



Optigo CS

Commercial air coolers - slim line

General information & application

Alfa Laval Optigo is a new platform for commercial air cooler ranges. Forming a common 'DNA', this platform offers a newly developed and highly efficient coil block and many other features. The Optigo CS is a commercial air cooler for general application in small to medium-sized cooling and freezing rooms. The model's design is characterised by a low silhouette (only 15 cm for CS200) for the efficient use of cold room space. Optigo CS coolers are available from stock.

Evaporating temp.	+10 to -30°C
Refrigerants	all H(C)FC, brine and CO ₂
Capacities (SC2)	652 up to 7808 W
Air volume	517 up to 4262 m ³ /h.

Coil

Innovative coil manufactured from internally grooved Cu tubes (smooth tubing for brine applications) and aluminium fins. Tube pitch 30x26 mm staggered. Standard fin spacings 4 and 7 mm.

Casing

Durable aluminium alloy casing, white epoxy coated RAL 9002. Hinged drip tray construction. Pre-cut passages for multiple choice connections (both sides & top). CS200 is also available with a drip tray for wall mounting.

Fan motors

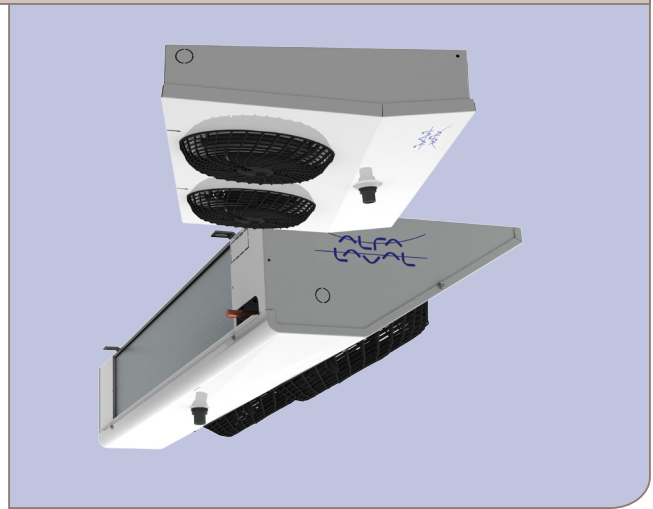
Standard fitted with plug-in dual fan speed EC motors in two diameters (200 & 300 mm), blowing through the coil. Fans pre-wired to the connection box. Power supply 230/1/50-60. Enclosed design spray-tight fan motors, protection class IP-44.

Easy installation

Easy installation and maintenance thanks to hinged drip tray construction, inspection panel for CS200 and removable side panels CS300. All models fitted with a T-connection for better refrigerant distribution and optional hot gas defrost.

Certifications

All DX 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.



Optigo CS200 (top) & CS300

Design pressure

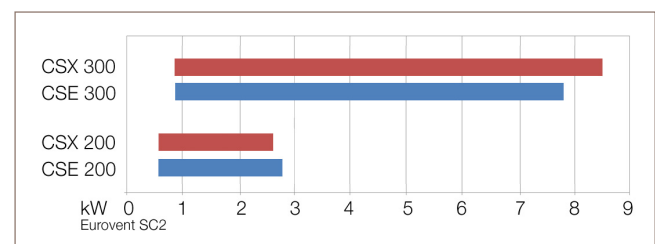
Design pressure 40 bar (H(C)FC, model CSE), 6 bar (brine, model CSW) or 40/80 bar (CO₂, model CSX). Higher design pressures on request. Each heat exchanger is leak tested with dry air and finally supplied with a nitrogen pre-charge.

Options

- Electric defrost (E), mounted as default for 7 mm, optional as a separate kit for 4 mm models.
- Coil corrosion protection
 - epoxy coated aluminium fins (EP)
 - cataphoresis treatment (CA)
- Wall mounting, CS200 only (WM)

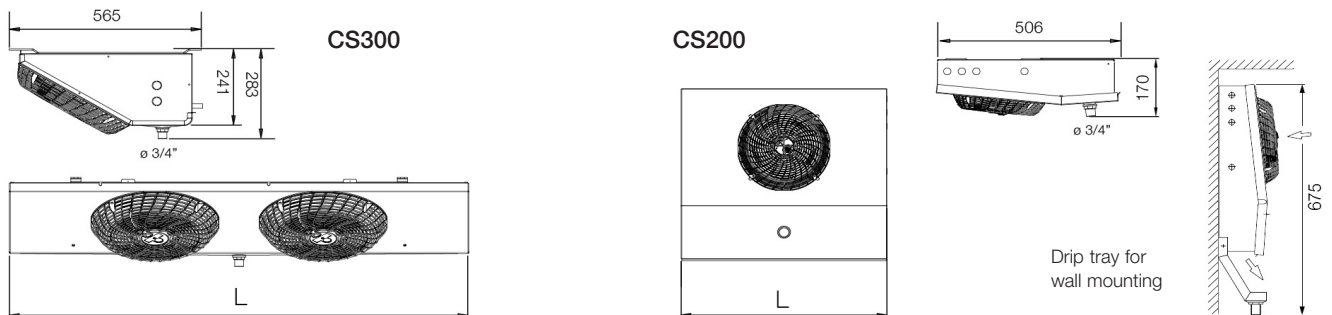
Selection

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.



