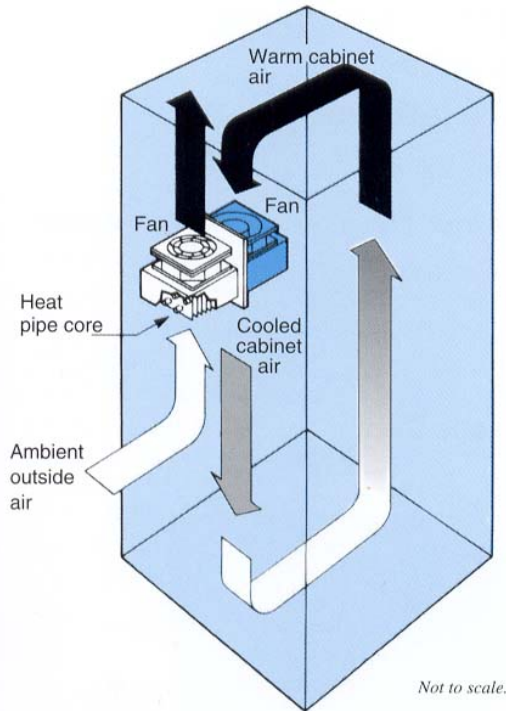




## Compact Cabinet Cooler

### ■ How does the Compact Cabinet Cooler work?



The Compact Cabinet Cooler continuously removes heat from the enclosure's interior in order to cool sensitive electronic components without exposing them to harsh environment.

Referring to the illustration above, the interior fan draws air which has been heated by the electronics over the inside half of the Compact Cabinet Cooler core. The heat pipe core absorbs the heat and transfers to the outside fins. There it is removed by the cooler ambient air circulated by the exterior fan. The inside fan blows the cooled air toward the electronic components to cool them. This kind of system is known as an air-to-air heat exchanger.

The heat pipe core of the Compact Cabinet Cooler transfers heat very efficiently. As the core absorbs heat inside the enclosure, the working fluid inside the heat pipes vaporizes

and travels to the cooler end of the core, where it gives up its latent heat of vaporization. The exterior fan draws ambient air over the core and blows the heat away. The now-cooled fluid condenses and flows back to the hotter end. Notice that the two air streams are kept completely separate. You cool electronic components effectively while protecting them from the environmental contamination.

Choose the first Cabinet Cooler with the rating exceeding that of your heat load. Both standard Drop-in and Flush Mount models are available to accommodate individual enclosure dimensions.

SDL can size your cabinet for cooling in minutes. Please provide dimensions of the enclosure, inside temperature and outside ambient temperatures (or waste heat load in watts) for an on-the spot quotation.

- SIMPLE
- SMALL
- POWERFUL
- LONG LIFE

---

**System Directions Ltd.**

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Coquitlam, BC V3K 6X9

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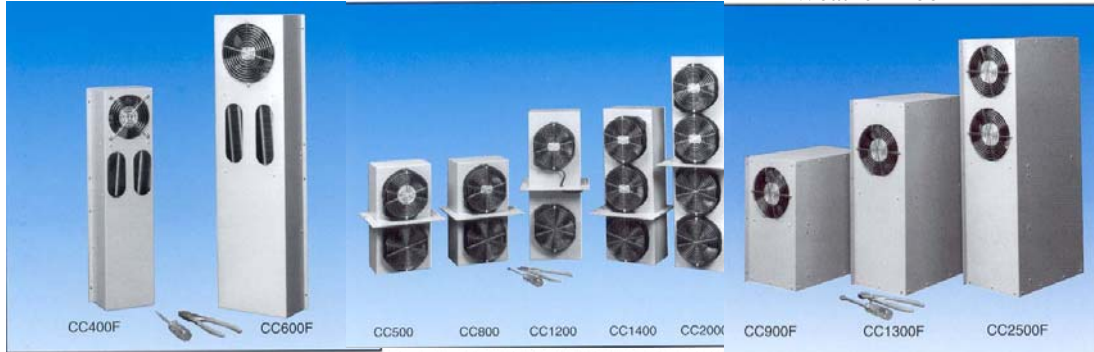
# SYSTEM DIRECTIONS LTD.

