

IDB Series

Industrial Dual-Discharge Cooler





IDB SERIES

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1. Product Description

1 Casing: High-quality steel plate with powder coating RAL9003.
The outer drip tray adopts a hinged structure, making it easy to clean and operate.

2 Heat Exchanger Coil: Copper tubing $\Phi 15$, spacing 50×50 ; 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 blade $\Phi 450$, number from 1 to 4, with a standard 4-pole motor.

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 can also be used.

5 Compatible with R404A, R507A, R448A, R449A, R134a, R22 and other refrigerants.

2. Model Description

IDB	99	/	3	45	M	-	E	T	-	V	
											Pre-installation expansion valve (Optional)
											Voltage, T: 3P / 380V / 50Hz
											Defrosting, E: Electric, A: Air, H: Hot gas
											Fin spacing code, M: 4.2mm, L: 6.4mm
											Fan diameter (cm)
											Number of fans
											Surface (m²)
											Product line code



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)
	Tc = 0°C ΔT = 8K	Tc = -18°C ΔT = 7K					Inlet	Outlet	Drain	
Fin Spacing 4.2mm										
IDB37/145M-ET	6.3	5.0	37.3	6	4800	2×10	Φ12	Φ22	G1"	65
IDB50/145M-ET	7.7	6.2	49.8	8	4500	2×10	Φ12	Φ22	G1"	70
IDB66/245M-ET	11.3	9.0	66.4	11	9600	2×12	Φ12	Φ28	G1"	110
IDB100/245M-ET	15.4	12.3	99.5	15	9000	2×12	Φ22	Φ35	G1"	120
IDB112/345M-ET	19.0	15.2	112.0	17	14400	2×15	Φ22	Φ35	G1"	158
IDB149/345M-ET	23.1	18.5	149.3	22	13500	2×15	Φ22	Φ35	G1"	173
IDB149/445M-ET	25.3	20.2	149.3	22	19200	2×18	Φ22	Φ35	G1"	208
IDB199/445M-ET	30.8	24.6	199.0	29	18000	2×18	Φ22	Φ42	G1"	225
Fin Spacing 6.4mm										
IDB25/145L-ET	5.3	4.2	25.0	6	5000	2×11	Φ12	Φ22	G1"	62
IDB34/145L-ET	6.4	5.1	33.5	8	4800	2×11	Φ12	Φ22	G1"	65
IDB45/245L-ET	9.3	7.4	44.5	11	10000	2×13	Φ12	Φ28	G1"	104
IDB67/245L-ET	12.7	10.2	66.7	15	9600	2×13	Φ22	Φ35	G1"	111
IDB75/345L-ET	15.8	12.6	75.0	17	15000	2×16	Φ22	Φ35	G1"	148
IDB100/345L-ET	19.0	15.2	100.0	22	14400	2×16	Φ22	Φ35	G1"	160
IDB100/445L-ET	21.0	16.8	100.0	22	20000	2×19	Φ22	Φ35	G1"	195
IDB133/445L-ET	25.3	20.2	133.4	29	19200	2×19	Φ22	Φ42	G1"	208

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.

4. Electrical Parameter Table

Model	Fan Motor				Defrosting		
	Voltage (V)	Power (W)	Current (A)	Rev. (r/min)	Coil (kW)	Tray (kW)	Total (kW)
IDB37/145M-ET IDB25/145L-ET	380-3	390	0.78	1365	2×0.85	2×0.9	3.5
IDB50/145M-ET IDB34/145L-ET	380-3	390	0.78	1365	4×0.85	2×0.9	5.2
IDB66/245M-ET IDB45/245L-ET	380-3	780	1.56	1365	2×1.6	2×1.6	6.4
IDB100/245M-ET IDB67/245L-ET	380-3	780	1.56	1365	4×1.6	2×1.6	9.6
IDB112/345M-ET IDB75/345L-ET	380-3	1170	2.34	1365	2×2.3	2×2.3	9.2
IDB149/345M-ET IDB100/345L-ET	380-3	1170	2.34	1365	4×2.3	2×2.3	13.8
IDB149/445M-ET IDB100/445L-ET	380-3	1560	3.12	1365	2×3.0	2×3.1	12.2
IDB199/445M-ET IDB133/445L-ET	380-3	1560	3.12	1365	4×3.0	2×3.1	18.2



Outline & Installation Dimensions

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Model	Outline Dimensions (mm)			Installation Dimensions (mm)					
	L	W	H	A	B	B1	B2	B3	Installation Hole
IDB37/145M-ET IDB25/145L-ET	1305	1130	405	1070	930	/	/	/	4- ϕ 13
IDB50/145M-ET IDB34/145L-ET	1305	1130	405	1070	930	/	/	/	4- ϕ 13
IDB66/245M-ET IDB45/245L-ET	2205	1130	405	1070	1830	930	/	/	6- ϕ 13
IDB100/245M-ET IDB67/245L-ET	2205	1130	405	1070	1830	930	/	/	6- ϕ 13
IDB112/345M-ET IDB75/345L-ET	3105	1130	405	1070	2730	930	1830	/	8- ϕ 13
IDB149/345M-ET IDB100/345L-ET	3105	1130	405	1070	2730	930	1830	/	8- ϕ 13
IDB149/445M-ET IDB100/445L-ET	4005	1130	405	1070	3630	930	1830	2730	10- ϕ 13
IDB199/445M-ET IDB133/445L-ET	4005	1130	405	1070	3630	930	1830	2730	10- ϕ 13

