

# Vertical Air Discharge Condensing Unit

Technical Guide

*LDV & LDD Models: Sizes 1200 to 8000*



# Table of Contents

Floating Tube™ Coil Design.....	3
Beacon II™ .....	4
Resource II.....	5-6

## Vertical Air Discharge Condensing Units 12 to 40 HP, Single Compressor

Standard and Optional Features.....	7
Nomenclature.....	7
Electrical Box Features / Internal Piping.....	8

### Performance Data

High Temp. / Medium Temperature.....	9-10
Commercial Temperature.....	10
Low Temperature.....	11
High Temp., High Efficiency.....	12
Commercial Temp., High Efficiency.....	13
Low Temp., High Efficiency.....	13

### Specifications

Standard Models.....	14
High Efficiency Models.....	15

### Dimensional Data

LDV, LDVS.....	14-15
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### Electrical Data

Standard Models.....	16-17
High Efficiency Models.....	18-19

## Vertical Air Discharge Condensing Units 24 to 80 HP, Dual Compressor

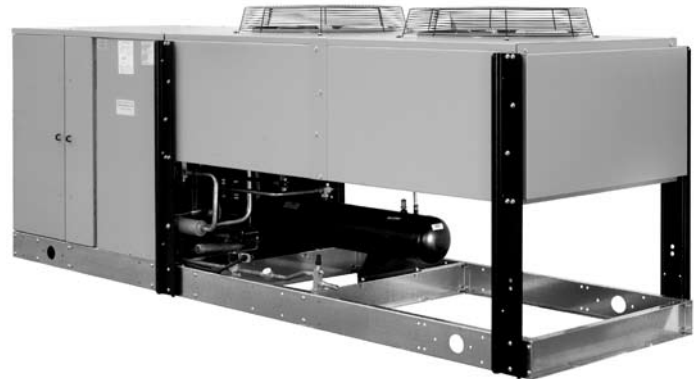
Design Features.....	20
Standard and Optional Features.....	21
Nomenclature.....	21
Electrical Box Features / Internal Piping.....	22

Performance Data.....	23
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### Specifications and Dimensional Data

LDD, LDDS.....	24
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Electrical Data.....	25-26
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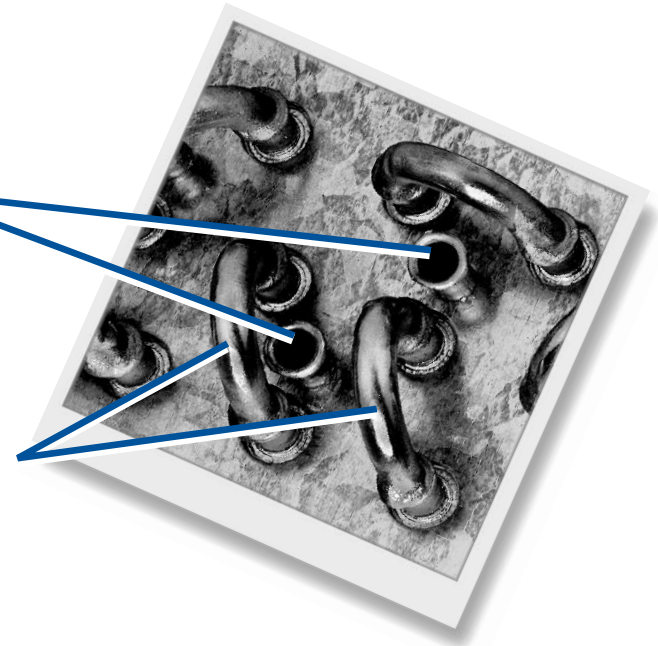
## The Single And Dual Compressor Vertical Air Discharge Condensing Units Features The Floating Tube™ Coil Design

### 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 LDV, LDD 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.

**Beacon II™ Refrigeration System** is a patented pre-assembled, factory installed refrigeration system featuring an integrated microcomputer-based electronic control board. Beacon II™ offers:

- Complete factory installation, wiring and testing which saves time and money
- Simplified field electrical connections and 24 volt wiring between condensing and evaporator coil
- Preset factory superheat allowing the system to run more efficiently and reducing future adjustments
- Monitors and controls box temperature, evaporator superheat, system status and defrost
- Monitor and make system changes remotely via modem and exclusive Beacon II™ Smart II software with Smart Controller
- Data logging capabilities with 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. Beacon II™ Smart Controller also allows you to monitor and make changes to the refrigeration system via modem connection from anywhere in the world. One Smart Controller can program and control up to four condensing units with up to four evaporators on each system. That's more control in your hands!



The patented **Beacon II™ Smart Defrost** system, available with Smart Controllers is uniquely designed to predict frost accumulation and initiates defrosts only when they are needed. It also initiates defrosts to react to operation anomalies, like product deliveries and product pull-down. Typical electric defrost systems have 4 defrosts per day. Using the Smart Defrost system can reduce the number of defrosts to 0, 1, or 2 per day. That's a 75% reduction on average. This greatly reduces the amount of energy used and in turn reduces operating costs.



**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.



## The Need For 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 LDV & LDD units have an adjustable Resource II method of head pressure control.

**Resource II** is Larkin's most energy efficient low ambient head pressure control. This system provides year round control of refrigerant head pressure without the use of special refrigerant expansion valves.

**Resource II** combines the benefits of refrigerant subcooling and reduced discharged pressure during mild ambient conditions. 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. Resource II 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 a 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

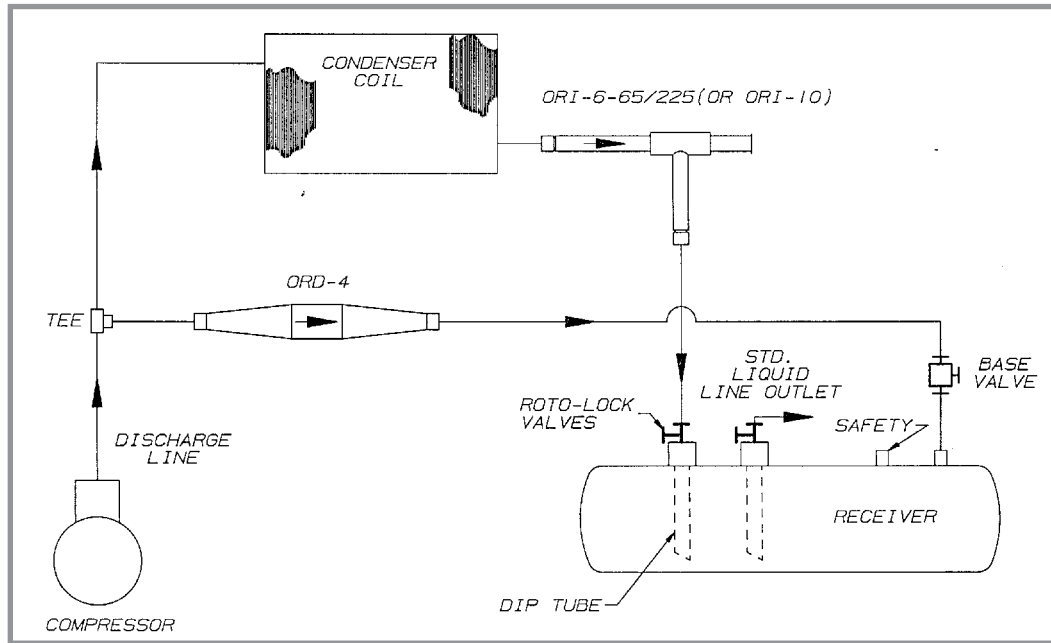
## Operation

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.

Both the inlet and outlet tubes of the receiver have dip tubes which are immersed in liquid refrigerant. The liquid in the receiver acts as an insulator from the vapor area of the receiver. This unique design minimizes the contact of the hot gas used to pressurize the receiver through the ORD-4 valve. This allows bypass vapor to pressurize the receiver while reheat of the subcooled liquid is minimized.

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

## Resource II Piping Schematic



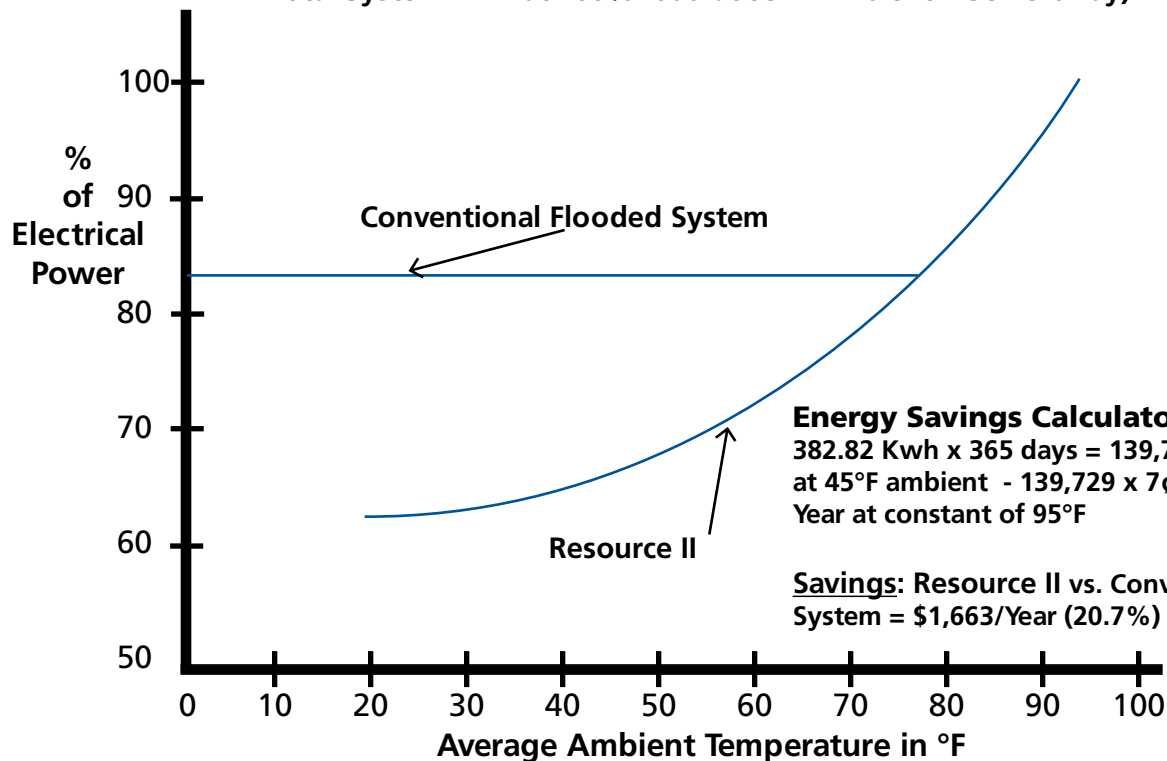
## Resource II

### Energy Savings Calculation

(LDV 2200L6 with ELT6-985 at -10°F Room Temp.

7.5 T.D. - 18 Hours Run/Day

Total System Kwh at 100% load at 95°F Ambient = 382.82/Day)



# Single Vertical Air Discharge Condensing Unit

The LDV series utilizes the base air cooled condenser design in the RC6/RC8 series of condensers. By borrowing the design of the thoroughly tested, Floating Tube™ coil design condensers a great deal of design integrity is immediately incorporated into this series of units. The product is designed not only to give outstanding operational performance with today's HFC and HCFC refrigerants, but it is also designed to be easily transported and rigged into position. And most importantly, the LDV is designed utilizing input from service contractors, the result being a product which can be installed and maintained without many of the hassles involved in older product designs.

The design utilizes many features which are incorporated to provide a reliable product.

- All common serviceable controls (pressure controls/time clocks etc.) are located in a separate electrical compartment from the main electrical box. This allows ease of service without disconnecting power to the unit
- A generous amount of clearance has been designed under the condenser section of the unit. Coil cleaning and component service are made easy
- 3/8 inch condenser coils (except 3501 & 4001) provide efficient performance with minimal pressure drop and refrigerant charge
- The LDV series of units is configured such that a minimal number of standard components are pre-configured into the base design. This allows for customization of a particular unit to suit the needs of the application
- LDV models are also available with oversized condensers. These units provide increased efficiency with lowered head pressures and condensing temperatures
- The Floating Tube™ coil design. Refrigerant-carrying copper tubes do not contact any metal support tubes; 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
- All sweat type connections, no flare joints to leak
- Fixed high pressure switch eliminates capillary tube
- Designed for use with R-404A, R-507, or R-22
- Polyol ester oil charge on all units
- Pre-Bent copper tubes minimize welded joints on internal piping
- Sentronic™ oil safety control

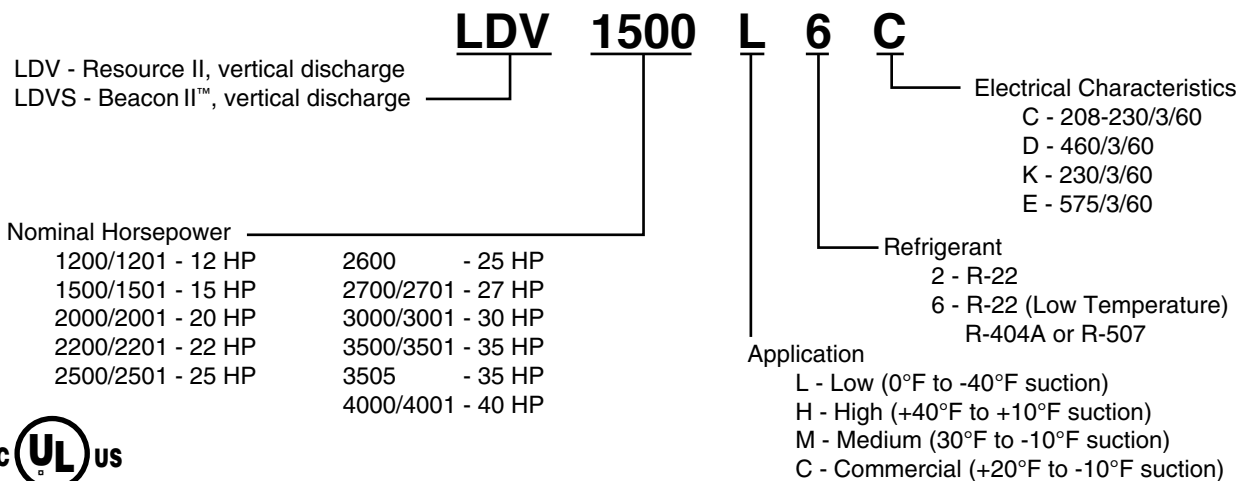
## Standard Features

- High efficiency Copeland Discus® compressors with POE oil
- Thermally protected, permanently lubricated ball bearing condenser fan motor(s)
- 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
- 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
- Cabinet is constructed from prepainted galvanized steel
- Convenient access panels for easy servicing to internal components
- Suction and discharge vibration eliminators
- Resource II head pressure control

