

LCH (Copper Tube-Alum.Fin)
AIR-COOLED CONDENSER

φ7mm CONDENSER



LUTHER-BACH HEAT EXCHANGER CO.,LTD

BASIC VERSION

PRODUCTS FEATURES

LCH series Air-cooled condenser is a radiator in Freon refrigerating equipment, which used in air cooling.

LCH series Air-cooled condenser makes use of lateral air blows.

CASING

The shell is made of quality steel plate; Sprayed plastic surface is anti-corrosive, and its appearance is handsome. After plastic-sprayed treatment, the shell is anti-corrosive and endurable.

Optional: Galvanized Steel, Aluminum, Stainless Steel Sheet for High resistance to corrosion.

COPPER TUBE

φ7mm Inner Grooved Copper tube
High efficiently.

FANS

The design width of this cooling fan is reasonable, space between fan blade and aluminum fin is larger than 1/3 diameter of fan blade in order to ensure sufficient windward area.

Optional: Long-distance air supply ducts can be used according to customers' requirements.

HEAT EXCHANGER

Coiled pipes are mechanical expanding tubes in staggered arrangement; therefore, copper tubes and fins are Combined closely, and ensure good effect of heat exchange.

Punched holes of aluminum fins are extending along "L" row. after tube expansion, they are connected closely, and thus ensure high efficiency of heat exchange.

Heat-exchanging coiled pipes are highly efficient, clean and dry.

MOTOR

All condensers use motors that boast large air volume and low rotating speed. Therefore, the condensers have low noise and nice appearance, and can be widely used in those refrigerating equipment that have strict requirements of noise to ensure the high level of quality our customers expect will be met.

TYPE DESIGNATION CODE

1	2	3	4	5	6	7	8
LC	H	10	19	35	2	A	2.1

1. Luther-Bach Condenser
2. Code For Horizontal Discharge
3. Nominal Heat Exchanger Capacity (KW)
4. Nominal Heat Exchanger Area (m²)

