

EC Series Double Blow Air Cooler Evaporator

I. Product Overview

EC series double-side commercial air cooler is designed with ultra-thin structure, with air outlet from both sides and air inlet from below. It mainly used in food processing room or warehouse with short height.



This series of products has the following characteristics:

1. Casing: Made of aluminum magnesium plate sprayed with powder coating (Silver gray RAL9006), lightweight.
2. The side sheet of the heat exchanger is made of aluminum plate, which can effectively protect the copper tube and reduce the weight.
3. Double water plate design: The outer water plate is designed with overall hinge structure, which is convenient for operation; the inner water plate is designed with sink structure made of aluminum plate, and the condensation water or defrost water is directly discharged into the drain outlet of the outer water plate via specially designed trough.
4. Coil: Tube spacing 38.1X33 in triangle arrangement, with high high exchange efficiency.
5. Corrugated aluminum sheet made of hydrophilic aluminum foil, with the sheet spacing of 4mm and 6 mm to meet the requirements of different cold storage.
6. Fan: Specifications: $\Phi 350$, high-speed fan and low-speed fan design in line with requirements of different noises, operating temperature $-30\sim 60^{\circ}\text{C}$, quantity of fans 1~4.
7. Defrosting: The defrosting mode is electric heating. The stainless steel heating pipes are distributed in the coil fins and the inner water plate, which has good effect of defrosting.
8. The IP65 water proof junction box and water proof connectors are used, with better water proofing. The fan and the heating pipe are wired separately, with high reliability.
9. The outlet of the air cooler is equipped with a needle valve, which is convenient for users to test the pressure.
10. It is subjected to strict factory pressure test at pressure of 23bar.
11. The expansion valves and other parts can be pre-installed according to customer's needs.
12. It is compatible with R404A, R507A, R448A, R449A, R134A and other refrigerants.

II. Performance Datasheet

Fin pitch 4.0mm•Standard fan speed (1420rpm)

Model	Cooling Capacity		Surface m ²	Tube volume dm ³	Airflow m ³ /h	Air throw m	Connection pipe(mm)		
	Tc=0°C	Tc=-18°C					Liquid inlet	Gas outlet	Drain
	ΔT=8K	ΔT=7K							
GL-EC351F/CL	3.2	4.7	13.1	2.5	2200	6	Φ12	Φ22	G1"
GL-EC351F/DL	4.0	5.8	17.5	3.4	2000	6	Φ12	Φ22	G1"
GL-EC352F/CL	6.5	9.5	26.3	4.7	4400	8	Φ12	Φ22	G1"
GL-EC352F/DL	8.0	11.7	35.0	6.3	4000	8	Φ12	Φ22	G1"
GL-EC353F/CL	9.8	14.4	39.4	6.9	6600	9	Φ16	Φ28	G1"
GL-EC353F/DL	12.0	17.6	52.5	9.2	6000	9	Φ16	Φ28	G1"
GL-EC354F/CL	13.1	19.2	52.5	9.1	8800	10	Φ16	Φ28	G1"
GL-EC354F/DL	16.1	23.6	70.0	12.2	8000	10	Φ16	Φ35	G1"

Fin pitch 6.0mm•Standard fan speed (1420rpm)

Model	Cooling Capacity		Surface m ²	Tube volume dm ³	Airflow m ³ /h	Air throw m	Connection pipe(mm)		
	Tc=0°C	Tc=-18°C					Liquid inlet	Gas outlet	Drain
	ΔT=8K	ΔT=7K							
GL-EC351F/CD	2.5	2.0	9.0	2.5	2350	6	Φ12	Φ22	G1"
GL-EC351F/DD	3.1	2.4	12.0	3.4	2200	6	Φ12	Φ22	G1"
GL-EC352F/CD	5.1	4.1	18.1	4.7	4700	8	Φ12	Φ22	G1"
GL-EC352F/DD	6.3	5.0	24.1	6.3	4400	8	Φ12	Φ22	G1"
GL-EC353F/CD	7.6	6.0	27.1	6.9	7050	9	Φ16	Φ28	G1"
GL-EC353F/DD	9.4	7.5	36.1	9.2	6600	9	Φ16	Φ28	G1"
GL-EC354F/CD	10.1	8.0	36.1	9.1	9400	10	Φ16	Φ28	G1"
GL-EC354F/DD	12.5	10.0	48.2	12.2	8800	10	Φ16	Φ35	G1"

Fin pitch 4.0mm•Low fan speed (920rpm)

Model	Cooling Capacity		Surface m ²	Tube volume dm ³	Airflow m ³ /h	Air throw m	Connection pipe(mm)		
	Tc=0°C	Tc=-18°C					Liquid inlet	Gas outlet	Drain
	ΔT=8K	ΔT=7K							
GL-EC351F/CLS	2.4	3.2	13.1	2.5	1300	5	Φ12	Φ22	G1"
GL-EC351F/DLS	2.8	3.8	17.5	3.4	1150	5	Φ12	Φ22	G1"
GL-EC352F/CLS	4.7	6.6	26.3	4.7	2600	7	Φ12	Φ22	G1"
GL-EC352F/DLS	5.6	7.7	35	6.3	2300	7	Φ12	Φ22	G1"
GL-EC353F/CLS	7.1	9.8	39.4	6.9	3900	8	Φ16	Φ28	G1"
GL-EC353F/DLS	8.4	11.6	52.5	9.2	3450	8	Φ16	Φ28	G1"
GL-EC354F/CLS	9.5	13	52.5	9.1	5200	9	Φ16	Φ28	G1"
GL-EC354F/DLS	11.2	15.4	70	12.2	4600	9	Φ16	Φ35	G1"

