

Indoor/Outdoor Air Cooled Condensing Units 1/2 to 5 Horsepower

LRC's LR Condensing Units are designed for demanding commercial applications such as fast food locations, convenience stores, and restaurants. Each LR Condensing Unit is built to exacting specifications and uses the latest technology so you can be assured that each unit is efficient and will provide long lasting service.

Each LRC LR Condensing Unit is designed to handle high ambient temperatures (up to 120°F) found in the southern and western portions of the U.S. Many Condensing Units must be special ordered to handle the extreme high temperatures found in cities such as Phoenix or Las Vegas. Call your LRC dealer today to find out how you can save money by installing a smaller LR Condensing Unit that is rated for higher temperatures. (For applications over 120°F, contact our Application Engineering Department.)

Indoor or outdoor condensing units are available using a wide variety of environmentally safer refrigerants, such as R-22 or R-404A/507.

LR Condensing Units can also be packaged with a LRC cooler or evaporator to create a complete refrigeration system.



Standard and Optional Equipment

Equipment	Outdoor Unit	Indoor Unit
Low pressure control	Low Temp - Adj. Std. Med Temp - Fixed Std.	Low Temp - Adj. Std. Med Temp - Fixed Std.
Crankcase heater	Standard	Optional
Fused disconnect	Optional	Optional
Defrost timer/contacter kit	Optional	Optional
Head pressure flooding control valve	Standard	Optional
Liquid line drier/filter	Standard	Standard
Sight glass	Standard	Standard
Receiver	Standard	Standard
Oversized receiver	Optional	Optional
Suction accumulator	Optional	Optional
Copper or coated coil	Optional	Optional
Oversized condenser	Optional	Optional

OUR UNCONDITIONAL GUARANTEE

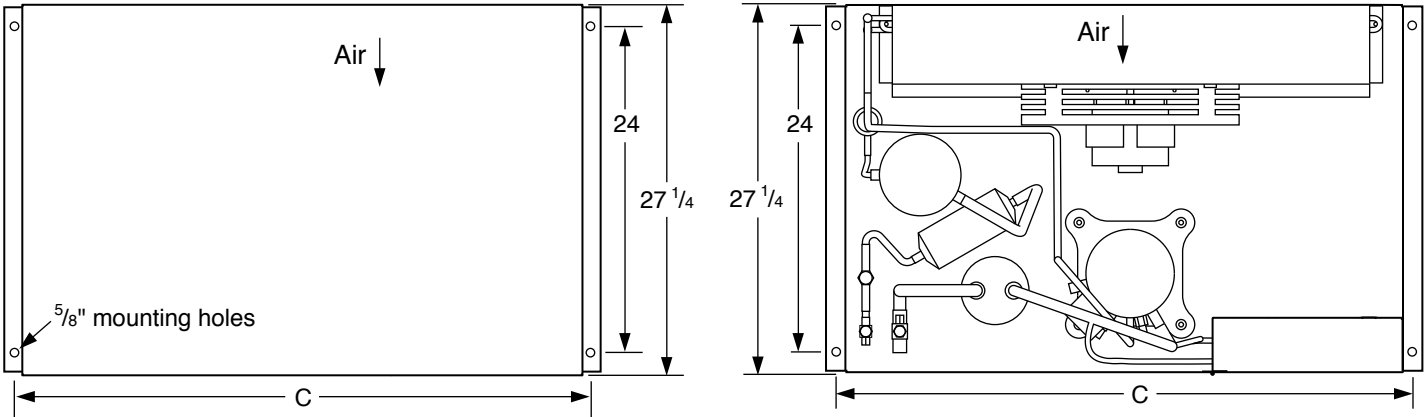
We're proud of the workmanship that goes into every LRC product. Because of our exacting design and manufacturing standards, and our thorough testing prior to shipping, we unconditionally guarantee our products to be free from manufacturing defects for one year. You can count on LRC Coil for quality heat transfer products.