## Factory-Installed Optional Features

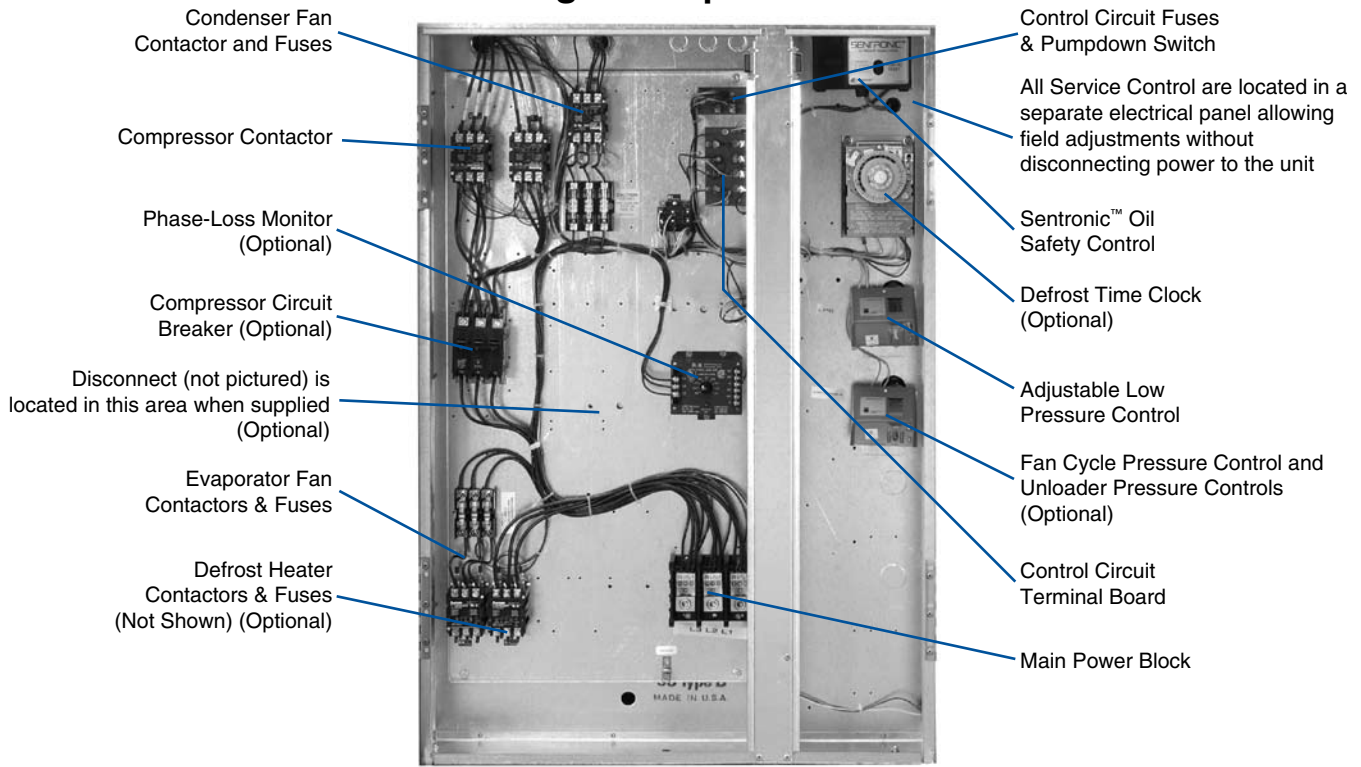
- Replaceable core liquid filter drier
- Liquid line solenoid valve
- Suction filter
- Replaceable core suction filter
- Suction accumulator
- Oil separator with discharge line check valve
- Air defrost timer
- Electric defrost kits, including timer, evaporative fan controller with fusing, defrost heater contactor(s), lockout relay and terminal strip
- Fused disconnect switch
- Non-fused disconnect switch
- Demand cooling for low temperature R-22
- Coated condenser coils for protection against corrosion in harsh environments
- Insulated receiver low ambient kit
- Beacon II™ compatible

## Nomenclature

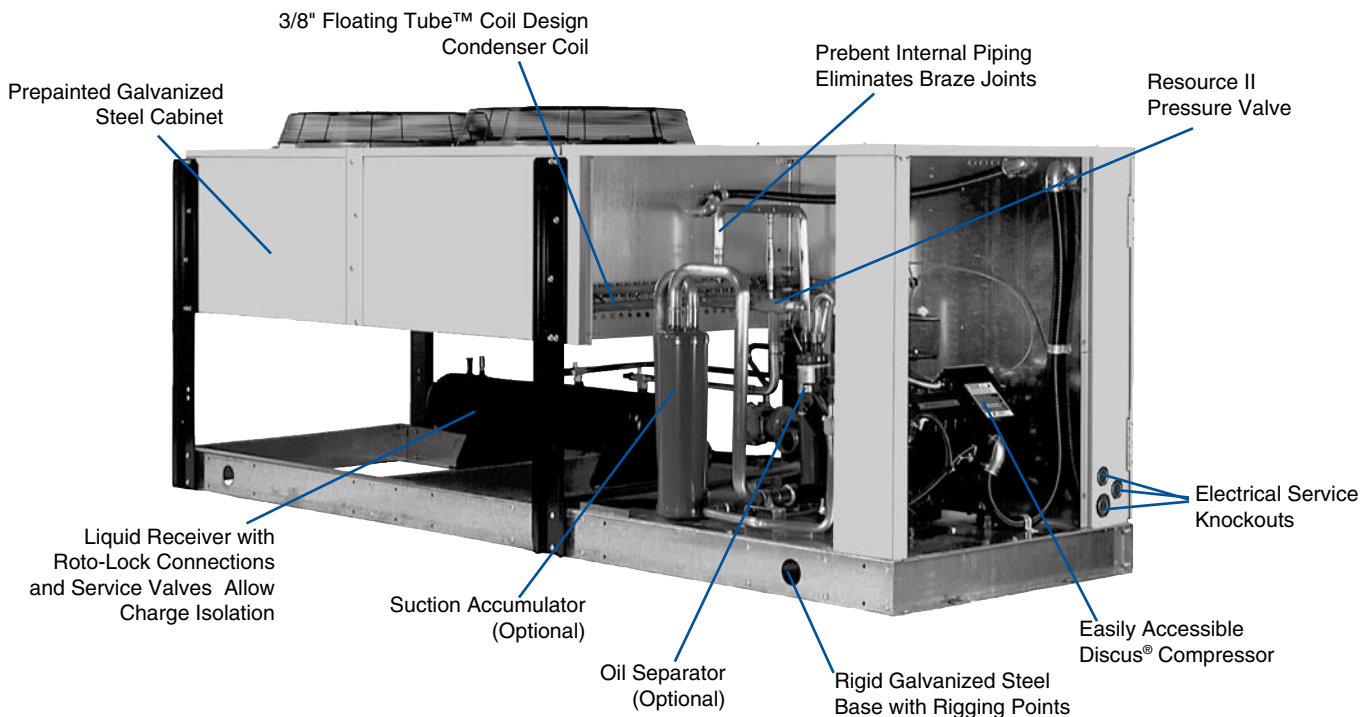


# Electrical Box Features/Internal Piping

## Single Compressor



## Internal Piping





## High Temperature Models - R-22

R-22 Model	Ambient °F / °C		Evaporator Temperature °F / °C											
			40°F / 4.4°C BTUH KCAL/H		35°F / -1.7°C BTUH KCAL/H		30°F / -1.1°C BTUH KCAL/H		25°F / -3.9°C BTUH KCAL/H		20°F / -6.7°C BTUH KCAL/H		15°F / -9.4°C BTUH KCAL/H	
LDV1500H2	90	32	181,800	45,817	166,300	41,910	151,900	38,281	138,000	34,778	124,500	31,376	111,700	28,148
	95	35	175,500	44,229	160,900	40,549	147,000	37,046	133,500	33,644	120,400	30,343	107,900	27,193
	100	38	169,700	42,767	155,800	39,264	142,100	35,811	129,000	32,510	116,200	29,284	104,100	26,235
	110	43	158,400	39,919	145,500	36,668	132,300	33,342	119,900	30,217	107,900	27,193	96,500	24,320
LDV2500H2	90	32	N/A	N/A	N/A	N/A	N/A	N/A	189,200	47,681	170,700	43,019	152,600	38,458
	95	35	N/A	N/A	N/A	N/A	N/A	N/A	182,900	46,094	164,800	41,532	147,200	37,097
	100	38	N/A	N/A	N/A	N/A	N/A	N/A	176,500	44,481	158,900	40,045	141,800	35,736
	110	43	N/A	N/A	N/A	N/A	N/A	N/A	163,800	41,280	147,100	37,072	130,800	32,964
LDV2600H2	90	32	252,600	63,659	232,600	58,619	212,700	53,604	193,100	48,664	174,000	43,851	155,400	39,163
	95	35	244,900	61,719	225,300	56,779	205,900	51,890	186,800	47,077	168,100	42,364	149,900	37,777
	100	38	237,100	59,753	218,000	54,940	199,100	50,176	180,400	45,464	162,200	40,877	144,400	36,391
	110	43	221,600	55,847	203,100	51,184	185,300	46,699	167,600	42,238	150,300	37,878	133,400	33,619
LDV3000H2	90	32	299,500	75,479	274,500	69,178	251,100	63,281	227,700	57,384	205,300	51,739	183,300	46,195
	95	35	288,900	72,807	265,500	66,910	242,600	61,139	219,900	55,418	198,000	49,899	176,500	44,481
	100	38	279,100	70,338	256,800	64,718	234,700	59,148	212,400	53,528	190,700	48,059	169,700	42,767
	110	43	260,100	65,549	239,200	60,282	217,950	54,927	196,700	49,572	176,000	44,355	155,900	39,289
LDV3500H2	90	32	383,800	96,724	351,000	88,458	320,700	80,822	290,800	73,286	262,100	66,053	235,000	59,224
	95	35	372,100	93,775	340,600	85,837	310,800	78,327	281,600	70,968	253,700	63,936	227,300	57,283
	100	38	359,400	90,575	329,700	83,090	300,800	75,806	272,400	68,649	245,300	61,820	219,600	55,343
	110	43	336,300	84,753	307,900	77,596	280,700	70,741	253,900	63,987	228,300	57,535	204,100	51,436
LDV3505H2	90	32	395,600	99,698	365,000	91,986	334,600	84,325	305,700	77,041	277,500	69,934	250,400	63,105
	95	35	381,700	96,195	353,000	88,962	323,300	81,477	295,400	74,446	267,900	67,515	241,600	60,887
	100	38	369,800	93,196	340,400	85,786	312,100	78,654	285,000	71,825	258,300	65,096	232,800	58,669
	110	43	343,100	86,467	316,100	79,662	290,200	73,135	264,100	66,557	239,100	60,257	215,100	54,209
LDV4000H2	90	32	437,400	110,232	403,500	101,689	369,700	93,170	338,000	85,181	306,900	77,344	277,100	69,834
	95	35	423,200	106,653	389,000	98,034	357,200	90,020	326,300	82,233	296,100	74,622	267,200	67,339
	100	38	407,500	102,697	376,000	94,758	344,600	86,845	314,700	79,309	285,300	71,900	257,200	64,819
	110	43	379,300	95,590	349,100	87,979	320,200	80,696	291,300	73,412	263,700	66,457	237,300	59,803

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

## Medium Temperature Models - R-404A/R-507

R-404A/ R-507 Model	Ambient °F / °C		Evaporator Temperature °F / °C							
			30°F / -1.1°C BTUH KCAL/H		25°F / -3.9°C BTUH KCAL/H		20°F / -6.7°C BTUH KCAL/H		15°F / -9.4°C BTUH KCAL/H	
LDV1500M6	90	32	159,000	40,071	147,700	37,223	135,600	34,173	124,000	31,250
	95	35	152,100	38,332	141,400	35,635	129,900	32,737	118,700	29,914
	100	38	145,200	36,593	135,200	34,073	124,200	31,300	113,500	28,604
	110	43	131,500	33,140	122,400	30,847	112,800	28,427	103,100	25,983
LDV2000M6	90	32	169,300	42,666	155,400	39,163	142,400	35,887	129,200	32,560
	95	35	161,300	40,650	147,800	37,248	135,500	34,148	122,600	30,897
	100	38	153,200	38,609	140,900	35,509	128,500	32,384	116,100	29,259
	110	43	136,500	34,400	125,600	31,653	114,300	28,805	103,200	26,008
LDV2500M6	90	32	N/A	N/A	193,700	48,816	176,900	44,582	161,100	40,600
	95	35	N/A	N/A	185,400	46,724	169,500	42,717	154,000	38,810
	100	38	N/A	N/A	177,100	44,632	161,500	40,701	146,800	36,996
	110	43	N/A	N/A	160,200	40,373	146,100	36,820	132,300	33,342

# Performance Data

## Medium Temperature Models - R-404A/R-507 (continued)

R-404A/ R-507 Model	Ambient °F / °C		Evaporator Temperature °F / °C							
			30°F / -1.1°C BTUH KCAL/H		25°F / -3.9°C BTUH KCAL/H		20°F / -6.7°C BTUH KCAL/H		15°F / -9.4°C BTUH KCAL/H	
LDV2600M6	90	32	216,900	54,662	199,300	50,227	181,900	45,842	165,100	41,608
	95	35	<b>207,900</b>	<b>52,394</b>	<b>190,800</b>	<b>48,085</b>	<b>174,100</b>	<b>43,876</b>	<b>157,900</b>	<b>39,793</b>
	100	38	198,600	50,050	182,400	45,968	166,300	41,910	150,700	37,979
	110	43	180,400	45,464	165,400	41,683	150,700	37,979	136,200	34,325
LDV3000M6	90	32	261,100	65,801	240,800	60,685	220,900	55,670	201,200	50,706
	95	35	<b>250,100</b>	<b>63,029</b>	<b>229,900</b>	<b>57,939</b>	<b>210,900</b>	<b>53,150</b>	<b>191,800</b>	<b>48,337</b>
	100	38	238,400	60,081	219,900	55,418	201,300	50,731	182,600	46,018
	110	43	214,000	53,931	197,800	49,849	181,100	45,640	164,500	41,457
LDV3500M6	90	32	331,000	83,417	306,000	77,117	280,100	70,590	255,500	64,390
	95	35	<b>315,600</b>	<b>79,536</b>	<b>292,600</b>	<b>73,740</b>	<b>268,500</b>	<b>67,666</b>	<b>244,100</b>	<b>61,517</b>
	100	38	300,900	75,832	279,100	70,338	255,600	64,415	232,700	58,644
	110	43	272,100	68,574	252,200	63,558	230,900	58,191	210,000	52,923
LDV4000M6	90	32	381,300	96,094	353,700	89,138	324,700	81,830	296,900	74,824
	95	35	<b>364,900</b>	<b>91,961</b>	<b>338,600</b>	<b>85,333</b>	<b>310,600</b>	<b>78,276</b>	<b>283,900</b>	<b>71,547</b>
	100	38	348,500	87,828	323,400	81,502	296,500	74,723	271,000	68,296
	110	43	316,500	79,763	293,200	73,891	268,600	67,692	244,700	61,668

