



# Alfa Laval Optigo CC

## Commercial air coolers - single discharge

### General information & application

Optigo CC is a commercial single discharge unit cooler for general application in small to medium-sized cooling and freezing rooms. A wide range of models make them especially suitable for refrigerated working, processing and storage rooms. Dedicated ranges for H(C)FC refrigerants (CCE), brine (CCW) and CO<sub>2</sub> (CCX). A selection of Optigo CCE air coolers (DX, HCFC refrigerant) is available from stock.

Evaporating temperatures	+10 to -30 °C
Refrigerants	all H(C)FC, brine and CO <sub>2</sub>
Capacities (SC2)	1 up to 55 kW
Air volume	770 up to 30000 m <sup>3</sup> /h

### Coil

Internally grooved Cu tubes and aluminium fins. Staggered tube pitch. All CCE models fitted with a T-connection to improve refrigerant distribution for hotgas defrost in coil.

cooler model	Fin spacing (mm)							
	3.3	4.0	5.5	6.0*	7.0	8.0*	10.0*	11.0*
CC 250	✓	✓	✓		✓			
CC 350	✓	✓	✓		✓			
CC 400	✓	✓	✓		✓			
CC 500		✓	✓	✓	✓	✓	✓	✓

\* Fin spacing not available for CCX

### Casing

All casing parts made of durable sheet metal, epoxy coated RAL 9002. Top plate corrosion resistant Magnelis®. All models fitted with hinged side panels and aluminium drip tray. Drip tray is adjustable for perfect leveling. Removable internal drip tray for inspection & cleaning.

### Fan motors

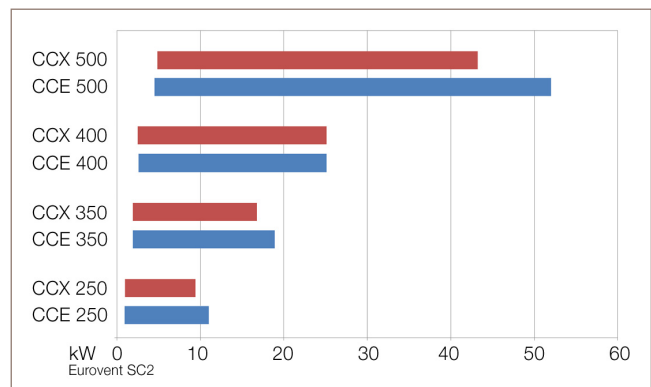
1 to 4 fans fitted with AC or EC fan motors available in two fan speeds (noise levels). Fan diameters 250, 350 mm, 400 or 500 mm drawing through the coil. Fan motors 460/60/3 available as option. Fan motor details on reverse page.

### Design pressure

Design pressure 40 bar (H(C)FC, 80 bar (CO<sub>2</sub>) or 6 bar (brine). Higher design pressures on request. Each cooler is leak tested with dry air and supplied with a nitrogen pre-charge.



Optigo CC



### Benefits

- Innovative coil block for higher effective cooling capacity.
- 80 bar design pressure for CO<sub>2</sub>.
- Eurovent certified performance (CCE models only).
- Easy installation & maintenance.
- Vertically adjustable drip tray & removable inner drip tray.
- Energy efficient EC & AC fans.
- T-connection for hotgas in coil.
- Low total cost of ownership.
- Two-year product guarantee.
- Easy access to additional on-line product information (QR code)



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## Options

- Defrost systems
  - Electric defrost (E)
  - Hotgas defrost in driptray (HG)
  - Electric heater element in driptray (HD)
- Shut-up socks (S)
- Driptray insulation (IS)
- Fan ring heater (FRH)
- Airsock adapter ring - CC 400/500 only (SR)
- Re-heating coil (RH)
- Fan motors wired to central terminal box (CB)
- Repair switch (SW)
- Casing material
  - Stainless steel 304 casing & coil frame (SS)
- Coil corrosion protection
  - epoxy coated aluminium fins (EP)
  - cataphoresis treatment (CA)