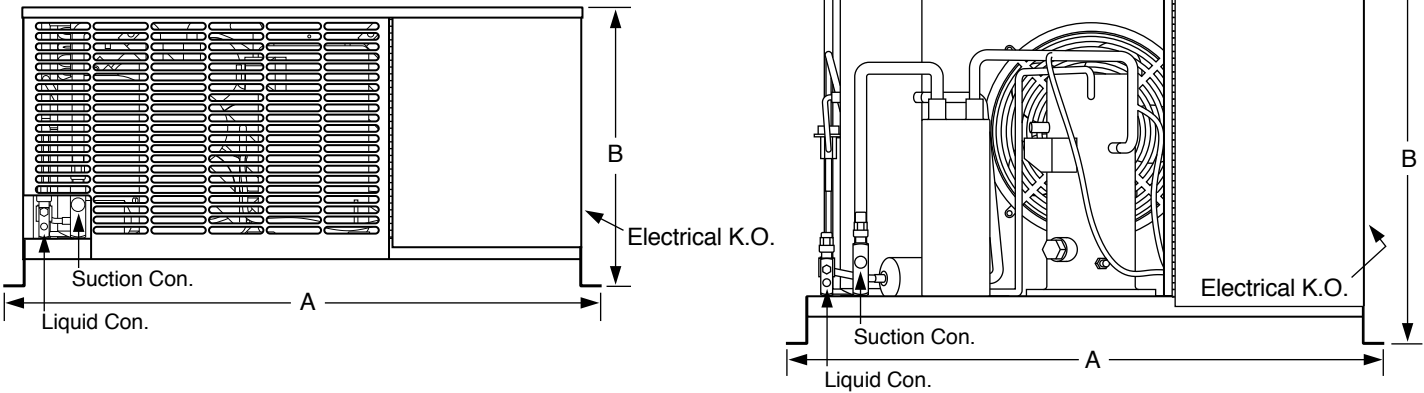
Condensing Unit Specifications

All measurements are in inches

Top View



Side View



Medium/Low Temperature Unit Specifications

<i>Medium Temperature, R-22</i>		Dimensions			Connections		Rec. Lbs. Ref.	Indoor Unit Wt.	Outdoor Unit Wt.
Model No.	Compressor	A	B	C	Liq.	Suct.			
LR*H-050-M22-**	ARE59C3	29 7/8	20 1/2	28 3/8	3/8	1/2	6	142	163
LR*H-075-M22-**	ART82C1	29 7/8	20 1/2	28 3/8	3/8	1/2	6	166	186
LR*H-100-M22-**	RS70C1	29 7/8	20 1/2	28 3/8	3/8	5/8	6	208	208
LR*H-150-M22-**	CR18KQ	43 7/8	20 1/2	42 3/8	3/8	5/8	10	173	208
LR*H-200-M22-**	CR24KQ	43 7/8	20 1/2	42 3/8	3/8	7/8	10	245	275
LR*H-300-M22-**	CR36KQ	43 7/8	28 1/2	42 3/8	3/8	7/8	22	263	289
LR*H-400-M22-**	CR47KQ	43 7/8	34 1/2	42 3/8	3/8	7/8	22	271	310
LR*H-500-M22-**	CRN5-0500	43 7/8	34 1/2	42 3/8	1/2	1 1/8	22	278	330
<i>Low Temperature, R-404A</i>									
LR*H-100-L44-**	CF04K6E	29 7/8	20 1/2	28 3/8	3/8	5/8	6	157	177
LR*H-150-L44-**	CF06K6E	29 7/8	20 1/2	28 3/8	3/8	5/8	10	161	182
LR*H-200-L44-**	CF09K6E	43 7/8	20 1/2	42 3/8	3/8	7/8	10	208	238
LR*H-300-L44-**	CF12K6E	43 7/8	28 1/2	42 3/8	1/2	1 1/8	10	231	247

