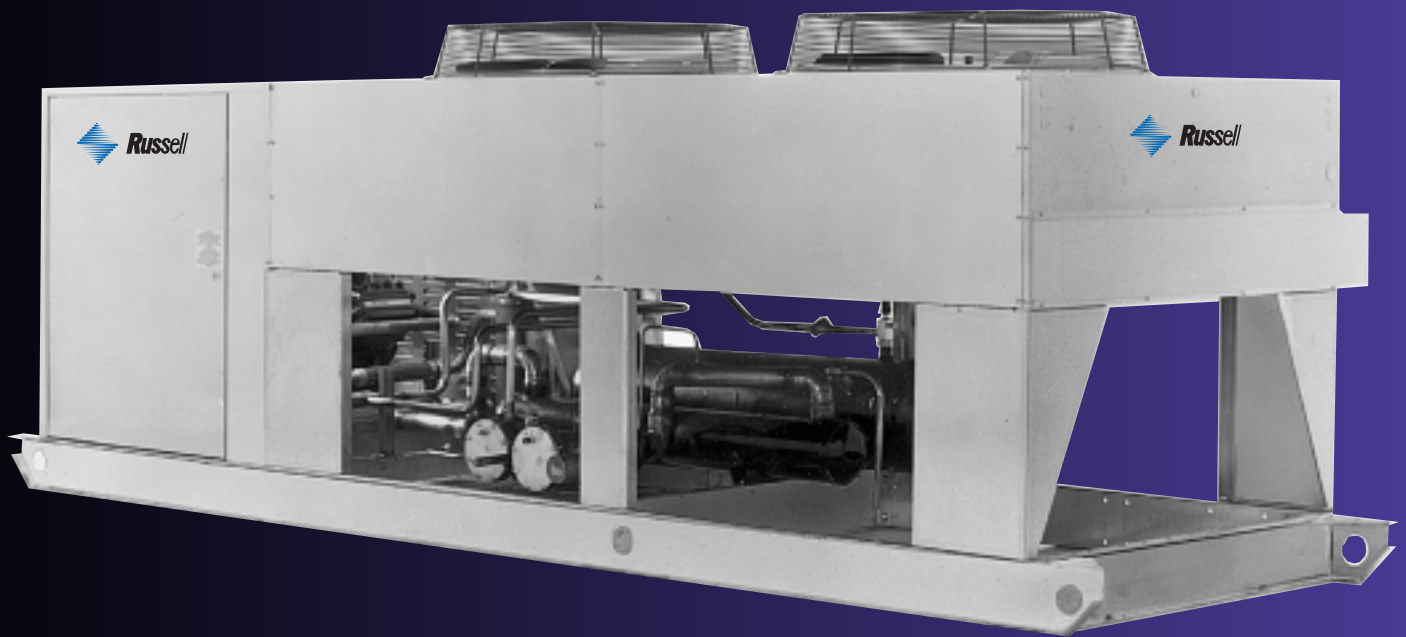




V Series

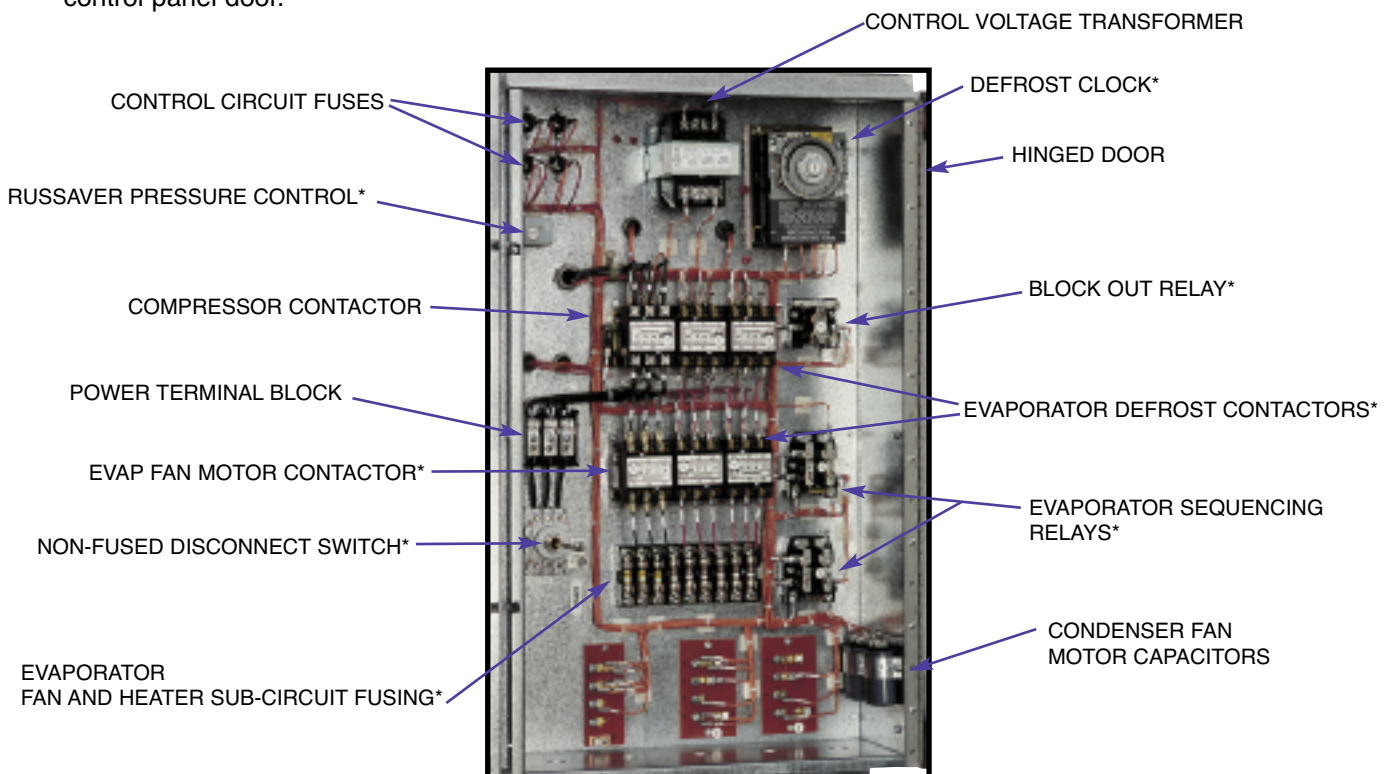
*Air Cooled
Condensing Units
20 to 80 HP
Brochure 520.8
February, 2007*





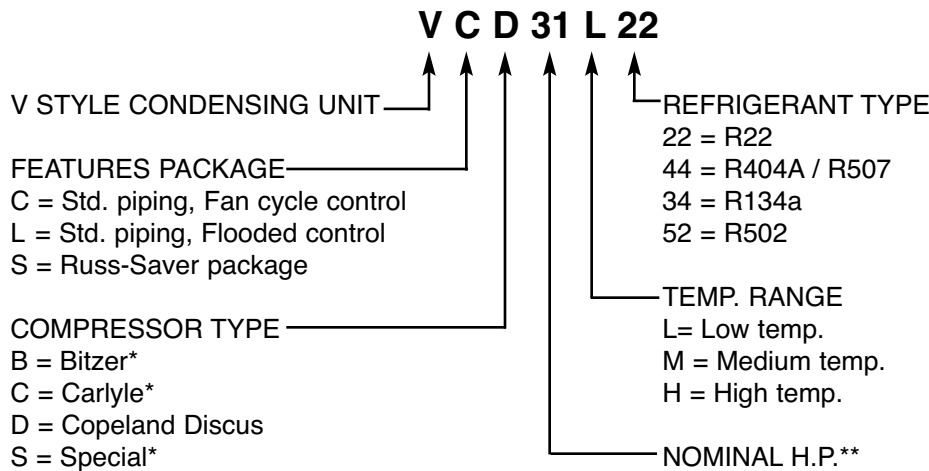
The **outdoor housing** of the unit has been re-engineered. Removing only a few screws allows complete removal of the compressor housing top panel, side panel and corner post. This gives the mechanic quick, unrestricted access to the compressor, all controls and components located within the compressor compartment. Or, just a single panel can be removed, depending on the requirements of the service call.

The **large control panel** has abundant space for the controls you choose. The components are intelligently arranged and laid out in a logical fashion which is easy to understand and work with. Each control and wire is clearly marked with a name or number as shown on the wiring diagram which is permanently affixed to the control panel door.



* OPTIONAL ITEMS, SEE PAGE 3

MODEL NUMBER NOMENCLATURE



| NOMINAL COMPRESSOR HP | | |
|-----------------------|-----------------|---------------|
| SINGLE COMP. | PARALLEL PIPING | DUAL PIPING |
| 20HP | 17(2) 7.5 HP | 18 (2) 7.5 HP |
| 25HP | 21 (2) 10HP | 23 (2) 10HP |
| 27HP | 24 (2) 12HP | 26 (2) 12HP |
| 30HP | 31 (2) 15HP | 32 (2) 15HP |
| 35HP | 41 (2) 20HP | 42 (2) 20HP |
| 40HP | 44 (2) 22HP | 46 (2) 22HP |
| 50HP | 51 (2) 25HP | 52 (2) 25HP |
| 60HP | 54 (2) 27HP | 56 (2) 27HP |
| | 61 (2) 30HP | 62 (2) 30HP |
| | 71 (2) 35HP | 72 (2) 35HP |
| | 81 (2) 40HP | 82 (2) 40HP |

| | FEATURES AT A GLANCE | MODEL | | |
|------------------------------|---|-------|-----|-----|
| | | VC | VL | VS |
| ELECTRICAL COMPONENTS | Crankcase heater | STD | STD | STD |
| | Oil failure control | STD | STD | STD |
| | High - Low pressure control - manual(high)/automatic(low) reset | STD | STD | STD |
| | Compressor contactor | STD | STD | STD |
| | Control circuit fuses - standard 230/1 | STD | STD | STD |
| | Power terminal block | STD | STD | STD |
| CONDENSER | Copper tubes with Aluminum fins | STD | STD | STD |
| | Subcooling circuit | STD | STD | STD |
| | Fan motor - PSC overload protection | STD | STD | STD |
| | Fan blade - individually balanced | STD | STD | STD |
| | Fan guard - heavy duty resilient wire basket | STD | STD | STD |
| PIPING COMPONENTS | Suction line vibration eliminator | STD | STD | STD |
| | Replaceable core liquid line filter / drier | STD | STD | STD |
| | Suction line filter (replaceable core some models) | STD | STD | STD |
| | Discharge line vibration eliminator | STD | STD | STD |
| | High Pressure control hoses | STD | STD | STD |
| RECEIVER | Inlet and outlet isolation valves | STD | STD | STD |
| | Pressure relief valve | STD | STD | STD |
| HOUSING | Mill galvanized steel with removable access panels | STD | STD | STD |
| | Control panel with hinged door | STD | STD | STD |
| | Heavy galvanized steel base rails | STD | STD | STD |
| LOW AMBIENT CONTROLS | Pressure fan cycling control | STD | STD | N/A |
| | Flooded condenser | N/A | STD | N/A |
| | Russ-Saver — All ambient energy saver | N/A | N/A | STD |
| TESTING | UL / CUL listed — all models | STD | STD | STD |
| | Leak detection, dielectric and run tests | STD | STD | STD |
| | Dry nitrogen holding charge | STD | STD | STD |