Note: For 50 cycle capacity, multiple valves by .86

## Commercial Temperature Models - R-404A/R-507

R-404A/ R-507 Model	Ambient °F / °C		Evaporator Temperature °F / °C											
			20°F / -6.7°C BTUH KCAL/H		15°F / -9.4°C BTUH KCAL/H		10°F / -12.2°C BTUH KCAL/H		0°F / -17.8°C BTUH KCAL/H		-5°F / -20.6°C BTUH KCAL/H		-10°F / -23.3°C BTUH KCAL/H	
LDV1500C6	90	32	135,600	34,173	124,000	31,250	114,000	28,730	92,500	23,311	82,500	20,791	73,300	18,473
	95	35	<b>129,900</b>	<b>32,737</b>	<b>118,700</b>	<b>29,914</b>	<b>109,200</b>	<b>27,520</b>	<b>88,500</b>	<b>22,303</b>	<b>78,900</b>	<b>19,884</b>	<b>69,900</b>	<b>17,616</b>
	100	38	124,200	31,300	113,500	28,604	104,500	26,336	84,500	21,295	75,200	18,952	66,500	16,759
	110	43	112,800	28,427	103,100	25,983	95,000	23,942	76,600	19,304	68,100	17,162	60,000	15,121
LDV2000C6	90	32	142,400	35,887	129,200	32,560	117,700	29,662	94,300	23,765	83,700	21,094	74,000	18,649
	95	35	<b>135,500</b>	<b>34,148</b>	<b>122,600</b>	<b>30,897</b>	<b>111,700</b>	<b>28,150</b>	<b>89,200</b>	<b>22,480</b>	<b>79,100</b>	<b>19,934</b>	<b>69,800</b>	<b>17,591</b>
	100	38	128,500	32,384	116,100	29,259	105,700	26,638	84,200	21,220	74,500	18,775	65,600	16,532
	110	43	114,300	28,805	103,200	26,008	93,800	23,639	74,300	18,725	65,500	16,507	57,400	14,466
LDV2500C6	90	32	176,900	44,582	161,100	40,600	147,700	37,223	120,900	30,469	109,400	27,571	99,500	25,076
	95	35	<b>169,500</b>	<b>42,717</b>	<b>154,000</b>	<b>38,810</b>	<b>141,000</b>	<b>35,534</b>	<b>115,200</b>	<b>29,032</b>	<b>104,200</b>	<b>26,260</b>	<b>94,700</b>	<b>23,866</b>
	100	38	161,500	40,701	146,800	36,996	134,200	33,821	109,500	27,596	98,900	24,924	89,900	22,656
	110	43	146,100	36,820	132,300	33,342	121,000	30,494	98,300	24,773	88,700	22,354	80,600	20,313
LDV2600C6	90	32	181,900	45,842	165,100	41,608	153,400	38,659	124,800	31,452	112,600	28,377	102,100	25,731
	95	35	<b>174,100</b>	<b>43,876</b>	<b>157,900</b>	<b>39,793</b>	<b>146,500</b>	<b>36,920</b>	<b>118,900</b>	<b>29,965</b>	<b>107,200</b>	<b>27,016</b>	<b>97,200</b>	<b>24,496</b>
	100	38	166,300	41,910	150,700	37,979	139,600	35,181	113,000	28,478	101,800	25,655	92,200	23,236
	110	43	150,700	37,979	136,200	34,325	125,700	31,678	101,400	25,554	91,100	22,959	82,600	20,817
LDV3000C6	90	32	220,900	55,670	201,200	50,706	183,900	46,346	147,900	37,273	131,400	33,115	116,200	29,284
	95	35	<b>210,900</b>	<b>53,150</b>	<b>191,800</b>	<b>48,337</b>	<b>175,500</b>	<b>44,229</b>	<b>141,100</b>	<b>35,559</b>	<b>125,200</b>	<b>31,552</b>	<b>110,700</b>	<b>27,898</b>
	100	38	201,300	50,731	182,600	46,018	167,200	42,137	134,200	33,821	119,000	29,990	105,200	26,512
	110	43	181,100	45,640	164,500	41,457	150,500	37,928	120,700	30,418	107,000	26,966	94,700	23,866
LDV3500C6	90	32	280,100	70,590	255,500	64,390	234,600	59,123	189,300	47,707	168,500	42,465	149,300	37,626
	95	35	<b>268,500</b>	<b>67,666</b>	<b>244,100</b>	<b>61,517</b>	<b>223,900</b>	<b>56,426</b>	<b>180,300</b>	<b>45,439</b>	<b>160,000</b>	<b>40,323</b>	<b>141,300</b>	<b>35,610</b>
	100	38	255,600	64,415	232,700	58,644	214,600	54,083	171,200	43,145	151,500	38,180	133,400	33,619
	110	43	230,900	58,191	210,000	52,923	192,300	48,463	153,300	38,634	135,000	34,022	117,800	29,688
LDV4000C6	90	32	324,700	81,830	296,900	74,824	273,300	68,876	222,800	56,149	199,700	50,328	178,400	44,960
	95	35	<b>310,600</b>	<b>78,276</b>	<b>283,900</b>	<b>71,547</b>	<b>261,100</b>	<b>65,801</b>	<b>212,500</b>	<b>53,553</b>	<b>190,200</b>	<b>47,933</b>	<b>169,600</b>	<b>42,742</b>
	100	38	296,500	74,723	271,000	68,296	250,500	63,130	202,200	50,958	180,600	45,514	160,900	40,549
	110	43	268,600	67,692	244,700	61,668	224,900	56,678	182,000	45,867	162,300	40,902	144,000	36,290

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

C6 models include head cooling fan

All units will work in 120°F / 48.9°C ambient

Single Vertical Air Discharge Condensing Unit

Low Temperature - R-404A/R-507

R-404A/ R-507 Model	Ambient °F / °C		Evaporator Temperature °F / °C											
			0°F / -17.8°C BTUH KCAL/H		-10°F / -23.3°C BTUH KCAL/H		-15°F / -26.1°C BTUH KCAL/H		-20°F / -28.9°C BTUH KCAL/H		-30°F / -34.4°C BTUH KCAL/H		-40°F / -40°C BTUH KCAL/H	
LDV1200L6	90	32	88,600	22,329	72,800	18,347	65,100	16,406	57,400	14,466	43,900	11,064	32,800	8,266
	95	35	84,000	21,169	69,500	17,515	61,700	15,549	54,800	13,810	41,400	10,433	30,100	7,586
	100	38	79,900	20,136	66,100	16,658	58,600	14,768	51,900	13,080	38,800	9,778	27,500	6,930
	110	43	72,100	18,170	59,100	14,894	52,900	13,332	46,300	11,668	33,700	8,493	22,300	5,620
LDV1500L6	90	32	111,700	28,150	92,400	23,286	83,400	21,018	74,600	18,800	58,200	14,667	44,100	11,114
	95	35	105,300	26,537	88,100	22,203	79,400	20,010	70,900	17,868	55,100	13,886	41,500	10,459
	100	38	100,800	25,403	83,900	21,144	75,500	19,027	67,300	16,961	52,000	13,105	38,700	9,753
	110	43	90,300	22,757	75,400	19,002	67,700	17,061	60,200	15,171	45,800	11,542	33,300	8,392
LDV2200L6	90	32	130,900	32,989	110,300	27,797	99,400	25,050	89,000	22,429	69,400	17,490	51,900	13,080
	95	35	124,000	31,300	104,300	26,285	94,200	23,740	84,200	21,220	65,300	16,457	48,100	12,122
	100	38	117,900	29,713	99,100	24,975	89,000	22,429	79,400	20,010	61,100	15,398	44,300	11,164
	110	43	104,800	26,411	87,500	22,051	79,100	19,934	70,300	17,717	53,000	13,357	36,700	9,249
LDV2700L6	90	32	167,000	42,087	138,300	34,854	123,500	31,124	110,400	27,823	85,000	21,421	63,700	16,053
	95	35	158,100	39,844	130,900	32,989	118,100	29,763	104,800	26,411	80,200	20,212	59,200	14,919
	100	38	150,400	37,903	124,400	31,351	112,100	28,251	99,300	25,025	75,300	18,977	54,700	13,785
	110	43	135,300	34,098	112,300	28,301	100,200	25,252	88,300	22,253	65,700	16,557	45,700	11,517
LDV3000L6	90	32	187,900	47,354	155,600	39,214	139,000	35,030	124,300	31,326	96,000	24,194	72,600	18,296
	95	35	178,900	45,086	147,200	37,097	132,600	33,417	117,700	29,662	90,300	22,757	67,600	17,036
	100	38	169,900	42,818	140,300	35,358	125,600	31,653	111,220	28,024	84,500	21,295	62,200	15,675
	110	43	151,200	38,105	125,200	31,552	111,700	28,150	98,400	24,798	73,200	18,448	51,400	12,954

Notes: For 50 cycle capacity, multiply values by .86  
All units will work in 120°F / 48.9°C ambient

Low Temperature - R-22

R-22 Model	Ambient °F / °C		Evaporator Temperature °F / °C											
			0°F / -17.8°C BTUH KCAL/H		-10°F / -23.3°C BTUH KCAL/H		-15°F / -26.1°C BTUH KCAL/H		-20°F / -28.9°C BTUH KCAL/H		-30°F / -34.4°C BTUH KCAL/H		-40°F / -40°C BTUH KCAL/H	
LDV1200L6	90	32	83,900	21,144	64,700	16,305	56,100	14,138	48,100	12,122	34,300	8,644	23,000	5,796
	95	35	81,900	20,640	62,500	15,751	53,800	13,558	46,100	11,618	31,800	8,014	20,800	5,242
	100	38	79,800	20,111	60,400	15,222	51,700	13,029	43,900	11,064	29,600	7,460	18,600	4,688
	110	43	75,800	19,103	56,200	14,163	47,600	11,996	39,500	9,955	25,300	6,376	12,200	3,075
LDV1500L6	90	32	104,000	26,210	82,900	20,892	73,000	18,397	63,500	16,003	47,300	11,920	33,100	8,342
	95	35	100,100	25,227	79,200	19,960	69,100	17,414	60,300	15,197	43,800	11,038	30,200	7,611
	100	38	96,200	24,244	75,000	18,901	65,500	16,507	56,500	14,239	40,800	10,282	27,300	6,880
	110	43	88,200	22,228	67,700	17,061	58,700	14,793	49,900	12,576	34,300	8,644	21,500	5,418
LDV2200L6	90	32	123,500	31,124	98,200	24,748	86,200	21,724	75,200	18,952	56,000	14,113	40,900	10,307
	95	35	119,100	30,015	93,900	23,664	82,400	20,766	71,600	18,044	52,900	13,332	37,500	9,451
	100	38	114,600	28,881	89,900	22,656	78,600	19,808	68,200	17,188	49,600	12,500	34,500	8,695
	110	43	105,600	26,613	81,900	20,640	71,300	17,969	61,000	15,373	42,900	10,811	28,400	7,157
LDV2700L6	90	32	152,500	38,432	121,300	30,570	107,100	26,991	93,600	23,589	69,800	17,591	49,100	12,374
	95	35	147,000	37,046	116,100	29,259	102,100	25,731	88,800	22,379	64,800	16,331	45,000	11,341
	100	38	141,500	35,660	110,900	27,949	97,100	24,471	84,000	21,169	60,700	15,297	40,800	10,282
	110	43	130,500	32,888	100,900	25,428	87,700	22,102	74,900	18,876	51,700	13,029	32,500	8,191
LDV3000L6	90	32	181,900	45,842	145,400	36,643	127,700	32,182	111,600	28,125	83,400	21,018	60,400	15,222
	95	35	174,700	44,027	138,500	34,904	121,800	30,696	106,100	26,739	78,100	19,682	55,400	13,962
	100	38	167,500	42,213	132,100	33,291	115,900	29,209	101,000	25,454	73,700	18,574	51,100	12,878
	110	43	153,000	38,558	119,900	30,217	104,700	26,386	90,100	22,707	63,900	16,104	42,400	10,685

Notes: For 50 cycle capacity, multiply values by .86  
All units will work in 120°F / 48.9°C ambient  
Demand Cooling option needs to be ordered for Low Temperature R-22 operation

## High Temperature - R-22 - High Efficiency Models With Oversized Condensers

R-22 Model	Ambient °F / °C		Evaporator Temperature °F / °C											
			40°F / 4.4°C		35°F / -1.7°C		30°F / -1.1°C		25°F / -3.9°C		20°F / -6.7°C		15°F / -9.4°C	
			BTUH	KCAL/H	BTUH	KCAL/H	BTUH	KCAL/H	BTUH	KCAL/H	BTUH	KCAL/H	BTUH	KCAL/H
LDV1501H6	90	32	192,560	48,528	177,710	44,786	161,370	40,668	145,720	36,724	130,870	32,981	116,930	29,468
	95	35	186,050	46,888	171,700	43,271	155,915	39,293	140,795	35,483	126,445	31,866	112,980	28,473
	100	38	179,540	45,247	165,690	41,757	150,460	37,918	135,870	34,241	122,020	30,751	109,030	27,477
	110	43	169,665	42,758	154,800	39,012	140,410	35,386	126,610	31,908	113,490	28,601	101,175	25,498
LDV2001H6	90	32	214,820	54,138	194,260	48,957	174,590	43,999	155,920	39,294	138,350	34,866	121,950	30,733
	95	35	207,555	52,307	187,690	47,301	168,690	42,513	150,650	37,966	133,670	33,687	117,825	29,694
	100	38	200,290	50,476	181,120	45,645	162,790	41,026	145,380	36,638	128,990	32,508	113,700	28,654
	110	43	184,890	46,595	166,420	41,941	149,020	37,555	132,750	33,455	117,710	29,665	104,025	26,216
LDV2501H6	90	32	270,930	68,279	248,340	62,586	226,120	56,986	204,390	51,510	183,260	46,184	162,880	41,048
	95	35	261,765	65,969	239,940	60,469	218,475	55,059	197,475	49,767	177,065	44,623	157,370	39,660
	100	38	252,600	63,659	231,540	58,352	210,830	53,133	190,560	48,024	170,870	43,062	151,860	38,271
	110	43	236,910	59,705	216,675	54,606	196,770	49,589	177,305	44,684	158,390	39,917	140,180	35,328
LDV3001H6	90	32	318,160	80,181	291,570	73,480	265,450	66,898	239,960	60,474	215,300	54,259	191,630	48,294
	95	35	307,400	77,470	281,710	70,995	256,470	64,635	231,850	58,430	208,020	52,424	185,150	46,661
	100	38	296,640	74,758	271,850	68,511	247,490	62,371	223,740	56,386	200,740	50,590	178,670	45,028
	110	43	277,255	69,873	253,685	63,933	230,430	58,072	207,645	52,330	185,480	46,744	164,100	41,356
LDV3501H6 (special order item)	90	32	407,800	102,772	372,570	93,894	338,390	85,280	305,540	77,001	274,300	69,128	244,930	61,726
	95	35	394,010	99,297	359,970	90,718	326,950	82,397	295,210	74,398	265,025	66,791	236,650	59,640
	100	38	380,220	95,822	347,370	87,543	315,510	79,514	284,880	71,794	255,750	64,453	228,370	57,553
	110	43	358,100	90,247	326,650	82,321	296,160	74,637	266,910	67,266	239,075	60,251	212,920	53,659
LDV4001H6 (special order item)	90	32	462,070	116,449	424,540	106,991	388,090	97,805	352,840	88,921	319,000	80,393	286,780	72,273
	95	35	446,440	112,510	410,180	103,372	374,970	94,498	340,910	85,915	308,210	77,674	277,080	69,829
	100	38	430,810	108,571	395,820	99,753	361,850	91,192	328,980	82,908	297,420	74,955	267,380	67,384
	110	43	401,980	101,305	368,630	92,901	336,210	84,730	304,920	76,845	274,955	69,293	246,525	62,128

