evapco

Model #: LRC131

Serial #: W037420

2003 130 Tons

LSC-E/LRC

EVAPORATIVE CONDENSERS



L: 15' 3" W: 5' 1" H: 7' 4"



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LSC-E/LRC SELECTION PROCEDURE

Table 1 - HCFC-22 and HFC-134a Heat Rejection Factors

Conde Pres.		Cond. Temp.						Wet	Bulb T	empera	nture, ('	°F)								
HCFC- 22	HFC- 134a	°F	50	55	60	62	64	66	68	70	72	74	75	76	77	78	80	82	84	86
156	95	85	1.10	1.22	1.39	1.50	1.61	1.75	1.93	2.13	2.42	2.78	3.02	3.29	3.64	4.00	-	-	-	-
168	104	90	.93	1.02	1.14	1.21	1.28	1.36	1.45	1.57	1.71	1.89	2.00	2.12	2.25	2.38	2.85	3.50	-	-
182	114	95	.80	.87	.95	1.00	1.05	1.10	1.15	1.22	1.31	1.40	1.45	1.50	1.56	1.64	1.82	2.07	2.37	2.77
196	124	100	.71	.76	.82	.85	.88	.91	.94	.98	1.03	1.09	1.12	1.15	1.20	1.24	1.34	1.46	1.63	1.82
211	135	105	.63	.66	.70	.72	.75	.77	.80	.83	.87	.91	.93	.95	.97	1.00	1.06	1.13	1.23	1.35
226	146	110	.56	.59	.62	.64	.65	.67	.69	.71	.74	.77	.78	.80	.82	.84	.88	.93	.98	1.04

Table 2 - Ammonia (R-717) Heat Rejection Factors

Condensing Pres.	Cond. Temp. Wet Bulb Temperature, (°F)																		
psig	°F	50	55	60	62	64	66	68	70	72	74	75	76	77	78	80	82	84	86
152	85	.98	1.09	1.24	1.34	1.44	1.56	1.72	1.90	2.16	2.48	2.70	2.94	3.25	3.57	-	-	-	-
166	90	.83	.91	1.02	1.08	1.14	1.21	1.29	1.40	1.53	1.69	1.79	1.89	2.01	2.12	2.54	3.12	-	-
181	95	.71	.78	.85	.89	.94	.98	1.03	1.09	1.17	1.25	1.29	1.34	1.39	1.47	1.63	1.85	2.12	2.47
185	96.3	.69	.75	.82	.86	.90	.94	.98	1.03	1.10	1.18	1.22	1.26	1.31	1.37	1.51	1.71	1.94	2.25
197	100	.63	.68	.73	.76	.79	.81	.84	.87	.92	.97	1.00	1.03	1.07	1.11	1.20	1.30	1.46	1.63
214	105	.56	.59	.62	.64	.67	.69	.71	.74	.78	.81	.83	.85	.87	.89	.95	1.01	1.10	1.21
232	110	.50	.53	.55	.57	.58	.60	.62	.63	.66	.69	.70	.71	.73	.75	.79	.83	.87	.93

