

GDB Series

Dual-Discharge Cooler
for Glycol Coolant





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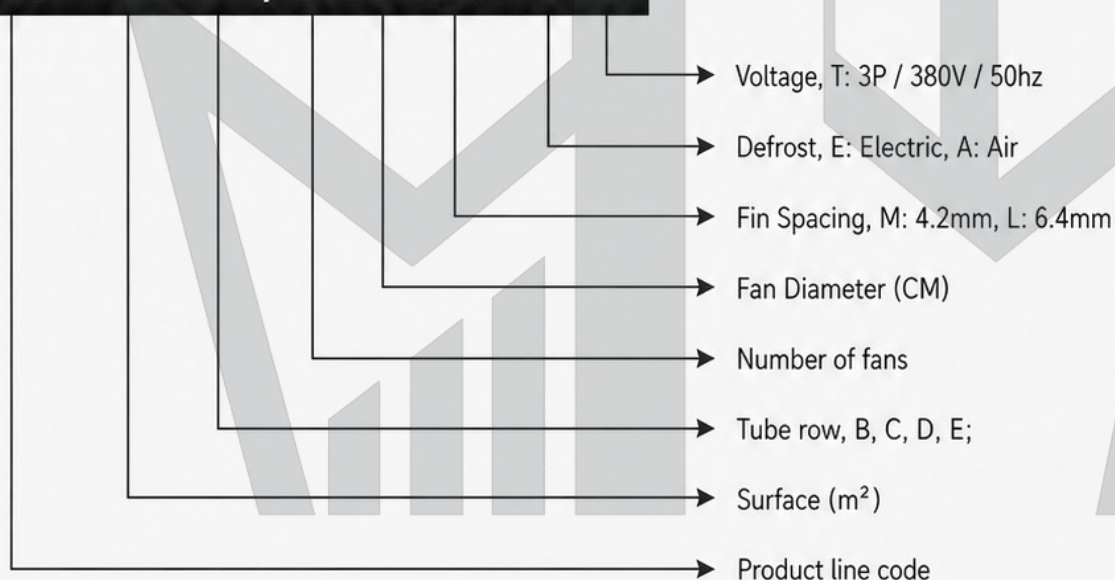
Dual-Discharge Cooler for Glycol Coolant

1. PRODUCT DESCRIPTION

The GDB series unit cooler is mainly used for cooling equipment in cold storage with glycol coolant. It is mainly used in large cold storage operation rooms with air inlet from below and air outlet from both sides. The GDB series air cooler can be used in cold storage at about -10°C, 0°C and -18°C respectively.

- 1 Casing:** Adopt high-quality steel plate with powder coating RAL9003; Hinged structure is adopted for external drip tray, which is convenient and quick to operate;
- 2 Heat exchanger Coil:** Copper tubing $\phi 12$, Spacing 38.1×33 ; Corrugated aluminium fins, fin spacing 4.2mm & 6.4mm;
- 3 Fans:** Axial fans with high wind pressure, working ambient temperature -40 to 60°C; Fans individually connected to junction box; Fan blade $\phi 450$, standard 4-pole motor;
- 4 Electric Defrosting:** The stainless electric heating pipe Installed in the middle of coil and inner water plate, permits quick and efficient defrost of the coil; Independent electric heating pipes junction box.

2. MODEL DESCRIPTION

GDB 149 C / 3 45 M - E T

**3. PERFORMANCE DATA SHEET****3.1 Fin spacing 4.2mm**

Model	Glycol 25% T1=-3°C, T2=2°C, Tr=10°C, RH85%		Glycol 34% T1=-10°C, T2=-7°C, Tr=0°C, RH85%		Surface	Volume	Airflow	Airthrow	Weight
	Capacity kW	Liquid flow m³/h	Capacity kW	Liquid flow m³/h	m²	dm³	m³/h	m	kg
GDB37B/145M-ET	9.3	1.7	4.1	1.3	37.3	6.5	4800	2×8	65
GDB50C/145M-ET	12.0	2.2	5.0	1.6	49.8	8.6	4500	2×8	70
GDB75B/245M-ET	18.7	3.5	8.2	2.5	74.6	12.2	9600	2×11	111
GDB100C/245M-ET	23.9	4.4	10.0	3.1	99.5	16.3	9000	2×11	121
GDB112B/345M-ET	28.0	5.2	12.3	3.8	112.0	18.0	14400	2×13	158
GDB149C/345M-ET	35.8	6.6	14.9	4.6	149.3	24.0	13500	2×13	173
GDB149B/445M-ET	37.3	6.9	16.4	5.1	149.3	23.8	19200	2×15	205
GDB199C/445M-ET	47.8	8.8	19.9	6.2	199.0	31.8	18000	2×15	224

T1 is inlet Temp. of glycol water, T2 is outlet Temp., and Tr is storage room Temp.

