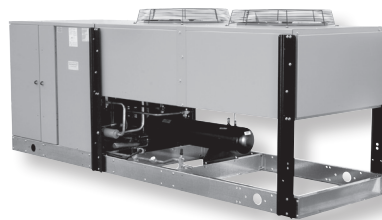


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April 2009, v. 001



CLIMATE CONTROL

AIR-COOLED CONDENSING UNITS WITH BITZER COMPRESSORS *Technical Guide*



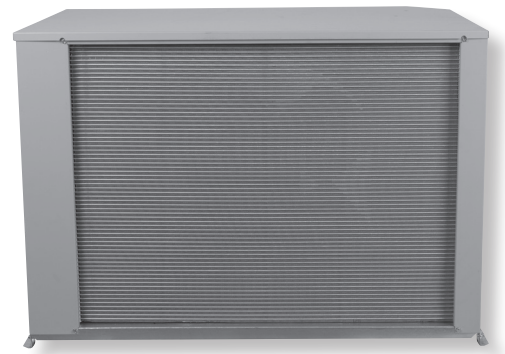
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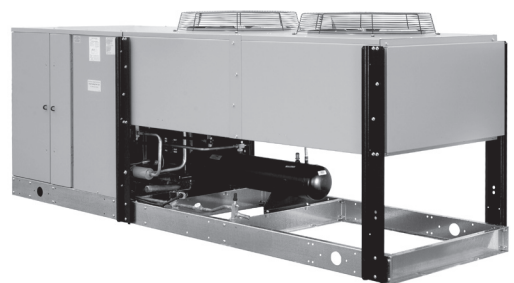
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Single And Dual Compressor Condensing Units Feature Our Floating Tube™ Coil Design

Expanded (Locked) Auxiliary Tubes:

These tubes support the coil with fins and refrigerant carrying tubes. They do not carry refrigerant and are tightly fitted on end supports and center supports.

Free Floating Circuited Coil Tubes:

These tubes carry refrigerant and never touch and sheet metal (end supports and center supports).



*All units include a limited
Five Year Warranty
against condenser leaks at tube sheets and
center supports.*

All condensers use the Floating Tube™ coil design to eliminate refrigerant leaks at the tube sheets. Additional tubes are added to the condenser coil. These tubes are expanded into the aluminum fins and condenser tube sheets. These anchor tubes support the weight of the coil, but are not a part of the refrigerant circuit.

The tubes in the refrigerant circuit are expanded into the fins, but “float” through oversized holes in the tube sheets. Tube sheet leaks are virtually eliminated, since the tubes which carry refrigerant never come in contact with the tube sheet.

Options



E Solutions branded products and options are designed to exceed current energy and environmental standards. It is our commitment in environmental innovation to dedicate ourselves by delivering energy efficient eco-conscious choices. Products included in the **E Solutions** portfolio reduce costs, improve bottom lines, and enhance equipment performance and service life.

The Beacon II™ Refrigeration System with Smart Defrost and the factory-installed Smart Defrost Kit™ are **E Solutions** options that will optimize your savings and increase energy efficiency.

Beacon II™ Refrigeration System



Beacon II™ is the next generation of Climate Control's patented, preassembled, factory installed refrigeration system featuring an integrated microcomputer-based electronic control board. The Beacon II™ systems come completely factory installed, wired and tested saving you time and money.

Beacon II™ offers:

- Complete factory installation, wiring and testing which saves time and money
- Simple field electrical connections and 24 volt wiring between condensing and evaporator units
- Preset factory superheat allowing the system to run more efficiently and reducing future adjustments
- Monitors and controls box temperature, evaporator superheat, condenser fan cycling on two fan units, system status and defrost from outside the box
- Monitor and make system changes remotely via modem and exclusive Beacon II™ Smart II software
- Data logging capabilities with Smart Controller

Beacon II™ Smart Controller



Beacon II™ Smart Controller is an optional system monitoring and programming control device. It allows for adjustments to be made at the push of a button from a conveniently mounted location. The Beacon II™ Smart Controller also allows you to monitor and make changes to the refrigeration system via modem connection from anywhere in the world. The Beacon II™ has been updated to allow the user to make even more precise adjustments than the original Beacon's Smart Controller. One Smart Controller can program and control up to four separate condensing units with up to four evaporators on each system. That's more control in your hands!

Beacon II™ Smart II Software



Beacon II™ Smart II Software makes it easy to adjust and monitor one or more refrigeration systems as well as capture minute by minute system conditions. This

Windows-based software allows you to connect to the Beacon II™ Smart Controller from anywhere in the world to monitor the systems, make adjustments and log minute by minute system conditions. This data logging capability is critical in the food service industry.

Beacon II™ Smart Defrost



The Beacon II™ Smart Defrost, available only on the Beacon II™ Smart Controller, enables the Beacon II™ system to sense

frost accumulation and initiates defrost only when it is necessary. To begin, preset defrost times using the Beacon II™ Smart Controller. At each scheduled defrost time, Smart Defrost checks system performance to see if a defrost is necessary. If not, it simply does not defrost, waiting until the next scheduled defrost time.

Smart Defrost Kit™



The factory installed Smart Defrost Kit™ (SDK) skips unnecessary defrosts in commercial, electric defrost walk-in refrigeration systems saving energy, reducing costs and ultimately improving product integrity. The SDK is available as a factory-installed option on all condensing units.

HEAD PRESSURE CONTROL

Refrigeration condensing units must efficiently perform at varying ambient conditions. A properly sized unit will adequately perform at even the highest summer ambient temperatures. However, in situations where the system must operate the majority of the time at less than design temperature, a means of providing adequate head pressure for refrigerant flow is desirable. The CDV & CDD units have an adjustable method of head pressure control.

This system provides year round control of refrigerant head pressure without the use of special refrigerant expansion valves. As the ambient temperature falls, the receiver pressure is allowed to fall to a minimum of 75°F saturated condensing pressure. The reduced discharge pressure at the compressor increases the compressor capacity and lowers the input watts from the compressor motor. The system also uses the reduced ambient temperature to subcool the liquid refrigerant in the condenser. This subcooled liquid also increases system capacity. As a general rule, every one degree of subcooling results in 0.50% increase in system capacity. Together these result in greater efficiency, greater capacity, and reduced run time.

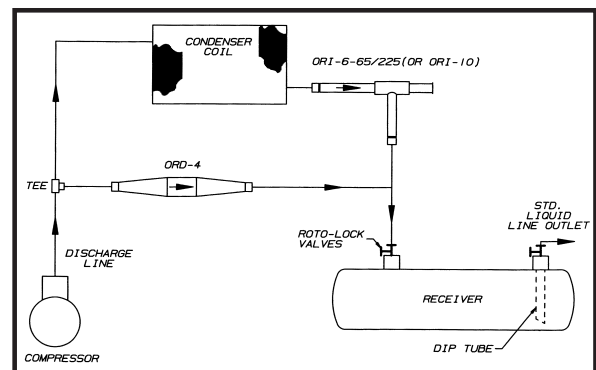
Benefits:

- Automatic year-round control of refrigerant head pressure without the use of special expansion valves.
- Energy savings in mild ambient conditions due to reduced compressor discharge pressure and refrigerant subcooling
- Provides easy restart during low ambient conditions.

Operation

As the ambient temperature falls, the system condensing pressure is also reduced. This pressure is maintained by a regulator (ORI-6-65/225) at the condenser drain. At approximately 75°F saturated condensing pressure the regulator restricts the flow of liquid refrigerant from the condenser causing the condenser to flood. This condenser flooding allows the liquid refrigerant in the condenser to become subcooled by the ambient air flowing through the condenser. As the regulator continues to flood the condenser, a pressure differential will be established between the receiver and the compressor discharge. At a prescribed differential, a second valve (ORD-4) will open and allow discharge gas from the compressor to bypass the condenser and flow into the top of the receiver. This gas is used to pressurize the receiver. These valves are adjustable and the minimum receiver pressure may be reset higher or lower depending upon application situations of a particular job.

Subcooled liquid is further enhanced by the routing of liquid from the receiver liquid line outlet to the condenser before leaving the condensing unit.



Bitzer Compressors

Features and Benefits



Bitzer is the world's largest manufacturer of semi-hermetic refrigeration compressors over 3 HP. In business since 1934, Bitzer has manufacturing plants in Germany, Brazil, Portugal, China and the United States and operates in over 100 countries around the world. Bitzer's Georgia plant manufactures a complete range of semi-hermetic compressors from 3 to 50 HP. Bitzer provides aftermarket support through wholesalers and also provides 24-hour replacement service from its seven distribution warehouses located across the U.S.

Bitzer Offers:

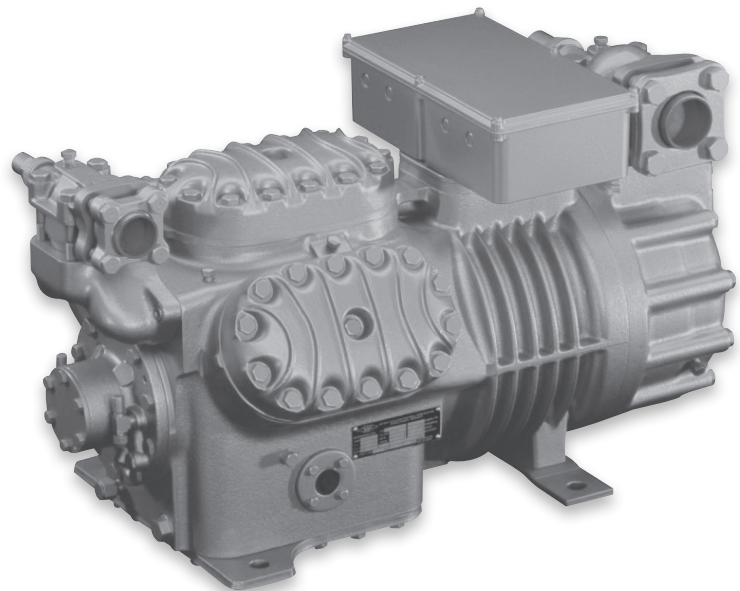
- **2-Year Warranty**
- Unloader Heads Standard on All 4 & 6-cylinder Models
- Dual Voltage Control Modules on All Models
- Dual Voltage Compressors (6 to 50 HP)
- Lowest Sound Levels in their Class (Built-in Mufflers)
- Superior Lubrication and Low Oil Circulation Rates
- German Engineering / Built in America

| Bitzer Standard Execution | Octagon 4C Models | 4B & 6B Models |
|--|----------------------|-------------------|
| POE Oil Charge | √ | √ |
| Protective Dry-Nitrogen Charge | √ | √ |
| Suction & Discharge Service Valves | √ | √ |
| Dual Voltage INT Protection Modules | √ | √ |
| Terminal Box Enclosure Class IP65 | √ | √ |
| Unloader Heads | √ | √ |
| Patented Internal Mufflers | √ | √ |
| Centrifugal Oil System | √ | √ |
| Conventional Oil Pump | √ | √ |
| Bitzer Options | 4C Models | 4B & 6B |
| Mounting Hardware (Spring Kits) | √ | √ |
| Hard Mount Kits | √ | √ |
| Optical Oil Sensor | √ | √ |
| Crankcase Heaters | √ | √ |
| Unloader Stems / Coils | √ | √ |
| Head Fans and Brackets | √ | √ |
| Delta P II Differential Oil Pres. Switch | √ | √ |



Bitzer Quiet!!!