5. Fan motor Size (350mm)
6. Fan motor Qty (2 PCS)
7. A: φ7mm Version
8. Fin spacing: 2.1mm

TECHNICAL DATA OF $\phi 7\text{mm}$ LCH CONDENSER

Model	Main parameters			Parameter of fan motor						Caliber of connecting tube	
	Heat removal quantity $\Delta t=15\text{k(kw)}$	Heat exchange area	Tube Volume	Diameter of fan blade	Qty	Air volume	Power	Air Speed	Voltage	Inlet	Outlet
	KW	m ²	L	ϕmm	N	m ³ /h	KW	m/s	V	ϕmm	ϕmm
LCH-1/2-201-A2.1	0.66	2	0.19	200	1	278	0.04	1.52	220	$\phi 7$	$\phi 7$
LCH-1/3-201-A2.1	0.80	3	0.30	200	1	255	0.04	1.28	220	$\phi 7$	$\phi 7$
LCH-2/3-251-A2.1	1.26	3	0.28	250	1	641	0.05	2.24	220	$\phi 7$	$\phi 7$
LCH-2/4-251-A2.1	1.57	4	0.41	250	1	578	0.05	2.02	220	$\phi 7$	$\phi 7$
LCH-3/5-301-A2.1	2.52	5	0.53	300	1	1466	0.09	2.99	380	$\phi 12$	$\phi 12$
LCH-4/7-301-A2.1	3.18	7	0.80	300	1	1314	0.09	2.68	380	$\phi 12$	$\phi 12$
LCH-4/9-301-A2.1	3.63	9	1.00	300	1	1202	0.09	2.45	380	$\phi 12$	$\phi 12$
LCH-5/9-301-A2.1	4.70	9	1.17	300	1	1955	0.13	2.87	380	$\phi 16$	$\phi 12$
LCH-6/13-351-A2.1	5.38	13	1.50	350	1	1820	0.13	2.67	380	$\phi 16$	$\phi 12$
LCH-10/19-352-A2.1	9.46	19	2.27	350	2	3909	0.26	2.87	380	$\phi 19$	$\phi 16$
LCH-11/25-352-A2.1	10.76	25	2.94	350	2	3639	0.26	2.67	380	$\phi 19$	$\phi 16$
LCH-15/28-353-A2.1	14.14	28	3.33	350	3	5864	0.39	2.87	380	$\phi 19$	$\phi 19$
LCH-17/37-353-A2.1	16.25	37	4.40	350	3	5458	0.39	2.67	380	$\phi 22$	$\phi 19$
LCH-19/37-354-A2.1	18.92	37	4.94	350	4	7819	0.52	2.87	380	$\phi 28$	$\phi 22$
LCH-22/50-354-A2.1	21.53	50	6.29	350	4	7278	0.52	2.67	380	$\phi 28$	$\phi 22$
LCH-29/56-356-A2.1	28.44	56	7.48	350	6	11728	0.77	2.87	380	$\phi 35$	$\phi 28$
LCH-33/75-356-A2.1	32.50	75	9.51	350	6	10971	0.77	2.67	380	$\phi 35$	$\phi 28$
LCH-8/14-401-A2.1	7.24	14	1.73	400	1	3060	0.18	3.01	380	$\phi 16$	$\phi 16$
LCH-9/19-401-A2.1	8.27	19	2.29	400	1	2833	0.18	2.79	380	$\phi 19$	$\phi 16$
LCH-15/28-402-A2.1	14.50	28	3.63	400	2	6119	0.36	3.01	380	$\phi 28$	$\phi 22$
LCH-17/37-402-A2.1	16.60	37	4.42	400	2	5665	0.36	2.79	380	$\phi 22$	$\phi 22$
LCH-22/42-403-A2.1	21.85	42	5.14	400	3	9179	0.54	3.01	380	$\phi 28$	$\phi 22$
LCH-25/56-403-A2.1	24.96	56	6.81	400	3	8498	0.54	2.79	380	$\phi 28$	$\phi 28$
LCH-29/56-404-A2.1	28.99	56	7.68	400	4	12239	0.72	3.01	380	$\phi 35$	$\phi 28$
LCH-34/74-404-A2.1	33.21	74	9.70	400	4	11330	0.72	2.79	380	$\phi 35$	$\phi 28$
LCH-44/84-406-A2.1	43.69	84	11.51	400	6	18358	1.08	3.01	380	$\phi 42$	$\phi 35$
LCH-50/112-406-A2.1	49.93	112	14.55	400	6	16995	1.08	2.79	380	$\phi 42$	$\phi 35$
LCH-11/20-451-A2.1	10.49	20	2.51	450	1	4435	0.25	3.01	380	$\phi 19$	$\phi 16$
LCH-13/27-451-A2.1	12.12	27	3.31	450	1	4173	0.25	2.83	380	$\phi 19$	$\phi 19$
LCH-22/41-452-A2.1	21.02	41	5.10	450	2	8871	0.50	3.01	380	$\phi 28$	$\phi 22$
LCH-25/54-452-A2.1	24.39	54	6.75	450	2	8347	0.50	2.83	380	$\phi 28$	$\phi 28$
LCH-32/61-453-A2.1	31.70	61	7.71	450	3	13306	0.75	3.01	380	$\phi 35$	$\phi 28$
LCH-37/81-453-A2.1	36.71	81	9.91	450	3	12520	0.75	2.83	380	$\phi 28$	$\phi 28$
LCH-43/81-454-A2.1	42.03	81	11.15	450	4	17741	1.00	3.01	380	$\phi 35$	$\phi 35$
LCH-49/108-454-A2.1	48.77	108	14.65	450	4	16693	1.00	2.83	380	$\phi 42$	$\phi 35$
LCH-64/122-456-A2.1	63.40	122	16.69	450	6	26612	1.50	3.01	380	$\phi 42$	$\phi 42$
LCH-74/162-456-A2.1	73.42	162	22.33	450	6	25040	0.41	2.83	380	$\phi 54$	$\phi 42$