cooler model	Dimensions (mm)					Shipping volume m <sup>3</sup>
	C	H	L	A	B	
CC 251	841	405	410	530	-	0.4
CC 252	1341	405	410	1030	-	0.6
CC 253	1841	405	410	1530	-	0.8
CC 254	2341	405	410	2030	1015	1.0
CC 351	841	598	410	530	-	0.5
CC 352	1341	598	410	1030	-	0.7
CC 353	1841	598	410	1530	-	1.0
CC 354	2341	598	410	2030	1015	1.3
CC 401	1037	691	583	600	-	0.9
CC 402	1637	691	583	1200	-	1.3
CC 403	2237	691	583	1800	-	1.7
CC 404	2837	691	583	2400	1200	2.2
CC 501	1288	854	583	850	-	1.3
CC 502	2138	854	583	1700	-	2.0
CC 503	2988	854	583	2550	-	2.7
CC 504	3838	854	583	3400	1700	3.5

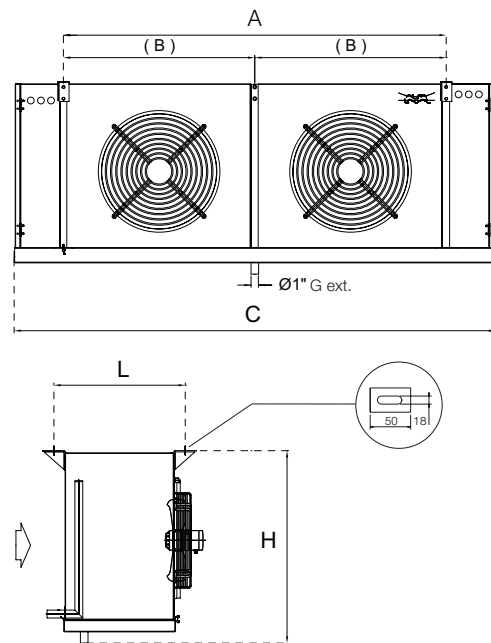
## Code description

<b>CC</b>	<b>E</b>	<b>H</b>	<b>E</b>	<b>30</b>	<b>1.1</b>	<b>A</b>	<b>S</b>	<b>230V</b>	<b>BO</b>	<b>SS</b>	<b>E</b>	<b>-</b>	<b>EP</b>	<b>4.0</b>	<b>CU</b>	<b>HD</b>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

- Commercial unit cooler
- Refrigerant system (E = H(C)FC DX, X=CO<sub>2</sub>, W=brine)
- Fan speed (H = high; L = low)
- Fan motor type (empty=AC, E=EC fan)
- Fan diameter (25=250, 35=350, 40=400, 50=500 mm)
- Number of fans (1 to 4)
- CC version
- Tube rows code (A, B, C)
- No. of phases (S= 1 phase, T= 3 phases)
- Motor voltage
- Packing (BO=box, CR=crate)
- Casing material (PC=powder coated, SS= stainless steel)
- Defrost system (A= air defrost, E= electric defrost, HG= hotgas, HG+E= hotgas + electric defrost in driptray)
- Coil protection (EP= epoxy coated aluminium, CA=cataphoresis)
- Fin spacing (3.3, 4, 5.5, 6, 7, 8, 10 or 11 mm)
- Tube material (CU=copper)
- Options

## Fan motors

Fan diam.	Fan speed	Speed rpm	Nr. of poles	Volt V	Nr. of phases	Freq. Hz
250	H	2250	2	230	1	50-60
250	L	1350	4	230	1	50
250	H	2500	2	230-400	3	50-60
350	H	1400	4	230	1	50-60
350	L	945	6	230	1	50-60
350	H	1370	4	230-400	3	50-60
400	H	1380	4	230	1	50-60
400	L	870	6	230	1	50-60
400	H	1340	4	400	3	50-60
400	L	900	4	400	3	50-60
400	H	1450	6	460	3	60
500	H	1300	4	230	1	50-60
500	L	910	6	230	1	50-60
500	H	1400	4	400	3	60
500	H	1390	4	400	3	50
500	L	870	6	400	3	50-60



## Selection

Selection and pricing is to be performed with our Alfa Laval air heat exchanger selection software. Selection output includes all relevant technical data and dimensional drawings.

## Certifications

All CCE cooler models are "Eurovent Certify All" certified. The Alfa Laval quality system is in accordance with ISO 9001. All products are manufactured according to CE and PED regulations.



AHE00007EN 1412

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## How to contact Alfa Laval

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