Cabinet Cooling - For long life, maintenance free Cooling  
 Greater cooling power for sealed electronic enclosures  
 Perfect "Closed Loop Cooling System" - contamination Free

Special types available:

- Explosion proof
- Wash Down
- Stainless Steel
- Corrosion Resistant
- Weather Proof

# Compact Cabinet Cooler



Standard Models	Wt.	Efficiency** Watt/°C	Rating* BTU/hr	AMPS DRAW	Fans	Dimensions-Inches (High x Deep x Wide)
<b>Drop-in Models</b>						
CC200	6 lbs.	16.5	1100	0.4	2-4"	11 1/2 x 4 5/8 x 5 1/8
CC500	10.3	35.2	2400	0.6	2-6"	15 x 7 x 7 3/4
CC800	16	55.2	3800	0.6	2-6"	15 x 7 x 7 3/4
CC1200	18	75	5100	0.6	2-6"	22 x 7 x 7 3/4
CC1400	20	75	5100	0.9	3-6"	22 1/2 x 7 x 7 3/4
CC2000	28	110.4	7500	1.2	4-6"	30 x 7 x 7 3/4
<b>Flush Mount Models</b>						
CC250F	8 lbs.	16.1	1100	0.4	2-4"	3 1/2 x 12 x 12 7/8
CC400F	10	20.4	1400	0.4	2-4"	22 1/2 x 4 x 6 1/4
CC450F	9	21	1400	0.4	2-4"	12 1/2 x 5 5/16 x 8
CC600F	14	49.2	3300	0.6	2-6"	30 x 4 x 8 3/4
CC900F	16	66	4500	0.6	2-6"	15 x 7 7/8 x 13 7/8
CC1300F	22	75	5100	0.6	2-6"	22 x 7 7/8 x 13 7/8
CC2500F	30	104	7100	1.2	4-6"	29 x 7 7/8 x 13 7/8
CC4000F	60	200	14200	2.4	8-6"	58 x 7 7/8 x 13 7/8
CC450R	15	16.1	1100	0.4	Call for info	
CC900R	20	21	1400	0.6	Call for info	
Air to Water Heat Exchanger-3,350 to 21,000 BTU's/hour						
Below Ambient Cooling <b>Type 4 &amp; 4X UL Now Available</b>						
CC2060	9***	24.5	3350	0.2	1-4"	22 1/2 x 4 x 6 1/4
CC3060	12.2***	68.8	9300	0.3	1-6"	30 x 4 x 8 3/4
CC6360	31.5***	159.7	21800	0.9	3-6"	29 x 8 x 13 7/8
*@20°CΔT **Efficiency based on Average Air Temperatures ***Dry Weight						
Call NOW for FREE engineering Manual and customer needs!!						

Cabinet Coolers compared to A/C are:

- Simple - only two moving parts
- Small - 1/6 the size
- Only used 1/10 the Power
- Longer life - over 30 years life
- Less expensive - 1/5 the cost

In most cases, you don't need air conditioners.

UL CSA CE  
 NEMA12 NEMA4 NEMA4X

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# SYSTEM DIRECTIONS LTD.

## Benefits obtained from using System Directions' Cabinet Cooler vs. Air Conditioners

# Compact Cabinet Cooler

### 1/6 of the size:

- SDL Cabinet Coolers are compact in size when compared to an air condition unit.

### 1/7 the weight:

- SDL Cabinet Coolers are extremely light in comparison to an air conditioner and are ten times more efficient.

### 1/10 the energy:

- SDL Cabinet Coolers can obtain energy from any power outlet (our largest unit draws 1.2 amps). Air conditioners require a separate power circuit

### Energy Saving:

- SDL Cabinet Coolers use very little energy compared to an air conditioner (i.e. average power consumption of NCC \$43.35/yr. vs. A/C \$712.23/yr. not to mention maintenance costs).

### Clean Air Within Cabinet:

- Since SDL Cabinet Coolers remove heat rather than exchange air, your components inside remain clean and dry. They are not subject to dust, oil and/or other contaminants which may damage them. This reduces maintenance cost extending the life of the components and equipment.

### Virtually Maintenance Free:

- The only moving part in the SDL Cabinet Coolers are small fans. The fans may need replacing after 5-7 years.

### Passive Heat Transfer:

- SDL Cabinet Coolers provide a cooling system which use heat pipe technology and passive heat transfer. NO FREON or OZONE DEPLETING CHEMICALS are used.

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