- OPTIONS:**
- 4 Year extended compressor warranty
 - Air defrost time clock
 - Compressor unloading
 - Copper or coated condenser fins
 - Electric defrost components
 - Evaporator sub circuit fusing
 - Fused or non fused disconnect
 - Heated and insulated receiver— not UL

- Hot Gas defrost components
- Liquid line solenoid valve
- Oil Separator
- Crankcase pressure regulator
- Sentronic oil safety control
- Stainless steel superhoses
- Suction accumulator

* Contact factory for details.

RUSS-SAVER

The initial cost of quality refrigeration equipment is a substantial investment. But the **costs of installation and operation** are also formidable. Rising to the challenge, Russell engineers have designed the **RUSS-SAVER** system to meet the highest standards of performance and reliability while effectively addressing the problem of these profit draining costs.

- **REDUCED INSTALLATION COSTS**

The installation of a refrigeration system which uses **RUSS-SAVER** requires a smaller refrigerant charge than equipment which uses other types of low ambient controls. As the more expensive zero ozone depleting refrigerants become the refrigerants of choice, the reduced charge requirements provided by **RUSS-SAVER** affords ***substantial and immediate cost saving benefits.***

- **REDUCED OPERATING COSTS**

The most expensive part of an *operating* refrigeration system is the cost of energy to operate the compressor. Day and night, year after year, the cost of electricity to operate your equipment is **unrelenting**. These dollars are pulled right from your bottom line.

The **RUSS-SAVER** system is designed to take advantage of reduced ambient conditions during non-peak requirements. As the outside air temperature decreases, head pressures are allowed to drop. This action results in the compressor pumping more refrigerant per stroke while requiring less energy; **saving substantial amounts of energy and your money!**

- **RUSS-SAVER even saves money during high ambient conditions.**

The sub cooling loop provided in the condenser of the **RUSS-SAVER** condensing unit increases the system efficiency 1/2% for each degree of sub cooling provided, thereby making the compressors job easier. Combined with Copeland's energy efficient DISCUS compressors, **RUSS-SAVER's** efficiency saves you money during summer operation and even more during the winter months.

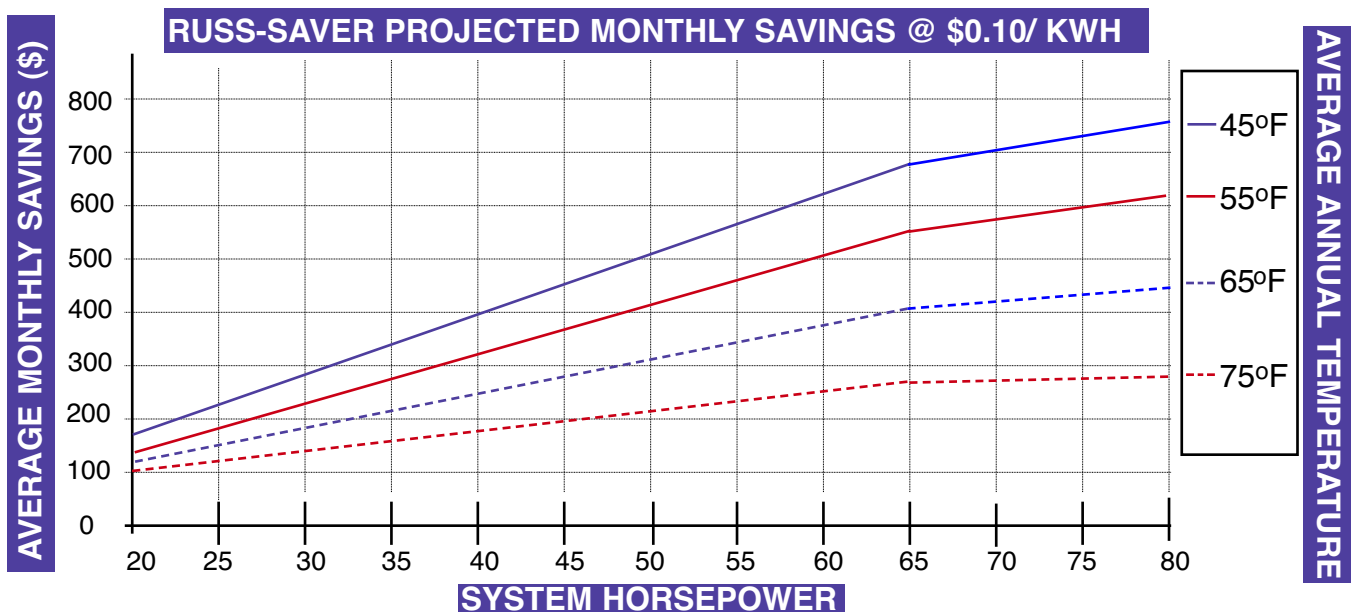
RUSS-SAVER

To estimate your average monthly savings:

- 1) Select a **RUSS-SAVER** system that meets your refrigeration requirements.
- 2) Determine the Average Annual Outdoor Air Temperature from the table below.
- 3) Using the Projected Monthly Savings graph, locate the system nominal horse power at the bottom of the graph.
- 4) Go straight up to the appropriate Annual Average Outdoor Temperature curve, then go horizontally to the left to determine your Estimated Monthly Savings.
- 5) To calculate your Estimated Monthly Savings for energy costs other than \$0.10 KWH, divide the Estimated Monthly Savings by 0.10 and multiply the result by your local electric utility rate.
- 6) To determine your Estimated Yearly Savings, multiply the Estimated Monthly Savings by 12.

AVERAGE ANNUAL OUTDOOR AIR TEMPERATURE

| STATE & STATION | ANNUAL AVG. °F | STATE & STATION | ANNUAL AVG. °F | STATE & STATION | ANNUAL AVG. °F | STATE & STATION | ANNUAL AVG. °F |
|------------------|----------------|--------------------|----------------|-------------------|----------------|-----------------|----------------|
| AL Mobile | 70 | IA Des Moines | 50 | NM Albuquerque | 60 | VT Burlington | 45 |
| AK Juneau | 40 | KS Wichita | 55 | NY Buffalo | 45 | VA Richmond | 60 |
| AZ Phoenix | 70 | KY Louisville | 55 | NY New York | 55 | WA Seattle | 50 |
| AR Little Rock | 60 | LA New Orleans | 70 | NC Charlotte | 60 | WV Charleston | 55 |
| CA Los Angeles | 60 | ME Portland | 45 | ND Bismarck | 45 | WI Milwaukee | 45 |
| CA San Francisco | 55 | MD Baltimore | 55 | OH Cleveland | 50 | WY Cheyenne | 45 |
| CO Denver | 50 | MA Boston | 50 | OH Columbus | 50 | | |
| CT Hartford | 50 | MI Detroit | 50 | OK Oklahoma City | 60 | CANADA | |
| DE Wilmington | 55 | MN Sault St. Marie | 40 | OR Portland | 55 | ALB Calgary | 40 |
| D.C. Washington | 55 | MINneapolis | 45 | PA Philadelphia | 50 | B.C. Vancouver | 50 |
| FL Jacksonville | 70 | MS Jackson | 65 | RI Providence | 50 | MAN Winnipeg | 35 |
| FL Miami | 75 | MO St. Louis | 55 | SC Columbia | 65 | N.B. St. John | 45 |
| GA Atlanta | 60 | MT Great Falls | 45 | SD Sioux Falls | 45 | N.F. St. John's | 40 |
| HI Honolulu | 75 | NE Omaha | 50 | TN Nashville | 60 | N.S. Halifax | 45 |
| ID Boise | 50 | NV Reno | 50 | TX Dallas | 65 | ONT Toronto | 45 |
| IL Chicago | 50 | NH Concord | 45 | TX El Paso | 65 | QUE Montreal | 45 |
| IN Indianapolis | 50 | NJ Atlantic City | 55 | UT Salt Lake City | 50 | YUK Dawson | 25 |



BTUH CAPACITIES (MBH)
R-22 HIGH TEMP - SINGLE COMPRESSOR
SUCTION TEMPERATURE °F
90° AMBIENT

| VC / VL / VS | +45° | +40° | +35° | +25° | +20° | +10° |
|--------------|-------|-------|-------|-------|-------|-------|
| 20H22 | 235.4 | 214.2 | 194.6 | 161.4 | 145.6 | 113.2 |
| 25H22 | 308.1 | 274.8 | 252.1 | 203.2 | 181.9 | 140.6 |
| 30H22 | 349.0 | 322.2 | 289.2 | 244.3 | 221.4 | 172.2 |
| 35H22 | 448.1 | 409.0 | 368.8 | 306.2 | 276.4 | 216.9 |
| 40H22 | 518.1 | 479.3 | 431.0 | 363.8 | 330.1 | 259.6 |
| 50H22 | 622.8 | 577.8 | 529.1 | 436.1 | 394.7 | 304.7 |
| 60H22 | 712.4 | 642.1 | 555.0 | 487.0 | 441.1 | 348.4 |

