300-CFV  | 24          | 16.9       | 15          | 134A        | HT          | 15900    | 20.0-35    |
| Active   | FFWP-030Z-CFV  | 24.1        | 16.1       | 16.6        | 134A        | HT          | 14100    | 22.5-40    |
| Obsolete | FPWN-C300-TFD  | 24          | 16.9       | 14.8        | 134A        | HT          | 15900    | 5.9-15     |
| Active   | FFWP-030Z-TFD  | 24.1        | 16.1       | 16.6        | 134A        | HT          | 14100    | 6.8-15     |
| Obsolete | FTAH-A201-CFV  | 25.3        | 34.1       | 18.9        | 134A        | HT          | 16400    | 29.1-40    |
| Active   | FPAK-020Z-CFV  | 25          | 34.1       | 19          | 134A        | HT          | 17700    | 31.8-50    |
| Active   | FFAP-032Z-CFV  | 25.2        | 34.1       | 19          | 134A        | HT          | 18500    | 31.8 - 50  |
| Obsolete | FTAH-A201-TFC  | 25.3        | 34.1       | 18.9        | 134A        | HT          | 16400    | 20.0-25    |
| Active   | FPAK-020Z-TFC  | 25          | 34.1       | 19          | 134A        | HT          | 17700    | 21.8-30    |
| Active   | FFAP-032Z-TFC  | 25.2        | 34.1       | 19          | 134A        | HT          | 18500    | 21.8 - 30  |
| Obsolete | FTAH-A201-TFD  | 25.3        | 34.1       | 18.9        | 134A        | HT          | 16400    | 9.6-15     |
| Active   | FPAK-020Z-TFD  | 25          | 34.1       | 19          | 134A        | HT          | 17700    | 11.8-15    |
| Active   | FFAP-032Z-TFD  | 25.2        | 34.1       | 19          | 134A        | HT          | 18500    | 11.8 - 15  |
| Obsolete | FPWN-C325-CFV  | 26.2        | 21         | 15.5        | 134A        | HT          | 17800    | 23.3-40    |
| Active   | FFWP-032Z-CFV  | 27.2        | 21.5       | 18.2        | 134A        | HT          | 19000    | 23.1 - 40  |
| Obsolete | FPWN-C325-TFC  | 25          | 21         | 15.8        | 134A        | HT          | 17800    | 14.3-25    |
| Active   | FFWP-032Z-TFC  | 27.2        | 21.5       | 18.2        | 134A        | HT          | 19000    | 13.9 - 20  |

Performance @ 25°F evaporator temp, 65°F return gas, 5°F subcooling, 90°F ambient.

