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Refrigeration copper tube aluminum fin evaporator

Product Part A: General copper tube aluminum fin evaporator

Product Part B: Cold room air cooler (Evaporator)

Factory introduction

Our factory located in Hangzhou, China, 10 minutes car distance to our office.

Our factory is ISO 9001 certified, professional in production of copper tube fin evaporator and condenser.

We use high quality material, equipped by high automation machinery like fin punching machine, auto tube flaring machine, automatic welding machine, we have over 15 years experience in production and with professional technicians to control mold production, IQC, IPQC, FQC and OQC, all products comply with Japan & Italy standard, all these make us achieve good sales increasing year by year and awarded nice quality reputation among all customers.

Typical benefits and character

- Well distributed liquid dispensing of windward area of condenser coil
- High quality mechanical expanding or super high pressing hydraulic expanding between copper tube and fins, tight contacting and optimized heat exchanging.
- Free pitch distance selection, reduce the frost affection in low temperature.
- With single or double reverse-flow system, small water resistance, good heat exchanging
- With super high temperature vacuum drying, ensure inner without impurity or water substance.

Main application & usage

Products are suitable for R134A, R22, R404A, R407C, and CO2 refrigerant.

Widely used for commercial refrigerators and freezers, commercial showcase cabinet, air-conditioning systems, dehumidifier, ice maker etc.

Material

Material: copper tube, aluminum fins, galvanized steel bracket if need

- Copper tube: made by Hailiang China, $\Phi 5$, $\Phi 7$ mm, $\Phi 7.94$, $\Phi 9.52$, $\Phi 12.7$, $\Phi 15.88$, inner thread groove or smooth tube
- Aluminum foil: blue or other color hydrophilic, or uncoated bare
- Fin type: louver, flat, corrugated or slit fin
- Side plate: galvanized steel plate

Main application & usage

Tube bending, punching fin, tube expanding, fins installation, drying, welding, leakage test, tube bending, quality inspection, packing