95° AMBIENT

| VC / VL / VS | +45° | +40° | +35° | +25° | +20° | +10° |
|--------------|-------|-------|-------|-------|-------|-------|
| 20H22 | 228.3 | 208.0 | 188.7 | 156.6 | 141.3 | 109.7 |
| 25H22 | 297.9 | 266.0 | 243.8 | 196.7 | 176.1 | 139.5 |
| 30H22 | 338.3 | 312.6 | 280.1 | 236.5 | 214.3 | 166.2 |
| 35H22 | 434.1 | 397.0 | 357.3 | 297.0 | 268.2 | 210.4 |
| 40H22 | 500.3 | 464.4 | 416.8 | 352.8 | 320.0 | 252.1 |
| 50H22 | 604.4 | 561.1 | 498.7 | 422.8 | 382.5 | 294.1 |
| 60H22 | 690.7 | 623.3 | 572.6 | 472.4 | 427.7 | 370.1 |

100° AMBIENT

| VC / VL / VS | +45° | +40° | +35° | +25° | +20° | +10° |
|--------------|-------|-------|-------|-------|-------|-------|
| 20H22 | 220.8 | 201.5 | 182.7 | 151.7 | 136.8 | 106.1 |
| 25H22 | 287.5 | 257.2 | 235.4 | 190.1 | 170.2 | 131.3 |
| 30H22 | 327.4 | 303.0 | 270.9 | 228.8 | 207.0 | 160.2 |
| 35H22 | 420.2 | 385.1 | 345.9 | 287.9 | 260.0 | 204.1 |
| 40H22 | 482.4 | 448.9 | 402.4 | 341.6 | 310.0 | 244.6 |
| 50H22 | 585.7 | 544.2 | 483.0 | 409.4 | 370.2 | 284.8 |
| 60H22 | 669.5 | 604.8 | 555.1 | 458.5 | 414.5 | 326.0 |

110° AMBIENT

| VC / VL / VS | +45° | +40° | +35° | +25° | +20° | +10° |
|--------------|-------|-------|-------|-------|-------|-------|
| 20H22 | 205.5 | 188.1 | 170.1 | 141.6 | 127.6 | 98.6 |
| 25H22 | 266.2 | 238.8 | 218.0 | 176.6 | 158.0 | 121.6 |
| 30H22 | 305.1 | 282.9 | 252.1 | 212.9 | 192.4 | 148.2 |
| 35H22 | 392.0 | 360.8 | 323.1 | 270.0 | 244.0 | 192.1 |
| 40H22 | 445.9 | 418.0 | 373.3 | 319.2 | 290.4 | 230.2 |
| 50H22 | 547.8 | 509.6 | 451.2 | 382.7 | 345.7 | 265.2 |
| 60H22 | 628.1 | 569.0 | 521.0 | 430.8 | 389.5 | 304.7 |

BTUH CAPACITIES (MBH) R22 HIGH TEMP - PARALLEL / DUAL SYSTEMS

SUCTION TEMPERATURE °F

90° AMBIENT

| VC / VL / VS | +45° | +40° | +35° | +25° | +20° | +10° |
|----------------|---------|-------|-------|-------|-------|-------|
| 17H22 / 18H22* | 272.2 | 248.4 | 226.3 | 185.8 | 167.4 | 134.3 |
| 21H22 / 23H22* | 317.3 | 290.0 | 264.5 | 218.4 | 197.5 | 160.3 |
| 24H22 / 26H22* | 364.7 | 334.8 | 303.1 | 251.6 | 226.3 | 182.5 |
| 31H22 / 32H22* | 420.5 | 385.3 | 352.0 | 291.0 | 263.1 | 212.2 |
| 41H22 / 42H22* | 469.7 | 430.2 | 393.9 | 323.9 | 292.3 | 238.0 |
| 51H22 / 52H22* | 603.9 | 550.1 | 501.1 | 406.8 | 364.2 | 281.5 |
| 61H22 / 62H22* | 706.9 | 646.5 | 592.9 | 489.1 | 443.2 | 331.3 |
| 71H22 / 72H22* | 901.4 | 821.0 | 749.8 | 614.2 | 554.7 | 428.7 |
| 81H22 / 82H22* | 1,048.3 | 960.4 | 880.9 | 729.6 | 661.8 | 509.2 |

95° AMBIENT

| VC / VL / VS | +45° | +40° | +35° | +25° | +20° | +10° |
|----------------|---------|-------|-------|-------|-------|-------|
| 17H22 / 18H22* | 263.2 | 240.2 | 218.8 | 179.6 | 161.8 | 129.8 |
| 21H22 / 23H22* | 306.8 | 280.4 | 255.8 | 211.2 | 191.0 | 155.0 |
| 24H22 / 26H22* | 354.1 | 321.0 | 292.9 | 244.1 | 218.4 | 176.2 |
| 31H22 / 32H22* | 406.6 | 372.6 | 340.4 | 281.4 | 254.4 | 205.2 |
| 41H22 / 42H22* | 454.2 | 416.0 | 380.9 | 313.2 | 282.6 | 230.1 |
| 51H22 / 52H22* | 584.0 | 532.0 | 484.6 | 393.4 | 352.2 | 272.2 |
| 61H22 / 62H22* | 683.6 | 625.2 | 573.4 | 473.0 | 428.6 | 320.4 |
| 71H22 / 72H22* | 871.7 | 794.0 | 725.1 | 594.0 | 536.4 | 414.6 |
| 81H22 / 82H22* | 1,013.8 | 928.8 | 851.9 | 705.6 | 640.0 | 492.4 |

100° AMBIENT

| VC / VL / VS | +45° | +40° | +35° | +25° | +20° | +10° |
|----------------|-------|-------|-------|-------|-------|-------|
| 17H22 / 18H22* | 254.0 | 231.8 | 211.2 | 173.4 | 156.2 | 125.3 |
| 21H22 / 23H22* | 296.1 | 270.6 | 246.9 | 203.9 | 184.4 | 149.6 |
| 24H22 / 26H22* | 342.0 | 311.7 | 282.4 | 235.5 | 210.6 | 169.8 |
| 31H22 / 32H22* | 392.4 | 359.6 | 328.5 | 271.6 | 245.5 | 198.1 |
| 41H22 / 42H22* | 438.4 | 401.5 | 367.6 | 302.3 | 272.8 | 222.1 |
| 51H22 / 52H22* | 563.6 | 513.4 | 467.7 | 379.7 | 339.9 | 262.7 |
| 61H22 / 62H22* | 659.7 | 603.4 | 553.4 | 456.5 | 413.6 | 309.2 |
| 71H22 / 72H22* | 841.2 | 766.3 | 699.8 | 573.3 | 517.7 | 400.1 |
| 81H22 / 82H22* | 978.4 | 896.3 | 822.1 | 681.0 | 617.6 | 475.2 |

110° AMBIENT

| VC / VL / VS | +45° | +40° | +35° | +25° | +20° | +10° |
|----------------|-------|-------|-------|-------|-------|-------|
| 17H22 / 18H22* | 237.0 | 216.3 | 197.1 | 161.8 | 145.8 | 117.0 |
| 21H22 / 23H22* | 276.3 | 252.5 | 230.4 | 190.3 | 172.1 | 139.6 |
| 24H22 / 26H22* | 312.8 | 287.0 | 262.3 | 216.4 | 195.3 | 157.4 |
| 31H22 / 32H22* | 366.2 | 335.6 | 306.5 | 253.5 | 229.1 | 184.9 |
| 41H22 / 42H22* | 409.1 | 374.6 | 343.0 | 282.1 | 254.6 | 207.3 |
| 51H22 / 52H22* | 525.9 | 479.1 | 436.4 | 354.3 | 317.2 | 245.1 |
| 61H22 / 62H22* | 615.6 | 563.0 | 516.4 | 426.0 | 385.9 | 288.5 |
| 71H22 / 72H22* | 784.9 | 715.0 | 653.0 | 534.9 | 483.1 | 373.3 |
| 81H22 / 82H22* | 912.9 | 836.3 | 767.1 | 635.4 | 576.3 | 443.4 |

*Dual compressor unit capacity is shown as combined total capacity of both systems.