## Unit cross reference

| Status   | Product Number | Length (in) | Width (in) | Height (in) | Refrigerant | Application | Capacity | MCA / Fuse |
|----------|----------------|-------------|------------|-------------|-------------|-------------|----------|------------|
| Obsolete | FJAL-A103-CFV  | 24          | 17.3       | 15          | 404A        | LT          | 4950     | 13.2-20    |
| Active   | FPAK-010Z-CFV  | 24          | 17.1       | 16.6        | 404A        | LT          | 5290     | 13.7-20    |
| Active   | FFAP-015Z-CFV  | 24          | 18.3       | 16.6        | 404A        | LT          | 5600     | 13.9 - 20  |
| Obsolete | FJAL-A103-TFC  | 24          | 17.3       | 15          | 404A        | LT          | 4950     | 9.2-15     |
| Active   | FPAK-010Z-TFC  | 24          | 17.1       | 16.6        | 404A        | LT          | 5290     | 11.2-15    |
| Active   | FFAP-015Z-TFC  | 24          | 18.3       | 16.6        | 404A        | LT          | 5600     | 11.4 - 15  |
| Obsolete | FJWL-C103-CFV  | 24          | 16.4       | 15          | 404A        | LT          | 5550     | 12.6-20    |
| Active   | FFWP-015Z-CFV  | 24          | 16.1       | 16.6        | 404A        | LT          | 5240     | 12.5 - 20  |
| Obsolete | FJWL-C103-TFC  | 24          | 16.1       | 14.6        | 404A        | LT          | 5550     | 8.6-15     |
| Active   | FFWP-015Z-TFC  | 24          | 16.1       | 16.6        | 404A        | LT          | 5240     | 10 - 15    |
| Obsolete | FJAL-A150-CFV  | 24          | 18.2       | 17.2        | 404A        | LT          | 6290     | 18.4-30    |
| Active   | FPAK-012Z-CFV  | 24          | 17.1       | 16.6        | 404A        | LT          | 6060     | 16.9-25    |
| Active   | FFAP-015Z-CFV  | 24          | 18.3       | 16.6        | 404A        | LT          | 5600     | 13.9 - 20  |
| Obsolete | FJAL-A250-CFV  | 24          | 16.8       | 13.6        | 404A        | LT          | 8110     | 22.9-35    |
| Active   | FPAK-013Z-CFV  | 24.1        | 18.3       | 16.6        | 404A        | LT          | 8850     | 21-35      |
| Active   | FFAP-020Z-CFV  | 25.2        | 34         | 19          | 404A        | LT          | 7560     | 16.8 - 25  |
| Obsolete | FJAL-A250-TFC  | 24          | 18.3       | 16.2        | 404A        | LT          | 8110     | 15.9-20    |
| Active   | FPAK-013Z-TFC  | 24.1        | 18.3       | 16.6        | 404A        | LT          | 8850     | 14.7-20    |
| Active   | FFAP-020Z-TFC  | 25.2        | 34         | 19          | 404A        | LT          | 7560     | 13.9 - 20  |
| Obsolete | FJAL-B200-CFV  | 24.1        | 18.3       | 16.2        | 404A        | LT          | 8260     | 17.2-25    |
| Active   | FPAK-013Z-CFV  | 24.1        | 18.3       | 16.6        | 404A        | LT          | 8850     | 21-35      |
| Active   | FFAP-020Z-CFV  | 25.2        | 34         | 19          | 404A        | LT          | 7560     | 16.8 - 25  |
| Obsolete | FJAL-B200-TFC  | 24.1        | 18.3       | 16.2        | 404A        | LT          | 8260     | 11.7-15    |
| Active   | FPAK-013Z-TFC  | 24.1        | 18.3       | 16.6        | 404A        | LT          | 8850     | 14.7-20    |
| Active   | FFAP-020Z-TFC  | 25.2        | 34         | 19          | 404A        | LT          | 7560     | 13.9 - 20  |
| Obsolete | FJAL-B200-TFD  | 24.1        | 16.2       | 16.2        | 404A        | LT          | 8260     | 6.2-15     |
| Active   | FPAK-013Z-TFD  | 24.1        | 18.3       | 16.6        | 404A        | LT          | 8850     | 8.4-15     |
| Active   | FFAP-020Z-TFD  | 25.2        | 34         | 19          | 404A        | LT          | 7560     | 7.1 - 15   |
| Obsolete | FJAL-A225-CFV  | 25.2        | 34         | 18.9        | 404A        | LT          | 9010     | 16.6-25    |
| Active   | FFAP-022Z-CFV  | 25.2        | 34         | 19          | 404A        | LT          | 9210     | 22.4 - 35  |
| Active   | FPAK-013Z-CFV  | 24.1        | 18.3       | 16.6        | 404A        | LT          | 8850     | 21-35      |
| Obsolete | FJAL-A225-TFD  | 25.2        | 34         | 18.9        | 404A        | LT          | 9010     | 6.1-15     |
| Active   | FFAP-022Z-TFD  | 25.2        | 34         | 19          | 404A        | LT          | 9210     | 10 - 15    |