Bitzer compressors are famous for their low sound levels. We change capacities within a frame size by changing our bore diameters rather than the length of the piston strokes. This gives our compressors an unsurpassed balance and precision that translates to low decibels. In addition, Bitzer compressors have a muffler built into each head (see photo) that eliminates pulsations and reduces the sound levels even further.



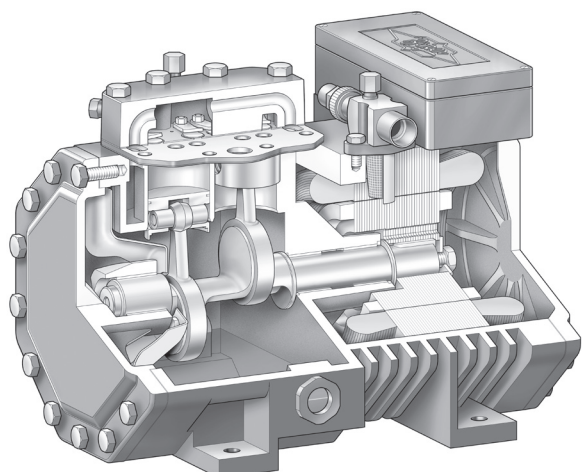
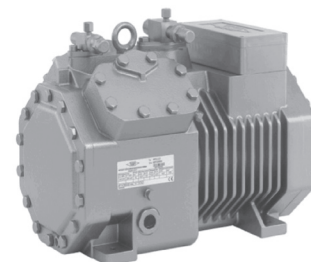
Bitzer Compressors

Features and Benefits



Octagon® 4C Models

Bitzer Octagon 4C Models are rated from 3 to 20 HP. This rugged, compact series utilizes wear resistant drive gear with PTFE coated bearings for especially low friction, aluminum pistons of optimized geometry, connecting rods with eccentric straps and generously dimensioned bearing surfaces. Bitzer's centrifugal lubrication system eliminates the need for an oil pump and provides optimum oil supply to the compressor even under extreme operating conditions.



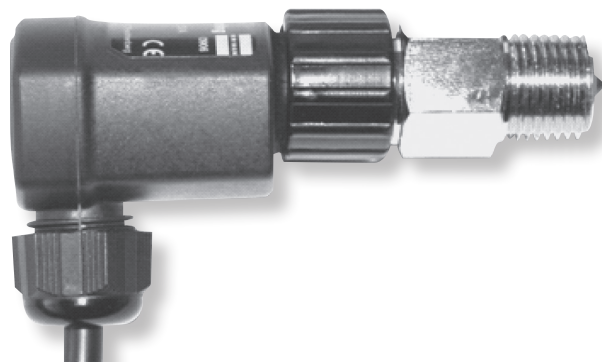
Centrifugal Lubrication

The centrifugal lubrication design employs a solid metal disc mounted to the crankshaft (see cut-away) that distributes oil into a reservoir at the end of the shaft. The oil then flows through the shaft to the bearing surfaces.

Bitzer offers an optional Optical Oil Sensor (See OLC-K1 photo below) that mounts to the outer cover of the compressor and monitors oil level by means of an infrared light.

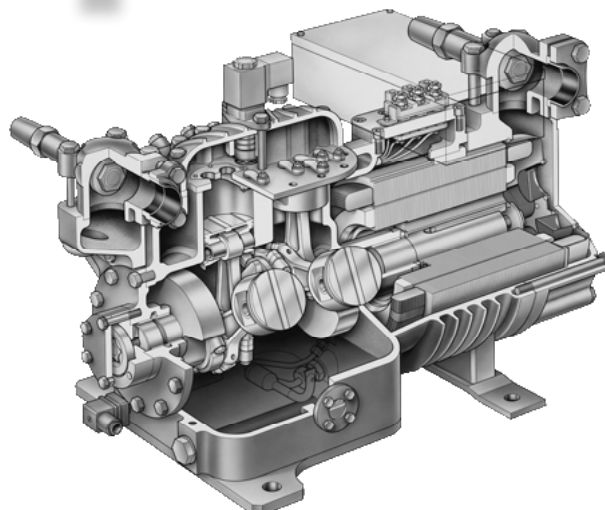
OLC-K1 Operating Principle

The OLC-K1 sensing device shines an infrared light into the oil reservoir. If oil is present, the light is absorbed and the compressor runs normally. If no oil is present, the light reflects on the sensor, and the compressor shuts off.



Bitzer 4B & 6B Models

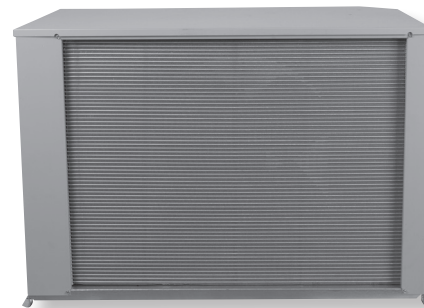
Bitzer 4B through 6B Models are rated from 13 to 50 HP. This series features surface hardened crank shafts, low friction bearings, aluminum pistons, hard chrome plated piston rings and special wrist pin bearings. The 4B & 6B models have a sealed main bearing and generously sized oil pump. Our patented oil return system ensures complete lubrication while reducing oil circulation into the system. Efficient capacity control is provided by unloader banks that can significantly reduce energy consumption.



Horizontal Air Discharge Condensing Units 4 to 13 HP

Standard and Optional Features

- Floating Tube™ coil design
- Rifled copper condenser tubing
- Designed for use with R-404A, R-507
- Prebent copper tubes minimize welded joints on internal piping
- Fixed high and adjustable low pressure controls.
- Oil safety control
- Head pressure control valve
- Bitzer compressors with POE oil
- Spring mounted compressor with suction and discharge vibration eliminators
- Crankcase heater
- Thermally protected, permanently lubricated ball bearing condenser fan motors
- Separate subcooling circuit in condenser for added capacity and vapor-free liquid
- Pressure relief valve on receiver
- Sealed liquid line filter drier and sight glass
- Electrical controls, including compressor contactor and optional defrost control, are located in easily accessible control box with a hinged cover
- Service Mate™ module to assist troubleshooting
- Pumpdown Switch
- Cabinet is constructed from prepainted galvanized steel
- Base valve and high & low pressure taps on outside of unit
- Vertical receivers



Factory-Installed Options

- Oversized receiver
- Replaceable core liquid filter drier
- Liquid line solenoid valve
- Suction filter
- Replaceable core suction filter
- Suction accumulator
- Oil separator
- Air defrost timer
- Electric defrost kits, including timer, evaporator fan contactor with fusing, defrost heater contactor(s), lockout relay and terminal strip
- Fusing for defrost kits
- Evaporator holdout relays for systems with multiple electric defrost evaporators
- Low ambient kit with heated and insulated receiver with time delay
- Fused disconnect switch
- Non-fused disconnect switch
- Phase-loss monitor
- Manual-reset high pressure switch
- Anti-short cycle timer
- Compressor circuit breakers
- Condenser fan cycling
- Coated condenser coils
- Copper finned coil
- Beacon II™ compatible
- Hail guards (shipped loose)
- Compressor unloading
- NEMA contactors
- 12" extended legs for snowbelt region (shipped loose)
- Slanted louver for snowbelt regions (shipped loose)
- Dual pressure control

Nomenclature

| C | B | T | 0000 | L | 6 | C |
|---------------------------|------------|---|---|---------------------------------|----------------------|--|
| Brand | Compressor | Application | Horsepower | Temp. Range | Refrigerant | Voltage |
| C = Climate Control | B = Bitzer | T = Outdoor N = Indoor S = Beacon II™ | 0401 - 4 0551 - 5 0601 - 6 0611 - 6 0751 - 7.5 0901 - 9 1001 - 10 1201 - 12 1301 - 13 | M = Med. Temp. L = Low Temp. | 6 = R-404A, R-507 | C = 208-230/3/60 D = 460/3/60 E = 575/3/60 |

Performance Data

Medium Temperature R-404A/R-507

| Unit Model Number | Compressor Model | Suction Temp. °F | 90°F Amb. | 95°F Amb. | 100°F Amb. | 110°F Amb. |
|-------------------|------------------|------------------|-----------|-----------|------------|------------|
| CB*0551M6 | 4C0969SH | 40 | 89700 | 85620 | 81720 | 74280 |
| | | 30 | 75460 | 72064 | 68710 | 62010 |
| | | 25 | 68740 | 65580 | 62440 | 56230 |
| | | 20 | 62260 | 59360 | 56460 | 50730 |
| | | 15 | 56190 | 53510 | 50870 | 45720 |
| | | 5 | 45520 | 43270 | 41170 | 36550 |
| CB*0751M6 | 4C1145SH | 40 | 105280 | 100690 | 95530 | 86960 |
| | | 30 | 88720 | 84739 | 80270 | 72380 |
| | | 25 | 80750 | 76660 | 72960 | 65640 |
| | | 20 | 72780 | 69360 | 65960 | 59210 |
| | | 15 | 65640 | 62500 | 59380 | 53160 |
| | | 5 | 53140 | 50500 | 47880 | 42700 |
| CB*0901M6 | 4C1385SH | 40 | 129090 | 124130 | 118700 | 107220 |
| | | 30 | 108780 | 101623 | 99390 | 90050 |
| | | 25 | 99120 | 94750 | 90440 | 81730 |
| | | 20 | 89850 | 85870 | 81860 | 76750 |
| | | 15 | 81200 | 77500 | 73800 | 66340 |
| | | 5 | 65960 | 62760 | 59840 | 53950 |
| CB*1001M6 | 4C1480PH | 40 | 137470 | 131010 | 125080 | 113750 |
| | | 30 | 115200 | 107509 | 105430 | 94630 |
| | | 25 | 104860 | 100040 | 95260 | 85740 |
| | | 20 | 94930 | 90550 | 86090 | 77130 |
| | | 15 | 85670 | 81560 | 77450 | 69510 |
| | | 5 | 69300 | 65840 | 62560 | 55590 |