TECHNICAL DATA OF $\phi 7\text{mm}$ LCH CONDENSER

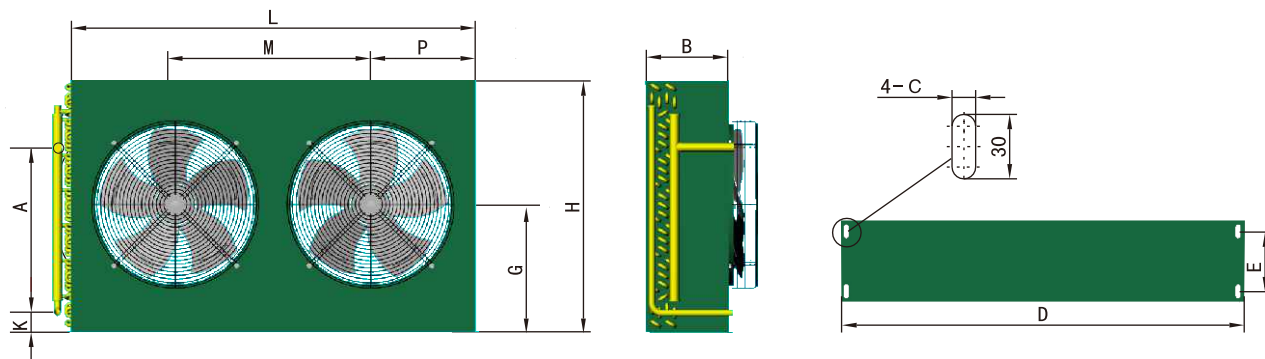
Model	Main parameters			Parameter of fan motor						Caliber of connecting tube	
	Heat removal quantity $\Delta t=15\text{k(kw)}$	Heat exchange area	Tube Volume	Diameter of fan blade	Qty	Air volume	Power	Air Speed	Voltage	Inlet	Outlet
	KW	m ²	L	ϕmm	N	m ³ /h	KW	m/s	V	ϕmm	ϕmm
LCH-15/28-501-A2.1	14.26	28	3.47	500	1	5982	0.41	2.98	380	$\phi 22$	$\phi 19$
LCH-17/37-501-A2.1	16.53	37	4.47	500	1	5678	0.83	2.83	380	$\phi 22$	$\phi 22$
LCH-29/55-502-A2.1	28.59	55	7.16	500	2	11965	0.83	2.98	380	$\phi 35$	$\phi 28$
LCH-34/74-502-A2.1	33.21	74	9.16	500	2	11356	0.83	2.83	380	$\phi 35$	$\phi 28$
LCH-43/83-503-A2.1	42.92	83	10.73	500	3	17948	1.24	2.98	380	$\phi 42$	$\phi 35$
LCH-50/110-503-A2.1	49.88	110	14.81	500	3	17034	1.24	2.83	380	$\phi 54$	$\phi 42$
LCH-58/110-504-A2.1	57.18	110	16.99	500	4	23931	1.66	2.98	380	$\phi 54$	$\phi 42$
LCH-67/147-504-A2.1	66.41	147	20.98	500	4	22712	1.66	2.83	380	$\phi 54$	$\phi 42$
LCH-86/166-506-A2.1	85.85	166	22.98	500	6	35896	2.48	2.98	380	$\phi 54$	$\phi 42$
LCH-100/221-506-A2.1	99.75	221	31.64	500	6	34068	2.48	2.83	380	$\phi 64$	$\phi 54$
LCH-18/34-551-A2.1	17.81	34	4.55	550	1	7474	0.60	2.98	380	$\phi 28$	$\phi 22$
LCH-21/46-551-A2.1	20.89	46	5.79	550	1	7176	0.60	2.87	380	$\phi 28$	$\phi 22$
LCH-36/69-552-A2.1	35.73	69	8.75	550	2	14948	1.20	2.98	380	$\phi 35$	$\phi 28$
LCH-42/92-552-A2.1	41.89	92	11.88	550	2	14351	1.20	2.87	380	$\phi 42$	$\phi 35$
LCH-54/103-553-A2.1	53.66	103	13.12	550	3	22422	1.80	2.98	380	$\phi 42$	$\phi 35$
LCH-63/138-553-A2.1	62.89	138	18.04	550	3	21527	1.80	2.87	380	$\phi 54$	$\phi 42$
LCH-72/138-554-A2.1	71.47	138	20.49	550	4	29895	2.40	2.98	380	$\phi 54$	$\phi 42$
LCH-84/183-554-A2.1	83.79	183	25.47	550	4	28703	2.40	2.87	380	$\phi 54$	$\phi 42$
LCH-108/206-556-A2.1	107.31	206	29.42	550	6	44843	3.00	2.98	380	$\phi 54$	$\phi 54$
LCH-126/275-556-A2.1	125.79	275	38.40	550	6	43054	3.00	2.87	380	$\phi 64$	$\phi 54$
LCH-26/50-631-A2.1	25.62	50	6.70	630	1	10714	0.80	2.95	380	$\phi 28$	$\phi 28$
LCH-31/66-631-A2.1	30.21	66	8.83	630	1	10367	0.80	2.86	380	$\phi 35$	$\phi 28$
LCH-52/100-632-A2.1	51.42	100	13.25	630	2	21429	1.60	2.95	380	$\phi 42$	$\phi 35$
LCH-61/133-632-A2.1	60.60	133	18.35	630	2	20735	1.60	2.86	380	$\phi 54$	$\phi 42$
LCH-78/150-633-A2.1	77.22	150	20.16	630	3	32143	2.40	2.95	380	$\phi 54$	$\phi 42$
LCH-91/199-633-A2.1	90.99	199	25.57	630	3	31102	2.40	2.86	380	$\phi 54$	$\phi 42$
LCH-103/199-634-A2.1	102.84	199	32.67	630	4	42857	3.20	2.95	380	$\phi 64$	$\phi 54$
LCH-122/266-634-A2.1	121.19	266	39.89	630	4	41469	3.20	2.86	380	$\phi 64$	$\phi 54$
LCH-155/299-636-A2.1	154.45	299	43.50	630	6	64286	4.80	2.95	380	$\phi 64$	$\phi 54$
LCH-182/399-636-A2.1	181.97	399	59.86	630	6	62204	4.80	2.86	380	$\phi 80$	$\phi 64$