Fin pitch 6.0mm•Low fan speed (920rpm)

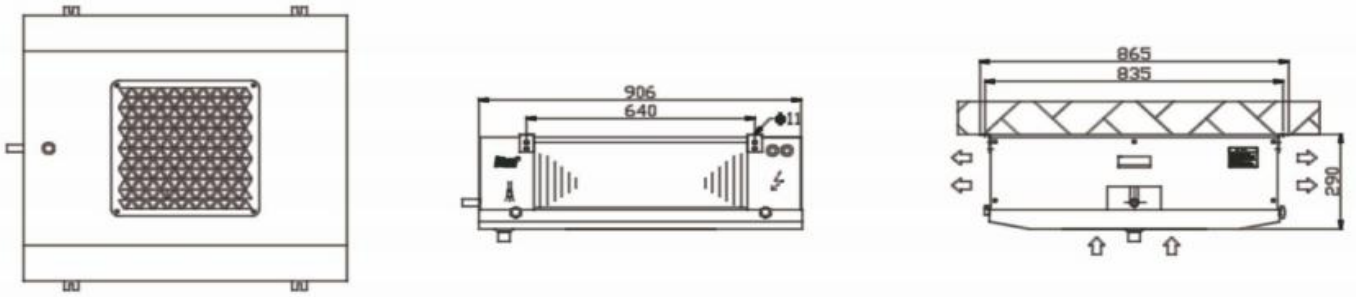
Model	Cooling Capacity		Surface	Tube volume	Airflow	Air throw	Connection pipe(mm)		
	Tc=0°C	Tc=-18°C					Liquid inlet	Gas outlet	Drain
	ΔT=8K	ΔT=7K	m ²	dm ³	m ³ /h	m			
GL-EC351F/CDS	2.0	1.6	9.0	2.5	1300	5	Φ12	Φ22	G1"
GL-EC351F/DDS	2.4	1.9	12.0	3.4	1150	5	Φ12	Φ22	G1"
GL-EC352F/CDS	4.2	3.3	18.1	4.7	2600	7	Φ12	Φ22	G1"
GL-EC352F/DDS	5.1	4.0	24.1	6.3	2300	7	Φ12	Φ22	G1"
GL-EC353F/CDS	6.2	5.0	27.1	6.9	3900	8	Φ16	Φ28	G1"
GL-EC353F/DDS	7.6	6.0	36.1	9.2	3450	8	Φ16	Φ28	G1"
GL-EC354F/CDS	8.3	6.6	36.1	9.1	5200	9	Φ16	Φ28	G1"
GL-EC354F/DDS	10.1	8.0	48.2	12.2	4600	9	Φ16	Φ35	G1"

III. Electrical Parameters

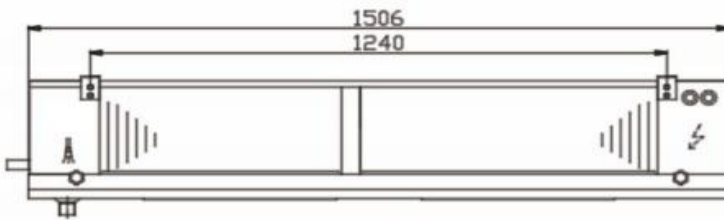
Model	Fan motor				Defrosting with electric heating		
	Voltage	Power	Current	Speed	Coil	Water Plate	Total power
	(V)	(W)	(A)	(r/min)	(KW)	(KW)	(KW)
GL-EC351F/**	380V/3PH	165	0.43	1420	2X0.6	2X0.6	2.4
GL-EC352F/**	380V/3PH	330	0.86	1420	2x1.1	2x1.1	4.4
GL-EC353F/**	380V/3PH	495	1.29	1420	2X1.6	2X1.6	6.4
GL-EC354F/**	380V/3PH	660	1.72	1420	2x2.0	2X2.0	8.0
GL-EC351F/**S	380V/3PH	80	0.32	920	2X0.6	2X0.6	2.4
GL-EC352F/**S	380V/3PH	160	0.64	920	2x1.1	2x1.1	4.4
GL-EC353F/**S	380V/3PH	240	0.96	920	2X1.6	2X1.6	6.4
GL-EC354F/**S	380V/3PH	320	1.28	920	2x2.0	2X2.0	8.0

III. Outline and Installation Dimension

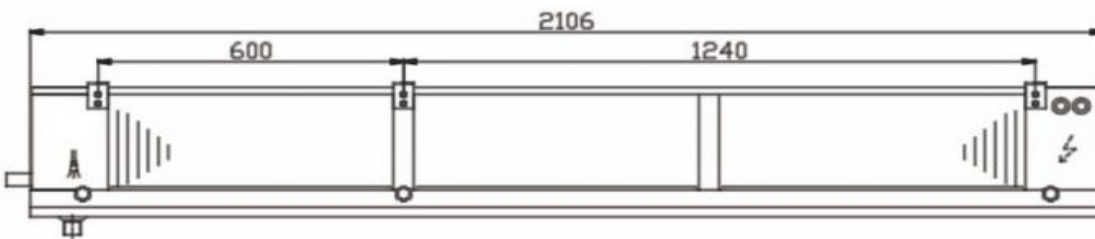
EC351



EC352



EC353:



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