Low Temperature R-404A/R-507

| Unit Model Number | Compressor Model | Suction Temp. °F | 90°F Amb. | 95°F Amb. | 100°F Amb. | 110°F Amb. |
|-------------------|------------------|------------------|-----------|-----------|------------|------------|
| CB*0401L6 | 4C0969SL | 0 | 35200 | 33380 | 31560 | 28020 |
| | | -10 | 27690 | 26222 | 24690 | 21680 |
| | | -15 | 24440 | 23040 | 21620 | 18870 |
| | | -20 | 21520 | 20210 | 18930 | 16460 |
| | | -30 | 17090 | 16000 | 14930 | 12820 |
| | | -40 | 15030 | 14090 | 13200 | 11330 |
| CB*0551L6 | 4C1145SL | 0 | 42930 | 40770 | 38600 | 34290 |
| | | -10 | 33890 | 32073 | 30230 | 26620 |
| | | -15 | 29880 | 28200 | 26510 | 23190 |
| | | -20 | 26310 | 24770 | 23230 | 20270 |
| | | -30 | 20960 | 19650 | 18370 | 15830 |
| | | -40 | 18450 | 17320 | 16240 | 14010 |
| CB*0601L6 | 4C1385SL | 0 | 52890 | 50250 | 47530 | 42230 |
| | | -10 | 41590 | 39334 | 37070 | 32610 |
| | | -15 | 36690 | 34580 | 32480 | 28460 |
| | | -20 | 32320 | 30410 | 28510 | 24810 |
| | | -30 | 25910 | 24260 | 22630 | 19540 |
| | | -40 | 22910 | 21500 | 20090 | 17370 |
| CB*0611L6 | 4C1480PL | 0 | 56010 | 52610 | 49660 | 43790 |
| | | -10 | 43740 | 41241 | 38770 | 33850 |
| | | -15 | 38540 | 36230 | 33910 | 29460 |
| | | -20 | 33870 | 31750 | 29680 | 25640 |
| | | -30 | 26730 | 24980 | 23280 | 19980 |
| | | -40 | 23080 | 21650 | 20230 | 17430 |
| CB*0751L6 | 4C1761PL | 0 | 68040 | 64570 | 61090 | 54180 |
| | | -10 | 53710 | 50780 | 47800 | 41660 |
| | | -15 | 47320 | 44580 | 41840 | 36480 |
| | | -20 | 41590 | 39080 | 36600 | 31870 |
| | | -30 | 32760 | 30720 | 28700 | 24750 |
| | | -40 | 28200 | 26530 | 24910 | 21590 |
| CB*1001L6 | 4C2067PL | 0 | 78200 | 74200 | 70160 | 63210 |
| | | -10 | 61470 | 58050 | 54740 | 48110 |
| | | -15 | 54150 | 51030 | 47940 | 41820 |
| | | -20 | 47560 | 44700 | 41880 | 36370 |
| | | -30 | 37620 | 35240 | 32860 | 28310 |
| | | -40 | 32550 | 30500 | 28620 | 24710 |
| CB*1201L6 | 4C2397PL | 0 | 93390 | 88580 | 83830 | 74420 |
| | | -10 | 74920 | 69208 | 65150 | 57070 |
| | | -15 | 64440 | 60680 | 56890 | 49580 |
| | | -20 | 56560 | 53090 | 49680 | 43080 |
| | | -30 | 44620 | 41750 | 38850 | 33170 |
| | | -40 | 38400 | 36060 | 33630 | 28760 |
| CB*1301L6 | 4B2707PL | 0 | 105360 | 100530 | 95590 | 85790 |
| | | -10 | 83410 | 79221 | 75110 | 66870 |
| | | -15 | 73740 | 69890 | 66030 | 58590 |
| | | -20 | 65040 | 61530 | 58040 | 51230 |
| | | -30 | 51830 | 48880 | 45950 | 40350 |
| | | -40 | 45050 | 42600 | 40250 | 35390 |

*= T for Outdoors, N for Indoors, S for Beacon II™

Consult factory on all models for applications above 110°F ambient.

Electrical Data

Medium Temperature – R-404A/507

| Unit Model Number | Compressor Model | Voltage Supply [^] | | Compressor | | Condenser Fan Motors | | | Beacon II™ or Air Defrost | | Remote Loads [‡] | | | |
|-------------------|------------------|-----------------------------|------|------------|------|----------------------|-----|------------------|---------------------------|---|---------------------------|-------------------------|--------------------------|--|
| | | 60 Hz | RLA | LRA | Qty. | HP | FLA | MCA [†] | MOP ^{††} | Electric Defrost | | | | |
| | | | | | | | | | | Evap. Fan Amps | Defrost Heater Amps | System MCA [†] | System MOP ^{††} | |
| CB*0551M6C | 4C0969SH | 208-230/3 | 26.5 | 163.0 | 2 | 1/3 | 5.4 | 38.5 | 60 | CONTACT FACTORY FOR SYSTEM ELECTRICAL RATINGS | | | | |
| CB*0551M6D | 4C0969SH | 460/3 | 12.8 | 66.5 | 2 | 1/3 | 3.8 | 19.8 | 30 | | | | | |
| CB*0551M6E | 4C0969SH | 575/3 | 8.3 | 48.0 | 2 | 1/3 | 2.4 | 12.8 | 20 | | | | | |
| CB*0751M6C | 4C1145SH | 208-230/3 | 29.0 | 215.0 | 2 | 1/3 | 5.4 | 41.7 | 70 | | | | | |
| CB*0751M6D | 4C1145SH | 460/3 | 13.8 | 88.0 | 2 | 1/3 | 3.8 | 21.1 | 35 | | | | | |
| CB*0751M6E | 4C1145SH | 575/3 | 10.3 | 63.5 | 2 | 1/3 | 2.4 | 15.3 | 25 | | | | | |
| CB*0911M6C | 4C1385SH | 208-230/3 | 32.7 | 215.0 | 2 | 3/4 | 8.8 | 49.7 | 80 | | | | | |
| CB*0911M6D | 4C1385SH | 460/3 | 16.3 | 88.0 | 2 | 3/4 | 4.4 | 24.8 | 40 | | | | | |
| CB*0911M6E | 4C1385SH | 575/3 | 13.1 | 63.5 | 2 | 3/4 | 3.6 | 20 | 30 | | | | | |
| CB*1001M6C | 4C1480PH | 208-230/3 | 38.5 | 222.0 | 2 | 3/4 | 8.8 | 56.9 | 90 | | | | | |
| CB*1001M6D | 4C1480PH | 460/3 | 19.2 | 111.0 | 2 | 3/4 | 4.4 | 28.4 | 45 | | | | | |
| CB*1001M6E | 4C1480PH | 575/3 | 15.4 | 89.0 | 2 | 3/4 | 3.6 | 22.9 | 35 | | | | | |

Low Temperature – R-404A/R-507

| Unit Model Number | Compressor Model | Voltage Supply [^] | | Compressor | | Condenser Fan Motors | | | Beacon II™ or Air Defrost | | Remote Loads [‡] | | | |
|-------------------|------------------|-----------------------------|------|------------|------|----------------------|-----|------------------|---------------------------|---|---------------------------|-------------------------|--------------------------|--|
| | | 60 Hz | RLA | LRA | Qty. | HP | FLA | MCA [†] | MOP ^{††} | Electric Defrost | | | | |
| | | | | | | | | | | Evap. Fan Amps | Defrost Heater Amps | System MCA [†] | System MOP ^{††} | |
| CB*0401L6C | 4C0969SL | 208-230/3 | 16.7 | 142.0 | 1 | 1/3 | 2.7 | 23.6 | 40.0 | CONTACT FACTORY FOR SYSTEM ELECTRICAL RATINGS | | | | |
| CB*0401L6D | 4C0969SL | 460/3 | 9.0 | 58.0 | 1 | 1/3 | 1.9 | 13.2 | 20.0 | | | | | |
| CB*0401L6E | 4C0969SL | 575/3 | 7.0 | 51.5 | 1 | 1/3 | 1.2 | 10.0 | 15.0 | | | | | |
| CB*0551L6C | 4C1145SL | 208-230/3 | 19.4 | 163.0 | 1 | 1/3 | 2.7 | 27.0 | 45.0 | | | | | |
| CB*0551L6D | 4C1145SL | 460/3 | 10.6 | 66.5 | 1 | 1/3 | 1.9 | 15.2 | 25.0 | | | | | |
| CB*0551L6E | 4C1145SL | 575/3 | 8.7 | 48.0 | 1 | 1/3 | 1.2 | 12.1 | 20.0 | | | | | |
| CB*0601L6C | 4C1385SL | 208-230/3 | 24.9 | 215.0 | 2 | 1/3 | 5.4 | 36.5 | 60.0 | | | | | |
| CB*0601L6D | 4C1385SL | 460/3 | 14.2 | 88.0 | 2 | 1/3 | 3.8 | 21.6 | 35.0 | | | | | |
| CB*0601L6E | 4C1385SL | 575/3 | 10.8 | 63.5 | 2 | 1/3 | 2.4 | 15.9 | 25.0 | | | | | |
| CB*0611L6C | 4C1480PL | 208-230/3 | 24.4 | 150.0 | 2 | 1/3 | 5.4 | 35.9 | 60.0 | | | | | |
| CB*0611L6D | 4C1480PL | 460/3 | 12.2 | 75.0 | 2 | 1/3 | 3.8 | 19.1 | 30.0 | | | | | |
| CB*0611L6E | 4C1480PL | 575/3 | 9.6 | 60.0 | 2 | 1/3 | 2.4 | 14.4 | 20.0 | | | | | |
| CB*0751L6C | 4C1761PL | 208-230/3 | 28.2 | 180.0 | 2 | 1/3 | 5.4 | 40.7 | 60.0 | | | | | |
| CB*0751L6D | 4C1761PL | 460/3 | 14.1 | 90.0 | 2 | 1/3 | 3.8 | 21.4 | 35.0 | | | | | |
| CB*0751L6E | 4C1761PL | 575/3 | 12.2 | 72.0 | 2 | 1/3 | 2.4 | 17.7 | 30.0 | | | | | |
| CB*1001L6C | 4C2067PL | 208-230/3 | 34.6 | 222.0 | 2 | 1/3 | 5.4 | 48.7 | 80.0 | | | | | |
| CB*1001L6D | 4C2067PL | 460/3 | 17.3 | 111.0 | 2 | 1/3 | 3.8 | 25.4 | 40.0 | | | | | |
| CB*1001L6E | 4C2067PL | 575/3 | 14.4 | 89.0 | 2 | 1/3 | 2.4 | 20.4 | 30.0 | | | | | |
| CB*1201L6C | 4C2397PL | 208-230/3 | 39.7 | 252.0 | 2 | 3/4 | 8.8 | 58.4 | 90.0 | | | | | |
| CB*1201L6D | 4C2397PL | 460/3 | 19.9 | 126.0 | 2 | 3/4 | 4.4 | 29.3 | 45.0 | | | | | |
| CB*1201L6E | 4C2397PL | 575/3 | 15.9 | 101.0 | 2 | 3/4 | 3.6 | 22.5 | 35.0 | | | | | |
| CB*1301L6C | 4B2707PL | 208-230/3 | 43.6 | 294.0 | 2 | 3/4 | 8.8 | 63.3 | 100.0 | | | | | |
| CB*1301L6D | 4B2707PL | 460/3 | 21.8 | 147.0 | 2 | 3/4 | 4.4 | 31.7 | 50.0 | | | | | |
| CB*1301L6E | 4B2707PL | 575/3 | 17.3 | 117.0 | 2 | 3/4 | 3.6 | 25.2 | 40.0 | | | | | |

*= T for Outdoors, N for Indoors, S for Beacon II™

[^] Consult factory for 50Hz applications.

[†] MCA = Minimum Circuit Ampacity

^{††} MOP = Maximum Overcurrent Protection

[‡] Condensing unit data plate ratings will be based on actual system match.