Notes: For 50 cycle capacity, multiply values by .86  
 All units will work in 120°F / 48.9°C ambient

## High Temperature - R-404A/R-507 - High Efficiency Models With Oversized Condensers

R-404A/ R-507 Model	Ambient °F / °C		Evaporator Temperature °F / °C											
			40°F / 4.4°C		35°F / -1.7°C		30°F / -1.1°C		25°F / -3.9°C		20°F / -6.7°C		15°F / -9.4°C	
			BTUH	KCAL/H	BTUH	KCAL/H	BTUH	KCAL/H	BTUH	KCAL/H	BTUH	KCAL/H	BTUH	KCAL/H
LDV1501H6	90	32	196,190	49,443	182,850	46,081	169,550	42,729	156,350	39,403	142,960	36,028	129,800	32,712
	95	35	187,260	47,193	174,670	44,020	162,100	40,852	149,600	37,702	136,850	34,488	124,290	31,323
	100	38	178,350	44,947	166,700	42,011	155,020	39,068	142,870	36,006	130,760	32,954	118,790	29,937
	110	43	161,300	40,650	150,900	38,029	139,880	35,252	129,470	32,629	118,640	29,899	107,870	27,185
LDV2001H6	90	32	213,540	53,816	198,220	49,955	182,890	46,091	167,610	42,240	152,550	38,445	137,790	34,725
	95	35	203,560	51,300	188,950	47,618	174,270	43,919	159,620	40,227	145,140	36,578	130,950	33,002
	100	38	193,630	48,798	179,690	45,285	165,630	41,741	151,560	38,196	137,710	34,705	124,140	31,285
	110	43	173,660	43,765	161,040	40,585	148,290	37,371	135,550	34,161	122,920	30,978	110,550	27,860
LDV2501H6	90	32	270,120	68,075	249,720	62,933	229,680	57,883	210,070	52,941	190,970	48,128	17,200	4,335
	95	35	258,420	65,126	239,140	60,267	219,940	55,428	201,030	50,663	182,610	46,021	164,900	41,557
	100	38	247,190	62,296	228,660	57,626	210,190	52,971	192,000	48,387	174,260	43,916	157,210	39,619
	110	43	224,680	56,623	207,690	52,341	190,710	48,062	173,900	43,826	157,570	39,710	141,860	35,751
LDV3001H6	90	32	320,940	80,882	299,070	75,370	276,660	69,723	254,250	64,075	232,010	58,470	210,150	52,961
	95	35	306,860	77,334	285,660	71,991	264,260	66,598	242,830	61,197	221,530	55,829	200,620	50,559
	100	38	292,280	73,659	272,190	68,596	251,780	63,453	231,370	58,309	211,090	53,198	191,120	48,165
	110	43	262,960	66,270	245,320	61,825	227,020	57,213	208,610	52,573	190,280	47,954	17,290	4,357
LDV3501H6 (special order item)	90	32	405,680	102,238	377,320	95,091	349,540	88,090	321,910	81,127	294,350	74,181	267,160	67,329
	95	35	387,500	97,656	360,570	90,869	334,330	84,257	307,860	77,586	281,420	70,922	255,280	64,335
	100	38	368,860	92,959	344,090	86,716	319,060	80,408	293,770	74,035	268,460	67,656	243,390	61,338
	110	43	332,890	83,894	310,920	78,357	288,380	72,676	265,510	66,912	242,480	61,109	219,620	55,348
LDV4001H6 (special order item)	90	32	462,780	116,628	431,770	108,813	400,470	100,925	369,160	93,034	338,070	85,199	307,580	77,515
	95	35	443,100	111,668	413,390	104,181	383,350	96,610	353,210	89,015	323,370	81,494	294,040	74,103
	100	38	423,350	106,691	394,830	99,504	366,170	92,281	337,300	85,005	308,680	77,792	280,530	70,698
	110	43	383,640	96,683	357,840	90,181	331,750	83,606	305,510	76,993	279,360	70,403	253,560	63,901

Notes: For 50 cycle capacity, multiply values by .86  
 All units will work in 120°F / 48.9°C ambient

## Commercial Temperature - R-404A/R-507 High Efficiency Models with Oversize Condensers

R-404A/ R-507 Model	Ambient °F / °C	Evaporator Temperature °F / °C											
		20°F / -6.7°C BTUH KCAL/H		15°F / -9.4°C BTUH KCAL/H		10°F / -12.2°C BTUH KCAL/H		0°F / -17.8°C BTUH KCAL/H		-5°F / -20.6°C BTUH KCAL/H		-10°F / -23.3°C BTUH KCAL/H	
LDV1501C6	90 32	142,960	36,028	129,800	32,712	119,010	29,992	95,990	24,191	85,400	21,522	75,730	19,085
	<b>95 35</b>	<b>136,850</b>	<b>34,488</b>	<b>124,290</b>	<b>31,323</b>	<b>113,980</b>	<b>28,725</b>	<b>91,820</b>	<b>23,140</b>	<b>81,580</b>	<b>20,559</b>	<b>72,000</b>	<b>18,145</b>
	100 38	130,760	32,954	118,790	29,937	108,930	27,452	87,660	22,092	77,550	19,544	68,490	17,261
	110 43	118,640	29,899	107,870	27,185	98,890	24,922	79,150	19,947	70,250	17,704	61,710	15,552
LDV2001C6	90 32	152,550	38,445	137,790	34,725	125,540	31,638	99,900	25,176	88,260	22,243	77,700	19,582
	<b>95 35</b>	<b>145,140</b>	<b>36,578</b>	<b>130,950</b>	<b>33,002</b>	<b>119,180</b>	<b>30,035</b>	<b>94,600</b>	<b>23,841</b>	<b>83,450</b>	<b>21,031</b>	<b>73,330</b>	<b>18,480</b>
	100 38	137,710	34,705	124,140	31,285	112,870	28,445	89,320	22,510	78,640	19,819	68,790	17,336
	110 43	122,920	30,978	110,550	27,860	100,210	25,255	78,510	19,786	68,820	17,344	60,040	15,131
LDV2501C6	90 32	190,970	48,128	172,600	43,498	158,320	39,899	128,050	32,271	115,410	29,085	104,380	26,305
	<b>95 35</b>	<b>182,610</b>	<b>46,021</b>	<b>164,900</b>	<b>41,557</b>	<b>151,120</b>	<b>38,085</b>	<b>122,180</b>	<b>30,791</b>	<b>109,860</b>	<b>27,686</b>	<b>99,330</b>	<b>25,033</b>
	100 38	174,260	43,916	157,210	39,619	143,890	36,263	116,130	29,267	104,340	26,295	94,100	23,715
	110 43	157,570	39,710	141,860	35,751	129,840	32,722	103,820	26,164	93,150	23,475	84,100	21,195
LDV3001C6	90 32	232,010	58,470	210,150	52,961	192,260	48,453	153,760	38,750	136,080	34,294	119,880	30,212
	<b>95 35</b>	<b>221,530</b>	<b>55,829</b>	<b>200,620</b>	<b>50,559</b>	<b>183,500</b>	<b>46,245</b>	<b>146,610</b>	<b>36,948</b>	<b>129,680</b>	<b>32,681</b>	<b>113,930</b>	<b>28,712</b>
	100 38	211,090	53,198	191,120	48,165	174,720	44,032	139,490	35,154	123,000	30,998	108,250	27,281
	110 43	190,280	47,954	172,190	43,395	157,260	39,632	124,960	31,492	110,340	27,807	96,880	24,415
LDV3501C6 (special order item)	90 32	294,350	74,181	267,160	67,329	244,870	61,711	196,210	49,448	174,500	43,977	154,310	38,889
	<b>95 35</b>	<b>281,420</b>	<b>70,922</b>	<b>255,280</b>	<b>64,335</b>	<b>233,790</b>	<b>58,919</b>	<b>187,170</b>	<b>47,170</b>	<b>165,760</b>	<b>41,774</b>	<b>145,720</b>	<b>36,724</b>
	100 38	268,460	67,656	243,390	61,338	222,670	56,116	177,770	44,801	157,030	39,574	137,520	34,657
	110 43	242,480	61,109	219,620	55,348	200,490	50,527	158,540	39,955	139,210	35,083	121,110	30,522
LDV4001C6 (special order item)	90 32	338,070	85,199	307,580	77,515	282,720	71,250	228,820	57,666	204,350	51,499	181,980	45,862
	<b>95 35</b>	<b>323,370</b>	<b>81,494</b>	<b>294,040</b>	<b>74,103</b>	<b>270,010</b>	<b>68,047</b>	<b>218,130</b>	<b>54,972</b>	<b>194,580</b>	<b>49,037</b>	<b>172,970</b>	<b>43,591</b>
	100 38	308,680	77,792	280,530	70,698	257,470	64,887	207,490	52,291	184,770	46,565	164,070	41,348
	110 43	279,360	70,403	253,560	63,901	232,250	58,531	186,440	46,986	165,600	41,734	147,010	37,049

C6 models include head cooling fan  
All units will work in 120°F / 48.9°C ambient

## Low Temperature - R-404A/R-507 High Efficiency Models with Oversize Condensers

R-404A/ R-507 Model	Ambient °F / °C	Evaporator Temperature °F / °C											
		0°F / -17.8°C BTUH KCAL/H		-10°F / -23.3°C BTUH KCAL/H		-15°F / -26.1°C BTUH KCAL/H		-20°F / -28.9°C BTUH KCAL/H		-30°F / -34.4°C BTUH KCAL/H		-40°F / -40°C BTUH KCAL/H	
LDV1201L6	90 32	92,350	23,274	75,300	18,977	67,040	16,895	59,180	14,914	45,090	11,363	33,870	8,536
	<b>95 35</b>	<b>87,890</b>	<b>22,150</b>	<b>71,760</b>	<b>18,085</b>	<b>63,820</b>	<b>16,084</b>	<b>56,220</b>	<b>14,168</b>	<b>42,420</b>	<b>10,691</b>	<b>31,160</b>	<b>7,853</b>
	100 38	83,530	21,051	68,240	17,198	60,630	15,280	53,290	13,430	39,780	10,025	28,450	7,170
	110 43	75,210	18,954	61,280	15,444	54,330	13,692	47,500	11,971	34,570	8,712	22,930	5,779
LDV1501L6	90 32	115,220	29,037	95,660	24,108	86,020	21,678	76,720	19,335	59,610	15,023	45,060	11,356
	<b>95 35</b>	<b>109,810</b>	<b>27,674</b>	<b>91,120</b>	<b>22,964</b>	<b>81,620</b>	<b>20,570</b>	<b>72,890</b>	<b>18,369</b>	<b>56,350</b>	<b>14,201</b>	<b>42,330</b>	<b>10,668</b>
	100 38	104,430	26,318	86,600	21,825	77,700	19,582	69,090	17,412	53,120	13,387	39,510	9,957
	110 43	94,240	23,750	77,670	19,574	69,520	17,520	61,590	15,522	46,770	11,787	33,960	8,558
LDV2201L6	90 32	137,620	34,682	114,060	28,745	102,840	25,917	91,630	23,092	71,180	17,939	53,270	13,425
	<b>95 35</b>	<b>129,270</b>	<b>32,578</b>	<b>108,150</b>	<b>27,256</b>	<b>97,420</b>	<b>24,551</b>	<b>86,870</b>	<b>21,893</b>	<b>66,890</b>	<b>16,857</b>	<b>49,360</b>	<b>12,440</b>
	100 38	122,200	30,796	102,270	25,774	91,730	23,117	81,680	20,585	62,620	15,781	45,470	11,459
	110 43	108,700	27,394	90,590	22,830	81,350	20,502	72,120	18,175	54,200	13,659	37,800	9,526
LDV2701L6	90 32	178,040	44,869	145,620	36,699	129,580	32,656	114,240	28,790	87,910	22,155	66,000	16,633
	<b>95 35</b>	<b>168,760</b>	<b>42,530</b>	<b>137,830</b>	<b>34,735</b>	<b>123,370</b>	<b>31,091</b>	<b>108,440</b>	<b>27,329</b>	<b>82,880</b>	<b>20,887</b>	<b>61,360</b>	<b>15,464</b>
	100 38	159,390	40,169	131,100	33,039	116,120	29,264	102,810	25,910	77,880	19,627	56,760	14,304
	110 43	143,400	36,139	116,690	29,408	103,970	26,202	91,490	23,057	67,980	17,132	47,620	12,001
LDV3001L6	90 32	196,300	49,471	161,650	40,738	143,700	36,215	127,400	32,107	98,390	24,796	74,820	18,856
	<b>95 35</b>	<b>186,800</b>	<b>47,077</b>	<b>152,400</b>	<b>38,407</b>	<b>136,160</b>	<b>34,315</b>	<b>120,850</b>	<b>30,456</b>	<b>92,270</b>	<b>23,254</b>	<b>69,270</b>	<b>17,457</b>
	100 38	177,640	44,768	144,640	36,452	128,850	32,472	114,140	28,765	86,580	21,820	63,790	16,076
	110 43	157,280	39,637	128,990	32,508	114,760	28,921	100,870	25,421	74,970	18,894	52,930	13,339

Notes: For 50 cycle capacity, multiply values by .86  
All units will work in 120°F / 48.9°C ambient