Replace "*" with "O" for Outdoor Unit or "I" for Indoor Unit

Replace "***" with voltage/phase

Electrical Data - Hermetic Compressors, Medium Temp., R-22

Model No.	Comp.	Power Supply		Compressor		Fan Motor			Total Amps	MCA	MOPD
		Volts	Ph	RLA	LRA	FLA	HP	Qty.			
LR*H-050-M22-1151	ARE59C3-CAA	115V	1Ø	7.98	36.0	1.1	16W	1	10.1	12.1	20.1
LR*H-050-M22-2081	ARE59C3-CAV	208V	1Ø	4	25.9	.6	16W	1	5.6	6.6	10.6
LR*H-075-M22-1151	ART82C1-CAA	115V	1Ø	11.8	72	3.6	1/4	1	17.4	19.4	32.2
LR*H-075-M22-2081	ART82C1-CAV	208V	1Ø	5.9	30	1.8	1/4	1	8.7	10.2	16.1
LR*H-100-M22-2081	RS70C1-PFV	208V	1Ø	7	34.2	1.8	1/4	1	9.8	11.6	18.6□
LR*H-100-M22-2083	RS70C1-TFC	208V	3Ø	4.7	31.0	1.8	1/4	1	7.5	8.7	13.4
LR*H-150-M22-2081	CR18KQ-PFV	208V	1Ø	9.0	41	1.8	1/4	1	11.8	14.1	23.1
LR*H-150-M22-2083	CR18KQ-TF5	208V	3Ø	6.0	49	1.8	1/4	1	8.8	10.3	16.3
LR*H-200-M22-2081	CR24KQ-PFV	208V	1Ø	13.5	70.5	3.6	1/4	2	18.1	21.5	35.0
LR*H-200-M22-2083	CR24KQ-TF5	208V	3Ø	7.5	51	3.6	1/4	2	12.1	14	21.5
LR*H-300-M22-2081	CR36KQ-PFV	208V	1Ø	17.6	93	3.6	1/4	2	22.2	26.6	44.2□
LR*H-300-M22-2083	CR36KQ-TF5	208V	3Ø	12.4	68	3.6	1/4	2	17	20.1	32.5
LR*H-400-M22-2081	CR47KQ-PFV	208V	1Ø	24.6	132	4.4	3/4	1	30	36.2	61.0
LR*H-400-M22-2083	CR47KQ-TF5	208V	3Ø	16	97	4.4	3/4	1	21.4	25.4	41.4
LR*H-500-M22-2083	CRN5-0500-TF5	208V	3Ø	21.4	130	4.4	3/4	1	26.8	32.2	53.6

Replace "*" with "O" for Outdoor Unit or "I" for Indoor Unit

Contact factory for 460V units

Total Amps includes approximate 2 amp control circuit amperage at 115V, 1 amp at 230V, and .5 amp at 460V.

MCA – Minimum Circuit Ampacity does not include evaporator fans/defrost heaters. Electrical defrost units utilize blockout relays – use higher of loads (condensing unit or heaters) when sizing.

Electrical Data - Hermetic Compressors, Low Temp., R-404A

Model No.	Comp.	Power Supply		Compressor		Fan Motor			Total Amps	MCA	MOPD
		Volts	Ph	RLA	LRA	FLA	HP	Qty.			
LR*H-100-L44-2081	CF04K6E-PFV	208V	1Ø	9.6	59.2	1.8	1/4	1	12.4	14.8	24.6
LR*H-100-L44-2083	CF04K6E-TF5	208V	3Ø	6.4	52	1.8	1/4	1	9.2	10.8	17.2
LR*H-150-L44-2081	CF06K6E-PFV	208V	1Ø	11.4	59.2	1.8	1/4	1□	14.2	17.1□	28.5
LR*H-150-L44-2083	CF06K6E-TF5	208V	3Ø	7.0	52□	1.8	1/4	1	9.8	11.6	28
LR*H-200-L44-2081	CF09K6E-PFV	208V	1Ø	16.7	87	3.6	1/4	2	21.3	25.5	42.2
LR*H-200-L44-2083	CF09K6E-TF5	208V	3Ø	10.2	72.2	3.6	1/4	2	14.8	17.4	27.5
LR*H-300-L44-2081	CF12K6E-PFV□	208V	1Ø	20.5	105□	3.6	1/4	2	25.1	30.3	50.8
LR*H-300-L44-2083	CF12K6E-TF5	208V	3Ø	12.3	85	3.6	1/4	2	16.9	19	19.2

Replace "*" with "O" for Outdoor Unit or "I" for Indoor Unit

Contact factory for 460V units

Total Amps includes approximate 2 amp control circuit amperage at 115V, 1 amp at 230V, and .5 amp at 460V.