Specifications and Dimensional Data

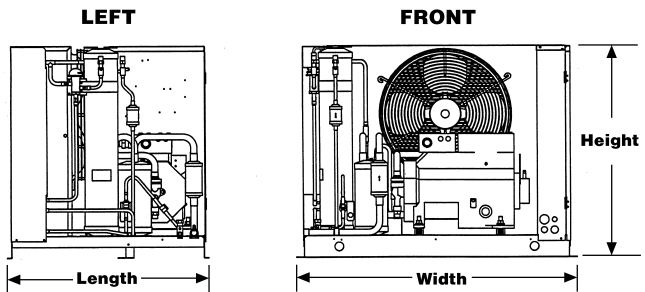
Medium & Low Temperature – R-404A/R-507

| Unit Model Number | Compressor Model | HP | Refrigerant Line Connections (OD) | | Receiver Capacity @ 90% full (lbs.) | | Dimensions (inches) | | | Approx. Net Wt. (lbs.) |
|-------------------|------------------|------|-----------------------------------|---------|-------------------------------------|-----|---------------------|--------|--------|------------------------|
| | | | Liquid | Suction | STD | OPT | Length | Width | Height | |
| CB*0551M6 | 4C0969SH | 5.5 | 5/8 | 1 3/8 | 67 | 78 | 36-3/4 | 63-3/4 | 39-1/4 | 823 |
| CB*0751M6 | 4C1145SH | 7.5 | 5/8 | 1 3/8 | 67 | 78 | 36-3/4 | 63-3/4 | 39-1/4 | 862 |
| CB*0901M6 | 4C1385SH | 9.0 | 7/8 | 1 5/8 | 67 | 87 | 41-3/4 | 75-1/8 | 48-3/4 | 993 |
| CB*1001M6 | 4C1480PH | 10.0 | 7/8 | 1 5/8 | 67 | 87 | 41-3/4 | 75-1/8 | 48-3/4 | 1,101 |
| CB*0401L6 | 4C0969SL | 4.0 | 1/2 | 1 1/8 | 28 | 52 | 36-3/4 | 51-3/4 | 39-1/4 | 595 |
| CB*0551L6 | 4C1145SL | 5.5 | 1/2 | 1 1/8 | 28 | 52 | 36-3/4 | 51-3/4 | 39-1/4 | 645 |
| CB*0601L6 | 4C1385SL | 6.0 | 5/8 | 1 3/8 | 67 | 78 | 36-3/4 | 63-3/4 | 39-1/4 | 775 |
| CB*0611L6 | 4C1480PL | 6.5 | 5/8 | 1 3/8 | 67 | 78 | 36-3/4 | 63-3/4 | 39-1/4 | 865 |
| CB*0751L6 | 4C1761PL | 7.5 | 5/8 | 1 3/8 | 67 | 78 | 36-3/4 | 63-3/4 | 39-1/4 | 935 |
| CB*1001L6 | 4C2067PL | 10.0 | 5/8 | 1 3/8 | 67 | 78 | 36-3/4 | 63-3/4 | 39-1/4 | 1,000 |
| CB*1201L6 | 4C2397PL | 12.0 | 7/8 | 1 5/8 | 67 | 87 | 41-3/4 | 75-1/8 | 48-3/4 | 1,082 |
| CB*1301L6 | 4B2707PL | 13.0 | 7/8 | 1 5/8 | 67 | 87 | 41-3/4 | 75-1/8 | 48-3/4 | 1,173 |

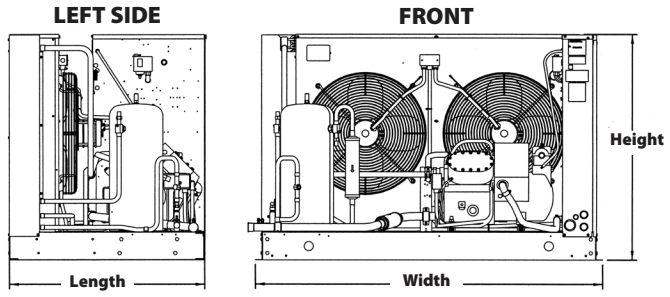
*= T for Outdoors, N for Indoors, S for Beacon II™

Horizontal Discharge

One Fan Condenser



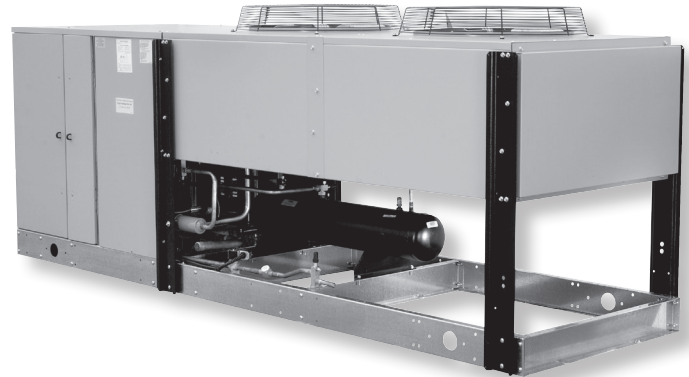
Two Fan Condenser



Vertical Air Discharge Condensing Units 13 to 50 HP Single Compressor

Standard and Optional Features

- The Floating Tube™ coil design. Refrigerant-carrying copper tubes do not contact any metal support sheets; instead, the coil is constructed with expanded anchor tubes that support the coil construction and do not carry refrigerant. The coil design eliminates one of the major causes of leaks in refrigeration systems
- Limited five-year warranty against condenser tube sheet and center support leaks
- Designed for use with R-404A, R-507
- Prevent copper tubes minimize welded joints on internal piping
- All sweat type connections, no flare joints to leak
- Fixed high pressure switch eliminates capillary tubes
- Oil safety control
- Bitzer compressors with POE oil
- Spring mounted compressor with suction and discharge vibration eliminators
- Crankcase heater
- Thermally protected, permanently lubricated ball bearing condenser fan motors
- Separate subcooling circuit in condenser for added capacity and vapor-free liquid
- Receivers are sized for sufficient pumpdown capacity with inlet and outlet service valves
- Pressure relief valve on receiver
- Sealed liquid line filter drier and sight glass
- Electrical controls, including compressor contactor and optional defrost control, are located in easily accessible control box with a hinged cover
- Service Mate™ module to assist troubleshooting
- Pumpdown Switch
- Cabinet is constructed from prepainted galvanized steel
- Convenient access panels for easy servicing to internal components
- Adjustable head pressure control valves



Factory-Installed Options



- Compressor unloading
- Replaceable core liquid filter drier
- Liquid line solenoid valve
- Suction filter
- Replaceable core suction filter
- Suction accumulator
- Oil separator with discharge line check valve
- Air defrost timer
- Electric defrost kits, including timer, evaporator fan contactor with fusing, defrost heater contactor(s), lockout relay and terminal strip
- Fusing for defrost kits
- Evaporator holdout relays for systems with multiple electric defrost evaporators
- Low ambient kit with heated and insulated receiver with time delay
- Fused disconnect switch
- Non-fused disconnect switch
- Phase-loss protection
- Manual-reset high pressure switch
- Anti-short cycle timer
- Compressor circuit breakers
- Condenser fan cycling (standard on CDVS)
- Three-way heat reclaim valve (n/a on CDVS)
- Coated condenser coils for protection against corrosion in harsh environments
- Beacon II™ compatible

Single Vertical Air Discharge Condensing Unit

Nomenclature

| C | D | V | 000B | L | 6 | C |
|---------------------|-----|--|--|---------------------------------|----------------------|--|
| Brand | | Airflow | Horsepower | Temp. Range | Refrigerant | Voltage |
| C = Climate Control | D - | V = Vertical VS = Vertical Beacon II™ | 130B - 13 150B - 15 200B - 20 220B - 22 250B - 25 300B - 30 330B - 33 350B - 35 400B - 40 500B - 50 | M = Med. Temp. L = Low Temp. | 6 = R-404A, R-507 | C = 208-230/3/60 D = 460/3/60 E = 575/3/60 |

Performance Data

Medium Temperature – R-404A/R-507

| Unit Model Number | Compressor Model | Suction Temp. °F | 90°F Amb. | 95°F Amb. | 100°F Amb. | 110°F Amb. |
|-------------------|------------------|------------------|-----------|-----------|------------|------------|
| CDV*150BM6 | 4C2067PH | 40 | 197120 | 188290 | 178750 | 162020 |
| | | 30 | 165780 | 157400 | 150410 | 134650 |
| | | 25 | 150650 | 143110 | 132640 | 121880 |
| | | 20 | 136230 | 129380 | 123010 | 109570 |
| | | 15 | 122680 | 116550 | 110440 | 98170 |
| | | 5 | 98790 | 93540 | 88070 | 77590 |
| CDV*200BM6 | 4C2397PH | 40 | 230460 | 219760 | 209960 | 191380 |
| | | 30 | 192070 | 183360 | 175590 | 157870 |
| | | 25 | 174410 | 166320 | 158250 | 142410 |
| | | 20 | 157400 | 150000 | 142470 | 127770 |
| | | 15 | 141810 | 134810 | 127880 | 113890 |
| | | 5 | 113840 | 107790 | 101800 | 89390 |
| CDV*220BM6 | 4B2707PH | 40 | 254200 | 244040 | 232880 | 213790 |
| | | 30 | 212600 | 204700 | 195360 | 177890 |
| | | 25 | 193960 | 185270 | 177330 | 161290 |
| | | 20 | 175330 | 167820 | 160390 | 145490 |
| | | 15 | 157850 | 150960 | 144070 | 130340 |
| | | 5 | 127090 | 121320 | 115590 | 103770 |
| CDV*250BM6 | 4B3139PH | 40 | 291480 | 279820 | 268270 | 243980 |
| | | 30 | 245260 | 234460 | 225090 | 204400 |
| | | 25 | 222450 | 213660 | 203930 | 185400 |
| | | 20 | 201510 | 193150 | 184500 | 167350 |
| | | 15 | 181830 | 173860 | 165980 | 150090 |
| | | 5 | 146820 | 140070 | 133380 | 119580 |
| CDV*300BM6 | 4B3604PH | 40 | 339410 | 324930 | 311370 | 285650 |
| | | 30 | 284940 | 273150 | 261580 | 238360 |
| | | 25 | 259200 | 248290 | 237590 | 215910 |
| | | 20 | 235080 | 225050 | 214940 | 194800 |
| | | 15 | 211960 | 202640 | 193290 | 174680 |
| | | 5 | 171290 | 163320 | 155450 | 139050 |
| CDV*330BM6 | 6B4060PH | 40 | 385050 | 368290 | 352830 | 323590 |
| | | 30 | 321570 | 308190 | 296110 | 268900 |
| | | 25 | 292920 | 279790 | 267620 | 243190 |
| | | 20 | 263780 | 252590 | 241230 | 218990 |
| | | 15 | 237640 | 227190 | 216720 | 195850 |
| | | 5 | 190700 | 181990 | 173230 | 155250 |
| CDV*350BM6 | 6B4709PH | 40 | 438780 | 421120 | 401770 | 368420 |
| | | 30 | 369160 | 353880 | 338590 | 307100 |
| | | 25 | 335750 | 321530 | 306610 | 278580 |
| | | 20 | 303260 | 290650 | 277520 | 251470 |
| | | 15 | 273630 | 261560 | 249500 | 225500 |
| | | 5 | 220740 | 210580 | 200500 | 179780 |
| CDV*400BM6 | 6B5406PH | 40 | 505840 | 483740 | 463250 | 424260 |
| | | 30 | 425630 | 408880 | 391180 | 355120 |
| | | 25 | 388520 | 371110 | 354990 | 322990 |
| | | 20 | 352010 | 336760 | 321570 | 291390 |
| | | 15 | 317530 | 303520 | 289520 | 261700 |
| | | 5 | 256880 | 245160 | 233350 | 209240 |
| CDV*500BM6 | 6B6462PH | 40 | 592370 | 567970 | 543770 | 494050 |
| | | 30 | 501120 | 479900 | 485690 | 415900 |
| | | 25 | 457060 | 437280 | 417510 | 378430 |
| | | 20 | 414850 | 396510 | 378160 | 341770 |
| | | 15 | 375030 | 357970 | 341040 | 307300 |
| | | 5 | 304620 | 290190 | 275780 | 246360 |