| Active   | FPAK-013Z-TFD  | 24.1        | 18.3       | 16.6        | 404A        | LT          | 8850     | 8.4-15     |
| Obsolete | FJAL-A225-TFC  | 25.2        | 34         | 18.9        | 404A        | LT          | 9010     | 11.1-15    |
| Active   | FFAP-022Z-TFC  | 25.2        | 34         | 19          | 404A        | LT          | 9210     | 16.1 - 20  |
| Active   | FPAK-013Z-TFC  | 24.1        | 18.3       | 16.6        | 404A        | LT          | 8850     | 14.7-20    |
| Obsolete | FJWL-C200-TFD  | 24          | 16.4       | 15.4        | 404A        | LT          | 9090     | 5.4-15     |
| Active   | FFWP-022Z-TFD  | 24          | 16.1       | 16.6        | 404A        | LT          | 8600     | 6.8-15     |
| Obsolete | FJWL-C200-TFC  | 24          | 16.4       | 14.6        | 404A        | LT          | 9090     | 9.3-15     |
| Active   | FFWP-022Z-TFC  | 24          | 16.1       | 16.6        | 404A        | LT          | 8600     | 13.3 - 20  |
| Obsolete | FJWL-C200-CFV  | 24          | 16.4       | 15          | 404A        | LT          | 9090     | 14.8-25    |
| Active   | FFWP-022Z-CFV  | 24          | 16.1       | 16.6        | 404A        | LT          | 8600     | 19.6 - 35  |
| Obsolete | FJWL-C301-TFC  | 25          | 21         | 21.1        | 404A        | LT          | 9090     | 9.3-15     |
| Active   | FFWP-030Z-TFC  | 24.1        | 16.1       | 16.6        | 404A        | LT          | 10300    | 13.3-20    |
| Obsolete | FJAL-B301-TFC  | 25.2        | 34         | 19          | 404A        | LT          | 13100    | 18.6-20    |
| Active   | FFAP-032Z-TFC  | 25.2        | 34.1       | 19          | 404A        | LT          | 13700    | 21.8 - 30  |
| Active   | FPAK-020Z-TFC  | 25          | 34.1       | 19          | 404A        | LT          | 13300    | 21.8-30    |
| Obsolete | FJAL-B301-CFV  | 25.2        | 34         | 19          | 404A        | LT          | 13100    | 26.7-35    |
| Active   | FFAP-032Z-CFV  | 25.2        | 34.1       | 19          | 404A        | LT          | 13700    | 31.8 - 50  |
| Active   | FPAK-020Z-CFV  | 25          | 34.1       | 19          | 404A        | LT          | 13300    | 31.8-50    |
| Obsolete | FJAL-B301-TFD  | 25.2        | 34         | 19          | 404A        | LT          | 13100    | 10.1-15    |
| Active   | FFAP-032Z-TFD  | 25.2        | 34.1       | 19          | 404A        | LT          | 13700    | 11.8 - 15  |
| Active   | FPAK-039Z-TFD  | 25.2        | 34.1       | 19          | 404A        | LT          | 16900    | 15-20      |
| Obsolete | FJWL-C301-CFV  | 25          | 21         | 21.1        | 404A        | LT          | 13200    | 21.4-35    |
| Active   | FFWP-032Z-CFV  | 27.2        | 21.5       | 18.2        | 404A        | LT          | 13300    | 23.1 - 40  |
| Obsolete | FJWL-C301-TFD  | 25          | 21         | 21.1        | 404A        | LT          | 13200    | 7.6-15     |
| Active   | FFWP-032Z-TFD  | 27.2        | 21.5       | 18.2        | 404A        | LT          | 13300    | 7 - 15     |
| Obsolete | FJAL-A390-TFC  | 25.2        | 34         | 19          | 404A        | LT          | 16000    | 21.2-25    |
| Active   | FPAK-039Z-TFC  | 25.2        | 34.1       | 19          | 404A        | LT          | 16900    | 28.4-45    |
| Active   | FFAP-040Z-TFC  | 28.2        | 44.1       | 26.8        | 404A        | LT          | 15700    | 23 - 35    |
| Obsolete | FJAL-A390-CFV  | 25.2        | 34         | 19          | 404A        | LT          | 16000    | 31.4-45    |
| Active   | FPAK-039Z-CFV  | 25.2        | 34.1       | 19          | 404A        | LT          | 16900    | 35.4-50    |
| Active   | FFAP-040Z-CFV  | 28.2        | 44.1       | 26.8        | 404A        | LT          | 15700    | 33.1 - 50  |
| Obsolete | FJAL-A390-TFD  | 25.2        | 34         | 19          | 404A        | LT          | 16000    | 11.5-15    |
| Active   | FPAK-039Z-TFD  | 25.2        | 34.1       | 19          | 404A        | LT          | 16900    | 15-20      |
| Active   | FFAP-040Z-TFD  | 28.2        | 44.1       | 26.8        | 404A        | LT          | 15700    | 11 - 15    |
| Obsolete | FJWL-C390-TFC  | 25          | 21         | 21.1        | 404A        | LT          | 16700    | 15.9-25    |
| Active   | FFWP-040Z-TFC  | 27.5        | 21         | 21.1        | 404A        | LT          | 15200    | 19.4-30    |