MCA – Minimum Circuit Ampacity does not include evaporator fans/defrost heaters. Electrical defrost units utilize blockout relays – use higher of loads (condensing unit or heaters) when sizing.

Product Number Nomenclature

LR	O	H	-	200	-	M	22	-	208	1
LRC <i>Coil</i>	<i>Application-</i> I – Indoor O – Outdoor	<i>Compressor-</i> H – Hermetic		<i>Capacity-</i> Nominal HP rating of compressor (050 [1/2 hp] through 500 [5 hp])		<i>Operating</i> <i>Temp-</i> M - Med L - Low	<i>Refrigerant-</i> 22 – R22 44 – R404a		<i>Voltage-</i> 115V 208/230V (Call for 460V)	<i>Phase-</i> 1Ø 3Ø

Performance Data - Hermetic Compressors, Medium Temp., R-22

Capacity BTUH @ 90°F Ambient		Suction Temperature °F						
		40°F	30°F	25°F	20°F	15°F	10°F	0°F
Model No.	Compressor							
LR*H-050-M22-**	ARE59C3	6,540	5,320	4,760	4,240	3,760	3,320	2,560
LR*H-075-M22-**	ART82C1	9,110	7,150	6,340	5,630	4,990	4,420	3,390
LR*H-100-M22-**	RS70C1	14,800	11,700	10,300	8,990	7,790	6,660	4,600
LR*H-150-M22-**	CR18KQ	21,000	16,200	14,100	12,100	10,300	8,610	5,830
LR*H-200-M22-**	CR24KQ	25,600	19,900	17,300	15,000	12,900	10,900	7,360
LR*H-300-M22-**	CR36KQ	41,600	33,000	29,000	25,400	21,900	18,600	12,400
LR*H-400-M22-**	CR47KQ	51,000	40,500	35,800	31,500	27,500	23,900	17,700
LR*H-500-M22-**	CRN5-0500	65,000	52,000	46,100	40,700	35,700	31,000	22,500

Capacity BTUH @ 95°F Ambient

LR*H-050-M22-**	ARE59C3	6,300	5,110	4,570	4,070	3,600	3,170	2,440
LR*H-075-M22-**	ART82C1	8,760	6,860	6,080	5,390	4,770	4,220	3,220
LR*H-100-M22-**	RS70C1	14,100	11,110	9,740	8,480	7,310	6,200	4,170
LR*H-150-M22-**	CR18KQ	20,000	15,300	13,200	11,300	9,550	7,950	5,260
LR*H-200-M22-**	CR24KQ	24,600	19,000	16,500	14,200	12,100	10,200	6,770
LR*H-300-M22-**	CR36KQ	40,100	31,600	27,700	24,100	20,700	17,400	11,300
LR*H-400-M22-**	CR47KQ	49,200	38,900	34,300	30,100	26,300	22,800	16,700
LR*H-500-M22-**	CRN5-0500	62,500	49,800	44,100	38,900	34,000	29,500	21,100

Capacity BTUH @ 100°F Ambient

LR*H-050-M22-**	ARE59C3	6,060	4,910	4,380	3,890	3,440	3,020	2,320
LR*H-075-M22-**	ART82C1	8,400	6,560	5,800	5,140	4,550	4,010	3,040
LR*H-100-M22-**	RS70C1	13,400	10,500	9,190	7,960	6,810	5,730	3,730
LR*H-150-M22-**	CR18KQ	19,000	14,500	12,400	10,600	8,840	7,290	4,670
LR*H-200-M22-**	CR24KQ	23,600	18,100	15,700	13,500	11,400	9,550	6,180
LR*H-300-M22-**	CR36KQ	38,600	30,200	26,400	22,800	19,500	16,200	10,100
LR*H-400-M22-**	CR47KQ	47,200	37,300	32,900	28,800	25,100	21,700	15,700
LR*H-500-M22-**	CRN5-0500	62,000	49,600	44,000	38,800	33,800	29,100	20,000