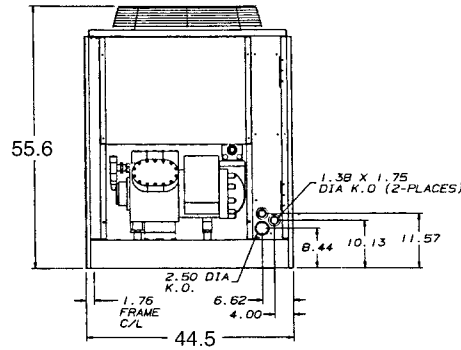
# Specifications & Dimensional Data

## Specifications for Standard Product

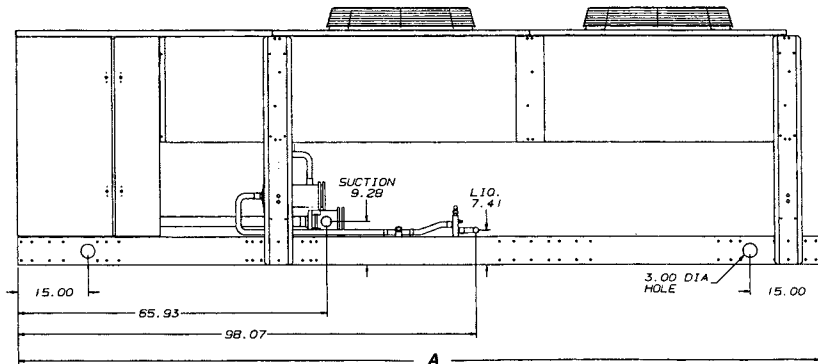
Model Number	Compressor	Condenser Fan Data		Connections (in.)		LDV & Beacon II™ Receiver (90% Full)		Unit Length "A"		Approx. Net Weight	
		No. Fans	Dia.	Liquid	Suct.	Lbs.	Kg.				
						R-22 R-404A/R-507					
LDV1500H2/M6/C6	3DS3R17ME	2	26"	7/8	1-5/8	142 123	64.4 55.8	144	3.66	1,580	717
LDV2000H2/M6/C6	4DA3R18ME	2	26"	7/8	1-5/8	142 123	64.4 55.8	144	3.66	1,580	717
LDV2500H2/M6/C6	4DH3R22ME	2	26"	1-1/8	2-1/8	142 123	64.4 55.8	144	3.66	1,630	740
LDV2600H2/M6/C6	4DH3R22ME	2	30"	1-1/8	2-1/8	142 123	64.4 55.8	170.7	4.34	1,770	803
LDV3000H2/M6/C6	4DJ3R28ME	2	30"	1-1/8	2-1/8	216 188	98.0 85.3	170.7	4.34	1,860	844
LDV3500H2/M6/C6	6DH3R35ME	3	30"	1-1/8	2-1/8	216 188	98.0 85.3	225.7	5.73	2,260	1,025
LDV3505H2	6DG3R37ME	3	30"	1-1/8	2-1/8	216 188	98.0 85.3	225.7	5.73	2,260	1,025
LDV4000H2/M6/C6	6DJ3R40ME	3	30"	1-1/8	2-1/8	216 188	98.0 85.3	225.7	5.73	2,360	1,070
LDV1200L6	4DA3F47KE	2	26"	7/8	1-5/8	93 81	42.2 36.7	144	3.66	1,500	680
LDV1500L6	4DL3F63KE	2	26"	7/8	1-5/8	93 81	42.2 36.7	144	3.66	1,500	680
LDV2200L6	4DT3F76KE	2	26"	7/8	2-1/8	93 81	42.2 36.7	144	3.66	1,500	680
LDV2700L6	6DL3F93KE	2	26"	1-1/8	2-1/8	142 123	64.4 55.8	144	3.66	1,670	758
LDV3000L6	6DT3F11ME	2	30"	1-1/8	2-1/8	142 123	64.4 55.8	170.7	4.34	1,870	848

## Dimensions (Inches)

End View



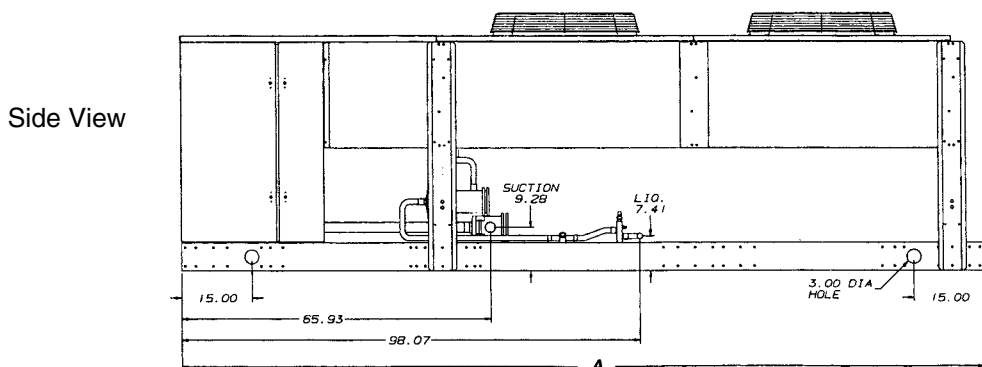
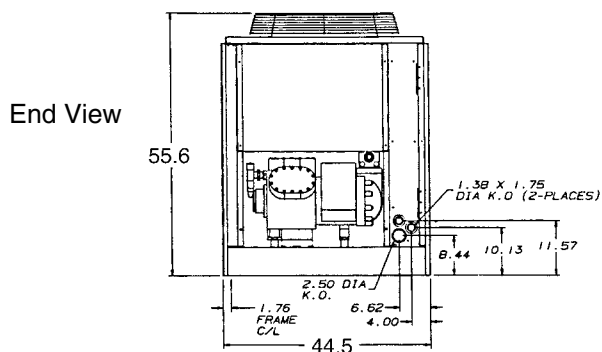
Side View



## High Efficiency Models with Oversized Condensers

Model Number	Compressor	Condenser Fan Data		Connections (in.)		LDV & Beacon II™		Unit Length "A"		Approx. Net Weight	
						Receiver (90% Full)					
		No. Fans	Dia.	Liquid	Suct.	Lbs.	Kg.	R-22	R-404A		
LDV1501H6/C6	3DS3R17ME	2	30"	7/8	1-5/8	142 123	64.4 55.8	170.7	4.34	1,680	762
LDV2001H6/C6	4DA3R18ME	2	30"	7/8	1-5/8	142 123	64.4 55.8	170.7	4.34	1,760	798
LDV2501H6/C6	4DH3R22ME	3	30"	1-1/8	2-1/8	216 188	98.0 85.3	225.7	5.73	1,750	794
LDV3001H6/C6	4DJ3R28ME	3	30"	1-1/8	2-1/8	216 188	98.0 85.3	225.7	5.73	2,160	980
LDV3501H6/C6	6DH3R35ME	4	30"	1-1/8	2-1/8	216 188	98.0 85.3	280.7	7.13	2,770	1,256
LDV4001H6/C6	6DJ3R40ME	4	30"	1-1/8	2-1/8	216 188	98.0 85.3	280.7	7.13	2,870	1,302
LDV1201L6	4DA3F47KE	2	26"	7/8	2-1/8	93 81	42.2 36.7	144	3.66	1,600	726
LDV1501L6	4DL3F63KE	2	26"	7/8	1-5/8	93 81	42.2 36.7	144	3.66	1,750	794
LDV2201L6	4DT3F76KE	2	26"	7/8	2-1/8	93 81	42.2 36.7	144	3.66	1,780	807
LDV2701L6	6DL3F93KE	2	30"	1-1/8	2-1/8	142 123	64.4 55.8	170.7	4.34	1,970	894
LDV3001L6	6DT3F11ME	2	30"	1-1/8	2-1/8	142 123	64.4 55.8	170.7	4.34	2,070	939

### Dimensions (Inches)



## Standard Models

208-230 Volts															
Model Number	Remote Loads: One Contactors							Remote Loads: Two Contactors							
	Low Amps "1L"				High Amps: "1H"			Low Amps "2L"				High Amps: "2H"			
	Fan Amps	Evap Htrs. Amps	Elec. Defrost		Evap Htrs. Amps	Elec. Defrost		Fan Amps	Evap Htrs. Amps	Elec. Defrost		Fan Amps	Evap Htrs. Amps	Elec. Defrost	
			MCA	MOP		MCA	MOP			MCA	MOP			MCA	MOP
LDV1500H2/M6/C6	-	-	-	-	-	-	-	25	80	99.9	150	25	96	99.9	150
LDV2000H2/M6/C6	-	-	-	-	-	-	-	20	80	102.6	150	20	96	103	150
LDV2500H2/M6/C6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LDV2600H2/M6/C6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LDV3000H2/M6/C6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LDV3500H2/M6/C6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LDV3505H2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LDV4000H2/M6/C6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LDV1200L6	15	40	74	110	48	74	110	15	34	74	110	20	74	79	110
LDV1500L6	15	40	82	125	48	82	125	20	80	87	125	20	91	91	125
LDV2200L6	15	40	95	150	48	95	150	20	80	100	150	20	96	100	150
LDV2700L6	-	-	-	-	-	-	-	20	80	119	175	20	96	119	175
LDV3000L6	-	-	-	-	-	-	-	20	80	141	225	20	96	141	225

460 Volts															
Model Number	Remote Loads: One Contactors							Remote Loads: Two Contactors							
	Low Amps "1L"				High Amps: "1H"			Low Amps "2L"				High Amps: "2H"			
	Fan Amps	Evap Htrs. Amps	Elec. Defrost		Evap Htrs. Amps	Elec. Defrost		Fan Amps	Evap Htrs. Amps	Elec. Defrost		Fan Amps	Evap Htrs. Amps	Elec. Defrost	
			MCA	MOP		MCA	MOP			MCA	MOP			MCA	MOP
LDV1500H2/M6/C6	15	40	52	80	48	52	80	15	48	52	70	15	64	64	80
LDV2000H2/M6/C6	15	40	56	80	48	56	80	15	48	56	80	15	64	64	80
LDV2500H2/M6/C6	-	-	-	-	-	-	-	15	48	65	100	15	80	80	100
LDV2600H2/M6/C6	-	-	-	-	-	-	-	15	48	68	100	15	80	80	110
LDV3000H2/M6/C6	-	-	-	-	-	-	-	15	80	80	110	20	96	96	110
LDV3500H2/M6/C6	-	-	-	-	-	-	-	20	80	91	125	20	96	96	125
LDV3505H2	-	-	-	-	-	-	-	20	80	101	150	20	96	101	150
LDV4000H2/M6/C6	-	-	-	-	-	-	-	20	80	110	150	20	96	110	150
LDV1200L6	10	19	40	60	24	40	60	10	19	40	60	15	38	45	60
LDV1500L6	15	24	49	70	40	49	70	15	32	49	70	15	48	49	70
LDV2200L6	15	40	55	80	48	55	80	15	48	55	80	15	64	64	80
LDV2700L6	15	40	64	100	48	64	100	15	48	64	100	15	64	64	100
LDV3000L6	15	40	76	110	48	76	110	15	48	76	110	15	80	80	110

MCA = Minimum Circuit Ampacity  
MOP = Maximum Overcurrent Protection

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.

Mounted Electric Defrost Kits for LDV condensing units include:  
Defrost timer, terminal strip, (1) evaporator fan contactor and:  
One (1) defrost heater contactor for 1L and 1H codes  
Two (2) defrost heater contactors for 2L and 2H codes  
Four (4) defrost heater contactors for 4L and 4H codes

An evaporator heater hold out relay (option) is recommended when two or more evaporators are connected to a single (LDV/ LDD) condensing unit to allow termination on coils that have already defrosted to prevent unnecessary steaming. This option is not needed on Beacon II™ (LDVS) 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. Contact factory for 575 volt electrical specification.



## Standard Models

		208-230 Volts													
Model Number	Compressor	Condensing Unit						Remote Loads: Four Contactors							
		Compressor		Condenser		Beacon or Air Defrost		Low Amps "4L"				High Amps "4H"			
		RLA	LRA	No. Fans	FLA	MCA	MOP	Evap Fan Amps	Defrost Htrs. Amps	Elec. Defrost		Evap Fan Amps	Defrost Htrs. Amps	Elec. Defrost	
										MCA	MOP			MCA	MOP
LDV1500H2/M6/C6	3DS3R17ME	59.6	275	2	8	75	125	25	96	100	150	25	108	108	150
LDV2000H2/M6/C6	4DA3R18ME	66	308	2	8	83	125	25	96	108	150	25	108	108	150
LDV2500H2/M6/C6	4DH3R22ME	82.2	428	2	8	100	150	25	125	125	175	30	181	181	225
LDV2600H2/M6/C6	4DH3R22ME	82.2	428	2	14	106	175	25	125	131	200	30	181	181	225
LDV3000H2/M6/C6	4DJ3R28ME	94	470	2	14	119	200	30	149	150	225	30	181	181	225
LDV3500H2/M6/C6	6DH3R35ME	107	565	3	21	141	225	35	160	176	250	35	192	192	250
LDV3505H2	6DG3R37ME*	125	594	3	21	161	250	35	160	196	300	35	192	196	300
LDV4000H2/M6/C6	6DJ3R40ME*	142	594	3	21	180	300	35	160	215	300	35	192	215	300
LDV1200L6	4DA3F47KE	45.2	220	2	8	59	100	22	48	81	110	22	64	81	110
LDV1500L6	4DL3F63KE	52.6	278	2	8	67	110	25	64	92	125	25	91	92	125
LDV2200L6	4DT3F76KE	66	374	2	8	80	125	25	96	105	150	25	105	105	150
LDV2700L6	6DL3F93KE	80.8	450	2	8	99	150	25	96	124	175	25	108	124	175
LDV3000L6	6DT3F11ME	95.6	470	2	14	121	200	30	150	151	225	30	181	181	225

+ = 230/3/60

		460 Volts													
Model Number	Compressor	Condensing Unit						Remote Loads: Four Contactors							
		Compressor		Condenser		Beacon or Air Defrost		Low Amps "4L"				High Amps "4H"			
		RLA	LRA	No. Fans	FLA	MCA	MOP	Evap Fan Amps	Defrost Htrs. Amps	Elec. Defrost		Evap Fan Amps	Defrost Htrs. Amps	Elec. Defrost	
										MCA	MOP			MCA	MOP
LDV1500H2/M6/C6	3DS3R17ME	29	138	2	4	37	60	15	48	52	70	15	64	64	80
LDV2000H2/M6/C6	4DA3R18ME	33	154	2	4	41	70	15	48	56	80	15	64	64	80
LDV2500H2/M6/C6	4DH3R22ME	41.1	214	2	4	50	80	20	64	70	100	20	96	96	110
LDV2600H2/M6/C6	4DH3R22ME	41.1	214	2	7	53	90	20	64	73	110	20	96	96	110
LDV3000H2/M6/C6	4DJ3R28ME	47	135	2	7	60	100	20	64	80	110	20	96	96	125
LDV3500H2/M6/C6	6DH3R35ME	53.5	283	3	11	71	110	20	64	91	125	20	96	96	125
LDV3505H2	6DG3R37ME	62.5	297	3	11	81	125	20	64	101	150	20	96	101	150
LDV4000H2/M6/C6	6DJ3R40ME	71	297	3	11	90	150	20	64	110	150	20	96	110	150
LDV1200L6	4DA3F47KE	22.6	110	2	4	30	50	-	-	-	-	-	-	-	-
LDV1500L6	4DL3F63KE	26.3	139	2	4	34	50	15	48	49	70	15	48	49	70
LDV2200L6	4DT3F76KE	33	187	2	4	40	60	15	48	55	80	15	48	55	80
LDV2700L6	6DL3F93KE	40.4	225	2	4	49	80	15	48	64	100	15	64	64	100
LDV3000L6	6DT3F11ME	47.8	235	2	7	61	100	20	64	81	110	20	91	91	110

MCA = Minimum Circuit Ampacity

MOP = Maximum Overcurrent Protection

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.

Mounted Electric Defrost Kits for LDV condensing units include:

Defrost timer, terminal strip, (1) evaporator fan contactor and:

One (1) defrost heater contactor for 1L and 1H codes

Two (2) defrost heater contactors for 2L and 2H codes

Four (4) defrost heater contactors for 4L and 4H codes

An evaporator heater hold out relay (option) is recommended when two or more evaporators are connected to a single (LDV/ LDD) condensing unit to allow termination on coils that have already defrosted to prevent unnecessary steaming.

This option is not needed on Beacon II™ (LDVS) 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.

Contact factory for 575 volt electrical specification.

