



LIGHT COMMERCIAL EVAPORATOR

Capacities:

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

Product description:

The new KD TSE Low profile commercial cooler is a compact space saving blow through coil designed for small chillers and freezers and convenience stores. Cooling capacity from 1.1 to 5.0 kW (SC2 Conditions).

Product features:

- ▶ Factory fitted electric defrost.
- ▶ White powder coated aluminium casing.
- ▶ High efficiency internally grooved copper tube.
- ▶ Energy saving EC fans
- ▶ PVC Terminal box (IP66)
- ▶ Low profile, blow through coil

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TSE Low profile evaporator

Model Range

Model	Capacity	Capacity	Air	Air	No fans	Motor input watts/hr	Refrigeration connections		Surface area m ²	Internal volume dm ³	Unit Weight Kg
	8K TD R407F	8K TD R449A	volume m ³ /hr	throw m			Inlet	Outlet			
TSE010M1	1,136	1,129	548	5.5	1	47	1/2	1/2	4.2	1.2	13
TSE015M1	1,917	1,907	1,170	6.0	2	94	1/2	5/8	6.8	1.8	18
TSE020M1	2,403	2,393	1,096	6.0	2	94	1/2	5/8	8.5	2.1	21
TSE030M1	2,960	2,949	1,755	6.5	3	141	1/2	5/8	10.3	2.5	29
TSE040M1	3,698	3,686	1,644	6.5	3	141	1/2	3/4	12.7	3	32
TSE045M1	4,014	4,001	2,340	7.5	4	188	1/2	3/4	13.7	3.3	39
TSE050M1	5,003	4,990	2,192	7.5	4	188	1/2	7/8	16.9	3.9	41

Capacity at SC2 conditions (EN 328)

Duty correction factors

Room temp°C	-30	-25	-20	-15	-10	-5	0	5
TD: 4K	0.20	0.23	0.26	0.28	0.30	0.33	0.35	0.36
TD: 6K	0.39	0.44	0.50	0.55	0.60	0.64	0.69	0.71
TD: 8K	0.55	0.63	0.71	0.79	0.93	0.93	1.00	1.04
TD: 10K	-	-	0.97	1.01	1.11	1.20	1.29	1.35

Refrigerants correction factors

R404A = 0.95	R134A = 0.93
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Electrical data

Common data	Unit	010M1	015M1	020M1	030M1	040M1	045M1	050M1
Fans	N x Ømm	1 x 250	2 x 250	2 x 250	3 x 250	3 x 250	4 x 250	4 x 250
Total input	Watts	24	48	48	72	72	96	96
230v-1Ph-50Hz	Amps	0.25	0.5	0.5	0.75	0.75	1	1
Electric defrost	Watts	970	1,560	1,560	2,150	2,150	2,740	2,740

Dimensional data

Model	Overall dimensions			Fixing dimensions (mm)	
	Length	Depth	Height	End	Depth
TSE010M1	625	453	301	354	486
TSE015M1	945	453	301	674	486
TSE020M1	945	453	301	674	486
TSE030M1	1,265	453	301	994	486
TSE040M1	1,265	453	301	994	486
TSE045M1	1,585	453	301	1,314	486
TSE050M1	1,585	453	301	1,314	486

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