



DUAL DISCHARGE EVAPORATOR

Capacities:

SC1 = Room @ +10°C, 10Ktd

SC2 = Room @ 0°C, 8Ktd

Product description:

The KD CMS is a dual discharge evaporator designed for use in preparation rooms, packing rooms, cutting rooms or despatch rooms where personnel are working during the day. They are designed for room between +15°C and down to 0°C. The coolers are white casing finish, 6.0 mm fin spacing and available as off cycle or electric defrost.

Product features:

- ▶ Dual discharge evaporator with 6 mm fin spacing.
- ▶ Suitable for rooms between 0°C and +15°C.
- ▶ High efficiency inner grooved copper tube (DIA 3/8").
- ▶ Capacity range – 3.0 to 23.0 Kw (EN 328).
- ▶ PVC Terminal Box (IP66)
- ▶ White powder coated aluminium case.
- ▶ Versions with factory fitted electric defrost available for special order.

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CMS Evaporator

Model Range

Model	Capacity	Capacity	Capacity	Capacity	Air throw M	Connections		No of fans	Motor input watts/hr	Surface Area M ²	Internal volume dm ³
	8K TD R404A	8K TD R407F	8K TD R449A	8K TD R134A		Inlet	Outlet				
CMS-020MA	3,499	3,498	3,487	3,396	3	1/2"	7/8"	1	84	12.1	2.8
CMS-030MA	5,481	5,480	5,466	5,359	3	1/2"	7/8"	1	84	18.1	4.2
CMS-040MA	7,236	7,235	7,220	7,104	4	5/8"	1.1/8"	2	168	24.2	5.4
CMS-050MA	9,313	9,312	9,296	9,167	4	5/8"	1.1/8"	2	168	30.2	6.8
CMS-075MA	10,292	10,291	10,274	10,145	5	5/8"	1.1/8"	3	252	34.0	7.6
CMS-100MA	17,030	17,029	17,009	16,857	5	7/8"	1.3/8"	3	252	54.4	12.1
CMS-150MA	22,831	22,830	22,809	22,645	6	7/8"	1.5/8"	4	336	72.5	16.0

Capacity at SC2 conditions (EN328) - A = Air defrost, E = Electric defrost

Duty correction factors

Room temp°C	-20	-15	-10	-5	0	5	10	15
T.D.7K	-	-	-	-	0.84	0.86	0.87	0.88
T.D.8K	-	-	-	-	1.00	1.02	1.03	1.05
T.D.10K	-	-	-	-	1.30	1.33	1.35	1.37
T.D.12K	-	-	-	-	1.60	1.64	1.67	1.69

Refrigerants correction factors

R134a = 0.93 R407F = 0.97

Electrical data

Common data	Unit	CMS020M	CMS030M	CMS040M	CMS050M	CMS075M	CMS100M	CMS150M
Fans	N x Ømm	1 x 350	1 x 350	2 x 350	2 x 350	2 x 350	3 x 350	4 x 350
Total input	Watts	84	84	168	168	252	252	336
230v-1Ph-50Hz	Amps	0.37	0.37	0.74	0.74	1.11	1.11	1.48
Electric defrost*	Watts	2,160	2,160	4,160	4,160	6,160	6,160	8,200
Electric power**	Wiring	230v-1ph	230v-1ph	230v-1ph	230v-1ph	380v-3ph	380v-3ph	380v-3ph

** : Only electric defrost models.

Overall dimensions (mm)

Model	Length	Depth	Height	Weight
CMS-020MA	901.4	840.6	329.6	31
CMS-030MA	901.4	840.6	329.6	35
CMS-040MA	1,501.4	840.6	329.6	54
CMS-050MA	1,501.4	840.6	329.6	62
CMS-075MA	2,101.4	840.6	329.6	74
CMS-100MA	2,101.4	840.6	329.6	86
CMS-150MA	2,701.4	840.6	329.6	108

Fixing dimensions (mm)

Length	Depth
642	909.6
642	909.6
1,242	909.6
1,242	909.6
1,842	909.6
1,842	909.6
2,442	909.6