FQC & OQC

Tightness testing: gas testing under 3.0Mpa air pressure

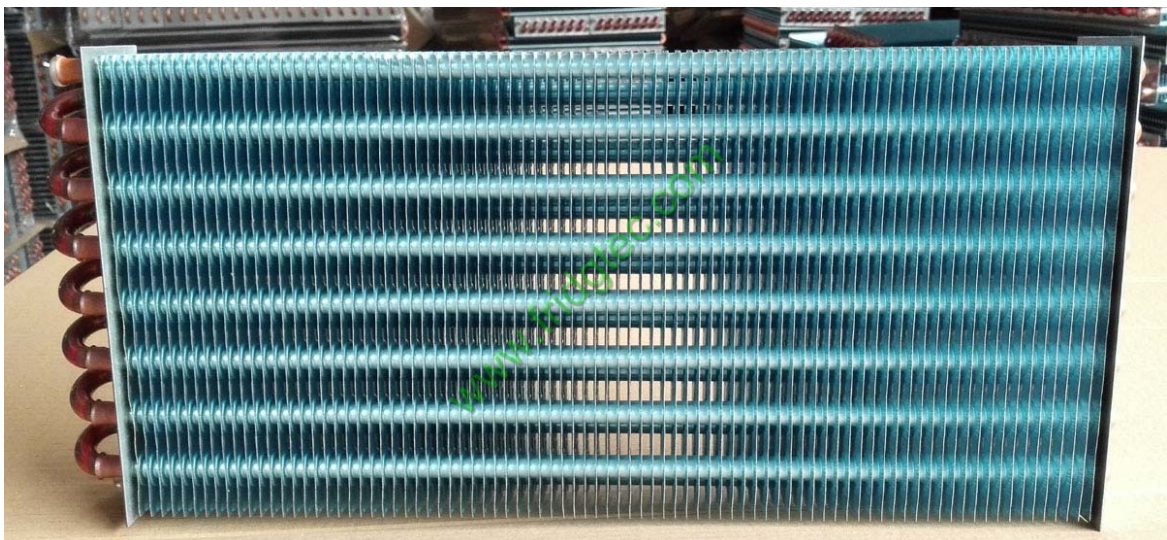
Leakage testing: water leakage testing

Pins ready moulds

No.	Copper tube Diameter	Holes & rows of pitch	Fin space	Holes array	Fin surface	Fin edge type
1	Φ5/8" (15.88mm)	50x50mm	4~10mm	Equilateral triangle	Sin-wave & corrugated	Flat + wave
2	Φ5/8" (15.88mm)	38x33mm	2.5~4mm	Equilateral triangle	Sin-wave & corrugated	Flat + wave
3	Φ1/2" (12.7mm)	31.75x27.5mm	3~9mm	Equilateral triangle	Sin-wave & corrugated	Flat + wave
4	Φ0.472" (12mm)	35x35mm	6~11mm	Equilateral triangle	Sin-wave & corrugated	Flat + wave
5	Φ3/8" (9.52mm)	25x21.65mm	1.5~6mm	Equilateral triangle	Sin-wave & corrugated	Flat + wave
6	Φ3/8" (9.52mm)	31.75x27.5mm	2.5~7.5mm	Equilateral triangle	Sin-wave & corrugated	Flat + wave
7	Φ3/8" (9.52mm)	25x21.65mm	1.5~2.5mm	Equilateral triangle	Louver	Flat
8	Φ3/8" (9.52mm)	25.4x19.05mm	1.8~5mm	Equilateral triangle	Louver	Flat
9	Φ5/16" (7.94mm)	25x21.65mm	1.5~5mm	Equilateral triangle	Flat	Flat + wave
10	Φ0.276" (7mm)	21x12.7mm	1.3~1.8mm	Equilateral triangle	Louver	Flat

PART A: General copper tube aluminum fin evaporator

Evaporator product showing:



Sizes:

Made by customer design and drawing.

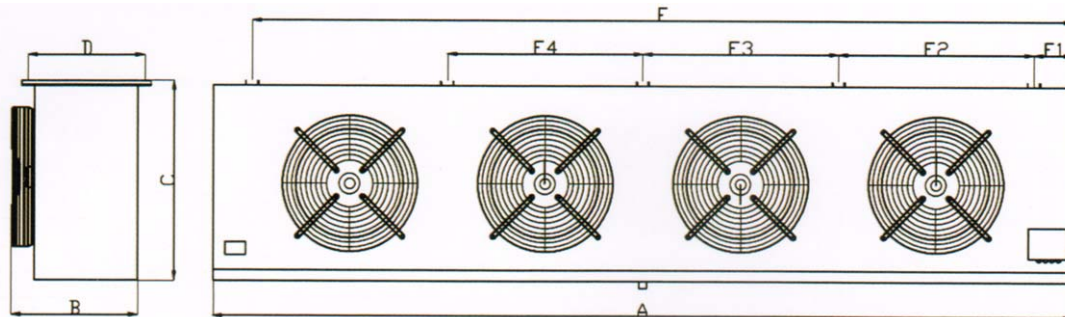
Reference sizes

Model	Dimension (mm)							Connection tube		
	L	B	H	F	E	D	L1	Inlet	Outlet	Drainage
WSH- 9/20	415	405	165	50.5	304	395	380	Φ10mm	Φ12mm	1"
WSH-9/10	715	405	165	50.5	304	695	680	Φ10mm	Φ12mm	1"
WSH-1.35	1015	405	165	50.5	304	980	980	Φ10mm	Φ12mm	1"
WSH-1.80	1315	405	165	50.5	304	1295	1280	Φ10mm	Φ12mm	1"

Model	Capacity DT=7K (R22) kw	Area m2	Air m3/h	Dista m	Tube V dm3	Fan motor (380V)				Power Total Kw
						Single pole W	Fan Dia mm	Air blowing m	Noise DB	
						W	mm	m	DB	
WSH- 9/20	0.45	2.5	500	10	0.51	40	1x200	6	50	1
WSH-9/10	0.9	5	1000	10	0.98	40	2x200	6	53	1
WSH-1.35	1.35	7.5	1500	10	1.46	40	3x200	6	55	1
WSH-1.80	1.8	10	2000	10	1.94	40	4x300	6	56	1

PART B: Cold room air cooler (Evaporator)

Cold room air cooler (evaporator) sketch & Overall dimensions



Model	Overall Size(mm)			Install size(mm)							Connect dia(mm)		Drainage pipe
	A	B	C	D	E	E1	E2	E3	E4	F	Inlet	Outlet	
DL-1.9/10 DD-1.3/7	730	370	480	310	530					75	Φ12	Φ16	1"
DL-3.2/15 DD-2.2/12 DJ-1.4/8	1110	370	480	310	910					75			
DL-4.3/20 DD-2.8/15 DJ-1.8/12	1110	370	480	310	910					75	Φ12	Φ22	
DL-5.5/25 DD-3.7/22	1560	370	480	310	1360					75			