CDV* = CDVS is Beacon II™

Notes: For 50 cycle capacity, multiply values by .86

Performance Data

Low Temperature – R-404A/R-507

| Unit Model Number | Compressor Model | Suction Temp. °F | 90°F Amb. | 95°F Amb. | 100°F Amb. | 110°F Amb. |
|-------------------|------------------|------------------|-----------|-----------|------------|------------|
| CDV*130BL6 | 4B2707PL | 0 | 105960 | 100880 | 95790 | 85810 |
| | | -10 | 81650 | 77300 | 72980 | 64920 |
| | | -15 | 70890 | 66880 | 62900 | 55370 |
| | | -20 | 61310 | 57620 | 53960 | 46770 |
| | | -30 | 46800 | 43630 | 40420 | 33650 |
| | | -40 | 39880 | 37260 | 34420 | 29100 |
| CDV*150BL6 | 4B3139PL | 0 | 123250 | 117250 | 111270 | 99750 |
| | | -10 | 95940 | 90740 | 85500 | 75940 |
| | | -15 | 83810 | 78930 | 74120 | 64930 |
| | | -20 | 73030 | 68530 | 63970 | 55110 |
| | | -30 | 56580 | 52580 | 48520 | 40050 |
| | | -40 | 48750 | 45290 | 41760 | 34500 |
| CDV*200BL6 | 4B3604PL | 0 | 141040 | 133910 | 126850 | 112960 |
| | | -10 | 110120 | 104050 | 97980 | 86810 |
| | | -15 | 96260 | 90640 | 85090 | 74470 |
| | | -20 | 83860 | 78710 | 73500 | 63370 |
| | | -30 | 64670 | 60140 | 55580 | 46070 |
| | | -40 | 55050 | 51170 | 47240 | 39070 |
| CDV*220BL6 | 6B4060PL | 0 | 156330 | 148990 | 141590 | 127330 |
| | | -10 | 120650 | 114230 | 107830 | 96230 |
| | | -15 | 104810 | 98870 | 92970 | 81890 |
| | | -20 | 90770 | 85340 | 79790 | 69200 |
| | | -30 | 69550 | 64720 | 59860 | 49790 |
| | | -40 | 59470 | 55420 | 51350 | 43220 |
| CDV*250BL6 | 6B4709PL | 0 | 184510 | 175840 | 166300 | 148750 |
| | | -10 | 142790 | 135120 | 127430 | 113350 |
| | | -15 | 124340 | 117270 | 110260 | 96980 |
| | | -20 | 107930 | 101510 | 94950 | 82350 |
| | | -30 | 83040 | 77430 | 71770 | 59880 |
| | | -40 | 71140 | 66410 | 61560 | 51750 |
| CDV*300BL6 | 6B5406PL | 0 | 204160 | 194480 | 190060 | 165790 |
| | | -10 | 158700 | 150250 | 141860 | 126570 |
| | | -15 | 138390 | 130550 | 122800 | 108090 |
| | | -20 | 120340 | 113100 | 105750 | 91680 |
| | | -30 | 92900 | 86400 | 79830 | 66380 |
| | | -40 | 80050 | 74380 | 68650 | 56190 |
| CDV*400BL6 | 6B6462PL | 0 | 245130 | 232960 | 220670 | 196830 |
| | | -10 | 189440 | 178850 | 168260 | 148730 |
| | | -15 | 164710 | 154820 | 144950 | 126420 |
| | | -20 | 142690 | 133540 | 124260 | 106400 |
| | | -30 | 109060 | 100910 | 92610 | 74580 |
| | | -40 | 93380 | 86320 | 79130 | 63910 |

CDV* = CDVS is Beacon II™

Notes: For 50 cycle capacity, multiply values by .86

Single Vertical Air Discharge Condensing Unit

Electrical Data

Medium & Low Temperature – R-404A/R-507

| Unit Model Number | Compressor Model | Compressor | | Condenser Fan Motors | | Beacon II™ or Air Defrost | | Remote Loads ‡ | | | | | | | |
|----------------------|------------------|------------|-----|----------------------|------|---------------------------|-------|--|----------------------|-------------|--------------|--|--|--|--|
| | | RLA | LRA | Qty. | FLA | MCA† | MOP†† | Electric Defrost | | | | | | | |
| | | | | | | | | Evap. Fan Amps | Defrost Heaters Amps | System MCA† | System MOP†† | | | | |
| 208-230 Volts | | | | | | | | | | | | | | | |
| CDV*150BM6 | 4C2067PH | 48.7 | 294 | 2 | 9.6 | 70.5 | 110 | CONTACT FACTORY FOR SYSTEM ELECTRICAL RATINGS | | | | | | | |
| CDV*200BM6 | 4C2397PH | 57.7 | 352 | 2 | 14.0 | 86.1 | 125 | | | | | | | | |
| CDV*220BM6 | 4B2707PH | 61.5 | 352 | 2 | 14.0 | 90.9 | 150 | | | | | | | | |
| CDV*250BM6 | 4B3139PH | 75.6 | 436 | 2 | 14.0 | 108.5 | 175 | | | | | | | | |
| CDV*300BM6 | 4B3604PH | 89.7 | 490 | 3 | 21.0 | 133.1 | 200 | | | | | | | | |
| CDV*330BM6 | 6B4060PH | 100.0 | 550 | 3 | 21.0 | 146.0 | 225 | | | | | | | | |
| CDV*350BM6 | 6B4709PH | 105.1 | 550 | 3 | 21.0 | 152.4 | 250 | | | | | | | | |
| CDV*400BM6 | 6B5406PH | 141.0 | 700 | 4 | 28.0 | 204.3 | 325 | | | | | | | | |
| CDV*500BM6 | 6B6462PH | 143.6 | 950 | 4 | 28.0 | 207.5 | 350 | | | | | | | | |
| CDV*130BL6 | 4B2707PL | 43.6 | 294 | 2 | 9.6 | 64.1 | 100 | | | | | | | | |
| CDV*150BL6 | 4B3139PL | 46.2 | 294 | 2 | 9.6 | 67.4 | 110 | | | | | | | | |
| CDV*200BL6 | 4B3604PL | 57.7 | 352 | 2 | 9.6 | 81.7 | 125 | | | | | | | | |
| CDV*220BL6 | 6B4060PL | 65.4 | 436 | 2 | 14.0 | 95.8 | 150 | | | | | | | | |
| CDV*250BL6 | 6B4709PL | 69.2 | 436 | 2 | 14.0 | 100.5 | 150 | | | | | | | | |
| CDV*300BL6 | 6B5406PL | 84.6 | 490 | 2 | 14.0 | 119.8 | 200 | | | | | | | | |
| CDV*400BL6 | 6B6462PL | 97.4 | 700 | 3 | 21.0 | 142.8 | 225 | | | | | | | | |
| 460 Volts | | | | | | | | | | | | | | | |
| CDV*150BM6 | 4C2067PH | 24.4 | 147 | 2 | 4.8 | 35.3 | 60 | | | | | CONTACT FACTORY FOR SYSTEM ELECTRICAL RATINGS | | | |
| CDV*200BM6 | 4C2397PH | 28.8 | 176 | 2 | 7.0 | 43.0 | 70 | | | | | | | | |
| CDV*220BM6 | 4B2707PH | 30.8 | 176 | 2 | 7.0 | 45.5 | 70 | | | | | | | | |
| CDV*250BM6 | 4B3139PH | 37.8 | 218 | 2 | 7.0 | 54.3 | 90 | | | | | | | | |
| CDV*300BM6 | 4B3604PH | 44.9 | 245 | 3 | 10.5 | 66.6 | 110 | | | | | | | | |
| CDV*330BM6 | 6B4060PH | 50.0 | 275 | 3 | 10.5 | 73.0 | 110 | | | | | | | | |
| CDV*350BM6 | 6B4709PH | 52.6 | 275 | 3 | 10.5 | 76.3 | 125 | | | | | | | | |
| CDV*400BM6 | 6B5406PH | 70.5 | 350 | 4 | 14.0 | 102.1 | 150 | | | | | | | | |
| CDV*500BM6 | 6B6462PH | 71.8 | 425 | 4 | 14.0 | 103.8 | 175 | | | | | | | | |
| CDV*130BL6 | 4B2707PL | 21.8 | 147 | 2 | 4.8 | 32.1 | 50 | | | | | | | | |
| CDV*150BL6 | 4B3139PL | 23.1 | 147 | 2 | 4.8 | 33.7 | 50 | | | | | | | | |
| CDV*200BL6 | 4B3604PL | 28.8 | 176 | 2 | 4.8 | 40.8 | 70 | | | | | | | | |
| CDV*220BL6 | 6B4060PL | 32.7 | 218 | 2 | 7.0 | 47.9 | 80 | | | | | | | | |
| CDV*250BL6 | 6B4709PL | 34.6 | 218 | 2 | 7.0 | 50.3 | 80 | | | | | | | | |
| CDV*300BL6 | 6B5406PL | 42.3 | 245 | 2 | 7.0 | 59.9 | 100 | | | | | | | | |
| CDV*400BL6 | 6B6462PL | 48.7 | 350 | 3 | 10.5 | 71.4 | 110 | | | | | | | | |
| 575 Volts | | | | | | | | | | | | | | | |
| CDV*150BM6 | 4C2067PH | 19.6 | 117 | 2 | 4.6 | 29.1 | 40 | CONTACT FACTORY FOR SYSTEM ELECTRICAL RATINGS | | | | | | | |
| CDV*200BM6 | 4C2397PH | 23.6 | 140 | 2 | 5.6 | 35.1 | 50 | | | | | | | | |
| CDV*220BM6 | 4B2707PH | 24.4 | 140 | 2 | 5.6 | 36.1 | 60 | | | | | | | | |
| CDV*250BM6 | 4B3139PH | 30.1 | 165 | 2 | 5.6 | 43.2 | 70 | | | | | | | | |
| CDV*300BM6 | 4B3604PH | 35.9 | 196 | 3 | 8.4 | 53.3 | 80 | | | | | | | | |
| CDV*330BM6 | 6B4060PH | 39.7 | 220 | 3 | 8.4 | 58.0 | 90 | | | | | | | | |
| CDV*350BM6 | 6B4709PH | 41.7 | 220 | 3 | 8.4 | 60.5 | 100 | | | | | | | | |
| CDV*400BM6 | 6B5406PH | 56.4 | 280 | 4 | 11.2 | 81.7 | 125 | | | | | | | | |
| CDV*500BM6 | 6B6462PH | 57.1 | 340 | 4 | 11.2 | 82.6 | 125 | | | | | | | | |
| CDV*130BL6 | 4B2707PL | 17.3 | 117 | 2 | 4.6 | 26.2 | 40 | | | | | | | | |
| CDV*150BL6 | 4B3139PL | 18.6 | 117 | 2 | 4.6 | 27.9 | 45 | | | | | | | | |
| CDV*200BL6 | 4B3604PL | 23.1 | 140 | 2 | 4.6 | 33.5 | 50 | | | | | | | | |
| CDV*220BL6 | 6B4060PL | 26.9 | 174 | 2 | 5.6 | 38.5 | 60 | | | | | | | | |
| CDV*250BL6 | 6B4709PL | 27.6 | 174 | 2 | 5.6 | 40.1 | 60 | | | | | | | | |
| CDV*300BL6 | 6B5406PL | 33.3 | 196 | 2 | 5.6 | 47.2 | 80 | | | | | | | | |
| CDV*400BL6 | 6B6462PL | 39.1 | 280 | 3 | 8.4 | 57.3 | 90 | | | | | | | | |