## High Efficiency Models with Oversized Condensers

208-230 Volts															
Model Number	Remote Loads: One Contactors							Remote Loads: Two Contactors							
	Low Amps "1L"				High Amps: "1H"			Low Amps "2L"				High Amps: "2H"			
	Fan Amps	Evap Htrs. Amps	Elec. Defrost		Evap Htrs. Amps	Elec. Defrost		Fan Amps	Evap Htrs. Amps	Elec. Defrost		Fan Amps	Evap Htrs. Amps	Elec. Defrost	
			MCA	MOP		MCA	MOP			MCA	MOP			MCA	MOP
LDV1501H6/C6	-	-	-	-	-	-	-	25	80	106	150	25	96	106	150
LDV2001H6/C6	-	-	-	-	-	-	-	20	80	109	150	20	96	109	150
LDV2501H6/C6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LDV3001H6/C6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LDV3501H6/C6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LDV4001H6/C6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LDV1201L6	15	40	74	110	48	74	110	15	34	74	110	20	74	79	110
LDV1501L6	15	40	82	125	48	82	125	20	80	87	125	20	91	91	125
LDV2201L6	15	40	95	150	48	95	150	20	80	100	150	20	96	100	150
LDV2701L6	-	-	-	-	-	-	-	20	80	125	175	20	96	125	175
LDV3001L6	-	-	-	-	-	-	-	20	80	141	225	20	96	141	225

460 Volts															
Model Number	Remote Loads: One Contactors							Remote Loads: Two Contactors							
	Low Amps "1L"				High Amps: "1H"			Low Amps "2L"				High Amps: "2H"			
	Fan Amps	Evap Htrs. Amps	Elec. Defrost		Evap Htrs. Amps	Elec. Defrost		Fan Amps	Evap Htrs. Amps	Elec. Defrost		Fan Amps	Evap Htrs. Amps	Elec. Defrost	
			MCA	MOP		MCA	MOP			MCA	MOP			MCA	MOP
LDV1501H6/C6	15	40	55	80	48	55	80	15	48	55	80	15	64	64	80
LDV2001H6/C6	15	40	59	80	48	59	80	15	48	56	80	15	64	64	80
LDV2501H6/C6	-	-	-	-	-	-	-	15	48	72	100	15	80	80	100
LDV3001H6/C6	-	-	-	-	-	-	-	15	80	80	110	20	96	96	125
LDV3501H6/C6	-	-	-	-	-	-	-	20	80	94	125	20	96	96	125
LDV4001H6/C6	-	-	-	-	-	-	-	20	80	113	175	20	96	113	175
LDV1201L6	10	19	40	60	24	40	60	10	19	40	60	15	38	45	60
LDV1501L6	15	24	49	70	40	49	70	15	32	49	70	15	48	49	70
LDV2201L6	15	40	55	80	48	55	80	15	48	55	80	15	64	64	80
LDV2701L6	15	40	67	100	48	67	100	15	48	67	100	15	64	67	100
LDV3001L6	15	40	76	110	48	76	110	15	48	76	110	15	80	80	110

MCA = Minimum Circuit Ampacity  
MOP = Maximum Overcurrent Protection

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.

Mounted Electric Defrost Kits for LDV condensing units include:  
Defrost timer, terminal strip, (1) evaporator fan contactor and:  
One (1) defrost heater contactor for 1L and 1H codes  
Two (2) defrost heater contactors for 2L and 2H codes  
Four (4) defrost heater contactors for 4L and 4H codes

An evaporator heater hold out relay (option) is recommended when two or more evaporators are connected to a single (LDV/ LDD) condensing unit to allow termination on coils that have already defrosted to prevent unnecessary steaming. This option is not needed on Beacon II™ (LDVS) 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. Contact factory for 575 volt electrical specification.

Single Vertical Air Discharge Condensing Unit

## High Efficiency Models with Oversized Condensers

		208-230 Volts													
Model Number	Compressor	Condensing Unit						Remote Loads: Four Contactors							
		Compressor		Condenser		Beacon or Air Defrost		Low Amps "4L"				High Amps "4H"			
		RLA	LRA	No. Fans	FLA	MCA	MOP	Evap Fan Amps	Defrost Htrs. Amps	Elec. Defrost		Evap Fan Amps	Defrost Htrs. Amps	Elec. Defrost	
										MCA	MOP			MCA	MOP
LDV1501H6/C6	3DS3R17ME	59.6	275	2	14	81	125	25	96	106	150	25	108	108	150
LDV2001H6/C6	4DA3R18ME	66	308	2	14	89	125	25	96	114	150	25	108	114	150
LDV2501H6/C6	4DH3R22ME	82.2	428	3	21	113	175	25	125	138	200	30	181	181	225
LDV3001H6/C6	4DJ3R28ME	94	470	3	21	126	200	30	149	156	225	30	181	181	225
LDV3501H6/C6	6DH3R35ME	107	565	4	28	148	225	35	160	183	250	35	192	192	250
LDV4001H6/C6	6DJ3R40ME&	142	594	4	28	187	300	35	160	222	300	35	192	222	300
LDV1201L6	4DA3F47KE	45.2	220	2	8	59	100	22	48	81	110	22	64	81	110
LDV1501L6	4DL3F63KE	52.6	278	2	8	67	110	25	64	92	125	25	91	92	125
LDV2201L6	4DT3F76KE	66	374	2	8	80	125	25	96	105	150	25	105	105	150
LDV2701L6	6DL3F93KE	80.8	450	2	14	105	175	25	96	130	200	25	108	130	200
LDV3001L6	6DT3F11ME	95.6	470	2	14	121	200	30	150	151	225	30	181	181	225

& = 230/3/60

		460 Volts													
Model Number	Compressor	Condensing Unit						Remote Loads: Four Contactors							
		Compressor		Condenser		Beacon or Air Defrost		Low Amps "4L"				High Amps "4H"			
		RLA	LRA	No. Fans	FLA	MCA	MOP	Evap Fan Amps	Defrost Htrs. Amps	Elec. Defrost		Evap Fan Amps	Defrost Htrs. Amps	Elec. Defrost	
										MCA	MOP			MCA	MOP
LDV1501H6/C6	3DS3R17ME	29	138	2	7	40	60	15	48	55	70	15	64	64	80
LDV2001H6/C6	4DA3R18ME	33	154	2	7	44	70	15	48	59	80	15	64	64	80
LDV2501H6/C6	4DH3R22ME	41.1	214	3	11	57	90	20	64	77	110	20	96	96	110
LDV3001H6/C6	4DJ3R28ME	47	235	3	11	63	100	20	64	83	125	20	96	96	125
LDV3501H6/C6	6DH3R35ME	53.5	283	4	14	74	110	20	64	94	125	20	96	96	125
LDV4001H6/C6	6DJ3R40ME	71	297	4	14	93	150	20	64	113	175	20	96	113	178
LDV1201L6	4DA3F47KE	22.6	110	2	4	30	50	-	-	-	-	-	-	-	-
LDV1501L6	4DL3F63KE	26.3	139	2	4	34	50	15	48	49	70	15	48	49	70
LDV2201L6	4DT3F76KE	33	187	2	4	40	60	15	48	55	80	15	48	55	80
LDV2701L6	6DL3F93KE	40.4	225	2	7	52	80	15	48	67	100	15	64	67	100
LDV3001L6	6DT3F11ME	47.8	235	2	7	61	100	20	64	81	110	20	91	91	110

MCA = Minimum Circuit Ampacity

MOP = Maximum Overcurrent Protection

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.

Mounted Electric Defrost Kits for LDV condensing units include:

Defrost timer, terminal strip, (1) evaporator fan contactor and:

One (1) defrost heater contactor for 1L and 1H codes

Two (2) defrost heater contactors for 2L and 2H codes

Four (4) defrost heater contactors for 4L and 4H codes

An evaporator heater hold out relay (option) is recommended when two or more evaporators are connected to a single (LDV/ LDD) condensing unit to allow termination on coils that have already defrosted to prevent unnecessary steaming.

This option is not needed on Beacon II™ (LDVS) 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.

Contact factory for 575 volt electrical specification.

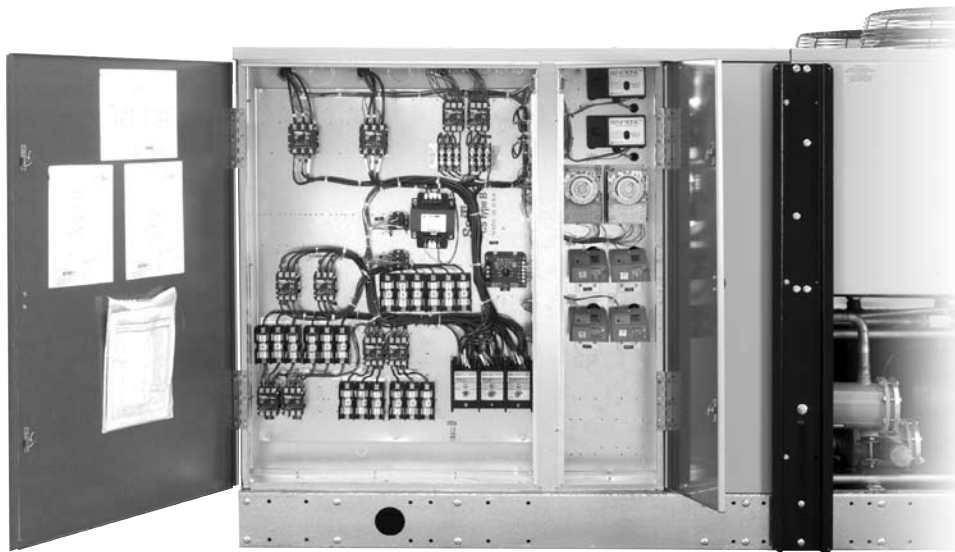
# Dual Vertical Air Discharge Condensing Unit

The LDD Series of dual compressor outdoor condensing units are designed for use in commercial refrigerated warehouse and light industrial applications. The units utilize the Floating Tube™ coil design air-cooled condenser design (RC8 series) and offer a premium warranty against tube sheet and center leaks. The LDD consists of two independent refrigeration circuits in a

single housing which can reduce space requirements and installation and rigging costs. Standard models are available in even horsepower configurations from 24 to 80 horsepower; however, unequal horsepower and other customer features can be designed to suit the application.

## Design Features

- Resource II is Larkin's most energy efficient low ambient head pressure control. This system provides year round control of refrigerant head pressure without the use of special refrigerant expansion valves.
- A generous amount of clearance under the condenser section of the unit has been provided to allow ease of service to the coil section and liquid and suction filters.
- A minimal number of standard accessories have been pre-configured into the base design of the unit. Customization of the product is made easily.
- All common serviceable controls are located in a separate electrical compartment from the main electrical box. Service is made easy without disconnecting power to the unit.



**The electrical box is divided into two compartments.  
All serviceable controls are accessible without disconnecting power to the unit.**



## Standard Features

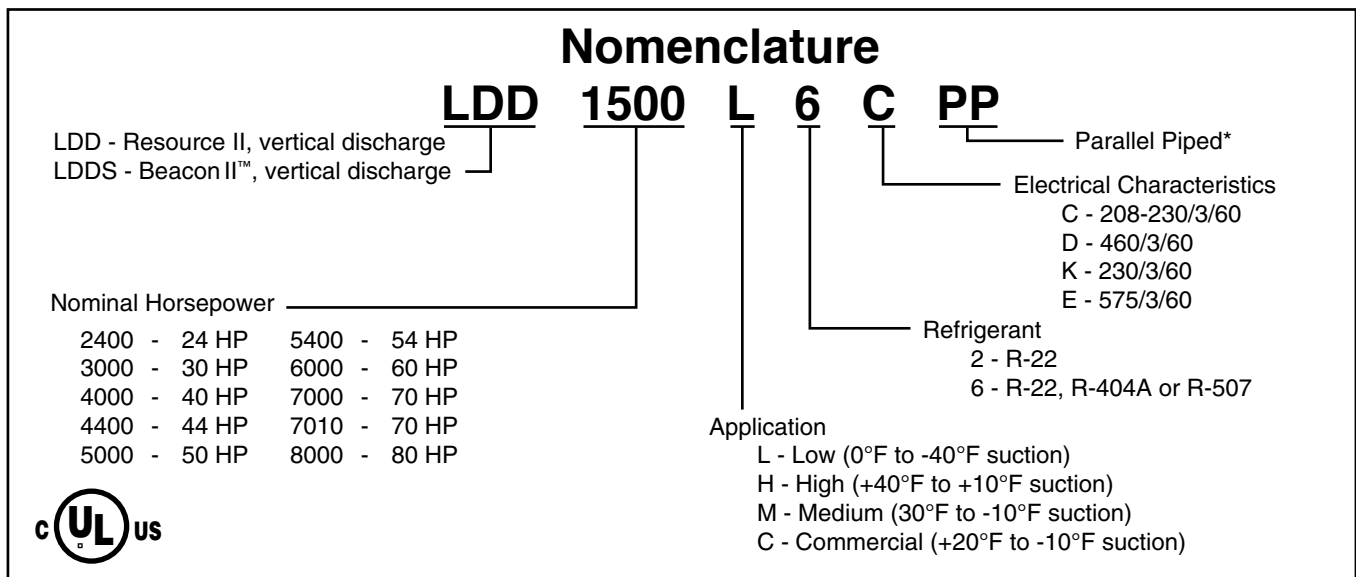
- High efficiency Copeland Discus® compressors with POE oil
- Thermally protected permanently lubricated ball bearing condenser fan motors
- Electrical controls, including compressor contactor and optional defrost control, are located in easily accessible control box with a hinged cover
- Resource II head pressure control system
- 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

## Additional Standard Features for Parallel Piped Units

- Replaceable liquid suction filter
- Replaceable core suction filter
- Suction accumulator
- Oil management system

## Factory-Installed Optional Features

- Liquid line solenoid valves
- Suction filters
- Replaceable core liquid filter driers
- Suction accumulators
- Oil separators
- Air defrost timers
- Electric defrost kits, including timer, evaporative fan controller with fusing, defrost heater contactor(s), lockout relay and terminal strip
- Low ambient kit with heated and insulated receiver with time delay
- Compressor loading
- External discharge line muffler
- Phase-loss protection
- Manual-reset high pressure switches
- Compressor circuit breakers
- Condenser fan cycling
- Demand cooling for low temperature R-22
- Three-way heat reclaim valve
- Coated condenser coils for protection against corrosion in harsh environment
- Beacon II™ compatible
- System piped for parallel operation with oil equalization system

