



Hangzhou Ponray Technologies Co., Ltd  
Add: Rm1903, Keda Touzi Bldg, No.555, Xincheng Rd, Binjiang, Hangzhou, China  
Tel: 0086-571-86433485 Fax: 0086-571-86433481 P.I.C.: Richard Zeng  
Web: www.fridgtec.com E-mail: sales@fridgtec.com

## Refrigeration copper tube aluminum fin condenser

### 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

### Voltage and sizes

**Voltage:** 220V/1/50HZ and 380V/3/50HZ or other type.

**Size:** from 1/4HP to 10HP, different alternative condensing fans available: shaded pole or Axial fan motor.

### 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

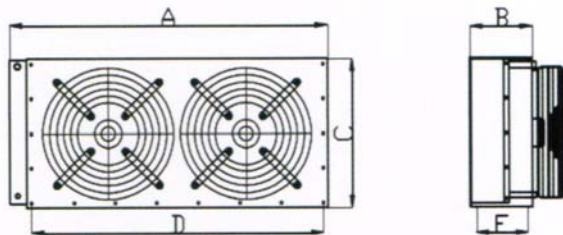
**Leakage testing:** water leakage testing

## Pins ready moulds

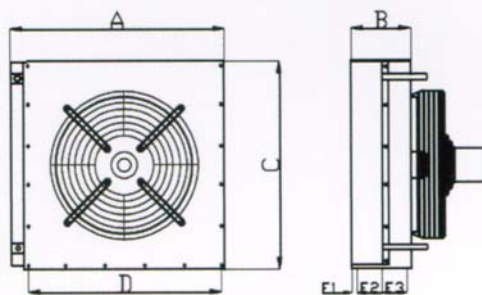
No.	Copper tube Diameter	Holes & rows of pitch	Fin space	Holes array	Fin surface	Fin edge type
1	Φ5/8" (15.88mm)	50x50mm	4~10mm	Equilateral triangle	Sin-wave & corrugated	Flat + wave
2	Φ5/8" (15.88mm)	38x33mm	2.5~4mm	Equilateral triangle	Sin-wave & corrugated	Flat + wave
3	Φ1/2" (12.7mm)	31.75x27.5mm	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