CDV* = CDVS is Beacon II™

† MCA = Minimum Circuit Ampacity

†† MOP = Maximum Overcurrent Protection

‡ Condensing unit data plate ratings will be based on actual system match.

Beacon II™ and Air Defrost Units do not carry any of the evaporator fan or heater loads. Power is brought directly to the evaporators and does not go through the condensing unit.

An evaporator heater hold out relay (option) is recommended when two or more evaporators are connected to a single (CDV) condensing unit to allow termination on coils that have already defrosted to prevent unnecessary steaming. This option is not needed on Beacon II™ (CDVS) systems wired for a Master / Slave operation. Power is brought to each Beacon evaporator. Each coil terminates its own defrost. Refrigeration will not start until all coils have terminated defrost.

Specifications and Dimensional Data

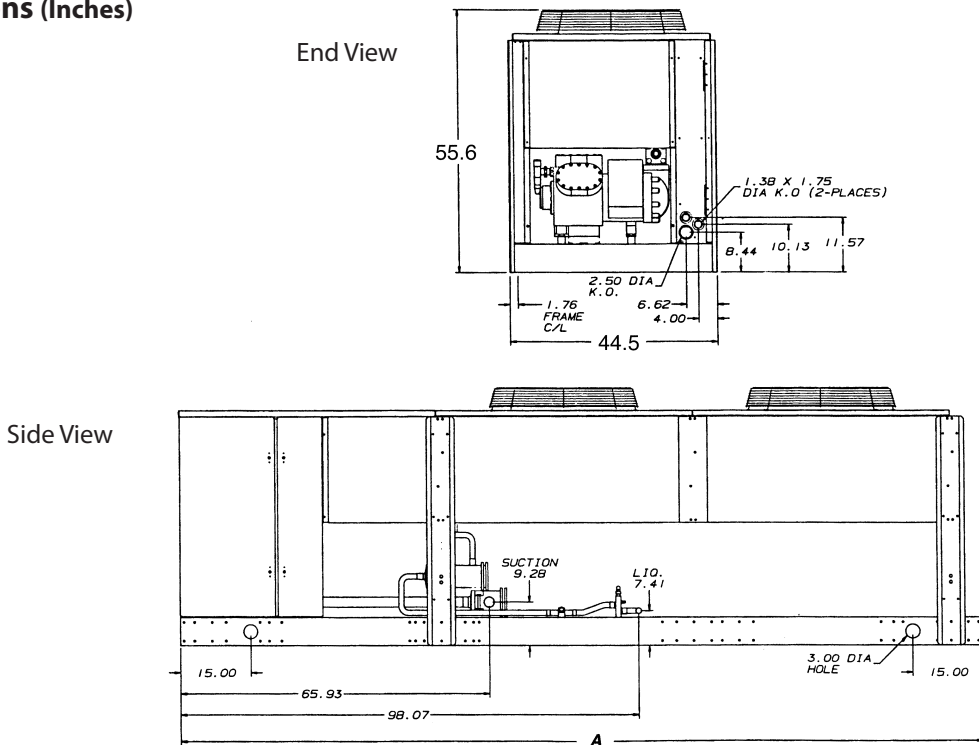
Medium & Low Temperature – R-404A/R-507

| Unit Model Number | Compressor Model | HP | Refrigerant Line Connections (OD) | | CDV & Beacon II Receiver Capacity @ 90% full (lbs.s) | | Dimensions (inches) Length (A) | Approx. Net Wt. (lbs.) |
|-------------------|------------------|----|-----------------------------------|---------|--|----|-----------------------------------|------------------------|
| | | | Liquid | Suction | LBS | KG | | |
| CDV*150BM6 | 4C2067PH | 15 | 7/8 | 1-5/8 | 123 | 56 | 144 | 1,400 |
| CDV*200BM6 | 4C2397PH | 20 | 7/8 | 1-5/8 | 123 | 56 | 171 | 1,625 |
| CDV*220BM6 | 4B2707PH | 22 | 1-1/8 | 2-1/8 | 123 | 56 | 171 | 1,690 |
| CDV*250BM6 | 4B3139PH | 25 | 1-1/8 | 2-1/8 | 123 | 56 | 171 | 1,935 |
| CDV*300BM6 | 4B3604PH | 30 | 1-1/8 | 2-1/8 | 188 | 85 | 226 | 1,615 |
| CDV*330BM6 | 6B4060PH | 33 | 1-1/8 | 2-1/8 | 188 | 85 | 226 | 1,785 |
| CDV*350BM6 | 6B4709PH | 35 | 1-1/8 | 2-1/8 | 188 | 85 | 226 | 1,885 |
| CDV*400BM6 | 6B5406PH | 40 | 1-1/8 | 2-1/8 | 188 | 85 | 281 | 2,440 |
| CDV*500BM6 | 6B6462PH | 50 | 1-1/8 | 2-1/8 | 188 | 85 | 281 | 2,835 |
| CDV*130BL6 | 4B2707PL | 13 | 7/8 | 1-5/8 | 81 | 37 | 144 | 1,590 |
| CDV*150BL6 | 4B3139PL | 15 | 7/8 | 1-5/8 | 81 | 37 | 144 | 1,800 |
| CDV*200BL6 | 4B3604PL | 20 | 7/8 | 2-1/8 | 81 | 37 | 144 | 1,870 |
| CDV*220BL6 | 6B4060PL | 22 | 7/8 | 2-1/8 | 123 | 56 | 171 | 2,075 |
| CDV*250BL6 | 6B4709PL | 25 | 1-1/8 | 2-1/8 | 123 | 56 | 171 | 2,170 |
| CDV*300BL6 | 6B5406PL | 30 | 1-1/8 | 2-1/8 | 123 | 56 | 171 | 2,180 |
| CDV*400BL6 | 6B6462PL | 40 | 1-1/8 | 2-1/8 | 188 | 85 | 226 | 1,920 |

CDV* = CDVS is Beacon II™

Single Vertical Air Discharge Condensing Unit

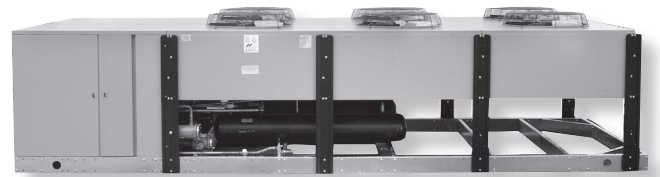
Dimensions (Inches)



Vertical Air Discharge Condensing Units 26 to 100 HP Dual Compressor

Standard and Optional Features

- Designed for use with R-404A/507
- Bitzer compressors with POE oil
- Thermally protected permanently lubricated ball bearing condenser fan motors
- Electrical controls, including compressor contactor and optional defrost control, are located in easily accessible control box with a hinged cover
- Receivers are sized for sufficient pumpdown capacity with inlet and outlet service valves
- Cabinet is constructed from prepainted galvanized steel
- Convenient access panels for easy servicing to internal components
- Suction and discharge vibration eliminators
- Separate subcooling circuit in condensers for added capacity and vapor-free liquid
- Sealed liquid line filter drier and sight glass
- Service Mate™ module to assist troubleshooting
- Floating Tube™ coil design
- Prebent copper tubes minimize welded joints on internal piping
- Adjustable head pressure control valves



Factory-Installed Options

- Replaceable core liquid line filter driers with sight glasses
- Liquid line solenoid valves
- Suction filters
- Replaceable core suction filters
- Suction accumulators
- Oil separators with discharge line check valves
- Air defrost timers
- Electric defrost kits, including timer, evaporator fan contactor with fusing, defrost heater contactor(s), lockout relay and terminal strip
- Low ambient kits with heated and insulated receiver with time delay
- Compressor unloading
- External discharge line mufflers
- Phase-loss protection
- Manual-reset high pressure switches
- Anti-short cycling timers
- Compressor circuit breakers
- Condenser fan cycling (standard on CDDS)
- Three way heat reclaim valve with mounted check valves
- Coated condenser coils for protection against corrosion in harsh environments
- Beacon II™ compatible

Additional Standard Features for Parallel Piped Units

1. Replaceable core liquid line filter drier
2. Replaceable core suction filter
3. Suction accumulator
4. Oil management system
5. Contact Factory for Beacon II™ Application

| Nomenclature | | | | | | |
|---------------------------|-----|---|---|---------------------------------|----------------------|--|
| C | D | D | 000B | L | 6 | C |
| Brand | | Airflow | Horsepower | Temp. Range | Refrigerant | Voltage |
| C = Climate Control | D - | D = Vertical DS = Vertical Beacon II™ | 260B - 26 300B - 30 400B - 40 440B - 44 500B - 50 600B - 60 660B - 66 700B - 70 800B - 80 110B - 100 | M = Med. Temp. L = Low Temp. | 6 = R-404A, R-507 | C = 208-230/3/60 D = 460/3/60 E = 575/3/60 |