BTUH CAPACITIES (MBH)
R-22 LOW TEMP
SUCTION TEMPERATURE °F
90° AMBIENT

| VC / VL / VS | -5° | -10° | -15° | -20° | -25° | -30° | -40° |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| 27L22 | 142.8 | 126.2 | 111.7 | 97.2 | 84.6 | 72.1 | 49.0 |
| 30L22 | 166.7 | 147.3 | 130.6 | 113.9 | 99.8 | 85.7 | 59.4 |
| 44L22 / 46L22* | 239.8 | 210.0 | 185.3 | 160.5 | 140.2 | 119.9 | 82.3 |
| 54L22 / 56L22* | 285.3 | 252.4 | 228.7 | 205.0 | 174.5 | 144.1 | 98.0 |
| 61L22 / 62L22* | 333.4 | 294.6 | 261.2 | 227.8 | 199.6 | 171.4 | 118.7 |

95° AMBIENT

| VC / VL / VS | -5° | -10° | -15° | -20° | -25° | -30° | -40° |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| 27L22 | 136.0 | 120.3 | 106.5 | 92.7 | 80.7 | 68.7 | 46.7 |
| 30L22 | 158.9 | 140.4 | 124.5 | 108.6 | 95.2 | 81.7 | 56.6 |
| 44L22 / 46L22* | 228.6 | 200.2 | 176.6 | 153.0 | 134.5 | 115.7 | 78.5 |
| 54L22 / 56L22* | 272.0 | 240.6 | 218.0 | 195.4 | 166.4 | 137.4 | 93.4 |
| 61L22 / 62L22* | 317.8 | 280.8 | 249.0 | 217.2 | 190.3 | 163.4 | 113.2 |

100° AMBIENT

| VC / VL / VS | -5° | -10° | -15° | -20° | -25° | -30° | -40° |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| 27L22 | 129.2 | 114.3 | 101.2 | 88.1 | 76.7 | 65.3 | 44.4 |
| 30L22 | 151.0 | 133.4 | 118.3 | 103.2 | 90.4 | 77.6 | 53.8 |
| 44L22 / 46L22* | 217.2 | 190.2 | 167.8 | 145.4 | 127.0 | 108.6 | 74.6 |
| 54L22 / 56L22* | 258.4 | 228.6 | 207.1 | 185.6 | 131.1 | 130.5 | 88.7 |
| 61L22 / 62L22* | 301.9 | 266.8 | 236.6 | 206.3 | 180.7 | 155.2 | 107.5 |

110° AMBIENT

| VC / VL / VS | -5° | -10° | -15° | -20° | -25° | -30° | -40° |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| 27L22 | 122.4 | 108.3 | 95.9 | 83.4 | 72.6 | 61.8 | 42.0 |
| 30L22 | 143.0 | 126.4 | 112.1 | 97.7 | 85.6 | 73.5 | 50.9 |
| 44L22 / 46L22* | 205.7 | 180.2 | 159.0 | 137.7 | 120.3 | 102.9 | 70.7 |
| 54L22 / 56L22* | 244.8 | 216.5 | 196.2 | 175.9 | 149.8 | 123.7 | 84.1 |
| 61L22 / 62L22* | 268.0 | 242.0 | 218.5 | 195.0 | 171.0 | 147.1 | 101.9 |

*Dual compressor unit capacity is shown as combined total capacity of both systems.

BTUH CAPACITIES (MBH)

R404A LOW TEMP

SUCTION TEMPERATURE °F

90° AMBIENT

| VC / VL / VS | 0° | -10° | -15° | -20° | -25° | -30° | -40° |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| 27L44 | 173.7 | 143.0 | 128.8 | 114.7 | 102.1 | 89.4 | 66.9 |
| 30L44 | 200.9 | 165.0 | 148.4 | 131.7 | 117.0 | 102.3 | 77.1 |
| 44L44 / 46L44* | 274.1 | 226.9 | 205.3 | 183.7 | 164.9 | 146.1 | 113.7 |
| 54L44 / 56L44* | 346.5 | 285.1 | 256.9 | 228.7 | 203.5 | 178.3 | 133.3 |
| 61L44 / 62L44* | 402.1 | 330.3 | 297.0 | 263.5 | 234.2 | 204.8 | 154.2 |

95° AMBIENT

| VC / VL / VS | 0° | -10° | -15° | -20° | -25° | -30° | -40° |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| 27L44 | 164.8 | 135.6 | 122.2 | 108.8 | 96.8 | 84.8 | 63.4 |
| 30L44 | 190.9 | 156.8 | 141.0 | 125.1 | 111.2 | 97.2 | 73.2 |
| 44L44 / 46L44* | 260.3 | 215.4 | 194.9 | 174.4 | 156.6 | 138.7 | 107.9 |
| 54L44 / 56L44* | 329.6 | 271.2 | 244.4 | 217.6 | 193.6 | 169.6 | 126.8 |
| 61L44 / 62L44* | 381.8 | 313.6 | 282.0 | 250.2 | 222.4 | 194.4 | 146.4 |

100° AMBIENT

| VC / VL / VS | 0° | -10° | -15° | -20° | -25° | -30° | -40° |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| 27L44 | 157.3 | 129.4 | 116.6 | 103.8 | 92.4 | 80.9 | 60.5 |
| 30L44 | 181.8 | 149.3 | 134.3 | 119.1 | 105.9 | 92.6 | 69.7 |
| 44L44 / 46L44* | 247.3 | 204.7 | 185.2 | 165.7 | 148.8 | 131.8 | 102.6 |
| 54L44 / 56L44* | 314.2 | 258.5 | 233.0 | 207.4 | 184.6 | 161.7 | 120.9 |
| 61L44 / 62L44* | 363.5 | 298.6 | 268.5 | 238.2 | 211.8 | 185.1 | 139.4 |

110° AMBIENT

| VC / VL / VS | 0° | -10° | -15° | -20° | -25° | -30° | -40° |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| 27L44 | 134.4 | 110.6 | 99.6 | 88.7 | 78.9 | 69.2 | 51.7 |
| 30L44 | 154.7 | 127.1 | 114.3 | 101.4 | 90.1 | 78.8 | 59.3 |
| 44L44 / 46L44* | 212.5 | 175.8 | 159.1 | 142.4 | 127.8 | 113.2 | 88.1 |
| 54L44 / 56L44* | 270.3 | 222.4 | 200.5 | 178.5 | 158.8 | 139.1 | 104.0 |
| 61L44 / 62L44* | 311.2 | 255.6 | 229.9 | 204.0 | 181.3 | 158.5 | 119.4 |

*[Dual compressor unit](#) capacity is shown as combined total capacity of both systems.

BTUH CAPACITIES (MBH) R404A MEDIUM TEMP - SINGLE COMPRESSOR
SUCTION TEMPERATURE °F
90° AMBIENT

| VC / VL / VS | +45° | +35° | +25° | +20° | +10° | 0° | -10° |
|--------------|-------|-------|-------|-------|-------|-------|-------|
| 20M44 | 231.7 | 197.4 | 164.8 | 149.7 | 129.7 | 96.6 | 75.8 |
| 25M44 | 292.1 | 251.8 | 212.1 | 192.9 | 157.0 | 125.9 | 101.7 |
| 30M44 | 347.6 | 295.0 | 246.6 | 224.1 | 182.6 | 146.2 | 114.8 |
| 35M44 | 443.7 | 374.2 | 311.7 | 283.1 | 231.2 | 186.0 | 147.2 |
| 40M44 | 551.9 | 471.7 | 397.1 | 362.3 | 297.7 | 240.9 | 192.2 |

95° AMBIENT

| VC / VL / VS | +45° | +35° | +25° | +20° | +10° | 0° | -10° |
|--------------|-------|-------|-------|-------|-------|-------|-------|
| 20M44 | 219.8 | 187.2 | 156.3 | 142.0 | 123.0 | 91.6 | 71.9 |
| 25M44 | 277.6 | 239.3 | 201.6 | 183.3 | 149.2 | 119.6 | 96.6 |
| 30M44 | 330.1 | 280.1 | 234.1 | 212.8 | 173.4 | 138.8 | 109.0 |
| 35M44 | 422.1 | 356.0 | 296.5 | 269.3 | 219.9 | 176.9 | 140.0 |
| 40M44 | 524.1 | 447.9 | 377.1 | 344.0 | 282.7 | 228.7 | 182.5 |

100° AMBIENT

| VC / VL / VS | +45° | +35° | +25° | +20° | +10° | 0° | -10° |
|--------------|-------|-------|-------|-------|-------|-------|-------|
| 20M44 | 209.7 | 178.6 | 149.2 | 135.5 | 117.4 | 87.4 | 68.6 |
| 25M44 | 264.3 | 227.9 | 192.0 | 174.6 | 142.1 | 113.9 | 92.0 |
| 30M44 | 313.6 | 266.1 | 222.4 | 202.2 | 164.8 | 131.9 | 103.6 |
| 35M44 | 402.3 | 339.3 | 282.6 | 256.7 | 209.6 | 168.6 | 133.5 |
| 40M44 | 499.0 | 426.5 | 359.0 | 327.5 | 269.2 | 217.8 | 173.8 |

110° AMBIENT

| VC / VL / VS | +45° | +35° | +25° | +20° | +10° | 0° | -10° |
|--------------|-------|-------|-------|-------|-------|-------|-------|
| 20M44 | 179.2 | 152.6 | 127.4 | 115.8 | 100.3 | 74.7 | 58.6 |
| 25M44 | 224.9 | 193.9 | 163.3 | 148.5 | 120.9 | 96.9 | 78.3 |
| 30M44 | 269.4 | 228.6 | 191.1 | 173.7 | 141.5 | 113.3 | 89.0 |
| 35M44 | 346.2 | 292.0 | 243.2 | 220.9 | 180.4 | 145.1 | 114.8 |
| 40M44 | 427.2 | 365.1 | 307.4 | 280.4 | 230.5 | 186.4 | 148.8 |

BTUH CAPACITIES (MBH)

R404A MEDIUM TEMP - PARALLEL / DUAL SYSTEMS

SUCTION TEMPERATURE °F

90° AMBIENT

| VC / VL / VS | +45° | +35° | +25° | +20° | +10° | 0° | -10° |
|----------------|--------|-------|-------|-------|-------|-------|-------|
| 17M44 / 18M44* | 256.5 | 218.4 | 183.3 | 167.0 | 137.0 | 115.1 | 87.5 |
| 23M44* | 309.4 | 262.6 | 220.3 | 200.9 | 165.2 | 133.7 | 105.7 |
| 24M44 / 26M44* | 363.4 | 311.2 | 263.1 | 240.6 | 199.1 | 162.0 | 129.4 |
| 31M44 / 32M44* | 421.0 | 357.8 | 300.2 | 273.7 | 225.2 | 182.4 | 145.2 |
| 41M44 / 42M44* | 462.9 | 394.3 | 329.2 | 299.1 | 259.1 | 193.0 | 151.5 |
| 51M44 / 52M44* | 584.1 | 503.5 | 424.2 | 385.7 | 314.0 | 251.7 | 203.1 |
| 61M44 / 62M44* | 695.2 | 589.9 | 493.1 | 448.2 | 365.2 | 292.4 | 229.6 |
| 71M44 / 72M44* | 888.1 | 749.1 | 623.9 | 566.7 | 462.7 | 372.2 | 294.6 |
| 81M44 / 82M44* | 1101.7 | 941.5 | 792.7 | 723.1 | 594.3 | 480.8 | 383.7 |

