



LIGHT COMMERCIAL EVAPORATOR

Capacities:

- (1) 0°C ROOM, DT1 = 8K, R449A
- (2) -18°C ROOM, DT1 = 7K, R449A

Product description:

The KD TDM is a low profile air cooler, with 6 mm fin spacing making it suitable for both chiller and freezer room applications.

Product features:

- ▶ Factory fitted electric defrost
- ▶ High efficiency internally grooved copper tube coils
- ▶ Powder coated aluminium casing
- ▶ IP66 PVC Terminal box

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TDM Evaporator

Model range

Model	Capacity	Capacity	Capacity	Capacity	Approx air throw m	No fans	Motor heat input watts/hr	Refrig. connections		Surface area m ²	Internal volume dm ³	Unit Weight Kg
	8K TD R404A	8K TD R407F	8K TD R449A	8K TD R134A				Inlet	Outlet			
TDM1-ED	1,405	1,404	1,396	1,336	7.0	2	94	1/2	5/8	4.7	1.2	16
TDM2-ED	1,992	1,992	1,982	1,909	7.0	2	94	1/2	5/8	7.0	1.6	18
TDM3-ED	3,052	3,051	3,040	2,952	7.5	3	141	1/2	5/8	10.5	2.4	25
TDM4-ED	3,401	3,400	3,389	3,302	7.5	3	141	1/2	3/4	11.9	2.7	26
TDM5-ED	4,064	4,063	4,050	3,951	8.0	4	188	1/2	3/4	13.6	3.1	30
TDM6-ED	4,605	4,604	4,592	4,494	8.0	4	188	1/2	7/8	15.9	3.6	32

Capacities are based on a room temperature of 0°C. Externally equalised expansion valves should be used on all models. TDM coolers have a white casing finish and come with factory fitted electric defrost as standard. Fan motors are 230v/1ph/50/60Hz. Air throw measured at distance at which velocity is 0.25 m/s.

Duty correction factors

Room temp °C	-30	-25	-20	-15	-10	-5	0	5
T.D. 4K	0.21	0.23	0.26	0.28	0.31	0.33	0.35	0.36
T.D. 6K	0.40	0.45	0.50	0.55	0.60	0.65	0.69	0.71
T.D. 8K	0.56	0.64	0.72	0.80	0.87	0.94	1.00	1.03
T.D. 10K	-	-	-	1.02	1.12	1.21	1.30	1.34

Refrigerant correction factors

R404a = 1.00 R134a = 0.95 R407F = 0.97

Electrical data

Common data	Unit	TDM1	TDM2	TDM3	TDM4	TDM5	TDM6
Fans	N x 0 mm	2 x 250	2 x 250	3 x 250	3 x 250	4 x 250	4 x 250
Total fan consumption	W	110	110	165	165	220	220
230v-1ph-50Hz	A	0.56	0.56	0.84	0.84	1.12	1.12
Electric defrost fitted	W	1,520	1,520	2,130	2,390	2,690	3,090

Dimensional data

Model number	Overall dimensions			Fixing dimensions	
	Length (mm)	Width (mm)	Height (mm)	Length (mm)	Width (mm)
TDM1-ED	838	256	351	654	305
TDM2-ED	838	256	351	654	305
TDM3-ED	1,138	256	351	954	305
TDM4-ED	1,258	256	351	1,074	305
TDM5-ED	1,408	256	351	1,224	305
TDM6-ED	1,608	256	351	1,424	305

Cubic evaporator