Performance @ -10°F evaporator temp, 40°F return gas, 5°F subcooling, 90°F ambient.

## Unit cross reference

| Status   | Product Number | Length (in) | Width (in) | Height (in) | Refrigerant | Application | Capacity | MCA / Fuse |
|----------|----------------|-------------|------------|-------------|-------------|-------------|----------|------------|
| Obsolete | FJAM-A150-CFV  | 24          | 18.3       | 16.4        | 404A        | MT          | 12500    | 16.5-20    |
| Active   | FFAP-017Z-CFV  | 24.1        | 18.3       | 16.6        | 404A        | MT          | 13100    | 17.2 - 25  |
| Obsolete | FJAM-A150-TFC  | 24          | 18.3       | 16.2        | 404A        | MT          | 12500    | 12.2-15    |
| Active   | FFAP-017Z-TFC  | 24.1        | 18.3       | 16.6        | 404A        | MT          | 13100    | 14.4 - 20  |
| Obsolete | FJAM-A150-TFD  | 24.1        | 18.3       | 16.9        | 404A        | MT          | 12500    | 6.1-15     |
| Active   | FFAP-017Z-TFD  | 24.1        | 18.3       | 16.6        | 404A        | MT          | 13100    | 7.0 - 15   |
| Obsolete | FJAM-A200-TFC  | 25.2        | 34         | 18.9        | 404A        | MT          | 16100    | 11.7-15    |
| Active   | FFAP-020Z-TFC  | 25.2        | 34         | 19          | 404A        | MT          | 15300    | 13.9 - 20  |
| Obsolete | FJAM-A200-CFV  | 25.2        | 34         | 19          | 404A        | MT          | 16100    | 15.9-20    |
| Active   | FFAP-020Z-CFV  | 25.2        | 34         | 19          | 404A        | MT          | 15300    | 16.8 - 25  |
| Obsolete | FJAM-A225-TFC  | 25          | 34         | 18.9        | 404A        | MT          | 17900    | 13.7-20    |
| Active   | FFAP-022Z-TFC  | 25.2        | 34         | 19          | 404A        | MT          | 18900    | 16.1 - 20  |
| Obsolete | FJAM-A225-CFV  | 25          | 34         | 18.9        | 404A        | MT          | 17900    | 17.8-25    |
| Active   | FFAP-022Z-CFV  | 25.2        | 34         | 19          | 404A        | MT          | 18900    | 22.4 - 35  |
| Obsolete | FJWM-C200-CFV  | 24          | 16.8       | 15          | 404A        | MT          | 17900    | 13.6-20    |
| Active   | FFWP-020Z-CFV  | 24          | 16.1       | 16.6        | 404A        | MT          | 17000    | 15 - 25    |
| Obsolete | FJWM-C200-TFC  | 24          | 16.1       | 13.9        | 404A        | MT          | 17900    | 9.4-15     |
| Active   | FFWP-020Z-TFC  | 24          | 16.1       | 16.6        | 404A        | MT          | 17000    | 12.1 - 20  |
| Obsolete | FJAM-A225-TFD  | 25          | 34         | 18.9        | 404A        | MT          | 17900    | 7.4-15     |
| Active   | FFAP-022Z-TFD  | 25.2        | 34         | 19          | 404A        | MT          | 18900    | 10 - 15    |
| Obsolete | FPWN-C225-TFC  | 24          | 16.1       | 14.2        | 404A        | MT          | 20900    | 11.4-20    |
| Active   | FFWP-022Z-TFC  | 24          | 16.1       | 16.6        | 404A        | MT          | 20400    | 13.3 - 20  |
| Obsolete | FPWN-C225-CFV  | 24          | 16.8       | 15          | 404A        | MT          | 20900    | 15.5-25    |
| Active   | FFWP-022Z-CFV  | 24          | 16.1       | 16.6        | 404A        | MT          | 20400    | 19.6 - 35  |
| Obsolete | FJAM-A300-TFC  | 25.1        | 34         | 18.9        | 404A        | MT          | 23800    | 18.8-20    |