Table 3 - Unit Heat Rejection

		LSC-E M	odels		
Model	MBH Base	Model	MBH Base	Model	MBH Base
LSC-36E-1g	529	LSC-225E-1g	3,308	LSC-650E-1g	9,555
LSC-41E-1g	603	LSC-240E-1g	3,528	LSC-690E-1g	10,143
LSC-48E-1g	706	LSC-250E-1g	3,675	LSC-720E-1g	10,584
LSC-54E-1g	794	LSC-280E-1g	4,116	LSC-755E-1g	11,099
LSC-65E-1g	956	LSC-300E-1g	4,410	LSC-800E-1g	11,760
LSC-70E-1g	1,029	LSC-315E-1g	4,631	LSC-805E-1g	11,834
LSC-75E-1g	1,103	LSC-335E-1g	4,925	LSC-860E-1g	12,642
LSC-80E-1g	1,176	LSC-355E-1g	5,219	LSC-900E-1g	13,230
LSC-90E-1g	1,323	LSC-370E-1g	5,439	LSC-960E-1g	14,112
LSC-100E-1g	1,470	LSC-385E-1g	5,660	LSC-1000E-1g	14,700
LSC-110E-1g	1,617	LSC-400E-1g	5,880	LSC-1030E-1g	15,141
LSC-120E-1g	1,764	LSC-430E-1g	6,321	LSC-1100E-1g	16,170
LSC-135E-1g	1,985	LSC-450E-1g	6,615	LSC-1180E-1g	17,346
LSC-150E-1g	2,205	LSC-480E-1g	7,056	LSC-1250E-1g	18,375
LSC-155E-1g	2,279	LSC-500E-1g	7,350	LSC-1310E-1g	19,257
LSC-170E-1g	2,499	LSC-515E-1g	7,571	LSC-1380E-1g	20,286
LSC-185E-1g	2,720	LSC-550E-1g	8,085	LSC-1440E-1g	21,168
LSC-200E-1g	2,940	LSC-500E-1g	8,673	LSC-1510E-1g	22,197
LSC-210E-1g	3,087	LSC-625E-1g	9,188	LSC-1610E-1g	23,667

		LRC M	odels		
Model	MBH Base	Model	MBH Base	Model	MBH Base
LRC-25-1g	368	LRC-101-1g	1,485	LRC-213-1g	3,131
LRC-27-1g	397	LRC-108-1g	1,588	LRC-225-1g	3,308
LRC-29-1g	426	LRC-114-1g	1,676	LRC-227-1g	3,337
LRC-35-1g	515	LRC-116-1g	1,705	LRC-233-1g	3,425
LRC-38-1g	559	LRC-128-1g	1,882	LRC-240-1g	3,528
LRC-42-1g	617	LRC-131-1g	1,926	LRC-246-1g	3,616
LRC-48-1g	706	LRC-140-1g	2,058	LRC-249-1g	3,660
LRC-51-1g	750	LRC-155-1g	2,279	LRC-255-1g	3,749
LRC-58-1g	853	LRC-174-1g	2,558	LRC-269-1g	3,954
LRC-65-1g	956	LRC-183-1g	2,690	LRC-287-1g	4,219
LRC-72-1g	1,058	LRC-188-1g	2,764	LRC-300-1g	4,410
LRC-76-1g	1,117	LRC-190-1g	2,793	LRC-321-1g	4,719
LRC-84-1g	1,235	LRC-210-1g	2,955	LRC-336-1g	4,939
LRC-91-1g	1,338	LRC-211-1g	3,102	LRC-361-1g	5,307
				LRC-379-1g	5,571

Note: Table 3 presents only the standard model selections. Other models exist for special horsepower or layout applications. Please consult the factory or EVAPCO Representative for the special situations.



LSC-E/LRC SELECTION PROCEDURE

Table 5 - HCFC-22 and HFC-134a Capacity Factors

Conde Pres.	ensing psig	Cond. Temp.						We	t Bulb T	empera	ature, ('	°F)								
HCFC- 22	HFC 134a	°F	50	55	60	62	64	66	68	70	72	74	75	76	77	78	80	82	84	86
156	95	85	1.05	1.16	1.32	1.43	1.53	1.66	1.83	2.02	2.30	2.64	2.87	3.13	3.46	3.80	-	-	-	-
168	104	90	.90	.98	1.10	1.17	1.24	1.31	1.40	1.52	1.65	1.82	1.93	2.05	2.17	2.30	2.75	3.38	-	-
182	114	95	.78	.85	.93	.98	1.02	1.07	1.12	1.19	1.28	1.37	1.42	1.46	1.52	1.60	1.78	2.02	2.31	2.70
196	124	100	.70	.75	.81	.84	.87	.90	.93	.97	1.02	1.08	1.11	1.14	1.19	1.23	1.33	1.44	1.61	1.80
211	135	105	.63	.66	.70	.72	.75	.77	.80	.83	.87	.91	.93	.95	.97	1.00	1.06	1.13	1.23	1.35
226	146	110	.57	.60	.63	.65	.66	.68	.70	.72	.75	.78	.79	.81	.83	.85	.89	.94	.99	1.05