95° AMBIENT

| VC / VL / VS | +45° | +35° | +25° | +20° | +10° | +0° | -10° |
|----------------|--------|-------|-------|-------|-------|-------|-------|
| 17M44 / 18M44* | 243.3 | 207.2 | 173.9 | 158.4 | 129.9 | 109.2 | 83.0 |
| 21M44 / 23M44* | 294.1 | 249.6 | 209.4 | 190.9 | 157.0 | 127.0 | 100.4 |
| 24M44 / 26M44* | 345.1 | 295.5 | 249.8 | 228.4 | 189.0 | 153.8 | 122.8 |
| 31M44 / 32M44* | 400.5 | 340.4 | 285.6 | 260.4 | 214.2 | 173.5 | 138.1 |
| 41M44 / 42M44* | 439.6 | 374.4 | 312.6 | 284.0 | 246.0 | 183.2 | 143.8 |
| 51M44 / 52M44* | 555.2 | 478.6 | 403.2 | 366.6 | 298.4 | 239.2 | 193.0 |
| 61M44 / 62M44* | 660.2 | 560.2 | 468.2 | 425.6 | 346.8 | 277.6 | 218.0 |
| 71M44 / 72M44* | 844.2 | 712.0 | 593.0 | 538.6 | 439.8 | 353.8 | 280.0 |
| 81M44 / 82M44* | 1048.2 | 895.8 | 754.2 | 688.0 | 565.4 | 457.4 | 365.0 |

100° AMBIENT

| VC / VL / VS | +45° | +35° | +25° | +20° | +10° | +0° | -10° |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| 17M44 / 18M44* | 232.2 | 197.7 | 166.0 | 151.2 | 124.0 | 104.2 | 79.2 |
| 21M44 / 23M44* | 280.0 | 237.7 | 199.4 | 181.8 | 149.5 | 121.0 | 95.6 |
| 24M44 / 26M44* | 327.9 | 280.8 | 237.4 | 217.0 | 179.6 | 146.2 | 116.7 |
| 31M44 / 32M44* | 381.7 | 324.5 | 272.2 | 248.2 | 204.2 | 165.4 | 131.7 |
| 41M44 / 42M44* | 418.5 | 356.5 | 297.6 | 270.4 | 234.2 | 174.5 | 136.9 |
| 51M44 / 52M44* | 529.2 | 456.2 | 384.3 | 349.4 | 284.4 | 228.0 | 184.0 |
| 61M44 / 62M44* | 629.9 | 534.5 | 446.7 | 406.1 | 330.9 | 264.9 | 208.0 |
| 71M44 / 72M44* | 804.6 | 678.6 | 565.2 | 513.3 | 419.2 | 337.2 | 266.9 |
| 81M44 / 82M44* | 997.9 | 852.9 | 718.0 | 655.0 | 538.3 | 435.5 | 347.5 |

110° AMBIENT

| VC / VL / VS | +45° | +35° | +25° | +20° | +10° | +0° | -10° |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| 17M44 / 18M44* | 198.3 | 168.9 | 141.8 | 129.1 | 105.9 | 89.0 | 67.7 |
| 21M44 / 23M44* | 238.3 | 202.2 | 169.7 | 154.7 | 127.2 | 102.9 | 81.4 |
| 24M44 / 26M44* | 281.7 | 241.2 | 203.9 | 186.4 | 154.3 | 125.6 | 100.3 |
| 31M44 / 32M44* | 328.5 | 279.2 | 234.2 | 213.6 | 175.7 | 142.3 | 113.3 |
| 41M44 / 42M44* | 358.3 | 305.2 | 254.8 | 231.5 | 200.5 | 149.4 | 117.2 |
| 51M44 / 52M44* | 454.8 | 392.0 | 330.3 | 300.3 | 244.4 | 196.0 | 158.1 |
| 61M44 / 62M44* | 542.7 | 460.5 | 384.9 | 349.9 | 285.1 | 228.2 | 179.2 |
| 71M44 / 72M44* | 688.1 | 580.3 | 483.3 | 439.0 | 358.5 | 288.4 | 228.2 |
| 81M44 / 82M44* | 849.1 | 725.6 | 611.0 | 557.3 | 458.0 | 370.5 | 295.7 |

*Dual compressor unit capacity is shown as combined total capacity of both systems.

ELECTRICAL SPECIFICATIONS - SINGLE AND PARALLEL COMPRESSOR MODELS

| MODEL NUMBER VC / VL / VS | COMP. MODEL | 230 / 3 / 60 | | | TOTAL UNIT AMPS* | MCA* | 460 / 3 / 60 | | | TOTAL UNIT AMPS* | MCA* |
|------------------------------|-------------|--------------|-----|-------------|---------------------|------|--------------|-----|-------------|---------------------|------|
| | | COMP. | | COND FLA | | | COMP. | | COND FLA | | |
| | | RLA | LRA | | | | RLA | LRA | | | |

HIGH TEMP R-22

| | | | | | | | | | | | |
|-------|-----------|-------|--------|------|-------|-------|-------|-------|------|-------|-------|
| 20H22 | 4DA-R18ME | 70.0 | 308.0 | 12.8 | 83.8 | 102.0 | 35.0 | 154.0 | 6.4 | 41.9 | 51.0 |
| 25H22 | 4DH-R22ME | 85.7 | 428.0 | 12.8 | 99.5 | 121.0 | 42.9 | 214.0 | 6.4 | 49.8 | 61.0 |
| 30H22 | 4DJ-R28ME | 118.0 | 470.0 | 12.8 | 131.8 | 162.0 | 59.0 | 235.0 | 6.4 | 65.9 | 81.0 |
| 35H22 | 6DH-R35ME | 125.0 | 565.0 | 19.2 | 145.2 | 177.0 | 62.5 | 283.0 | 9.6 | 72.6 | 89.0 |
| 40H22 | 6DJ-R40ME | 142.0 | 575.0 | 19.2 | 161.2 | 197.0 | 71.0 | 288.0 | 9.6 | 82.1 | 101.0 |
| 50H22 | 8DP-R56ME | 180.0 | 1070.0 | 25.6 | 206.6 | 252.0 | 90.0 | 535.0 | 12.8 | 103.8 | 126.0 |
| 60H22 | 8DS-6000 | 224.0 | 1070.0 | 25.6 | 250.6 | 307.0 | 112.0 | 535.0 | 12.8 | 125.3 | 154.0 |

| | | | | | | | | | | | |
|-------|---------------|-------|--------|------|-------|-------|-------|-------|------|-------|-------|
| 17H22 | (2) 3DA-R10ME | 82.0 | 430.0 | 12.8 | 95.8 | 106.0 | 40.0 | 212.0 | 6.4 | 46.9 | 52.0 |
| 21H22 | (2) 3DB-R12ME | 87.2 | 430.0 | 12.8 | 101.0 | 112.0 | 40.0 | 212.0 | 6.4 | 46.9 | 52.0 |
| 24M22 | (2) 3DF-R15ME | 96.4 | 550.0 | 12.8 | 110.2 | 122.0 | 47.2 | 276.0 | 6.4 | 54.1 | 60.0 |
| 31H22 | (2) 3DS-R17ME | 119.2 | 550.0 | 19.2 | 139.4 | 154.0 | 58.0 | 276.0 | 9.6 | 68.1 | 75.0 |
| 41H22 | (2) 4DA-R18ME | 132.0 | 856.0 | 19.2 | 152.2 | 169.0 | 66.0 | 428.0 | 9.6 | 76.1 | 84.0 |
| 51H22 | (2) 4DH-R22ME | 164.4 | 856.0 | 25.6 | 191.0 | 212.0 | 82.2 | 428.0 | 12.8 | 95.5 | 106.0 |
| 61H22 | (2) 4DJ-R28ME | 188.0 | 940.0 | 25.6 | 214.6 | 238.0 | 94.0 | 470.0 | 12.8 | 107.3 | 119.0 |
| 71H22 | (2) 6DH-R35ME | 214.0 | 1130.0 | 38.4 | 253.4 | 280.0 | 107.0 | 566.0 | 19.2 | 126.7 | 140.0 |
| 81H22 | (2) 6DJ-R40ME | 284.0 | 1150.0 | 38.4 | 323.4 | 359.0 | 142.0 | 575.0 | 19.2 | 161.7 | 180.0 |

LOW TEMP R-22

| | | | | | | | | | | | |
|-------|---------------|-------|-------|------|-------|-------|------|-------|-----|-------|-------|
| 27L22 | 6DL-F93KE | 80.8 | 450.0 | 12.8 | 94.6 | 115.0 | 40.4 | 225.0 | 6.4 | 47.3 | 58.0 |
| 30L22 | 6DT-F11ME | 95.6 | 470.0 | 12.8 | 109.4 | 134.0 | 47.8 | 235.0 | 6.4 | 54.7 | 67.0 |
| 44L22 | (2) 4DT-F76KE | 132.0 | 748.0 | 19.2 | 152.2 | 169.0 | 66.0 | 374.0 | 9.6 | 76.1 | 84.0 |
| 54L22 | (2) 6DL-F93KE | 161.6 | 872.0 | 19.2 | 181.8 | 202.0 | 80.8 | 436.0 | 9.6 | 90.9 | 101.0 |
| 61L22 | (2) 6DT-F11ME | 191.2 | 940.0 | 19.2 | 211.4 | 235.0 | 95.6 | 470.0 | 9.6 | 105.7 | 118.0 |