DIMENSIONS OF $\phi 7$ mm LCH CONDENSER

Model	Copper tubes		Dimensions			Mounting dimensions		
	Row number	Number of rings	L	B	H	D	E	C
	N	W	mm	mm	mm	mm	mm	mm
LCH-1/2-201-A2.1	2	12	235	150	270	250	90	9
LCH-1/3-201-A2.1	3	12	235	150	270	250	90	9
LCH-2/3-251-A2.1	2	14	285	150	312	300	90	9
LCH-2/4-251-A2.1	3	14	285	150	312	300	90	9
LCH-3/5-301-A2.1	2	18	375	200	401	390	140	9
LCH-4/7-301-A2.1	3	18	375	200	401	390	140	9
LCH-4/9-301-A2.1	4	18	375	200	401	390	140	9
LCH-5/9-301-A2.1	3	20	470	200	443	480	140	11
LCH-6/13-351-A2.1	4	20	470	200	443	480	140	11
LCH-10/19-352-A2.1	3	20	920	200	443	930	140	11
LCH-11/25-352-A2.1	4	20	920	200	443	930	140	11
LCH-15/28-353-A2.1	3	20	1370	200	443	1380	140	11
LCH-17/37-353-A2.1	4	20	1370	200	443	1380	140	11
LCH-19/37-354-A2.1	3	40	920	200	863	930	140	11
LCH-22/50-354-A2.1	4	40	920	200	863	930	140	11
LCH-29/56-356-A2.1	3	40	1370	200	863	1380	140	11
LCH-33/75-356-A2.1	4	40	1370	200	863	1380	140	11
LCH-8/14-401-A2.1	3	24	580	220	527	590	160	11
LCH-9/19-401-A2.1	4	24	580	220	527	590	160	11
LCH-15/28-402-A2.1	3	24	1140	220	527	1150	160	11
LCH-17/37-402-A2.1	4	24	1140	220	527	1150	160	11
LCH-22/42-403-A2.1	3	24	1700	220	527	1710	160	11
LCH-25/56-403-A2.1	4	24	1700	220	527	1710	160	11
LCH-29/56-404-A2.1	3	48	1140	220	1031	1150	160	11
LCH-34/74-404-A2.1	4	48	1140	220	1031	1150	160	11
LCH-44/84-406-A2.1	3	48	1700	220	1031	1710	160	11
LCH-50/112-406-A2.1	4	48	1700	220	1031	1710	160	11
LCH-11/20-451-A2.1	3	30	670	220	653	680	160	11
LCH-13/27-451-A2.1	4	30	670	220	653	680	160	11
LCH-22/41-452-A2.1	3	30	1320	220	653	1330	160	11
LCH-25/54-452-A2.1	4	30	1320	220	653	1330	160	11
LCH-32/61-453-A2.1	3	30	1970	220	653	1980	160	11
LCH-37/81-453-A2.1	4	30	1970	220	653	1980	160	11
LCH-43/81-454-A2.1	3	60	1320	220	1283	1330	160	11
LCH-49/108-454-A2.1	4	60	1320	220	1283	1330	160	11
LCH-64/122-456-A2.1	3	60	1970	220	1283	1980	160	11
LCH-74/162-456-A2.1	4	60	1970	220	1283	1980	160	11