Suction Temp. °F		-20°	-10°	-0°	+10°	+20°	+30°	+40°	+50°
Suction Press.	HCFC-22	10.1	16.5	24.0	32.8	43.0	54.9	68.5	84.0
(psig)	HFC-134a	-1.8	1.9	6.5	11.9	18.4	26.1	35.0	45.4
Capacity Factor		1.22	1.17	1.13	1.09	1.06	1.03	1.00	0.97

Table 6 - Ammonia (R-717) Capacity Factors

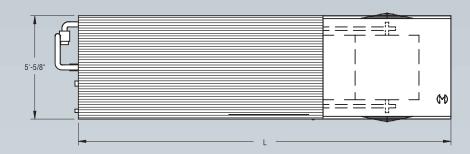
Condensing Pres.	Cond. Temp.		Wet Bulb Temperature, (°F)																
psig	°F	50	55	60	62	64	66	68	70	72	74	75	76	77	78	80	82	84	86
152	85	.99	1.09	1.25	1.34	1.44	1.57	1.73	1.91	2.17	2.49	2.71	2.95	3.26	3.59	-	-	-	-
166	90	.84	.93	1.03	1.10	1.16	1.23	1.32	1.42	1.55	1.71	1.81	1.92	2.04	2.16	2.59	3.17	-	-
181	95	.74	.80	.87	.92	.97	1.01	1.06	1.12	1.21	1.29	1.33	1.38	1.44	1.51	1.68	1.91	2.18	2.55
185	96.3	.72	.78	.85	.89	.93	.97	1.01	1.07	1.14	1.22	1.26	1.30	1.35	1.41	1.56	1.76	2.01	2.33
197	100	.66	.71	.76	.79	.82	.85	.87	.91	.96	1.01	1.04	1.07	1.12	1.15	1.25	1.36	1.52	1.69
214	105	.59	.62	.66	.68	.71	.73	.75	.78	.82	.86	.88	.90	.91	.94	1.00	1.07	1.16	1.27
232	110	.53	.56	.59	.61	.62	.64	.66	.68	.71	.73	.74	.76	.78	.80	.84	.89	.93	.99

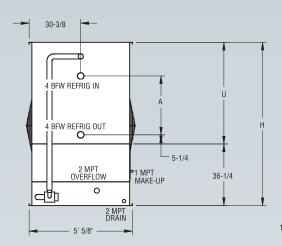
Suction Temp. °F	-30°	-20°	-10°	0°	+10°	+20°	+30°	+40°
Suction Press. (psig)	-1.6	3.6	9.0	15.7	23.8	33.5	45.0	58.6
Capacity Factor	1.18	1.14	1.10	1.07	1.03	1.00	0.97	0.95

Note: Table 4 presents only the standard model selections. Other models exist for special horsepower or layout applications. Please consult the factory or EVAPCO Representative for the special situations.