## Condenser series sketch

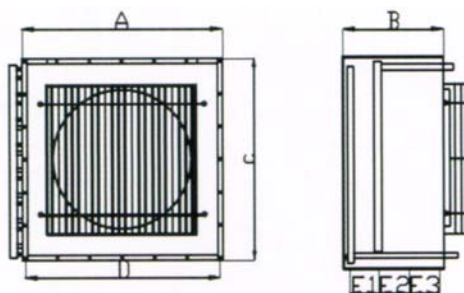
### A. CD Series



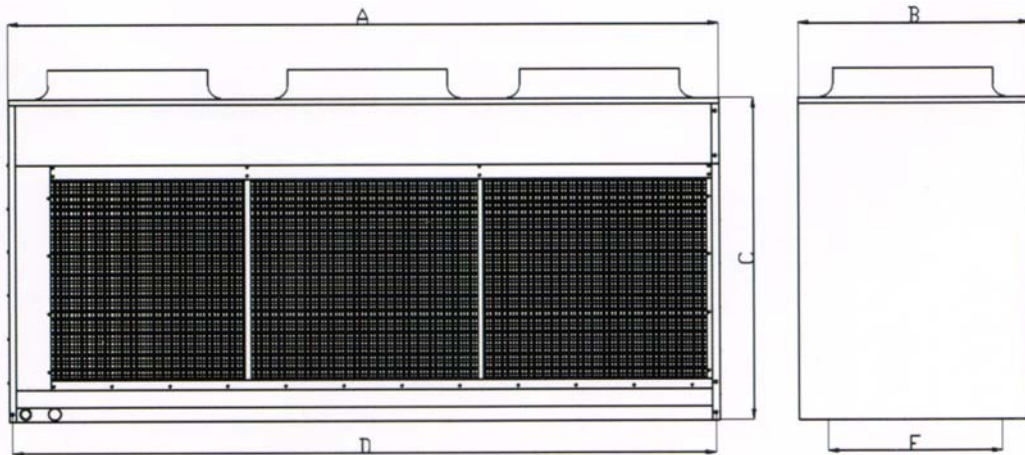
### B. CDC Series, foot installation



### C. CDS series



### D. CDT Series, top blowing



### Condenser series specifications

#### A. CD Series

Model	Cap. Kw	Area m2	Fan Motor				Connect dia(mm)		Overall Size(mm) AxBxC	Install size(mm)	
			Input(W)	Dia(mm)	Air(m3/h)	Volt(V)	Inlet	Outlet		D	E
CD-2	0.6	2	1x35	200	410	220	Φ10	Φ10	320x100x230	270	65
CD-3.4	1	3.4	1x35	200	410	220	Φ12	Φ12	320x100x230	270	65
CD-4.4	1.3	4.4	1x60	250	750	220	Φ12	Φ12	370x100x280	325	65
CD-5.4	1.6	5.4	1x75	300	1350	220	Φ12	Φ12	440x100x330	392	65
CD-7.0	2	7	1x90	300	1350	220	Φ12	Φ12	440x135x330	390	90
CD-8.4	2.3	8.4	1x150	350	3100	380	Φ16	Φ12	500x130x430	455	95
CD-11.5	3.5	11.5	1x150	350	3100	380	Φ16	Φ12	480x180x430	430	145
CD-15	4.4	15	1x150	350	3100	380	Φ16	Φ12	550x180x480	490	145
CD-18	5.2	18	1x180	400	4500	380	Φ19	Φ16	590x180x530	530	140
CD-22	6.4	22	1x180	400	4500	380	Φ19	Φ16	590x180x530	530	140
CD-25	8.1	25	1x180	400	4500	380	Φ19	Φ16	750x180x680	660	150
CD-21	6.1	21	2x90	300	2700	220	Φ16	Φ12	840x180x430	790	140
CD-28	8.2	28	2x150	350	6200	380	Φ19	Φ16	900x180x430	840	145
CD-33	11.2	33	2x150	350	6200	380	Φ19	Φ16	900x200x480	840	130
CD-36	12.6	36	2x180	400	9000	380	Φ16	Φ12	1015x180x580	950	150
CD-43	14.8	43	2x180	400	9000	380	Φ16	Φ12	1015x180x680	950	150
CD-48	17.5	48	2x180	400	9000	380	Φ16	Φ12	1250x200x630	1172	120
CD-55	19.2	55	2x180	400	9000	380	Φ22	Φ12	1250x200x730	1172	140
CD-70	20.5	70	4x150	350	1240	380	Φ22	Φ16	1250x200x830	1172	120
CD-80	24.4	80	4x150	350	1240	380	Φ28	Φ16	1250x200x930	1172	120
CD-100	29.6	100	4x180	400	18000	380	Φ28	Φ16	1250x200x1130	1172	120
CD-130	38.2	130	4x180	400	18000	380	Φ28	Φ22	1250x200x1380	1172	120
CD-150	47.2	150	4x180	400	18000	380	Φ28	Φ22	1250x200x1330	1240	200
CD-180	54	180	4x180	400	18000	380	Φ28	Φ22	1250x240x1330	1240	200

### B. CDC Series, foot installation

Model	Cap. Kw	Area m <sup>2</sup>	Fan motor				Connect dia(mm)		Overall Size(mm)			Install size(mm)			
			Input(w)	Dia(mm)	Volt(V)	Air(m <sup>3</sup> /H)	Inlet	Outlet	A	B	C	D	E1	E2	E3
CDC-28	8.4	28	180	400	380	3000	16	10	730	205	605	625	25	80	80
CDC-33	9.9	33	250	450	380	4500	19	12	830	205	655	725	25	80	80
CDC-39	11.7	39	370	500	380	6000	19	16	920	205	705	815	25	80	80
CDC-60	18	60	550	550	380	7500	25	16	920	250	855	815	25	100	100
CDC-80	24	80	2x370	500	380	12000	25	16	1315	250	855	1210	25	100	100
CDC-130	39	130	2x550	550	380	15000	25	19	1500	250	905	1395	25	100	100

### C. CDS series

Model	Cap. Kw	Area m <sup>2</sup>	Fan motor					Connect dia(mm)		Overall(mm)			Install size(mm)			
			Input(w)	Dia(mm)	Volt(V)	Air(m <sup>3</sup> /H)	Pole	Inlet	Outlet	A	B	C	D	E1	E2	E3
CDS-25	7.5	25	180	450	380	4600	6	16	12	855	430	630	845	25	160	160
CDS-35	10.5	35	180	450	380	4600	6	16	12	855	430	630	845	25	160	160
CDS-40	12	40	320	500	380	6150	6	16	12	855	470	730	845	25	175	175
CDS-45	13.5	45	600	560	380	6800	8	22	12	855	470	830	845	25	175	175
CDS-55	16.5	55	600	560	380	6800	8	22	16	855	470	830	845	25	175	175
CDS-65	19.5	65	600	560	380	6800	8	22	16	855	470	930	845	25	175	175
CDS-80	24	80	2x320	500	380	12300	8	28	16	1440	470	830	1430	25	175	175
CDS-90	27	90	2x600	560	380	13600	8	28	22	1440	470	930	1430	25	175	175
CDS-110	33	110	2x600	560	380	13600	8	28	22	1440	470	930	1430	25	175	175
CDS-130	39	130	2x680	610	380	16400	8	28	22	1540	510	930	1530	25	195	195
CDS-150	45	150	2x680	610	380	16400	8	28	22	1540	510	1030	1530	25	195	195

