



Alfa Laval Optigo CS

Commercial air coolers - slim line

General information & application

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)	550 up to 7810 W
Air volume	380 up to 3800 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

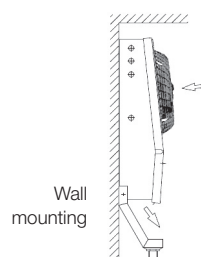
Durable aluminium alloy casing, white epoxy coated RAL 9002. Hinged drip tray construction. Pre-cut passages for multiple choice connections (both sides & top). All models fitted with a T-connection for better refrigerant distribution and optional hot gas defros. CS200 is also available with a drip tray for wall mounting.

Fan motors

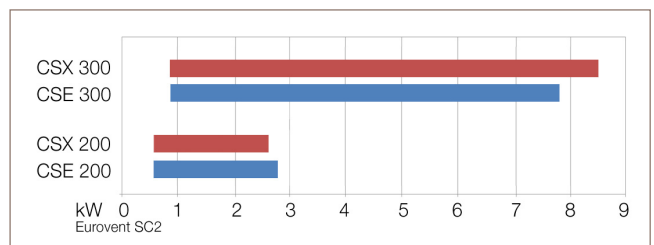
Standard fitted with plug-in dual fan speed EC motors in two diameters (200 & 300 mm), blowing through the coil. Fans pre-wired to the connection box. Power supply 230/1/50-60. Enclosed design spray-tight fan motors, protection class IP-44.

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 driptray kit (WM) CS200 models only



Optigo CS200 (top) & CS300



Design pressure

Design pressure 40 bar (H(C)FC, model CSE), 6 bar (brine, model CSW) or 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.

Benefits

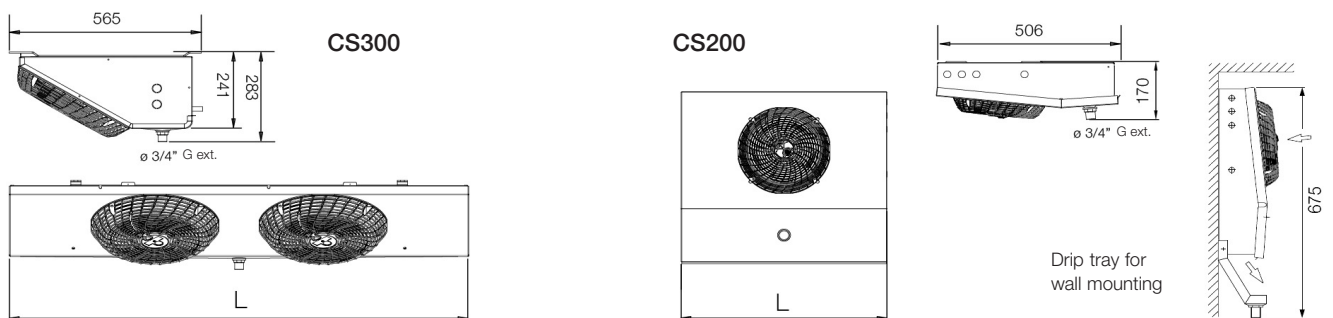
- Available from stock.
- Low silhouette for efficient use of cold room space.
- Sufficient space for expansion valve inside casing.
- Eurovent certified performance (CSE models only).
- T-connection for hotgas in coil.
- Energy efficient EC plug-in fans
- Fans pre-wired to the connection box.
- Two-year product guarantee.
- Easy access to on-line product information (QR code)



Optigo CS

Optigo model CSE	fin spacing mm	nr. of fans	Fan speed H capacities ¹⁾				air flow m ³ /h	coil surface m ²	weight kg	Fan speed L			Dimensions mm				
			SC1		SC2					fan power W	air throw m	sound press. ²⁾ dB(A)	fan power W	sound press. ²⁾ dB(A)	Refrig. conn.		
			kW	kW	L	inlet OD									suction OD		
201 B 4	4	1	1.3	0.9	517	2.8	7	33	5.7	43	19	37	580	12	12		
202 B 4	4	2	2.6	1.8	1034	5.6	14	66	8.0	46	38	40	1030	12	12		
203 B 4	4	3	4.0	2.8	1551	8.4	21	99	9.8	48	57	42	1480	12	14		
301 B 4	4	1	2.1	1.4	767	4.7	12	35	6.5	42	17	33	865	12	12		
301 C 4	4	1	2.5	1.7	671	7.0	12	35	5.7	42	17	33	865	12	12		
302 B 4	4	2	3.9	2.7	1533	9.4	16	70	9.2	45	34	36	1365	12	14		
302 C 4	4	2	5.0	3.4	1343	14.0	18	70	8.1	45	34	36	1365	16	16		
303 B 4	4	3	6.2	4.3	2300	14.0	21	105	11.3	47	51	38	1865	16	16		
303 C 4	4	3	7.0	4.8	2014	21.1	24	105	9.9	47	51	38	1865	16	18		
304 B 4	4	4	7.9	5.4	3066	18.7	27	140	13.1	48	68	39	2365	16	18		
304 C 4	4	4	9.6	6.6	2686	28.1	29	140	11.4	48	68	39	2365	16	20		
305 B 4	4	5	9.0	6.2	3833	23.4	32	175	14.6	49	85	40	2865	16	20		
305 C 4	4	5	11.3	7.8	3357	35.1	35	175	12.8	49	85	40	2865	16	22		
201 B 7	7	1	1.0	0.7	562	1.7	7	33	6.2	43	19	37	580	12	12		
202 B 7	7	2	1.9	1.3	1123	3.4	14	66	8.7	46	38	40	1030	12	12		
203 B 7	7	3	2.9	2.0	1685	5.1	21	99	10.7	48	57	42	1480	12	14		
301 B 7	7	1	1.5	1.0	852	2.8	12	35	7.3	42	17	33	865	12	12		
301 C 7	7	1	2.0	1.3	767	4.2	12	35	6.5	42	17	33	865	12	12		
302 B 7	7	2	3.0	2.0	1705	5.6	17	70	10.3	45	34	36	1365	12	14		
302 C 7	7	2	4.0	2.7	1533	8.5	18	70	9.2	45	34	36	1365	16	16		
303 B 7	7	3	4.6	3.1	2557	8.5	22	105	12.6	47	51	38	1865	16	16		
303 C 7	7	3	5.8	3.9	2300	12.7	24	105	11.3	47	51	38	1865	16	18		
304 B 7	7	4	6.0	4.1	3410	11.3	28	140	14.5	48	68	39	2365	16	18		
304 C 7	7	4	7.8	5.3	3067	16.9	30	140	13.1	48	68	39	2365	16	20		
305 B 7	7	5	7.2	4.9	4262	14.1	33	175	16.2	49	85	40	2865	16	20		
305 C 7	7	5	9.4	6.4	3833	21.1	36	175	14.6	49	85	40	2865	16	22		

1) Capacities 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

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

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 CSE 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.



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How to contact Alfa Laval

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