MEDIUM TEMP R-404A

| | | | | | | | | | | | |
|-------|-----------|-------|-------|------|-------|-------|------|-------|-----|------|------|
| 20M44 | 4DA-R18ME | 66.0 | 308.0 | 12.8 | 79.8 | 97.0 | 33.0 | 154.0 | 6.4 | 39.4 | 49.0 |
| 25M44 | 4DH-R22ME | 82.2 | 428.0 | 12.8 | 96.0 | 117.0 | 41.1 | 214.0 | 6.4 | 48.0 | 59.0 |
| 30M44 | 4DJ-R28ME | 94.0 | 470.0 | 12.8 | 107.8 | 132.0 | 47.2 | 235.0 | 6.4 | 54.1 | 66.0 |
| 35M44 | 6DH-R35ME | 107.0 | 565.0 | 19.2 | 127.2 | 154.0 | 53.5 | 283.0 | 9.6 | 63.6 | 77.0 |
| 40M44 | 6DJ-R40ME | 142.0 | 594.0 | 19.2 | 162.2 | 198.0 | 71.0 | 297.0 | 9.6 | 81.1 | 99.0 |

| | | | | | | | | | | | |
|-------|---------------|-------|--------|------|-------|-------|-------|-------|------|-------|-------|
| 17M44 | (2) 3DA-R10ME | 82.0 | 430.0 | 12.8 | 95.6 | 106.0 | 40.0 | 212.0 | 6.4 | 46.9 | 52.0 |
| 21M44 | (2) 3DB-R12ME | 87.2 | 430.0 | 12.8 | 101.0 | 112.0 | 40.0 | 212.0 | 6.4 | 46.9 | 52.0 |
| 24M44 | (2) 3DF-R15ME | 96.4 | 550.0 | 12.8 | 110.2 | 122.0 | 47.2 | 276.0 | 6.4 | 54.1 | 60.0 |
| 31M44 | (2) 3DS-R17ME | 119.2 | 550.0 | 19.2 | 139.4 | 154.0 | 58.0 | 276.0 | 9.6 | 68.1 | 75.0 |
| 41M44 | (2) 4DA-R18ME | 132.0 | 616.0 | 19.2 | 152.2 | 169.0 | 66.0 | 308.0 | 9.6 | 76.1 | 84.0 |
| 51M44 | (2) 4DH-R22ME | 164.4 | 856.0 | 25.6 | 191.0 | 212.0 | 82.2 | 428.0 | 12.8 | 95.5 | 106.0 |
| 61M44 | (2) 4DJ-R28ME | 188.0 | 940.0 | 25.6 | 214.6 | 238.0 | 94.0 | 470.0 | 12.8 | 107.3 | 119.0 |
| 71M44 | (2) 6DH-R35ME | 214.0 | 1130.0 | 38.4 | 253.4 | 280.0 | 107.0 | 566.0 | 19.2 | 126.7 | 140.0 |
| 81M44 | (2) 6DJ-R40ME | 284.0 | 1188.0 | 38.4 | 323.4 | 359.0 | 142.0 | 594.0 | 19.2 | 161.7 | 180.0 |

LOW TEMP R-404A

| | | | | | | | | | | | |
|-------|---------------|-------|-------|------|-------|-------|------|-------|-----|-------|-------|
| 27L44 | 6DL-F93KE | 80.8 | 450.0 | 12.8 | 94.6 | 115.0 | 40.4 | 225.0 | 6.4 | 47.3 | 58.0 |
| 30L44 | 6DT-F11ME | 95.6 | 470.0 | 12.8 | 109.4 | 134.0 | 47.8 | 235.0 | 6.4 | 54.7 | 67.0 |
| 44L44 | (2) 4DT-F76KE | 132.0 | 748.0 | 19.2 | 152.2 | 169.0 | 66.0 | 374.0 | 9.6 | 76.1 | 84.0 |
| 54L44 | (2) 6DL-F93KE | 161.6 | 900.0 | 19.2 | 181.8 | 202.0 | 80.8 | 450.0 | 9.6 | 90.9 | 101.0 |
| 61L44 | (2) 6DT-F11ME | 191.2 | 940.0 | 19.2 | 211.4 | 235.0 | 95.6 | 470.0 | 9.6 | 105.7 | 118.0 |

COND FLA = Condenser motors full load amps.

*MINIMUM CIRCUIT AMPACITY — Total for the condensing unit and **does not include** evaporator electrical loads.

ELECTRICAL SPECIFICATIONS - DUAL COMPRESSOR MODELS

| MODEL NUMBER VC / VL / VS | COMP. MODEL | 230 / 3 / 60 | | | TOTAL UNIT AMPS* | MCA* | 460 / 3 / 60 | | | TOTAL UNIT AMPS* | MCA* |
|------------------------------|-------------|--------------|-----|----------|------------------|------|--------------|-----|----------|------------------|------|
| | | COMP.(EA.) | | COND FLA | | | COMP.(EA.) | | COND FLA | | |
| | | RLA | LRA | | | | RLA | LRA | | | |

HIGH TEMP R-22

| | | | | | | | | | | | |
|-------|----------------|-------|-------|------|-------|-------|------|-------|------|-------|-------|
| 18H22 | (2) 3DA-R10ME | 41.0 | 215.0 | 12.8 | 95.8 | 106.0 | 20.0 | 106.0 | 6.4 | 46.9 | 52.0 |
| 23H22 | (2) 3DB-R12ME | 43.6 | 215.0 | 12.8 | 101.0 | 112.0 | 20.0 | 106.0 | 6.4 | 46.9 | 52.0 |
| 26H22 | (2) 3DF-R15ME | 48.2 | 275.0 | 12.8 | 110.2 | 122.0 | 23.6 | 138.0 | 6.4 | 54.1 | 60.0 |
| 32H22 | (2) 3DS-R17ME | 59.6 | 275.0 | 19.2 | 139.4 | 154.0 | 29.0 | 138.0 | 9.6 | 68.1 | 75.0 |
| 42H22 | (2) 4DA-R18ME | 66.0 | 308.0 | 19.2 | 152.2 | 169.0 | 33.0 | 154.0 | 9.6 | 76.1 | 84.0 |
| 52H22 | (2) 4DH-R22ME | 82.2 | 428.0 | 25.6 | 191.0 | 212.0 | 41.1 | 214.0 | 12.8 | 95.5 | 106.0 |
| 62H22 | (2) 4DJ -R28ME | 94.0 | 470.0 | 25.6 | 214.6 | 238.0 | 47.2 | 235.0 | 12.8 | 107.3 | 119.0 |
| 72H22 | (2) 6DH-R35ME | 107.0 | 565.0 | 38.4 | 253.4 | 280.0 | 53.5 | 283.0 | 19.2 | 126.7 | 140.0 |
| 82H22 | (2) 6DJ -R40ME | 142.0 | 575.0 | 38.4 | 323.4 | 359.0 | 71.0 | 288.0 | 19.2 | 161.2 | 180.0 |

LOW TEMP R-22

| | | | | | | | | | | | |
|-------|---------------|------|-------|------|-------|-------|------|-------|-----|-------|-------|
| 46L22 | (2) 4DT-F76KE | 66.0 | 374.0 | 19.2 | 152.2 | 169.0 | 33.0 | 187.0 | 9.6 | 76.1 | 84.0 |
| 56L22 | (2) 6DL-F93KE | 80.8 | 450.0 | 19.2 | 181.8 | 202.0 | 40.4 | 225.0 | 9.6 | 90.9 | 101.0 |
| 62L22 | (2) 6DT-F11ME | 95.6 | 470.0 | 19.2 | 211.4 | 235.0 | 47.8 | 235.0 | 9.6 | 105.7 | 118.0 |

MEDIUM TEMP R-404A

| | | | | | | | | | | | |
|-------|----------------|-------|-------|------|-------|-------|------|-------|------|-------|-------|
| 18M44 | (2) 3DA-R10ME | 41.0 | 215.0 | 12.8 | 95.8 | 106.0 | 20.0 | 106.0 | 6.4 | 46.9 | 52.0 |
| 23M44 | (2) 3DB-R12ME | 43.6 | 215.0 | 12.8 | 101.0 | 112.0 | 20.0 | 106.0 | 6.4 | 46.9 | 52.0 |
| 26M44 | (2) 3DF-R15ME | 48.2 | 275.0 | 12.8 | 110.2 | 122.0 | 23.6 | 138.0 | 6.4 | 54.1 | 60.0 |
| 32M44 | (2) 3DS-R17ME | 59.6 | 275.0 | 19.2 | 139.4 | 154.0 | 29.0 | 138.0 | 9.6 | 68.1 | 75.0 |
| 42M44 | (2) 4DA-R18ME | 66.0 | 308.0 | 19.2 | 152.2 | 169.0 | 33.0 | 154.0 | 9.6 | 76.1 | 84.0 |
| 52M44 | (2) 4DH-R22ME | 82.2 | 428.0 | 25.6 | 191.0 | 212.0 | 41.1 | 214.0 | 12.8 | 95.5 | 106.0 |
| 62M44 | (2) 4DJ -R28ME | 94.0 | 470.0 | 25.6 | 214.6 | 238.0 | 47.2 | 235.0 | 12.8 | 107.3 | 119.0 |
| 72M44 | (2) 6DH-R35ME | 107.0 | 565.0 | 38.4 | 253.4 | 280.0 | 53.5 | 283.0 | 19.2 | 126.7 | 140.0 |
| 82M44 | (2) 6DJ -R40ME | 142.0 | 594.0 | 38.4 | 323.4 | 359.0 | 71.0 | 297.0 | 19.2 | 161.7 | 180.0 |

LOW TEMP R-404A

| | | | | | | | | | | | |
|-------|---------------|------|-------|------|-------|-------|------|-------|-----|-------|-------|
| 46L44 | (2) 4DT-F76KE | 66.0 | 374.0 | 19.2 | 152.2 | 169.0 | 33.0 | 187.0 | 9.6 | 76.1 | 84.0 |
| 56L44 | (2) 6DL-F93KE | 80.8 | 450.0 | 19.2 | 181.8 | 202.0 | 40.4 | 225.0 | 9.6 | 90.9 | 101.0 |
| 62L44 | (2) 6DT-F11ME | 95.6 | 470.0 | 19.2 | 211.4 | 235.0 | 47.8 | 235.0 | 9.6 | 105.7 | 118.0 |

COND FLA = Condenser motors full load amps.

