

CDB Series

Commercial Dual-Discharge Cooler





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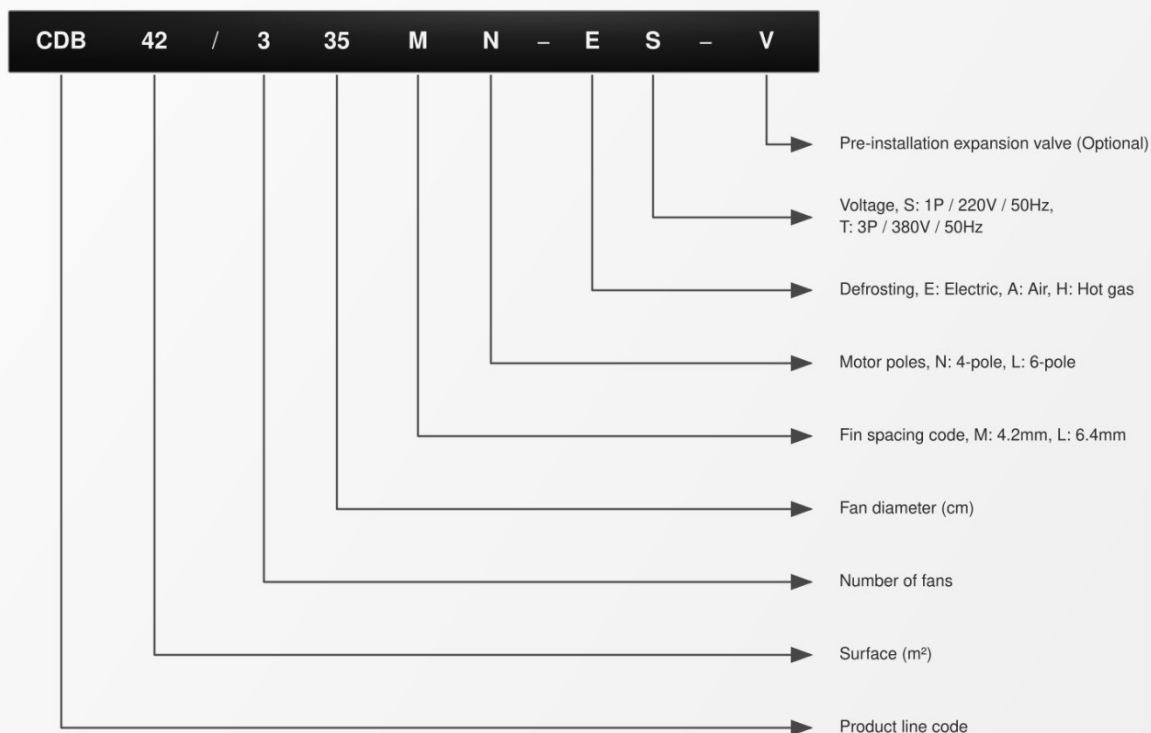
CDB Series Commercial Dual-Discharge Cooler

1. Product Description

CDB series commercial dual-discharge coolers are mainly used in small operating rooms.

- 1** Casing: Al-Mg alloy sheet with powder coating RAL9003, strong anti-corrosion performance and light weight. Outer drip tray adopts an integral hinged structure, making it easy to clean and operate.
- 2** Heat Exchanger Coil: Copper tubing $\Phi 12$, spacing 38.1×33 ; corrugated aluminium fins, fin spacing 4.2mm and 6.4mm.
- 3** Fans: Axial fans, working temperature -40°C to 60°C ; fans are individually connected to a junction box. Fan specification $\Phi 350$, number from 1 to 4. Fan motors are available in 4-pole and 6-pole versions to meet different noise requirements.
- 4** Defrosting: Standard electric defrosting uses stainless heating pipes installed in the middle of the coil and inner water plate, with an independent electric heating tube junction box. Hot-gas defrosting, or coil hot-gas defrosting combined with water-plate electric defrosting, can also be used.
- 5** Compatible with R404A, R507A, R448A, R449A, R134a, R22 and other refrigerants.