DJ-2.5/15													
DL-8.0/40													
DD-5.6/30	1385	450	530	380	1095					115			
DJ-3.8/20													
DL-10.6/55													
DD-7.4/40	1760	450	530	380	1470	735				115			
DJ-4.8/30													
DL-16.3/80													
DD-11.7/60	1920	540	700	470	1640	820				110			
DJ-7.7/40													
DL-22.4/105													
DD-15.9/80	1920	610	650	540	1640	820				110			
DJ-10.4/55													
DL-27.4/125													
DD-18.6/100	2420	610	610	540	2150	725	700			95			
DJ-12.8/70													
DL-33.7/160													
DD-23.4/120	2720	610	650	540	2450	825	800			95			
DJ-15.8/85													
DL-40/185													
DD-23.4/140	3120	610	650	540	2850	725	700	700		95			
DJ-18.5/100													
DL-45/210													
DD-31.1/160	3520	610	650	540	3250	825	800	800		95			
DJ-21/115													
DL-52.9/260													
DD-37.4/200	3520	610	700	540	3250	825	800	800		95			
DJ-23.9/140													
DL-67.2/330													
DD-46.8/250	3120	700	800	630	2850	725	700	700		95			
DJ-29.0/170													
DL-83.4/410													
DD-52.2/310	3520	700	800	630	3250	650	650	650	650	95			
DJ-35.9/210													

2"

Cold room air cooler (evaporator) specifications

A. DL series with fin space 4.5mm

Model	Capacity	Area	Air	Dista	Tube	Fan motor				Defrosting heater		
	DT=8K					Vol	Dia	Nom	Input	Volt	Input(kw)	
	kw	m2	m3/h	m	dm3	V	mm	n	w	v	Coil	Rr
DL-1.9/10	1.92	10	1700	10	1.8	380	330	1	1x90	220	1	0.5
DL-3.2/15	3.21	15	3400	10	2.9	380	330	2	2x90	220	1.8	0.9
DL-4.3/20	4.28	20	3400	10	3.9	380	330	2	2x90	220	1.8	0.9
DL-5.5/25	5.46	25	5100	10	5	380	330	3	3x90	220	2.4	1.2

DL-8.0/40	8.02	40	6000	12	8.3	380	400	2	2x250	220	2	1
DL-10.6/55	10.56	55	6000	12	11.1	380	400	2	2x250	220	3	1.5
DL-16.3/80	16.3	80	12000	17	16.5	380	500	2	2x550	220	4.5	1.5
DL-22.4/105	22.38	105	12000	17	22.7	380	500	2	2x550	220	4.5	1.5
DL-27.4/125	27.42	125	18000	17	26.3	380	500	3	3x550	220	7.2	1.8
DL-33.7/160	33.71	160	18000	17	33	380	500	3	3x550	220	8	2
DL-40.0/185	40	185	24000	17	38.5	380	500	4	4x550	220	8.8	2.2
DL-45.0/210	44.96	210	24000	17	44	380	500	4	4x550	220	13	2.6
DL-52.9/260	52.92	260	24000	17	52	380	500	4	4x550	220	15.6	2.6
DL-67.2/330	67.25	330	24000	17	66.2	380	500	4	4x550	220	13.2	4.4
DL-83.4/410	83.43	410	30000	17	82.3	380	500	5	5x550	220	15.6	5.2

B. DD series with fin space 6.0mm

Model	Capacity	Area	Air	Dista	Tube V	Fan motor				Defrosting heater		
	DT=8K					Volt	Dia	Nom	Input	Volt	Input(kw)	
	kw	m2	m3/h	m	dm3	V	mm	n	w	v	Coil	Rr
DD-1.3/7	1.3	7	1700	10	1.8	380	330	1	1x90	220	1	0.5
DD-2.2/1.2	2.23	12	3400	10	2.9	380	330	2	2x90	220	1.8	0.9
DD-2.8/15	2.79	15	3400	10	3.9	380	330	2	2x90	220	1.8	0.9
DD-3.7/22	3.72	22	5100	10	5	380	330	3	3x90	220	2.4	1.2
DD-5.6/30	5.62	30	6000	12	8.3	380	400	2	2x250	220	2	1
DD-7.4/40	7.44	40	6000	12	11.1	380	400	2	2x250	220	3	1.5
DD-11.7/60	11.72	60	12000	17	16.5	380	500	2	2x250	220	4.5	1.5
DD-15.9/80	15.88	80	12000	17	22.7	380	500	2	2x250	220	4.5	1.5
DD-18.6/100	18.6	100	18000	17	26.3	380	500	3	3x250	220	7.2	1.8
DD-23.4/120	23.36	120	18000	17	33	380	500	3	3x250	220	8	2
DD-27.3/140	27.27	140	24000	17	38.5	380	500	4	4x250	220	8.8	2.2
DD-31.1/160	31.14	160	24000	17	44	380	500	4	4x250	220	13	2.6
DD-37.4/200	37.42	200	24000	17	52	380	500	4	4x250	220	15.6	2.6
DD-46.8/250	46.83	250	24000	17	66.2	380	500	4	4x250	220	13.2	4.4
DD-56.2/310	56.21	310	30000	17	82.3	380	500	5	5x250	220	15.6	5.2