cooler model CSE	capacities ¹⁾		air flow m ³ /h	coil surface m ²	weight kg	EC Fans dual fan speed 230V/1/50-60Hz					Dimensions mm		
	SC1 W	SC2 W				nr. of fans	capacity per fan		air throw m	sound pressure ²⁾ dB(A)	Refrig. conn.		
							high W	low W			inlet L	OD	suction OD
201 B 4	1276	878	517	2.8	7	1	33	17	6	43	580	12	12
202 B 4	2559	1761	1034	5.6	14	2	33	17	8	46	1030	12	12
203 B 4	4024	2759	1551	8.4	21	3	33	17	10	48	1480	12	14
301 B 4	2072	1423	767	4.7	12	1	35	18	7	42	865	12	12
301 C 4	2486	1708	671	7.0	12	1	35	18	6	42	865	12	12
302 B 4	3920	2701	1533	9.4	16	2	35	18	9	45	1365	12	14
302 C 4	4976	3421	1343	14.0	18	2	35	18	8	45	1365	16	16
303 B 4	6227	4277	2300	14.0	21	3	35	18	11	47	1865	16	16
303 C 4	7011	4835	2014	21.1	24	3	35	18	10	47	1865	16	18
304 B 4	7850	5409	3066	18.7	27	4	35	18	13	48	2365	16	18
304 C 4	9603	6616	2686	28.1	29	4	35	18	11	48	2365	16	20
305 B 4	9020	6233	3833	23.4	32	5	35	18	15	49	2865	16	20
305 C 4	11320	7808	3357	35.1	35	5	35	18	13	49	2865	16	22
201 B 7	962	652	562	1.7	7	1	33	17	6	43	580	12	12
202 B 7	1927	1306	1123	3.4	14	2	33	17	9	46	1030	12	12
203 B 7	2947	1992	1685	5.1	21	3	33	17	11	48	1480	12	14
301 B 7	1547	1047	852	2.8	12	1	35	18	7	42	865	12	12
301 C 7	1987	1349	767	4.2	12	1	35	18	7	42	865	12	12
302 B 7	3015	2048	1705	5.6	17	2	35	18	10	45	1365	12	14
302 C 7	3976	2701	1533	8.5	18	2	35	18	9	45	1365	16	16
303 B 7	4647	3146	2557	8.5	22	3	35	18	13	47	1865	16	16
303 C 7	5772	3932	2300	12.7	24	3	35	18	11	47	1865	16	18
304 B 7	6036	4099	3410	11.3	28	4	35	18	15	48	2365	16	18
304 C 7	7820	5320	3067	16.9	30	4	35	18	13	48	2365	16	20
305 B 7	7200	4906	4262	14.1	33	5	35	18	16	49	2865	16	20
305 C 7	9435	6436	3833	21.1	36	5	35	18	15	49	2865	16	22

1) Capacities given for model CSE, fan power 50Hz and high fan speed. SC1: R-404A/R-507A, t₀=0 °C, DT1=10K. SC2: R-404A/R-507A, t₀=-8 °C, DT1=8K, lightly frosted coil.
2) Sound pressure values according to EN 13487 Lp(A) at 3m.



Code description

CS	E	H	30	2	B	S	230V	BO	AL	E	CB	-	AL	7.0	CU
1	2	3	4	5	6	7	8	9	10	11	12		13	14	15

- 1 Commercial air cooler - slim line
- 2 Refrigerant system (E=H(C)FC DX, W=brine, X=CO₂)
- 3 Fan speed (H=high speed, L=low fan speed)
- 4 Fan diameter (20=200, 30=300 mm)
- 5 Number of fans (1 to 5)
- 6 Coil size code (B, C)
- 7 No. of phases (S=single)
- 8 Motor voltage
- 9 Packing (BO=box)
- 10 Casing material (AL= epoxy coated aluminium)
- 11 Defrost system (E=electric defrost)
- 12 Terminal box (CB)
- 13 Coil protection (AL=aluminium, EP=epoxy coated aluminium, CA=cataphoresis)
- 14 Fin spacing (4.0 and 7.0 mm)
- 15 Tube material (CU=copper)

Benefits

- Available from stock.
- Low silhouette for efficient use of cold room space.
- Heavy duty coil & casing materials, resulting in a long operational product life.
- Innovative coil block for higher effective cooling capacity.
- Reliable performance, Eurovent certified.
- Easy-install.
- Energy efficient EC plug-in fans
- Low total cost of ownership
- Two-year product guarantee.
- Easy access to additional on-line product information (QR code)



Optigo CS

ERC00324EN 1310

Alfa Laval reserves the right to change specification without prior notification.

How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com