### D. CDT Series, top blowing

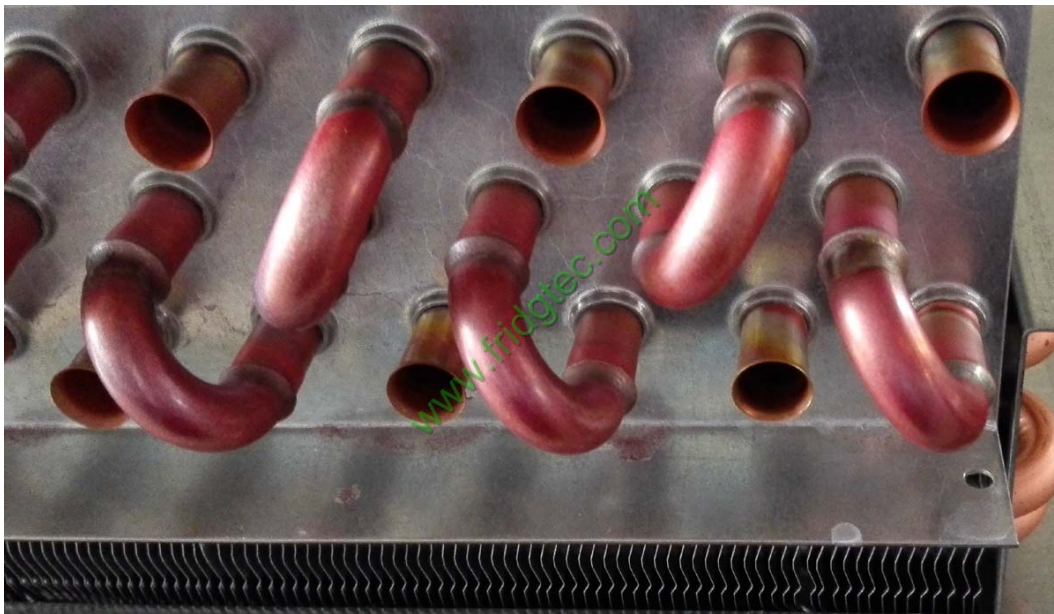
Model	Cap. Kw	Area m <sup>2</sup>	Fan motor					Connect dia(mm)		Overall size(mm)			Install size(mm)	
			Input(w)	Dia(mm)	Volt(V)	Air(m <sup>3</sup> /h)	Pole	Inlet	Outlet	A	B	C	D	E
CDT-80	21.6	80	2x320	500	380	12300	6	28	22	1400	700	1020	1370	500
CDT-100	27.5	100	2x320	500	380	12300	6	28	22	1400	700	1020	1370	500
CDT-120	33.6	120	2x600	560	380	18000	6	28	22	1400	700	1020	1370	500
CDT-170	47.6	170	3x320	500	380	18450	6	28	22	2330	700	1120	2300	570
CDT-220	61.6	220	3x680	610	380	33600	6	35	28	2330	700	1120	2300	570
CDT-280	78.4	280	3x680	610	380	33600	6	35	28	2330	700	1120	2300	570
CDT-310	86.8	310	3x820	630	380	40500	6	35	28	2690	1020	1505	2660	820
CDT-380	104.5	380	3x820	630	380	40500	6	42	35	2690	1020	1505	2660	820
CDT-410	112.7	410	3x820	630	380	40500	6	42	35	2690	1020	1505	2660	820
CDT-460	126.5	460	3x820	650	380	42600	6	42	35	2690	1020	1505	2660	820
CDT-500	140	500	3x820	650	380	42600	6	42	35	2690	1020	1505	2660	820
CDT-530	148.4	530	3x1450	760	380	52500	8	42	35	2970	1140	1690	2940	820
CDT-600	168	600	3x1450	760	380	52500	8	42	35	2970	1140	1690	2940	940

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

Condenser product and finishing show



Copper tube flaring depth and welding quality showing



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