Capacity BTUH @ 110°F Ambient

LR*H-050-M22-**	ARE59C3	5,610	4,500	4,000	3,540	3,110	2,730	--
LR*H-075-M22-**	ART82C1	7,690	5,960	5,260	4,640	4,090	3,590	--
LR*H-100-M22-**	RS70C1	12,100	9,330	8,090	6,930	5,840	4,810	--
LR*H-150-M22-**	CR18KQ	16,900	12,700	10,800	9,000	7,390	5,930	--
LR*H-200-M22-**	CR24KQ	21,500	16,300	14,000	11,900	10,000	8,220	--
LR*H-300-M22-**	CR36KQ	35,400	27,300	23,700	20,200	16,900	13,700	--
LR*H-400-M22-**	CR47KQ	43,400	34,100	30,000	26,200	22,700	19,500	--
LR*H-500-M22-**	CRN5-0500	57,000	45,500	40,200	35,200	30,500	25,800	--

Capacity BTUH @ 120°F Ambient

LR*H-050-M22-**	ARE59C3	5,130	4,080	3,610	3,180	2,780	--	--
LR*H-075-M22-**	ART82C1	6,870	5,290	4,650	4,090	3,590	--	--
LR*H-100-M22-**	RS70C1	10,800	8,280	7,130	6,040	5,020	4,040	--
LR*H-150-M22-**	CR18KQ	14,900	10,900	9,090	7,440	5,930	4,560	--
LR*H-200-M22-**	CR24KQ	19,300	14,500	12,400	10,400	8,600	6,920	--
LR*H-300-M22-**	CR36KQ	32,100	24,400	20,900	17,500	14,300	11,100	--
LR*H-400-M22-**	CR47KQ	39,700	31,000	27,200	23,700	20,400	17,300	--
LR*H-500-M22-**	CRN5-0500	52,500	41,400	36,400	31,500	26,800	22,200	--

Replace "*" with "O" for Outdoor Unit or "I" for Indoor Unit

Replace "***" with voltage/phase

Performance Data - Hermetic Compressors, Low Temp., R-404A

Capacity BTUH @ 90°F Ambient		Suction Temperature °F					
		0°F	-5°F	-10°F	-20°F	-25°F	-30°F
LR*H-100-L44-**	CF04K6E	7,760	6,560	5,500	3,730	2,990	2,350
LR*H-150-L44-**	CF06K6E	12,300	10,600	9,020	6,270	5,100	4,080
LR*H-200-L44-**	CF09K6E	17,900	15,600	13,400	9,590	7,920	6,410
LR*H-300-L44-**	CF12K6E	22,500	19,700	17,100	12,600	10,600	8,640

Capacity BTUH @ 95°F Ambient

LR*H-100-L44-**	CF04K6E	7,200	6,060	5,060	3,390	2,710	2,100
LR*H-150-L44-**	CF06K6E	11,400	9,820	8,330	5,720	4,620	3,660
LR*H-200-L44-**	CF09K6E	16,700	14,500	12,400	10,500	7,240	5,820
LR*H-300-L44-**	CF12K6E	21,100	18,400	16,000	11,600	9,700	7,850

Capacity BTUH @ 100°F Ambient

LR*H-100-L44-**	CF04K6E	6,620	5,550	4,610	3,050	2,420	1,860
LR*H-150-L44-**	CF06K6E	10,600	9,070	7,650	5,190	4,160	3,270
LR*H-200-L44-**	CF09K6E	15,500	13,400	11,500	8,060	6,570	5,230
LR*H-300-L44-**	CF12K6E	19,700	17,100	14,800	10,700	8,840	7,070