Performance Data

Medium Temperature – R-404A/R-507

| Unit Model Number | Compressor Model (2 Each) | Suction Temp. °F | 90°F Amb. | 95°F Amb. | 100°F Amb. | 110°F Amb. |
|-------------------|---------------------------|------------------|-----------|-----------|------------|------------|
| CDD*300BM6 | 4C2067PH | 40 | 394250 | 376590 | 357490 | 324040 |
| | | 30 | 331570 | 314800 | 300810 | 269290 |
| | | 25 | 301290 | 286220 | 265290 | 243760 |
| | | 20 | 272450 | 258760 | 246010 | 219040 |
| | | 15 | 245360 | 233090 | 220890 | 196340 |
| | | 5 | 197580 | 187090 | 176140 | 155170 |
| CDD*400BM6 | 4C2397PH | 40 | 460920 | 439520 | 419910 | 382760 |
| | | 30 | 384140 | 366730 | 351180 | 315740 |
| | | 25 | 348820 | 332640 | 316500 | 284830 |
| | | 20 | 314800 | 299990 | 284950 | 255530 |
| | | 15 | 283620 | 269620 | 255760 | 227790 |
| | | 5 | 227670 | 215570 | 203590 | 178780 |
| CDD*440BM6 | 4B2707PH | 40 | 508400 | 488080 | 465770 | 427590 |
| | | 30 | 425210 | 409390 | 390720 | 355770 |
| | | 25 | 387920 | 370550 | 354660 | 322580 |
| | | 20 | 350670 | 335640 | 320780 | 290970 |
| | | 15 | 315710 | 301920 | 288130 | 260680 |
| | | 5 | 254190 | 242630 | 231170 | 207540 |
| CDD*500BM6 | 4B3139PH | 40 | 582960 | 559640 | 536530 | 487960 |
| | | 30 | 490520 | 468920 | 450170 | 408790 |
| | | 25 | 444900 | 427310 | 407850 | 370800 |
| | | 20 | 403020 | 386290 | 369000 | 334690 |
| | | 15 | 363660 | 347710 | 331970 | 300180 |
| | | 5 | 293650 | 280140 | 266760 | 239150 |
| CDD*600BM6 | 4B3604PH | 40 | 678820 | 649850 | 622730 | 571310 |
| | | 30 | 569890 | 546290 | 523150 | 476730 |
| | | 25 | 518410 | 496570 | 475180 | 431820 |
| | | 20 | 470170 | 450090 | 429890 | 389600 |
| | | 15 | 423920 | 405270 | 386590 | 349370 |
| | | 5 | 342580 | 326630 | 310890 | 278110 |
| CDD*660BM6 | 6B4060PH | 40 | 770100 | 736570 | 705660 | 647170 |
| | | 30 | 643130 | 616390 | 592210 | 537790 |
| | | 25 | 585850 | 559580 | 535230 | 486380 |
| | | 20 | 527550 | 505170 | 482450 | 437980 |
| | | 15 | 475270 | 454380 | 433450 | 391700 |
| | | 5 | 381390 | 363990 | 346540 | 310500 |
| CDD*700BM6 | 6B4709PH | 40 | 877570 | 842230 | 803550 | 736830 |
| | | 30 | 738320 | 707760 | 677170 | 614200 |
| | | 25 | 671500 | 643050 | 613220 | 557150 |
| | | 20 | 606520 | 581300 | 555030 | 502940 |
| | | 15 | 547270 | 523130 | 498990 | 451000 |
| | | 5 | 441480 | 421160 | 400990 | 359560 |
| CDD*800BM6 | 6B5406PH | 40 | 1011680 | 967490 | 926490 | 848530 |
| | | 30 | 851260 | 817760 | 782360 | 710240 |
| | | 25 | 777050 | 742220 | 709980 | 645990 |
| | | 20 | 704020 | 673510 | 643140 | 582780 |
| | | 15 | 635050 | 607050 | 579050 | 523390 |
| | | 5 | 513760 | 490320 | 466700 | 418470 |
| CDD*110BM6 | 6B6462PH | 40 | 1184730 | 1135930 | 1087530 | 988100 |
| | | 30 | 1002230 | 959810 | 917380 | 831800 |
| | | 25 | 914120 | 874560 | 835020 | 756870 |
| | | 20 | 829690 | 793020 | 756310 | 683550 |
| | | 15 | 750050 | 715930 | 682090 | 614590 |
| | | 5 | 609230 | 580370 | 551560 | 492720 |

CDD* = CDDs is Beacon II", CDD*PP is Parallel Piped

Dual Vertical Air Discharge Condensing Unit

Performance Data

Low Temperature – R-404A/R-507

| Unit Model Number | Compressor Model (2 Each) | Suction Temp. °F | 90°F Amb. | 95°F Amb. | 100°F Amb. | 110°F Amb. |
|-------------------|---------------------------|------------------|-----------|-----------|------------|------------|
| CDD*260BL6 | 4B2707PL | 0 | 211930 | 201760 | 191580 | 171630 |
| | | -10 | 163290 | 154600 | 145970 | 129850 |
| | | -15 | 141770 | 133760 | 125810 | 110740 |
| | | -20 | 122620 | 115230 | 107910 | 93530 |
| | | -30 | 93600 | 87260 | 80840 | 67290 |
| | | -40 | 79760 | 74510 | 68840 | 58200 |
| CDD*300BL6 | 4B3139PL | 0 | 246490 | 234490 | 222550 | 199500 |
| | | -10 | 191890 | 181480 | 170990 | 151890 |
| | | -15 | 167610 | 157870 | 148240 | 129860 |
| | | -20 | 146060 | 137070 | 129950 | 110220 |
| | | -30 | 113170 | 105150 | 97030 | 80094 |
| | | -40 | 97500 | 90590 | 83510 | 68990 |
| CDD*400BL6 | 4B3604PL | 0 | 282080 | 267830 | 253710 | 225910 |
| | | -10 | 220240 | 208090 | 195590 | 173620 |
| | | -15 | 192520 | 181280 | 170180 | 148940 |
| | | -20 | 167720 | 157420 | 146990 | 126740 |
| | | -30 | 129340 | 120290 | 111160 | 92150 |
| | | -40 | 110090 | 102350 | 94480 | 78130 |
| CDD*440BL6 | 6B4060PL | 0 | 312650 | 297970 | 283180 | 254650 |
| | | -10 | 241300 | 228460 | 215670 | 192460 |
| | | -15 | 209620 | 197730 | 185940 | 163780 |
| | | -20 | 181550 | 170680 | 159580 | 138390 |
| | | -30 | 139100 | 129450 | 119730 | 99570 |
| | | -40 | 118940 | 110850 | 102700 | 86450 |
| CDD*500BL6 | 6B4709PL | 0 | 369030 | 350950 | 332610 | 297490 |
| | | -10 | 285580 | 270240 | 254860 | 226690 |
| | | -15 | 248670 | 234530 | 220520 | 193970 |
| | | -20 | 215850 | 203020 | 189890 | 164690 |
| | | -30 | 166080 | 154850 | 143530 | 119770 |
| | | -40 | 142280 | 132800 | 123120 | 103500 |
| CDD*600BL6 | 6B5406PL | 0 | 408320 | 388960 | 380130 | 331580 |
| | | -10 | 317410 | 300490 | 283720 | 253140 |
| | | -15 | 276770 | 261100 | 245600 | 216170 |
| | | -20 | 240670 | 226200 | 211500 | 183350 |
| | | -30 | 185790 | 172800 | 159650 | 132760 |
| | | -40 | 160100 | 148770 | 137310 | 112380 |
| CDD*800BL6 | 6B6462PL | 0 | 490250 | 465930 | 441340 | 393670 |
| | | -10 | 378890 | 357700 | 336520 | 297450 |
| | | -15 | 329420 | 309630 | 289900 | 252840 |
| | | -20 | 285380 | 267080 | 248530 | 212800 |
| | | -30 | 218130 | 201830 | 185220 | 149700 |
| | | -40 | 186770 | 172630 | 158260 | 127820 |