| Active   | FFAP-030Z-TFC  | 25.2        | 34.1       | 19          | 404A        | MT          | 21600    | 19.9 - 30  |
| Obsolete | FJAM-A300-TFD  | 25.1        | 34         | 18.9        | 404A        | MT          | 23800    | 9.1-15     |
| Active   | FFAP-030Z-TFD  | 25.2        | 34.1       | 19          | 404A        | MT          | 21600    | 11.3 - 15  |
| Obsolete | FJAM-A325-CFV  | 25.2        | 34         | 19          | 404A        | MT          | 26100    | 29.1-40    |
| Active   | FFAP-032Z-CFV  | 25.2        | 34.1       | 19          | 404A        | MT          | 27300    | 31.8 - 50  |
| Obsolete | FJAM-A325-TFC  | 25.2        | 34         | 19          | 404A        | MT          | 26100    | 20.1-25    |
| Active   | FFAP-032Z-TFC  | 25.2        | 34.1       | 19          | 404A        | MT          | 27300    | 21.8 - 30  |
| Obsolete | FJAM-A325-TFD  | 25.2        | 34         | 19          | 404A        | MT          | 26100    | 9.6-15     |
| Active   | FFAP-032Z-TFD  | 25.2        | 34.1       | 19          | 404A        | MT          | 27300    | 11.8 - 15  |
| Obsolete | FJAM-B400-TFD  | 28.2        | 44.1       | 26.8        | 404A        | MT          | 37800    | 12.0-15    |
| Active   | FFAP-040Z-TFD  | 28.2        | 44.1       | 26.8        | 404A        | MT          | 34200    | 11 - 15    |
| Obsolete | FJAM-B400-TFC  | 28.2        | 44.1       | 26.8        | 404A        | MT          | 37800    | 23.1-35    |
| Active   | FFAP-040Z-TFC  | 28.2        | 44.1       | 26.8        | 404A        | MT          | 34200    | 23 - 35    |
| Obsolete | FJAM-B500-TFC  | 28.2        | 44.1       | 26.6        | 404A        | MT          | 41200    | 27.0-40    |
| Active   | FFAP-042Z-TFC  | 24          | 18.3       | 16.1        | 404A        | MT          | 40800    | 31.5 - 50  |
| Obsolete | FJAM-B500-TFD  | 28.2        | 44.1       | 26.6        | 404A        | MT          | 41200    | 14.8-20    |
| Active   | FFAP-042Z-TFD  | 24          | 18.3       | 16.1        | 404A        | MT          | 40800    | 14.9 - 20  |
| Obsolete | FJAM-B500-CFV  | 28.2        | 44.1       | 26.8        | 404A        | MT          | 41200    | 42.0-60    |
| Active   | FFAP-042Z-CFV  | 24          | 18.3       | 16.1        | 404A        | MT          | 40800    | 38.9 - 60  |
| Obsolete | FJWM-C400-TFC  | 26.2        | 21         | 21.1        | 404A        | MT          | 41400    | 19.5-35    |
| Active   | FFWP-042Z-TFC  | 27.2        | 21.6       | 21.1        | 404A        | MT          | 43000    | 27.9-50    |
| Obsolete | FJWM-C400-CFV  | 26.2        | 21         | 21.1        | 404A        | MT          | 41400    | 29.9-50    |
| Active   | FFWP-042Z-CFV  | 27.2        | 21.6       | 21.1        | 404A        | MT          | 43000    | 35.3 - 60  |
| Obsolete | FJWM-C500-TFC  | 25          | 21.1       | 21.3        | 404A        | MT          | 46300    | 23.4-40    |
| Active   | FFWP-042Z-TFC  | 27.2        | 21.6       | 21.1        | 404A        | MT          | 43000    | 27.9-50    |

Performance @ 25°F evaporator temp, 65°F return gas, 5°F subcooling, 90°F ambient.

EmersonClimate.com

2011DS-4\_FFAP R3 (1/14) Emerson, Copeland Scroll, Copeland PerformanceAlert, Copevap and Discus are trademarks of Emerson Electric Co. or one of its affiliated companies.  
©2014 Emerson Climate Technologies, Inc. All rights reserved. Printed in the USA

**EMERSON. CONSIDER IT SOLVED.™**