3.2 Fin spacing 6.4mm

Model	Glycol 34% T1=-10°C, T2=-7°C, Tr=0°C, RH85%		Glycol 50% T1=-28°C, T2=-25°C, Tr=-18°C, RH95%		Surface	Volume	Airflow	Airthrow	Weight
	Capacity kW	Liquid flow m³/h	Capacity kW	Liquid flow m³/h	m²	dm³	m³/h	m	kg
GDB33C/145L-ET	5.3	1.7	4.3	1.5	33.4	8.6	4800	2×8	66
GDB50E/145L-ET	7.0	2.2	5.5	1.9	50.0	12.9	4200	2×8	81
GDB67C/245L-ET	10.7	3.3	8.7	3.0	66.7	16.3	9600	2×11	122
GDB100E/245L-ET	14.0	4.4	11.0	3.8	100.0	24.5	8400	2×11	139
GDB100C/345L-ET	16.0	5.0	13.0	4.5	100.0	24.0	14400	2×13	160
GDB150E/345L-ET	21.0	6.5	16.5	5.7	150.1	36.0	12600	2×13	197
GDB133C/445L-ET	21.3	6.6	17.3	5.9	133.4	31.8	19200	2×15	207
GDB189E/445L-ET	26.5	8.2	20.8	7.2	189.0	47.7	16800	2×15	254

T1 is inlet Temp. of glycol water, T2 is outlet Temp., and Tr is storage room Temp.

4. ELECTRICAL PARAMETER TABLE

Model	Voltage (V)	Power (W)	Current (A)	Rev. (r/min)	Coil (kW)	Tray (kW)	Total (kW)
GDB37B/145M-ET	380-3	390	0.78	1365	2×0.85	2×0.9	3.5
GDB50C/145M-ET GDB33C/145L-ET	380-3	390	0.78	1365	4×0.85	2×0.9	5.2
GDB50E/145L-ET	380-3	390	0.78	1365	6×0.85	2×0.9	6.9
GDB75B/245M-ET	380-3	780	1.56	1365	2×1.6	2×1.6	6.4
GDB100C/245M-ET GDB67C/245L-ET	380-3	780	1.56	1365	4×1.6	2×1.6	9.6
GDB100E/245L-ET	380-3	780	1.56	1365	6×1.6	2×1.6	12.8
GDB112B/345M-ET	380-3	1170	2.34	1365	2×2.3	2×2.3	9.2
GDB149C/345M-ET GDB100C/345L-ET	380-3	1170	2.34	1365	4×2.3	2×2.3	13.8
GDB150E/345L-ET	380-3	1170	2.34	1365	6×2.3	2×2.3	18.4
GDB149B/445M-ET	380-3	1560	3.12	1365	2×3.0	2×3.1	12.2
GDB199C/445M-ET GDB133C/445L-ET	380-3	1560	3.12	1365	4×3.0	2×3.1	18.2
GDB189E/445L-ET	380-3	1560	3.12	1365	6×3.0	2×3.1	24.2

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Outline & Installation Dimensions

5. OUTLINE & INSTALLATION DIMENSIONS

Model	Outline (mm)			Install (mm)					Connect pipe		
	L	W	H	A	B	B1	B2	B3	Inlet	Outlet	Drain
GDB37B/145M-ET GDB50C/145M-ET GDB33C/145L-ET	1305	1130	405	1070	930	/	/	/	φ28	φ28	G1"
GDB50E/145L-ET	1305	1330	405	1270	930	/	/	/	φ28	φ28	G1"
GDB75B/245M-ET GDB100C/245M-ET GDB67C/245L-ET	2205	1130	405	1070	1830	930	/	/	φ35	φ35	G1"
GDB100E/245L-ET	2205	1330	405	1270	1830	930	/	/	φ35	φ35	G1"
GDB112B/345M-ET GDB149C/345M-ET GDB100C/345L-ET	3105	1130	405	1070	2730	930	1830	/	φ42	φ42	G1"
GDB150E/345L-ET	3105	1330	405	1270	2730	930	1830	/	φ50	φ50	G1"
GDB149B/445M-ET GDB199C/445M-ET GDB133C/445L-ET	4005	1130	405	1070	3630	930	1830	2730	φ50	φ50	G1"
GDB189E/445L-ET	4005	1330	405	1270	3630	930	1830	2730	φ50	φ50	G1"