Capacity BTUH @ 110°F Ambient

LR*H-100-L44-**	CF04K6E	5,400	4,470	3,660	2,360	1,840	1,390
LR*H-150-L44-**	CF06K6E	8,900	7,560	6,320	4,180	3,300	2,550
LR*H-200-L44-**	CF09K6E	13,200	11,300	9,620	6,600	5,290	4,130
LR*H-300-L44-**	CF12K6E	16,800	14,500	12,500	8,830	7,160	5,550

Capacity BTUH @ 120°F Ambient

LR*H-100-L44-**	CF04K6E	4,100	3,330	2,680	1,660	--	--
LR*H-150-L44-**	CF06K6E	7,210	6,070	5,030	3,260	--	--
LR*H-200-L44-**	CF09K6E	11,000	9,330	6,450	5,210	--	--
LR*H-300-L44-**	CF12K6E	13,900	12,000	10,200	7,070	--	--

Replace "*" with "O" for Outdoor Unit or "I" for Indoor Unit

Replace "**" with voltage/phase

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Our Application Engineers can help you design the system you need. Call us today, 562-944-1969, and we'll help you get the right LRC product for your project.

Features and Options

Indoor/Outdoor Units

Standard Features

Indoor Units -

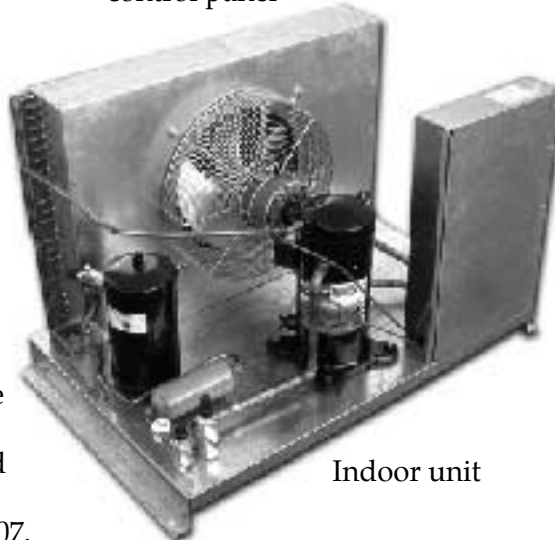
- Large electrical control panel for easy access to power connections and control circuits
- Color coded/labeled wires make wiring connections easy
- Oversized air cooled condenser for high ambient conditions - up to 120°F (call factory for applications over 120°F)
- Staggered coils with copper tubing expanded into aluminum collared fins
- Copeland hermetic compressor
- Factory installed high/low pressure controls
- Piping and connections designed to minimize vibration and stress
- Raised galvanized steel base
- Fans matched with motors maximize air movement and cooling
- Units use R2-2 or R-404A/507. (Other refrigerants available; consult factory for more information.)
- Ample space available for optional equipment
- ETL listed

Outdoor Units -

- Outdoor units include all indoor unit features
- Low ambient units available
- Durable, rustproof aluminum cabinet on raised mounting flanges
- Hinged electrical access door and top access panel ensures easy access to all components



Outdoor unit wiring control panel



Indoor unit



Top view of outdoor unit with access panel open

- Crankcase heater
- Filter/drier installed on liquid line
- Sight glass with moisture indicator
- Electric defrost timer on low temperature units
- Each unit is pressure tested to eliminate leaks

Options Available

- Outdoor housing for indoor units
- Fan guards for outdoor units
- Stainless steel cabinets, and/or epoxy, polyester, or phenolic coatings available for additional corrosion protection
- Factory installed liquid and suction filters
- Factory installed air or electric defrost timer
- Shut off valve in the discharge line for easier changes
- Extended mounting flanges for raised installations
- Floating head pressure controls
- Suction accumulator
- Mild ambient fan cycle control
- Fused disconnect

Our Application Engineers can help you design the system you need. Call us today, 562-944-1969, and we'll help you get the right LRC product for your project.

At LRC, we are continuously working to improve our products, therefore, we reserve the right to make changes without notice.