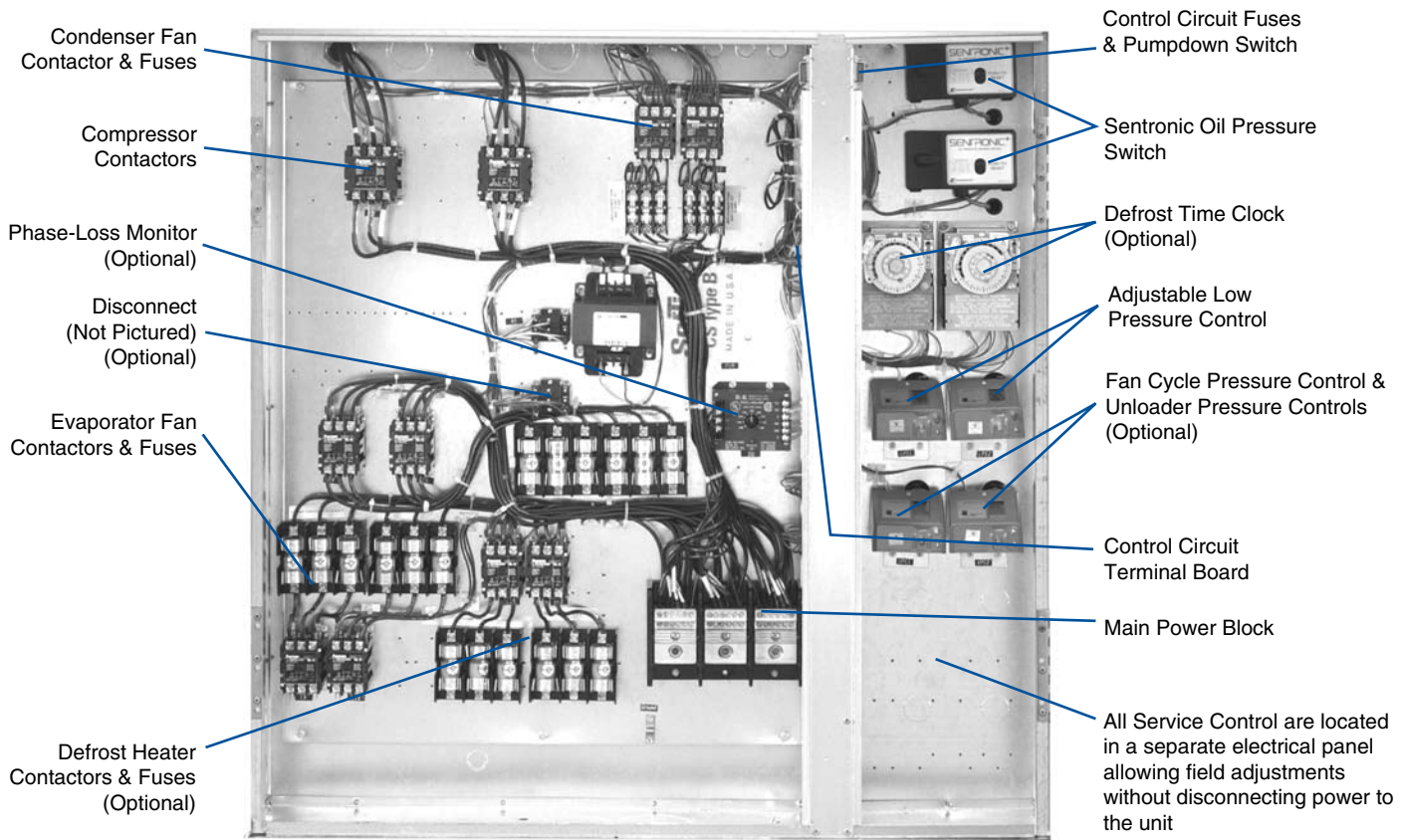


\*Not available with Beacon II™ System

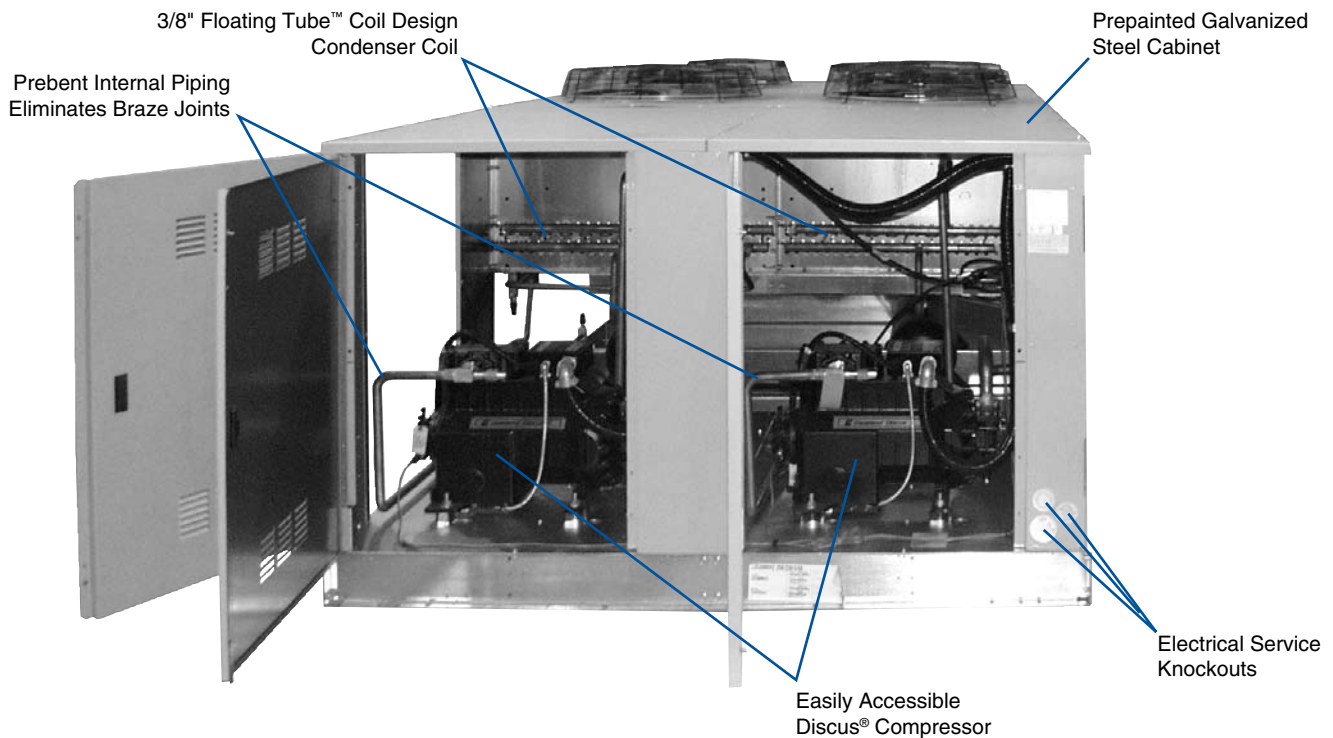
# Electrical Box Features/Internal Piping

Dual Vertical Air Discharge Condensing Unit

## Dual Compressor



## Internal Piping



### R-22 Capacity Data - High Temperature

Model Number	Compressor (2 Each)	Capacity BTU/H @ 95°F Ambient		KCAL/H @ 35°C Ambient		Evaporator Temperature °F / °C								
		40°F/4.4°C	35°F/1.7°C	30°F/-1.1°C	25°F/-3.9°C	20°F/-6.7°C	15°F/-9.4°C	10°F/-12.2°C	BTUH	KCAL/H	BTUH	KCAL/H		
LDD3000H2	3DS3R17ME	351,000	88,458	321,800	81,099	294,000	74,093	267,000	67,288	240,800	60,685	215,800	54,385	Not Rated
LDD4000H2	4DA3R18ME	38,1600	96,169	344,800	86,895	312,200	78,679	279,800	70,514	250,200	63,054	222,100	55,973	Not Rated
LDD5000H2	4DH3R22ME	Not Rated	Not Rated	Not Rated	Not Rated	365,800	92,188	329,600	83,065	294,400	74,194	Not Rated	Not Rated	Not Rated
LDD5200H2	4DH3R22ME	489,800	123,438	450,600	113,558	411,800	103,780	373,600	94,153	336,200	84,728	299,800	75,554	Not Rated
LDD6000H2	4DJ3R28ME	577,800	145,615	531,000	133,821	485,200	122,278	439,800	110,837	396,000	99,798	353,000	88,962	Not Rated
LDD7000H2	6DH3R35ME	744,200	187,550	681,200	171,673	621,600	156,653	563,200	141,935	507,400	127,873	454,600	114,567	Not Rated
LDD7010H2	6DG3R37ME	763,400	192,389	706,000	177,923	646,600	162,954	590,800	148,891	535,800	135,030	483,200	121,774	Not Rated
LDD8000H2	6DJ3R40ME	846,400	213,306	778,000	196,069	714,400	180,040	652,600	164,466	592,200	149,244	534,400	134,677	Not Rated

### R-404A/R-507 Capacity Data - Medium Temperature

Model Number	Compressor (2 Each)	Capacity BTU/H @ 95°F Ambient		KCAL/H @ 35°C Ambient		Evaporator Temperature °F / °C							
		35°F/1.7°C	30°F/-1.1°C	25°F/-3.9°C	20°F/-6.7°C	15°F/-9.4°C	10°F/-12.2°C	0°F/-17.8°C	BTUH	KCAL/H	BTUH	KCAL/H	
LDD3000M6	3DS3R17ME	Not Rated	304,200	76,663	282,800	71,270	259,800	65,474	237,400	59,829	Not Rated	Not Rated	Not Rated
LDD4000M6	4DA3R18ME	Not Rated	322,600	81,300	295,600	74,496	271,000	68,296	245,200	61,794	Not Rated	Not Rated	Not Rated
LDD5000M6	4DH3R22ME	Not Rated	Not Rated	Not Rated	370,800	93,448	339,000	85,433	308,000	77,621	Not Rated	Not Rated	Not Rated
LDD5200M6	4DH3R22ME	Not Rated	415,800	104,788	381,600	96,169	348,200	87,752	315,800	79,587	Not Rated	Not Rated	Not Rated
LDD6000M6	4DJ3R28ME	Not Rated	500,200	126,058	459,800	115,877	421,800	106,300	383,600	96,673	Not Rated	Not Rated	Not Rated
LDD7000M6	6DH3R35ME	Not Rated	631,200	159,073	585,200	147,480	537,000	135,333	488,200	123,034	Not Rated	Not Rated	Not Rated
LDD8000M6	6DJ3R40ME	Not Rated	729,800	183,921	677,200	170,665	621,200	156,552	567,800	143,095	Not Rated	Not Rated	Not Rated

### R-404A/R-507 Capacity Data - Commercial Temperature

Model Number	Compressor (2 Each)	Capacity BTU/H @ 95°F Ambient		KCAL/H @ 35°C Ambient		Evaporator Temperature °F / °C									
		20°F/-6.7°C	15°F/-9.4°C	10°F/-12.2°C	5°F/-15.0°C	0°F/-17.8°C	-5°F/-20.6°C	-10°F/-23.3°C	BTUH	KCAL/H	BTUH	KCAL/H			
LDD3000C6	3DS3R17ME	259,800	65,474	237,400	59,829	218,400	55,040	197,400	49,748	177,000	44,607	157,800	39,768	139,800	35,232
LDD4000C6	4DA3R18ME	271,000	68,296	245,200	61,794	223,400	56,300	200,200	50,454	178,400	44,960	158,200	39,869	139,600	35,181
LDD5000C6	4DH3R22ME	339,000	85,433	308,000	77,621	282,000	71,069	256,400	64,617	230,400	58,065	208,400	52,520	189,400	47,732
LDD5200C6	4DH3R22ME	348,200	87,752	315,800	79,587	293,000	73,841	264,200	66,583	237,800	59,929	214,400	54,032	194,400	48,992
LDD6000C6	4DJ3R28ME	421,800	106,300	383,600	96,673	351,000	88,458	315,800	79,587	282,200	71,119	250,400	63,105	221,400	55,796
LDD7000C6	6DH3R35ME	537,000	135,333	488,200	123,034	447,800	112,853	403,400	101,663	360,600	90,877	320,000	80,645	282,600	71,220
LDD8000C6	6DJ3R40ME	621,200	156,552	567,800	143,095	522,200	131,603	472,600	119,103	425,000	107,107	380,400	95,867	339,200	85,484

Note: C6 Units include head cooling fan.

### R-404A/R-507 Capacity Data - Low Temperature

Model Number	Compressor (2 Each)	Capacity BTU/H @ 95°F Ambient		KCAL/H @ 35°C Ambient		Evaporator Temperature °F / °C									
		0°F/-17.8°C	-10°F/-23.3°C	-15°F/-26.1°C	-20°F/-28.9°C	-25°F/-31.7°C	-30°F/-34.4°C	-40°F/-40°C	BTUH	KCAL/H	BTUH	KCAL/H			
LDD2400L6	4DA3F47KE	168,000	42,339	139,000	35,030	123,400	31,099	109,600	27,621	95,600	24,093	82,800	20,867	60,200	15,171
LDD3000L6	4DL3F63KE	210,600	53,075	176,200	44,405	158,800	40,020	141,800	35,736	125,600	31,653	110,200	27,772	83,000	20,917
LDD4400L6	4DT3F76KE	248,400	62,601	208,600	52,571	188,400	47,480	168,400	42,440	149,400	37,651	130,600	32,913	96,200	24,244
LDD5400L6	6DL3F93KE	316,200	79,688	261,800	65,978	236,200	59,526	209,600	52,823	184,200	46,421	160,400	40,423	118,400	29,839
LDD6000L6	6DT3F11KE	357,800	90,171	294,400	74,194	265,200	66,835	235,400	59,325	207,000	52,167	180,600	45,514	135,200	34,073

### R-22 Capacity Data - Low Temperature

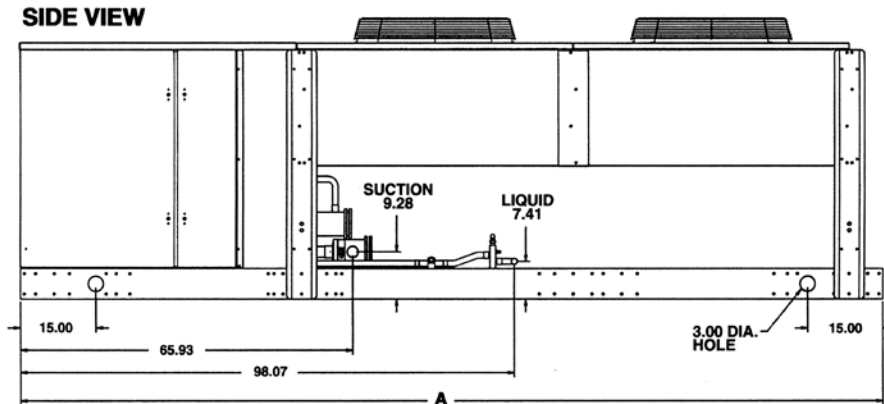
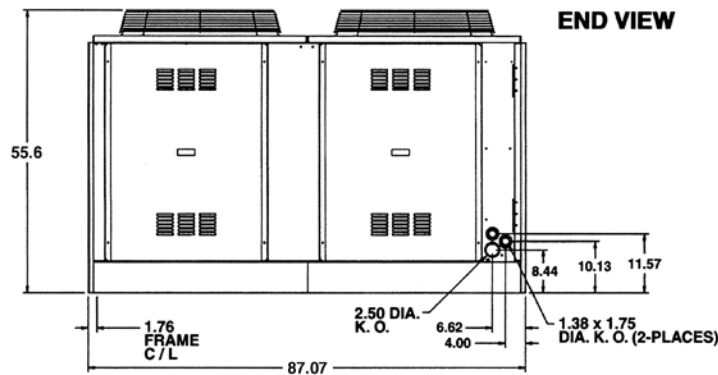
Model Number	Compressor (2 Each)	Capacity BTU/H @ 95°F Ambient		KCAL/H @ 35°C Ambient		Evaporator Temperature °F / °C									
		0°F/-17.8°C	-10°F/-23.3°C	-15°F/-26.1°C	-20°F/-28.9°C	-25°F/-31.7°C	-30°F/-34.4°C	-40°F/-40°C	BTUH	KCAL/H	BTUH	KCAL/H			
LDD2400L6	4DA3F47KE	163,800	41,280	125,000	31,502	107,600	27,117	92,200	23,236	77,400	19,506	63,600	16,028	41,600	10,484
LDD3000L6	4DL3F63KE	200,200	50,454	158,400	39,919	138,200	34,829	120,600	30,393	103,800	26,159	87,600	22,077	60,400	15,222
LDD4400L6	4DT3F76KE	238,200	60,030	187,800	47,329	164,800	41,532	143,200	36,089	123,200	31,048	105,800	26,663	75,000	18,901
LDD5400L6	6DL3F93KE	294,000	74,093	232,200	58,518	204,200	51,462	177,600	44,758	153,600	38,710	129,600	32,661	90,000	22,681
LDD6000L6	6DT3F11KE	349,400	88,054	277,000	69,808	243,600	61,391	212,200	53,478	183,800	46,321	156,200	39,365	110,800	27,923

\*Note: Demand Cooling Kits must be ordered for R-22 low temperature systems.