DIMENSIONS OF $\phi 7\text{mm}$ LCH CONDENSER

Model	Copper tubes		Dimensions			Mounting dimensions		
	Row number	Number of rings	L	B	H	D	E	C
	N	W	mm	mm	mm	mm	mm	mm
LCH-15/28-501-A2.1	3	32	850	240	695	860	180	11
LCH-17/37-501-A2.1	4	32	850	240	695	860	180	11
LCH-29/55-502-A2.1	3	32	1680	240	695	1690	180	11
LCH-34/74-502-A2.1	4	32	1680	240	695	1690	180	11
LCH-43/83-503-A2.1	3	32	2510	240	695	2520	180	11
LCH-50/110-503-A2.1	4	32	2510	240	695	2520	180	11
LCH-58/110-504-A2.1	3	64	1680	240	1367	1690	180	11
LCH-67/147-504-A2.1	4	64	1680	240	1367	1690	180	11
LCH-86/166-506-A2.1	3	64	2510	240	1367	2520	180	11
LCH-100/221-506-A2.1	4	64	2510	240	1367	2520	180	11
LCH-18/34-551-A2.1	3	36	940	240	779	950	180	11
LCH-21/46-551-A2.1	4	36	940	240	779	950	180	11
LCH-36/69-552-A2.1	3	36	1860	240	779	1870	180	11
LCH-42/92-552-A2.1	4	36	1860	240	779	1870	180	11
LCH-54/103-553-A2.1	3	36	2780	240	779	2790	180	11
LCH-63/138-553-A2.1	4	36	2780	240	779	2790	180	11
LCH-72/138-554-A2.1	3	72	1860	240	1535	1870	180	11
LCH-84/183-554-A2.1	4	72	1860	240	1535	1870	180	11
LCH-108/206-556-A2.1	3	72	2780	240	1535	2790	180	11
LCH-126/275-556-A2.1	4	72	2780	240	1535	2790	180	11
LCH-26/50-631-A2.1	3	48	1020	240	1031	1030	180	11
LCH-31/66-631-A2.1	4	48	1020	240	1031	1030	180	11
LCH-52/100-632-A2.1	3	48	2020	240	1031	2030	180	11
LCH-61/133-632-A2.1	4	48	2020	240	1031	2030	180	11
LCH-78/150-633-A2.1	3	48	3020	240	1031	3030	180	11
LCH-91/199-633-A2.1	4	48	3020	240	1031	3030	180	11
LCH-103/199-634-A2.1	3	96	2020	240	2039	2030	180	11
LCH-122/266-634-A2.1	4	96	2020	240	2039	2030	180	11
LCH-155/299-636-A2.1	3	96	3020	240	2039	3030	180	11
LCH-182/399-636-A2.1	4	96	3020	240	2039	3030	180	11





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