*MINIMUM CIRCUIT AMPACITY — Total for the condensing unit and **does not include** evaporator electrical loads.

PHYSICAL DATA SINGLE AND PARALLEL COMPRESSOR MODELS

| MODEL NUMBER VC / VL / VS | COMPRESSOR DATA | | QTY COND. FANS | APPROXIMATE DIMENSIONS (in) | | | FAN CONFIG. | REC. CAP. @ 90%# | CONNECTION | | APPROX WT LBS. |
|------------------------------|-----------------|------|----------------|-----------------------------|---|---|-------------|------------------|------------|------------|----------------|
| | MODEL | CFH* | | L | W | A | | | LIQ. ODS# | SUCT. ODS# | |

HIGH TEMP R-22

| | | | | | | | | | | | |
|-------|---------------|--------|---|---------|--------|--------|----|-----|-------|-------|------|
| 20H22 | 4DA-R18ME | 2380 | 2 | 150-3/4 | 45-3/4 | 41-1/2 | A | 106 | 7/8 | 2-1/8 | 1925 |
| 25H22 | 4DH-R22ME | 3020 | 2 | 150-3/4 | 45-3/4 | 41-1/2 | A | 144 | 7/8 | 2-1/8 | 2000 |
| 30H22 | 4DJ-R28ME | 3603 | 2 | 150-3/4 | 45-3/4 | 41-1/2 | A | 182 | 1-1/8 | 2-1/8 | 2140 |
| 35H22 | 6DH-R35ME | 4530 | 3 | 198-3/4 | 45-3/4 | 41-1/2 | A† | 220 | 1-1/8 | 2-1/8 | 2385 |
| 40H22 | 6DJ-R40ME | 5404 | 3 | 198-3/4 | 45-3/4 | 41-1/2 | A† | 295 | 1-1/8 | 2-1/8 | 2525 |
| 50H22 | 8DP-R56ME | 6429 | 4 | 150-3/4 | 90-3/4 | 41-1/2 | D | 295 | 1-1/8 | 2-5/8 | 3500 |
| 60H22 | 8DS-6000 | 7609 | 4 | 150-3/4 | 90-3/4 | 41-1/2 | D | 416 | 1-3/8 | 2-5/8 | 3710 |
| 17H22 | (2) 3DA-R10ME | 2742* | 2 | 185 | 45-3/4 | 75-3/4 | B | 144 | 7/8 | 2-1/8 | 2450 |
| 21H22 | (2) 3DB-R12ME | 3230* | 2 | 185 | 45-3/4 | 75-3/4 | B | 144 | 7/8 | 2-1/8 | 2575 |
| 24H22 | (2) 3DF-R15ME | 3826* | 2 | 185 | 45-3/4 | 75-3/4 | B | 182 | 1-1/8 | 2-1/8 | 2750 |
| 31H22 | (2) 3DS-R17ME | 4254* | 3 | 233 | 45-3/4 | 75-3/4 | C | 220 | 1-1/8 | 2-1/8 | 3050 |
| 41H22 | (2) 4DA-R18ME | 4760* | 3 | 233 | 45-3/4 | 75-3/4 | C | 295 | 1-1/8 | 2-1/8 | 3200 |
| 51H22 | (2) 4DH-R22ME | 6040* | 4 | 150-3/4 | 90-3/4 | 41-1/2 | D | 295 | 1-1/8 | 2-5/8 | 3500 |
| 61H22 | (2) 4DJ-R28ME | 7206* | 4 | 150-3/4 | 90-3/4 | 41-1/2 | D | 295 | 1-3/8 | 2-5/8 | 3710 |
| 71H22 | (2) 6DH-R35ME | 9060* | 6 | 198-3/4 | 90-3/4 | 41-1/2 | E | 416 | 1-5/8 | 3-1/8 | 4340 |
| 81H22 | (2) 6DJ-R40ME | 10808* | 6 | 198-3/4 | 90-3/4 | 41-1/2 | E | 500 | 1-5/8 | 3-1/8 | 4750 |

LOW TEMP R-22

| | | | | | | | | | | | |
|-------|---------------|--------|---|---------|--------|--------|---|-----|-------|-------|------|
| 27L22 | 6DL-F93KE | 4530 | 2 | 150-3/4 | 45-3/4 | 41-1/2 | A | 145 | 7/8 | 2-1/8 | 2000 |
| 30L22 | 6DT-F11ME | 5404 | 2 | 150-3/4 | 45-3/4 | 41-1/2 | A | 145 | 7/8 | 2-1/8 | 2065 |
| 44L22 | (2) 4DT-F76KE | 7206* | 3 | 233 | 45-3/4 | 75-3/4 | C | 220 | 1-1/8 | 3-1/8 | 2800 |
| 54L22 | (2) 6DL-F93KE | 9060* | 3 | 233 | 45-3/4 | 75-3/4 | C | 295 | 1-1/8 | 3-1/8 | 3280 |
| 61L22 | (2) 6DT-F11ME | 10808* | 3 | 233 | 45-3/4 | 75-3/4 | C | 295 | 1-1/8 | 3-1/8 | 3580 |

MEDIUM TEMP R-404A

| | | | | | | | | | | | |
|-------|---------------|--------|---|---------|--------|--------|----|-----|-------|-------|------|
| 20M44 | 4DA-R18ME | 2380 | 2 | 150-3/4 | 45-3/4 | 41-1/2 | A | 94 | 7/8 | 2-1/8 | 1925 |
| 25M44 | 4DH-R22ME | 3020 | 2 | 150-3/4 | 45-3/4 | 41-1/2 | A | 128 | 7/8 | 2-1/8 | 2000 |
| 30M44 | 4DJ-R28ME | 3603 | 2 | 150-3/4 | 45-3/4 | 41-1/2 | A | 162 | 1-1/8 | 2-1/8 | 2140 |
| 35M44 | 6DH-R35ME | 4530 | 3 | 198-3/4 | 45-3/4 | 41-1/2 | A† | 195 | 1-1/8 | 2-1/8 | 2385 |
| 40M44 | 6DJ-R40ME | 5404 | 3 | 198-3/4 | 45-3/4 | 41-1/2 | A† | 262 | 1-1/8 | 2-1/8 | 2525 |
| 17M44 | (2) 3DA-R10ME | 2742* | 2 | 185 | 45-3/4 | 75-3/4 | B | 128 | 7/8 | 2-1/8 | 2450 |
| 21M44 | (2) 3DB-R12ME | 3230* | 2 | 185 | 45-3/4 | 75-3/4 | B | 128 | 7/8 | 2-1/8 | 2575 |
| 24M44 | (2) 3DF-R15ME | 3826* | 2 | 185 | 45-3/4 | 75-3/4 | B | 162 | 1-1/8 | 2-1/8 | 2750 |
| 31M44 | (2) 3DS-R17ME | 4254* | 3 | 233 | 45-3/4 | 75-3/4 | C | 195 | 1-1/8 | 2-1/8 | 3050 |
| 41M44 | (2) 4DA-R18ME | 4760* | 3 | 233 | 45-3/4 | 75-3/4 | C | 262 | 1-1/8 | 2-1/8 | 3200 |
| 51M44 | (2) 4DH-R22ME | 6040* | 4 | 150-3/4 | 90-3/4 | 41-1/2 | D | 262 | 1-1/8 | 2-5/8 | 3500 |
| 61M44 | (2) 4DJ-R28ME | 7206* | 4 | 150-3/4 | 90-3/4 | 41-1/2 | D | 262 | 1-3/8 | 2-5/8 | 3710 |
| 71M44 | (2) 6DH-R35ME | 9060* | 6 | 198-3/4 | 90-3/4 | 41-1/2 | E | 370 | 1-5/8 | 3-1/8 | 4340 |
| 81M44 | (2) 6DJ-R40ME | 10808* | 6 | 198-3/4 | 90-3/4 | 41-1/2 | E | 445 | 1-5/8 | 3-1/8 | 4750 |

LOW TEMP R-404A

| | | | | | | | | | | | |
|-------|---------------|--------|---|---------|--------|--------|---|-----|-------|-------|------|
| 27L44 | 6DL-F93KE | 4530 | 2 | 150-3/4 | 45-3/4 | 41-1/2 | A | 128 | 7/8 | 2-1/8 | 2000 |
| 30L44 | 6DT-F11ME | 5404 | 2 | 150-3/4 | 45-3/4 | 41-1/2 | A | 145 | 7/8 | 2-1/8 | 2065 |
| 44L44 | (2) 4DT-F76KE | 7206* | 3 | 233 | 45-3/4 | 75-3/4 | C | 195 | 1-1/8 | 3-1/8 | 2800 |
| 54L44 | (2) 6DL-F93KE | 9060* | 3 | 233 | 45-3/4 | 75-3/4 | C | 262 | 1-1/8 | 3-1/8 | 3280 |
| 61L44 | (2) 6DT-F11ME | 10808* | 3 | 233 | 45-3/4 | 75-3/4 | C | 262 | 1-1/8 | 3-1/8 | 3580 |

* COMBINED CFH WHEN TWO COMPRESSORS ARE PIPED IN PARALLEL.