C. DJ series with fin space 9.0mm

Model	Capacity	Area	Air	Dista	Tube V	Fan motor				Defrosting heater		
	DT=8K					Voltage	Dia	Nom	Input	Voitge	Input(kw)	
	kw	m2	m3/h	m	dm3	V	mm	n	w	v	Coil	Rr
DJ-1.4/8	1.39	8	3400	10	2.9	380	330	2	2x90	220	1.8	0.9
DJ-1.8/12	1.83	12	3400	10	3.9	380	330	2	2x90	220	1.8	0.9
DJ-2.5/15	2.49	15	5100	10	5	380	330	3	3x90	220	2.4	1.2
DJ-3.8/20	3.81	20	6000	12	8.3	380	400	2	2x250	220	3	1
DJ-4.8/30	4.89	30	6000	12	11.1	380	500	2	2x250	220	4.5	1.5
DJ-7.7/40	7.67	40	12000	17	16.5	380	500	2	2x550	220	7.5	1.5
DJ-10.4/55	10.41	55	12000	17	22.7	380	500	2	2x550	220	7.5	3
DJ-12.8/70	12.84	70	18000	17	26.3	380	500	3	3x550	220	9	3.6
DJ-15.8/85	15.79	85	18000	17	33	380	500	3	3x550	220	10	4
DJ-18.5/100	18.49	100	24000	17	38.5	380	500	3	4x550	220	11	4.4

DJ-21/115	20.99	115	24000	17	44	380	500	4	4x550	220	13	5.2
DJ-21/115	23.9	140	24000	17	52	380	500	4	4x550	220	18.2	5.2
DJ-29/170	28.96	170	24000	17	66.2	380	500	4	4x550	220	17.6	4.4
DJ-35.9/210	35.9	210	30000	17	82.3	380	500	5	5x550	220	20.8	5.2

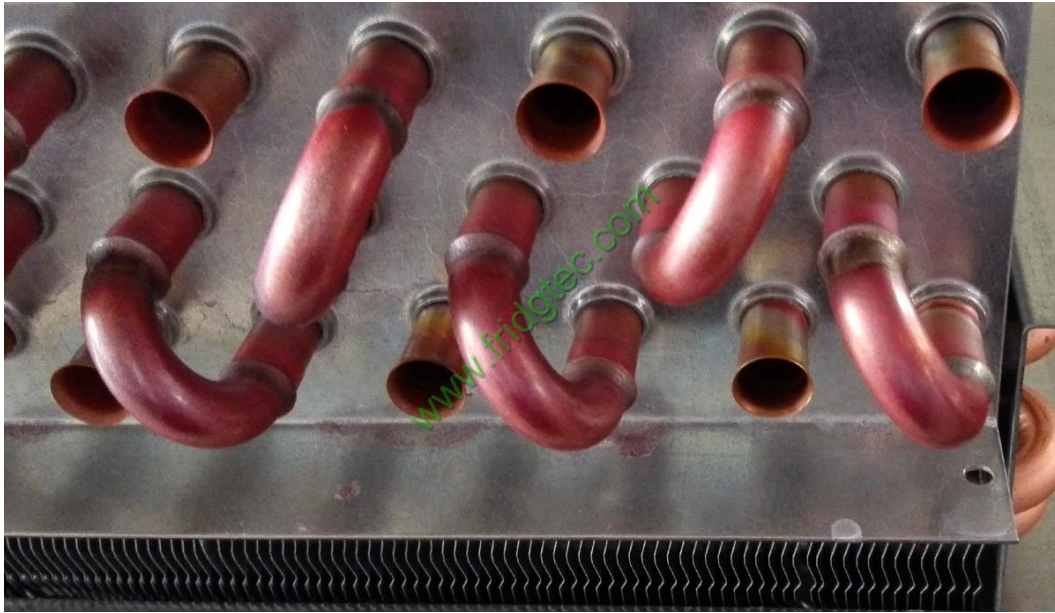
Cold air cooler (Evaporator) product show



Note: Continuous product development may necessitate specification & design changes without notice.

Evaporator product finishing

Copper tube flaring depth and welding quality showing



Aluminum fin drawing and expanding on copper tube, 100% wrapped the copper tube



We can produce by customer order or sample, also can help customer design and produce different models of condenser & evaporator coil.

Welcome sending your drawing or sample to us.