CDD* = CDDS is Beacon II™, CDD*PP is Parallel Piped

Electrical Data

Medium & Low Temperature – R-404A/507

| Unit Model Number | Compressor Model (2 Each) | Compressor | | Condenser Fan Motors | | Beacon II™ or Air Defrost | | Remote Loads ‡ | | | | | | | |
|----------------------|---------------------------|------------|-----|----------------------|------|---------------------------|-------|--|----------------------|-------------|--------------|--|--|--|--|
| | | RLA | LRA | Qty. | FLA | MCA† | MOP†† | Electric Defrost | | | | | | | |
| | | | | | | | | Evap. Fan Amps | Defrost Heaters Amps | System MCA† | System MOP†† | | | | |
| 208-230 Volts | | | | | | | | | | | | | | | |
| CDD*300BM6 | 4C2067PH | 48.7 | 294 | 4 | 19.2 | 128.8 | 175 | CONTACT FACTORY FOR SYSTEM ELECTRICAL RATINGS | | | | | | | |
| CDD*400BM6 | 4C2397PH | 57.7 | 352 | 4 | 28.0 | 157.8 | 200 | | | | | | | | |
| CDD*440BM6 | 4B2707PH | 61.5 | 352 | 4 | 28.0 | 166.4 | 225 | | | | | | | | |
| CDD*500BM6 | 4B3139PH | 75.6 | 436 | 4 | 28.0 | 198.1 | 250 | | | | | | | | |
| CDD*600BM6 | 4B3604PH | 89.7 | 490 | 6 | 42.0 | 243.8 | 325 | | | | | | | | |
| CDD*660BM6 | 6B4060PH | 100.0 | 550 | 6 | 42.0 | 267.0 | 350 | | | | | | | | |
| CDD*700BM6 | 6B4709PH | 105.1 | 550 | 6 | 42.0 | 278.5 | 350 | | | | | | | | |
| CDD*800BM6 | 6B5406PH | 141.0 | 700 | 8 | 56.0 | 373.3 | 500 | | | | | | | | |
| CDD*110BM6 | 6B6462PH | 143.6 | 950 | 8 | 56.0 | 379.1 | 500 | | | | | | | | |
| CDD*260BL6 | 4B2707PL | 43.6 | 294 | 4 | 19.2 | 117.3 | 150 | | | | | | | | |
| CDD*300BL6 | 4B3139PL | 46.2 | 294 | 4 | 19.2 | 123.2 | 150 | | | | | | | | |
| CDD*400BL6 | 4B3604PL | 57.7 | 352 | 4 | 19.2 | 149.0 | 200 | | | | | | | | |
| CDD*440BL6 | 6B4060PL | 65.4 | 436 | 4 | 28.0 | 175.2 | 225 | | | | | | | | |
| CDD*500BL6 | 6B4709PL | 69.2 | 436 | 4 | 28.0 | 183.7 | 250 | | | | | | | | |
| CDD*600BL6 | 6B5406PL | 84.6 | 490 | 4 | 28.0 | 218.4 | 300 | | | | | | | | |
| CDD*800BL6 | 6B6462PL | 97.4 | 700 | 6 | 42.0 | 261.2 | 350 | | | | | | | | |
| 460 Volts | | | | | | | | | | | | | | | |
| CDD*300BM6 | 4C2067PH | 24.4 | 147 | 4 | 9.6 | 64.5 | 80 | | | | | CONTACT FACTORY FOR SYSTEM ELECTRICAL RATINGS | | | |
| CDD*400BM6 | 4C2397PH | 28.8 | 176 | 4 | 14.0 | 78.8 | 100 | | | | | | | | |
| CDD*440BM6 | 4B2707PH | 30.8 | 176 | 4 | 14.0 | 83.3 | 110 | | | | | | | | |
| CDD*500BM6 | 4B3139PH | 37.8 | 218 | 4 | 14.0 | 99.1 | 125 | | | | | | | | |
| CDD*600BM6 | 4B3604PH | 44.9 | 245 | 6 | 21.0 | 122.0 | 150 | | | | | | | | |
| CDD*660BM6 | 6B4060PH | 50.0 | 275 | 6 | 21.0 | 133.5 | 175 | | | | | | | | |
| CDD*700BM6 | 6B4709PH | 52.6 | 275 | 6 | 21.0 | 139.4 | 175 | | | | | | | | |
| CDD*800BM6 | 6B5406PH | 70.5 | 350 | 8 | 28.0 | 186.6 | 250 | | | | | | | | |
| CDD*110BM6 | 6B6462PH | 71.8 | 425 | 8 | 28.0 | 189.6 | 250 | | | | | | | | |
| CDD*260BL6 | 4B2707PL | 21.8 | 147 | 4 | 9.6 | 58.7 | 80 | | | | | | | | |
| CDD*300BL6 | 4B3139PL | 23.1 | 147 | 4 | 9.6 | 61.6 | 80 | | | | | | | | |
| CDD*400BL6 | 4B3604PL | 28.8 | 176 | 4 | 9.6 | 74.4 | 100 | | | | | | | | |
| CDD*440BL6 | 6B4060PL | 32.7 | 218 | 4 | 14.0 | 87.6 | 110 | | | | | | | | |
| CDD*500BL6 | 6B4709PL | 34.6 | 218 | 4 | 14.0 | 91.9 | 125 | | | | | | | | |
| CDD*600BL6 | 6B5406PL | 42.3 | 245 | 4 | 14.0 | 109.2 | 150 | | | | | | | | |
| CDD*800BL6 | 6B6462PL | 48.7 | 350 | 6 | 21.0 | 130.6 | 175 | | | | | | | | |
| 575 Volts | | | | | | | | | | | | | | | |
| CDD*300BM6 | 4C2067PH | 19.6 | 117 | 4 | 9.2 | 53.3 | 70 | CONTACT FACTORY FOR SYSTEM ELECTRICAL RATINGS | | | | | | | |
| CDD*400BM6 | 4C2397PH | 23.6 | 140 | 4 | 11.2 | 64.3 | 80 | | | | | | | | |
| CDD*440BM6 | 4B2707PH | 24.4 | 140 | 4 | 11.2 | 66.1 | 90 | | | | | | | | |
| CDD*500BM6 | 4B3139PH | 30.1 | 165 | 4 | 11.2 | 78.9 | 100 | | | | | | | | |
| CDD*600BM6 | 4B3604PH | 35.9 | 196 | 6 | 16.8 | 97.6 | 125 | | | | | | | | |
| CDD*660BM6 | 6B4060PH | 39.7 | 220 | 6 | 16.8 | 106.1 | 125 | | | | | | | | |
| CDD*700BM6 | 6B4709PH | 41.7 | 220 | 6 | 16.8 | 110.6 | 150 | | | | | | | | |
| CDD*800BM6 | 6B5406PH | 56.4 | 280 | 8 | 22.4 | 149.3 | 200 | | | | | | | | |
| CDD*110BM6 | 6B6462PH | 57.1 | 340 | 8 | 22.4 | 150.9 | 200 | | | | | | | | |
| CDD*260BL6 | 4B2707PL | 17.3 | 117 | 4 | 9.2 | 48.1 | 60 | | | | | | | | |
| CDD*300BL6 | 4B3139PL | 18.6 | 117 | 4 | 9.2 | 51.1 | 70 | | | | | | | | |
| CDD*400BL6 | 4B3604PL | 23.1 | 140 | 4 | 9.2 | 61.2 | 80 | | | | | | | | |
| CDD*440BL6 | 6B4060PL | 26.3 | 174 | 4 | 11.2 | 70.4 | 90 | | | | | | | | |
| CDD*500BL6 | 6B4709PL | 27.6 | 174 | 4 | 11.2 | 73.3 | 100 | | | | | | | | |
| CDD*600BL6 | 6B5406PL | 33.3 | 196 | 4 | 11.2 | 86.1 | 110 | | | | | | | | |
| CDD*800BL6 | 6B6462PL | 39.1 | 280 | 6 | 16.8 | 104.8 | 125 | | | | | | | | |

CDD* = CDDS is Beacon II™, CDD*PP is Parallel Piped

† MCA = Minimum Circuit Ampacity

†† MOP = Maximum Overcurrent Protection

‡ Condensing unit data plate ratings will be based on actual system match.

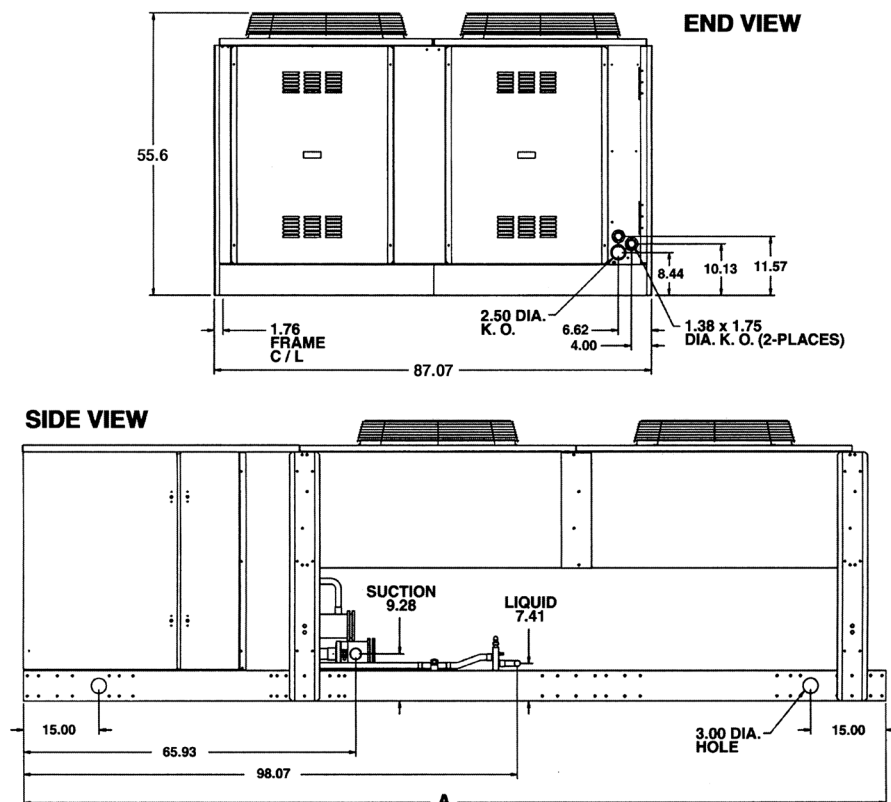
Specifications and Dimensional Data

Medium & Low Temperature – R-404A/R-507

| Unit Model Number | Compressor Model (2 Each) | HP | Connections (in.c) | | | | Standard Receiver Capacity @ 90% full (lbs.) (2 each) | | Parallel Piped Receiver Capacity @ 90% full (lbs.) | | Dimensions (inches) | Approx. Net Wt (lbs.) |
|-------------------|---------------------------|-----|--------------------|---------|----------------|---------|---|----|--|-----|---------------------|-----------------------|
| | | | Standard (2 each) | | Parallel Piped | | LBS | KG | LBS | KG | Length (A) | |
| | | | Liquid | Suction | Liquid | Suction | | | | | | |
| CDD*300BM6 | 4C2067PH | 30 | 7/8 | 1-5/8 | 1-1/8 | 2-1/8 | 123 | 56 | 188 | 85 | 144 | 2,805 |
| CDD*400BM6 | 4C2397PH | 40 | 7/8 | 1-5/8 | 1-1/8 | 2-1/8 | 123 | 56 | 188 | 85 | 171 | 3,250 |
| CDD*440BM6 | 4B2707PH | 44 | 1-1/8 | 2-1/8 | 1-1/8 | 2-1/8 | 123 | 56 | 269 | 122 | 171 | 3,380 |
| CDD*500BM6 | 4B3139PH | 50 | 1-1/8 | 2-1/8 | 1-3/8 | 2-5/8 | 123 | 56 | 269 | 122 | 171 | 3,875 |
| CDD*600BM6 | 4B3604PH | 60 | 1-1/8 | 2-1/8 | 1-3/8 | 2-5/8 | 188 | 85 | 269 | 122 | 226 | 3,225 |
| CDD*660BM6 | 6B4060PH | 66 | 1-1/8 | 2-1/8 | 1-3/8 | 2-5/8 | 188 | 85 | 269 | 122 | 226 | 3,570 |
| CDD*700BM6 | 6B4709PH | 70 | 1-1/8 | 2-1/8 | 1-5/8 | 3-1/8 | 188 | 85 | 363 | 165 | 226 | 3,770 |
| CDD*800BM6 | 6B5406PH | 80 | 1-1/8 | 2-1/8 | 1-5/8 | 3-1/8 | 188 | 85 | 363 | 165 | 281 | 4,880 |
| CDD*110BM6 | 6B6462PH | 100 | 1-1/8 | 2-1/8 | 1-5/8 | 3-1/8 | 188 | 85 | 363 | 165 | 281 | 5,670 |
| CDD*260BL6 | 4B2707PL | 26 | 7/8 | 1-5/8 | 1-1/8 | 2-1/8 | 81 | 37 | 188 | 85 | 144 | 3,175 |
| CDD*300BL6 | 4B3139PL | 30 | 7/8 | 1-5/8 | 1-1/8 | 2-5/8 | 81 | 37 | 188 | 85 | 144 | 3,605 |
| CDD*400BL6 | 4B3604PL | 40 | 7/8 | 2-1/8 | 1-1/8 | 2-5/8 | 81 | 37 | 188 | 85 | 144 | 3,735 |
| CDD*440BL6 | 6B4060PL | 44 | 7/8 | 2-1/8 | 1-3/8 | 3-1/8 | 123 | 56 | 269 | 122 | 171 | 4,145 |
| CDD*500BL6 | 6B4709PL | 50 | 1-1/8 | 2-1/8 | 1-3/8 | 3-1/8 | 123 | 56 | 269 | 122 | 171 | 4,240 |
| CDD*600BL6 | 6B5406PL | 60 | 1-1/8 | 2-1/8 | 1-3/8 | 3-1/8 | 123 | 56 | 269 | 122 | 171 | 4,355 |
| CDD*800BL6 | 6B6462PL | 80 | 1-1/8 | 2-1/8 | 1-3/8 | 3-1/8 | 188 | 85 | 363 | 165 | 226 | 3,835 |

CDD* = CDD is Beacon II™, CDD*PP is Parallel Piped

Dimensions (Inches)



Dual Vertical Air Discharge Condensing Unit

Notes

For more information on Climate Control products,
contact your Climate Control Sales Representative or
visit us at www.coldyoucancounton.com



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