ONE ITEM PER CONDENSING UNIT

PHYSICAL DATA DUAL COMPRESSOR MODELS (2 independent systems)

| MODEL NUMBER VC / VL / VS | COMPRESSOR DATA | | QTY COND. FANS | APPROXIMATE DIMENSIONS (in) | | | FAN CONFIG. | REC. CAP. @ 90%# | CONNECTION | | APPROX WT LBS. |
|------------------------------|-----------------|------|-------------------|-----------------------------|---|---|-------------|---------------------|--------------|---------------|-------------------|
| | MODEL # | CFH* | | L | W | A | | | LIQ. ODS# | SUCT. ODS# | |

HIGH TEMP R-22

| | | | | | | | | | | | |
|-------|---------------|------|---|---------|--------|--------|---|---------|-----------|-----------|------|
| 18H22 | (2) 3DA-R10ME | 1375 | 2 | 185 | 45-3/4 | 75-3/4 | B | (2) 62 | (2) 7/8 | (2) 1-3/8 | 2450 |
| 23H22 | (2) 3DB-R12ME | 1620 | 2 | 185 | 45-3/4 | 75-3/4 | B | (2) 62 | (2) 7/8 | (2) 1-5/8 | 2575 |
| 26H22 | (2) 3DF-R15ME | 1913 | 2 | 185 | 45-3/4 | 75-3/4 | B | (2) 62 | (2) 7/8 | (2) 1-5/8 | 2650 |
| 32H22 | (2) 3DS-R17ME | 2120 | 3 | 233 | 45-3/4 | 75-3/4 | C | (2) 106 | (2) 7/8 | (2) 1-5/8 | 3050 |
| 42H22 | (2) 4DA-R18ME | 2380 | 3 | 233 | 45-3/4 | 75-3/4 | C | (2) 106 | (2) 7/8 | (2) 2-1/8 | 3200 |
| 52H22 | (2) 4DH-R22ME | 3020 | 4 | 150-3/4 | 90-3/4 | 41-1/2 | D | (2) 144 | (2) 7/8 | (2) 2-1/8 | 3500 |
| 62H22 | (2) 4DJ-R28ME | 3603 | 4 | 150-3/4 | 90-3/4 | 41-1/2 | D | (2) 182 | (2) 1-1/8 | (2) 2-1/8 | 3710 |
| 72H22 | (2) 6DH-R35ME | 4530 | 6 | 198-3/4 | 90-3/4 | 41-1/2 | E | (2) 220 | (2) 1-1/8 | (2) 2-1/8 | 4340 |
| 82H22 | (2) 6DJ-R40ME | 5404 | 6 | 198-3/4 | 90-3/4 | 41-1/2 | E | (2) 295 | (2) 1-1/8 | (2) 2-1/8 | 4750 |

LOW TEMP R-22

| | | | | | | | | | | | |
|-------|---------------|------|---|-----|--------|--------|---|---------|---------|-----------|------|
| 46L22 | (2) 4DT-F76KE | 3603 | 3 | 233 | 45-3/4 | 75-3/4 | C | (2) 106 | (2) 7/8 | (2) 2-1/8 | 2800 |
| 56L22 | (2) 6DL-F93KE | 4530 | 3 | 233 | 45-3/4 | 75-3/4 | C | (2) 144 | (2) 7/8 | (2) 2-1/8 | 3280 |
| 62L22 | (2) 6DT-F11ME | 5404 | 3 | 233 | 45-3/4 | 75-3/4 | C | (2) 144 | (2) 7/8 | (2) 2-1/8 | 3580 |

MEDIUM TEMP R-404A

| | | | | | | | | | | | |
|-------|---------------|------|---|---------|--------|--------|---|---------|-----------|-----------|------|
| 18M44 | (2) 3DA-R10ME | 1375 | 2 | 185 | 45-3/4 | 75-3/4 | B | (2) 55 | (2) 7/8 | (2) 1-3/8 | 2450 |
| 23M44 | (2) 3DB-R12ME | 1620 | 2 | 185 | 45-3/4 | 75-3/4 | B | (2) 55 | (2) 7/8 | (2) 1-5/8 | 2575 |
| 26M44 | (2) 3DF-R15ME | 1915 | 2 | 185 | 45-3/4 | 75-3/4 | B | (2) 55 | (2) 7/8 | (2) 1-5/8 | 2650 |
| 32M44 | (2) 3DS-R17ME | 2120 | 3 | 233 | 45-3/4 | 75-3/4 | C | (2) 94 | (2) 7/8 | (2) 1-5/8 | 3050 |
| 42M44 | (2) 4DA-R18ME | 2380 | 3 | 233 | 45-3/4 | 75-3/4 | C | (2) 94 | (2) 7/8 | (2) 2-1/8 | 3200 |
| 52M44 | (2) 4DH-R22ME | 3020 | 4 | 150-3/4 | 90-3/4 | 41-1/2 | D | (2) 128 | (2) 7/8 | (2) 2-1/8 | 3500 |
| 62M44 | (2) 4DJ-R28ME | 3603 | 4 | 150-3/4 | 90-3/4 | 41-1/2 | D | (2) 162 | (2) 1-1/8 | (2) 2-1/8 | 3710 |
| 72M44 | (2) 6DH-R35ME | 4530 | 6 | 198-3/4 | 90-3/4 | 41-1/2 | E | (2) 195 | (2) 1-1/8 | (2) 2-1/8 | 4340 |
| 82M44 | (2) 6DJ-R40ME | 5404 | 6 | 198-3/4 | 90-3/4 | 41-1/2 | E | (2) 262 | (2) 1-1/8 | (2) 2-1/8 | 4750 |

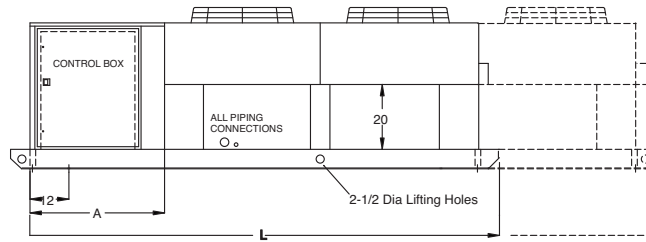
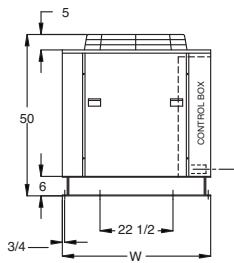
LOW TEMP R-404A

| | | | | | | | | | | | |
|-------|---------------|------|---|-----|--------|--------|---|---------|---------|-----------|------|
| 46L44 | (2) 4DT-F76KE | 3603 | 3 | 233 | 45-3/4 | 75-3/4 | C | (2) 94 | (2) 7/8 | (2) 2-1/8 | 2800 |
| 56L44 | (2) 6DL-F93KE | 4530 | 3 | 233 | 45-3/4 | 75-3/4 | C | (2) 128 | (2) 7/8 | (2) 2-1/8 | 3280 |
| 62L44 | (2) 6DT-F11ME | 5404 | 3 | 233 | 45-3/4 | 75-3/4 | C | (2) 128 | (2) 7/8 | (2) 2-1/8 | 3580 |

* DATA SHOWN FOR EACH COMPRESSOR SYSTEM.

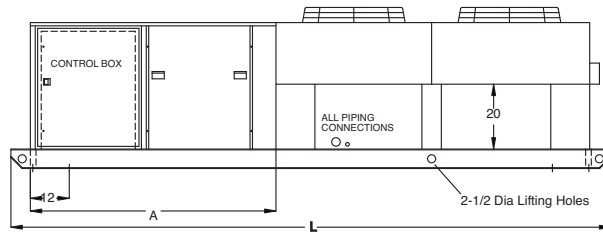
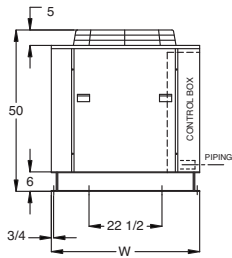
ONE ITEM PER EACH COMPRESSOR SYSTEM

DIMENSIONAL DRAWINGS

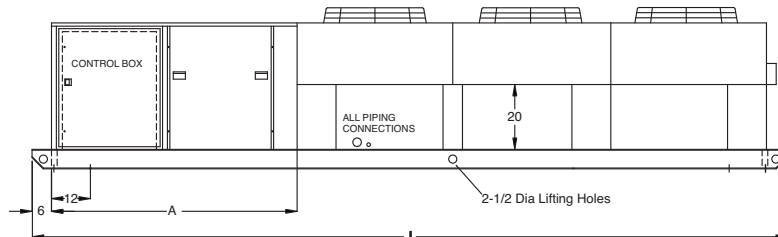
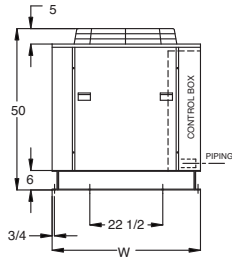


† 3rd Fan Section
for models:
 V*35M44/H22
 V*40M44/H22

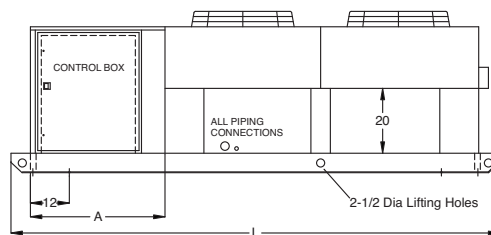
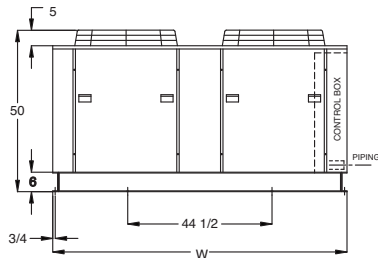
FAN CONFIGURATION "A"



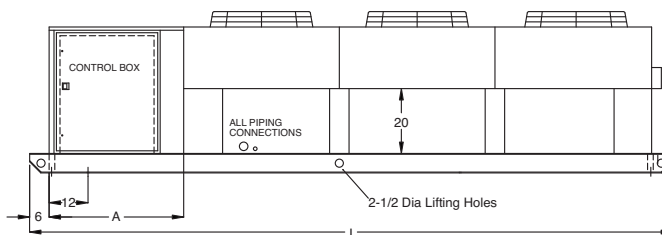
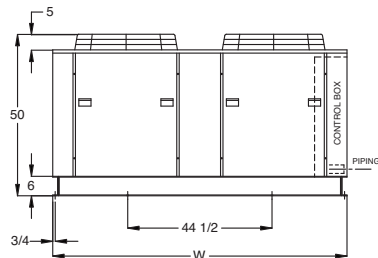
FAN CONFIGURATION "B"



FAN CONFIGURATION "C"



FAN CONFIGURATION "D"



FAN CONFIGURATION "E"

All dimensions are in inches.
 9/16" diameter mounting holes typical for all units.

P/N 113343-026 REV.3 2/07 R-5000