2. Model Description





Performance Data Sheet

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Model	Capacity R404A (kW)		Surface (m²)	Tube Volume (dm³)	Airflow (m³/h)	Air Throw (m)	Connection Pipe			Weight (kg)
	T _c = 0°C ΔT = 8K	T _c = -18°C ΔT = 7K					Inlet	Outlet	Drain	
Fin Spacing 4.2mm, 4-pole motor (Rev. 1380 rpm)										
CDB14/135MN-ES	3.2	2.6	13.6	2.7	1900	2×10	Φ12	Φ19	G1"	26
CDB18/135MN-ES	3.8	3.0	18.1	3.6	1700	2×9	Φ12	Φ19	G1"	28
CDB27/235MN-ES	5.6	4.5	24.1	5.0	3800	2×11	Φ12	Φ22	G1"	52
CDB36/235MN-ES	7.6	6.1	36.2	6.8	3400	2×10	Φ12	Φ22	G1"	56
CDB42/335MN-ES	9.8	7.8	41.7	7.7	5700	2×12	Φ16	Φ28	G1"	77
CDB56/335MN-ES	11.7	9.3	55.7	10.2	5100	2×11	Φ16	Φ28	G1"	82
CDB54/435MN-ES	12.8	10.2	54.3	10.0	7600	2×13	Φ16	Φ28	G1"	104
CDB72/435MN-ES	15.2	12.2	72.4	13.1	6800	2×12	Φ16	Φ28	G1"	110
Fin Spacing 4.2mm, 6-pole motor (Rev. 950 rpm)										
CDB14/135ML-ES	2.2	1.8	13.6	2.7	1150	2×7	Φ12	Φ19	G1"	26
CDB18/135ML-ES	2.7	2.2	18.1	3.6	1000	2×6	Φ12	Φ19	G1"	28
CDB27/235ML-ES	4.0	3.2	24.1	5.0	2300	2×8	Φ12	Φ22	G1"	52
CDB36/235ML-ES	5.4	4.3	36.2	6.8	2000	2×7	Φ12	Φ22	G1"	56
CDB42/335ML-ES	6.9	5.5	41.7	7.7	3450	2×9	Φ16	Φ28	G1"	77
CDB56/335ML-ES	8.3	6.7	55.7	10.2	3000	2×8	Φ16	Φ28	G1"	82
CDB54/435ML-ES	9.0	7.2	54.3	10.0	4600	2×10	Φ16	Φ28	G1"	104
CDB72/435ML-ES	10.9	8.7	72.4	13.1	4000	2×9	Φ16	Φ28	G1"	110
Fin Spacing 6.4mm, 4-pole motor (Rev. 1380 rpm)										
CDB9/135LN-ES	2.4	1.9	9.1	2.7	2050	2×10	Φ12	Φ19	G1"	26
CDB12/135LN-ES	3.0	2.4	12.3	3.6	1800	2×9	Φ12	Φ19	G1"	28
CDB16/235LN-ES	4.2	3.4	16.2	5.0	4100	2×11	Φ12	Φ22	G1"	52
CDB25/235LN-ES	6.0	4.8	24.6	6.8	3600	2×10	Φ12	Φ22	G1"	56
CDB28/335LN-ES	7.2	5.8	27.7	7.7	6150	2×12	Φ16	Φ28	G1"	77
CDB37/335LN-ES	9.0	7.2	36.9	10.2	5400	2×11	Φ16	Φ28	G1"	82
CDB37/435LN-ES	9.6	7.7	36.9	10.0	8200	2×13	Φ16	Φ28	G1"	104
CDB49/435LN-ES	12.1	9.7	49.2	13.1	7200	2×12	Φ16	Φ28	G1"	110
Fin Spacing 6.4mm, 6-pole motor (Rev. 950 rpm)										
CDB9/135LL-ES	2.0	1.6	9.1	2.7	1300	2×7	Φ12	Φ19	G1"	26
CDB12/135LL-ES	2.5	2.0	12.3	3.6	1100	2×6	Φ12	Φ19	G1"	28
CDB16/235LL-ES	3.5	2.8	16.2	5.0	2600	2×8	Φ12	Φ22	G1"	52
CDB25/235LL-ES	4.9	3.9	24.6	6.8	2200	2×7	Φ12	Φ22	G1"	56
CDB28/335LL-ES	6.0	4.8	28.4	7.7	3900	2×9	Φ16	Φ28	G1"	77
CDB38/335LL-ES	7.5	6.0	37.8	10.2	3300	2×8	Φ16	Φ28	G1"	82
CDB37/435LL-ES	7.9	6.3	36.9	10.0	5200	2×10	Φ16	Φ28	G1"	104
CDB49/435LL-ES	9.8	7.8	49.2	13.1	4400	2×9	Φ16	Φ28	G1"	110

Remarks: In the table, T_c is the cold-room temperature, and ΔT is the difference between the cold-room temperature and the evaporation temperature.

Electrical Parameter Table

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Model	Fan Motor				Defrosting		
	Voltage (V)	Power (W)	Current (A)	Rev. (r/min)	Coil (kW)	Tray (kW)	Total (kW)
CDB*/135MN-ES CDB*/135LN-ES	220-1	170	0.78	1380	2×0.6	2×0.6	2.4
CDB*/235MN-ES CDB*/235LN-ES	220-1	340	1.56	1380	2×1.1	2×1.1	4.4
CDB*/335MN-ES CDB*/335LN-ES	220-1	510	2.34	1380	2×1.7	2×1.7	6.8
CDB*/435MN-ES CDB*/435LN-ES	220-1	680	3.12	1380	2×2.2	2×2.2	8.8
CDB*/135ML-ES CDB*/135LL-ES	220-1	95	0.4	950	2×0.6	2×0.6	2.4
CDB*/235ML-ES CDB*/235LL-ES	220-1	190	0.8	950	2×1.1	2×1.1	4.4
CDB*/335ML-ES CDB*/335LL-ES	220-1	285	1.2	950	2×1.7	2×1.7	6.8
CDB*/435ML-ES CDB*/435LL-ES	220-1	380	1.6	950	2×2.2	2×2.2	8.8

Outline & Installation Dimensions

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Model	Outline Dimensions (mm)			Installation Dimensions (mm)				
	L	W	H	A	B	B1	B2	Installation Hole
CDB*/135**	950	886	295	847	680	/	/	4-Φ11.5
CDB*/235**	1600	886	295	847	1330	/	/	4-Φ11.5
CDB*/335**	2300	886	295	847	2030	696	/	6-Φ11.5
CDB*/435**	2900	886	295	847	2630	/	1330	6-Φ11.5