# Specifications and Dimensional Data

Model Number	Compressor (2 each)	Fan Data		Connections (in.)				Standard Receiver (90% Full)		Parallel Piped Receiver(90% Full)		Unit Dims.		Approx. Net Weight	
		No. Fans	Dia.	Standard (2 each)		Parallel Piped		lbs.	kg.	lbs.	kg.	A		lbs.	kg.
				Liquid	Suction	Liquid	Suction	R-22		R-22		In.	m		
								R-404A	R-404A	R-404A	R-404A				
LDD3000H2/M6/C6	3DS3R17ME	4	26"	7/8	1-5/8	1-1/8	2-1/8	142 123	64.4 55.8	216 188	98.0 85.3	144	3.7	3,160	1,433
LDD4000H2/M6/C6	4DA3R18ME	4	26"	7/8	1-5/8	1-1/8	2-1/8	142 123	64.4 55.8	216 188	98.0 85.3	144	3.7	3,160	1,433
LDD5000H2/M6/C6	4DH3R22ME	4	26"	1 1/8	2-1/8	1-3/8	2-5/8	142 123	64.4 55.8	309 269	140.2 122.0	144	3.7	3,230	1,465
LDD5200H2/M6/C6	4DH3R22ME	4	30"	1 1/8	2-1/8	1-3/8	2-5/8	142 123	64.4 55.8	309 269	140.2 122.0	171	4.3	3,520	1,597
LDD6000H2/M6/C6	4DJ3R28ME	4	30"	1 1/8	2-1/8	1-3/8	2-5/8	216 188	98.0 85.3	309 269	140.2 122.0	171	4.3	3,720	1,687
LDD7000H2/M6/C6	6DH3R35ME	6	30"	1 1/8	2-1/8	1-5/8	3-1/8	216 188	98.0 85.3	416 363	188.7 164.7	226	5.7	4,320	1,960
LDD7010H2	6DG3R37ME	6	30"	1 1/8	2-1/8	—	—	216 188	98.0 85.3	—	—	226	5.7	4,320	1,960
LDD8000H2/M6/C6	6DJ3R40ME	6	30"	1 1/8	2-1/8	1-5/8	3-1/8	216 188	98.0 85.3	416 363	188.7 164.7	226	5.7	4,760	2,159
LDD2400L6	4DA3F47KE	4	26"	7/8	1-5/8	1-1/8	2-1/8	93 81	42.2 36.7	216 188	98.0 85.3	144	3.7	3,000	1,361
LDD3000L6	4DL3F63KE	4	26"	7/8	1-5/8	1-1/8	2-5/8	93 81	42.2 36.7	216 188	98.0 85.3	144	3.7	3,000	1,361
LDD4400L6	4DT3F76KE	4	26"	7/8	2-1/8	1-1/8	2-5/8	93 81	42.2 36.7	216 188	98.0 85.3	144	3.7	3,000	1,361
LDD5400L6	6DL3F93KE	4	26"	1 1/8	2-1/8	1-3/8	3-1/8	142 123	64.4 55.8	309 269	140.2 122.0	171	4.3	3,770	1,710
LDD6000L6	6DT3F11ME	4	30"	1 1/8	2-1/8	1-3/8	3-1/8	142 123	64.4 55.8	309 269	140.2 122.0	171	4.3	3,770	1,710

Receiver size is per refrigeration circuit





### Remote Loads: One Contactor\*\*\*

Model Number	Compressor (2 Each)	Condensing Units									
		208-230 Volts									
		Compressor		Condenser		Air Defrost		Evap. Fan Amps**	Defrost Heaters Amps**	System MCA <sup>†</sup>	System MOP <sup>††</sup>
		RLA	LRA	No. Fans	FLA	System MCA <sup>†</sup>	System MOP <sup>††</sup>				
LDD3000 <sup>§</sup>	3DS3R17ME	59.6	275	4	16.0	136.4	175	25	96.0	195.9	225
LDD4000 <sup>§</sup>	4DA3R18ME	66	308	4	16.0	150.4	200	20	96.0	198.7	250
LDD5000 <sup>§</sup>	4DH3R22ME	82.2	428	4	16.0	181.9	250	–	–	–	–
LDD5200 <sup>§</sup>	4DH3R22ME	82.2	428	4	28.0	193.9	250	–	–	–	–
LDD6000 <sup>§</sup>	4DJ3R28ME	94	470	4	28.0	217.8	300	–	–	–	–
LDD7000 <sup>§</sup>	6DH3R35ME	107	565	6	42.0	258.3	350	–	–	–	–
LDD7010 <sup>§</sup>	6DG3R37ME	125	594	6	42.0	294.4	400	–	–	–	–
LDD8000 <sup>§</sup>	6DJ3R40ME	142	594	6	42.0	327.6	450	–	–	–	–
LDD2400L6	4DA3F47KE	45.2	220	4	16.0	108.0	125	15	48.0	138.0	175
LDD3000L6	4DL3F63KE	52.6	278	4	16.0	122.2	150	15	48.0	152.2	175
LDD4400L6	4DT3F76KE	66	374	4	16.0	145.8	200	15	48.0	175.8	225
LDD5400L6	6DL3F93KE	80.8	450	4	16.0	179.0	250	20	96.0	219.0	250
LDD6000L6	6DT3F11ME	95.6	470	4	28.0	221.0	300	20	96.0	261.0	300
Model Number	Compressor (2 Each)	460 Volts									
		Compressor		Condenser		Air Defrost		Evap. Fan Amps**	Defrost Heaters Amps**	System MCA <sup>†</sup>	System MOP <sup>††</sup>
		RLA	LRA	No. Fans	FLA	System MCA <sup>†</sup>	System MOP <sup>††</sup>				
		RLA	LRA	No. Fans	FLA	System MCA <sup>†</sup>	System MOP <sup>††</sup>	Evap. Fan Amps**	Defrost Heaters Amps**	System MCA <sup>†</sup>	System MOP <sup>††</sup>
LDD3000 <sup>§</sup>	3DS3R17ME	29	138	4	8.0	66.6	90	15	48.0	99.5	125
LDD4000 <sup>§</sup>	4DA3R18ME	33	154	4	8.0	75.2	100	15	48.0	105.2	125
LDD5000 <sup>§</sup>	4DH3R22ME	41.1	214	4	8.0	90.9	125	15	68.2	136.4	150
LDD5200 <sup>§</sup>	4DH3R22ME	41.1	214	4	14.0	96.9	125	15	68.2	136.4	150
LDD6000 <sup>§</sup>	4DJ3R28ME	47	235	4	14.0	108.9	150	20	77.0	156.7	175
LDD7000 <sup>§</sup>	6DH3R35ME	53.5	283	6	21.0	129.2	175	20	84.0	174.6	200
LDD7010 <sup>§</sup>	6DG3R37ME	62.5	297	6	21.0	147.2	200	20	92.0	192.6	225
LDD8000 <sup>§</sup>	6DJ3R40ME	71	297	6	21.0	163.8	225	20	96.0	205.8	250
LDD2400L6	4DA3F47KE	22.6	110	4	8.0	54.0	70	10	24.0	74.0	100
LDD3000L6	4DL3F63KE	26.3	139	4	8.0	61.1	80	15	40.0	91.1	110
LDD4400L6	4DT3F76KE	33	187	4	8.0	72.9	100	15	48.0	103.1	125
LDD5400L6	6DL3F93KE	40.4	225	4	8.0	89.5	125	15	48.0	119.5	150
LDD6000L6	6DT3F11ME	47.8	235	4	14.0	110.5	150	15	48.0	140.5	175

† Minimum Circuit Ampacity

†† Maximum Overcurrent Protection

§ H2/M6/C6

\*\* Loads are shown per compressor circuit.

\*\*\*Number of contactor per compressor

Contact factory for 575 volt electrical specification.

## Remote Loads: Two Contactors\*\*\*

Model Number	Compressor (2 Each)	Condensing Units									
		208-230 Volts									
		Compressor		Condenser		Air Defrost		Evap. Fan Amps**	Defrost Heaters Amps**	System MCA†	System MOP††
		RLA	LRA	No. Fans	FLA	System MCA†	System MOP††				
LDD3000 <sup>§</sup>	3DS3R17ME	59.6	275	4	16.0	136.4	175	25	96.0	195.9	225
LDD4000 <sup>§</sup>	4DA3R18ME	66	308	4	16.0	150.4	200	25	108.0	216.0	250
LDD5000 <sup>§</sup>	4DH3R22ME	82.2	428	4	16.0	181.9	250	30	136.4	272.7	300
LDD5200 <sup>§</sup>	4DH3R22ME	82.2	428	4	28.0	193.9	250	30	136.4	272.7	300
LDD6000 <sup>§</sup>	4DJ3R28ME	94	470	4	28.0	217.8	300	–	–	–	–
LDD7000 <sup>§</sup>	6DH3R35ME	107	565	6	42.0	258.3	350	–	–	–	–
LDD7010H2	6DG3R37ME	125	594	6	42.0	294.4	400	–	–	–	–
LDD8000 <sup>§</sup>	6DJ3R40ME	142	594	6	42.0	327.6	450	–	–	–	–
LDD2400L6	4DA3F47KE	45.2	220	4	16.0	108.0	125	22	64.0	152.0	175
LDD3000L6	4DL3F63KE	52.6	278	4	16.0	122.2	150	25	83.0	175.0	200
LDD4400L6	4DT3F76KE	66	374	4	16.0	145.8	200	25	105.0	210.1	250
LDD5400L6	6DL3F93KE	80.8	450	4	16.0	179.0	250	25	106.0	229.5	300
LDD6000L6	6DT3F11ME	95.6	470	4	28.0	221.0	300	30	159.1	318.2	350
Model Number	Compressor (2 Each)	460 Volts									
		Compressor		Condenser		Air Defrost		Evap. Fan Amps**	Defrost Heaters Amps**	System MCA†	System MOP††
		RLA	LRA	No. Fans	FLA	System MCA†	System MOP††				
		RLA	LRA	No. Fans	FLA	System MCA†	System MOP††	Evap. Fan Amps**	Defrost Heaters Amps**	System MCA†	System MOP††
LDD3000 <sup>§</sup>	3DS3R17ME	29	138	4	8.0	66.6	90	15	56.8	113.6	125
LDD4000 <sup>§</sup>	4DA3R18ME	33	154	4	8.0	75.2	100	15	56.8	113.6	125
LDD5000 <sup>§</sup>	4DH3R22ME	41.1	214	4	8.0	90.9	125	20	67.0	137.1	150
LDD5200 <sup>§</sup>	4DH3R22ME	41.1	214	4	14.0	96.9	125	20	79.5	159.1	175
LDD6000 <sup>§</sup>	4DJ3R28ME	47	235	4	14.0	108.9	150	20	77.0	156.7	175
LDD7000 <sup>§</sup>	6DH3R35ME	53.5	283	6	21.0	129.2	175	20	84.0	174.6	200
LDD7010H2	6DG3R37ME	62.5	297	6	21.0	147.2	200	20	92.0	192.6	225
LDD8000 <sup>§</sup>	6DJ3R40ME	71	297	6	21.0	163.8	225	20	96.0	205.8	250
LDD2400L6	4DA3F47KE	22.6	110	4	8.0	54.0	70	15	38.0	84.0	100
LDD3000L6	4DL3F63KE	26.3	139	4	8.0	61.1	80	15	48.0	96.5	110
LDD4400L6	4DT3F76KE	33	187	4	8.0	72.9	100	15	56.8	113.6	125
LDD5400L6	6DL3F93KE	40.4	225	4	8.0	89.5	125	15	64.0	128.3	150
LDD6000L6	6DT3F11ME	47.8	235	4	14.0	110.5	150	20	76.0	156.6	175

† Minimum Circuit Ampacity

†† Maximum Overcurrent Protection

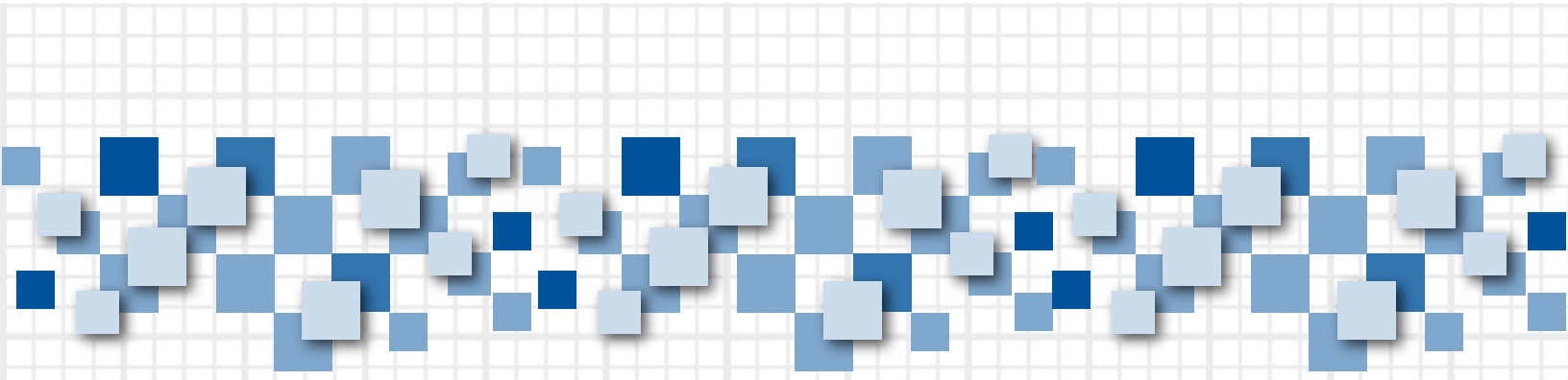
§ H2/M6/C6

\*\* Loads are shown per compressor circuit.

\*\*\*Number of contactor per compressor

Contact factory for 575 volt electrical specification.





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