Engineering Data & Dimensions Models LRC-76-1g to 246-1g





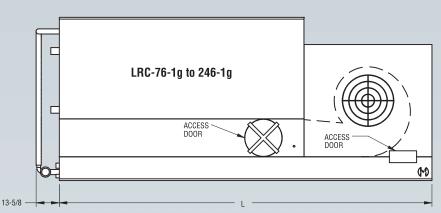


Table 8 Engineering Data

		Fa	ans	Wei	ghts	Refrigerant	Coil	Spray	Pump	Re	emote P	ımp		Dimer	sions	
Model No.*	R-717 Tons*	HP**	CFM	Shipping	Operating	Charge lbs. [†]	Volume ft ³	НР	GPM	Gallons Req'd***	Conn. Size	Operating Weight	Height H	Upper U	Coil A	Length L
LRC-76-1g	54	5	16,030	3,900	5,730	65	9	1	160	120	6"	4,250	6' 7-3/4"	43-1/2"	19-1/2"	12' 2-7/8"
LRC-84-1g	60	7-1/2	18,370	3,940	5,770	65	9	1	160	120	6"	4,290	6' 7-3/4"	43-1/2"	19-1/2"	12' 2-7/8"
LRC-91-1g	65	5	15,730	4,390	6,250	85	11	1	160	120	6"	4,770	7' 3-1/4"	51"	27"	12' 2-7/8"
LRC-101-1g	72	7-1/2	18,010	4,480	6,330	85	11	1	160	120	6"	4,850	7' 3-1/4"	51"	27"	12' 2-7/8"
LRC-114-1g	81	7-1/2	17,650	4,980	6,860	105	14	1	160	120	6"	5,380	7' 10-3/4"	58-1/2"	34-1/2"	12' 2-7/8"
LRC-108-1g	77	7-1/2	22,450	5,040	7,790	95	13	1-1/2	255	170	6"	5,630	6' 7-3/4"	43-1/2"	19-1/2"	15' 2-1/4"
LRC-116-1g	82	10	24,690	5,080	7,820	95	13	1-1/2	255	170	6"	5,660	6' 7-3/4"	43-1/2"	19-1/2'	15' 2-1/4"
LRC-128-1g	91	15	28,280	5,190	7,930	95	13	1-1/2	255	170	6"	5,770	6' 7-3/4"	43-1/2"	19-1/2"	15' 2-1/4"
LRC-131-1g	93	7-1/2	22,000	5,790	8,580	125	17	1-1/2	255	170	6"	6,420	7' 3-1/4"	51"	27"	15' 2-1/4"
LRC-140-1g	99	10	24,240	5,830	8,620	125	17	1-1/2	255	170	6"	6,460	7' 3-1/4"	51"	27"	15' 2-1/4"
LRC-155-1g	110	15	27,740	5,940	8,730	125	17	1-1/2	255	170	6"	6,570	7' 3-1/4"	51"	27"	15' 2-1/4"
LRC-174-1g	123	15	27,160	6,740	9,570	150	21	1-1/2	255	170	6"	7,410	7' 10-3/4"	58-1/2"	34-1/2"	15' 2-1/4"
LRC-183-1g	130	15	26,620	7,410	10,290	180	25	1-1/2	255	170	6"	8,130	8' 6-1/4"	66"	42"	15' 2-1/4"
LRC-190-1g	135	20	34,220	7,260	11,070	165	22	2	345	240	8"	8,210	7' 4-1/4"	52"	27"	18' 2-5/8"
LRC-201-1g	143	25	36,860	7,270	11,080	165	22	2	345	240	8"	8,220	7' 4-1/4"	52"	27"	18' 2-5/8"
LRC-213-1g	151	20	33,500	8,250	12,120	200	28	2	345	240	8"	9,260	7' 11-3/4"	59-1/2"	34-1/2"	18' 2-5/8"
LRC-225-1g	160	25	36,080	8,260	12,130	200	28	2	345	240	8"	9,270	7' 11-3/4"	59-1/2"	34-1/2"	18' 2-5/8"
LRC-233-1g	165	30	38,360	8,280	12,150	200	28	2	345	240	8"	9,290	7' 11-3/4"	59-1/2"	34-1/2"	18' 2-5/8"
LRC-246-1g	174	30	37,580	9,210	13,120	240	33	2	345	240	8"	10,270	8' 7-1/4"	67"	42"	18' 2-5/8"

Tons at standard conditions: HCFC-22 and HFC-134a. 105°F condensing, 40°F suction and 78°F W.B.; ammonia 96.3°F condensing, 20°F suction and 78°F W.B. For dry operation or for external static pressure up to 1/2" use next larger size fan motor.

Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation.

^{(12&}quot; would normally be sufficient.)
Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.
Dimensions are subject to change. Do not use for pre-fabrication.