



GRAVITY COOLERS



KP GRAVITY COOLERS

Ekocoil KP Gravity Coolers are suitable for cold storage rooms with temperatures over + 2 °C. When the product is equipped with electrical defrost, it can be used also in lower temperatures.

The product is suitable for spaces requiring:

- Low air flow and minimal draft
- Minimal dehumidification

These kind of spaces are for example perishable goods storages and different kinds of cold rooms used to store plants and vegetables. Due to low air-flow, the spaces remain draft-free and ensuring freshness of unpacked goods.

Larger sizes are suitable for cooling industrial warehouses.

The product comes with dip tray installed.

TECHNICAL DATA

Fin spacing 8 mm

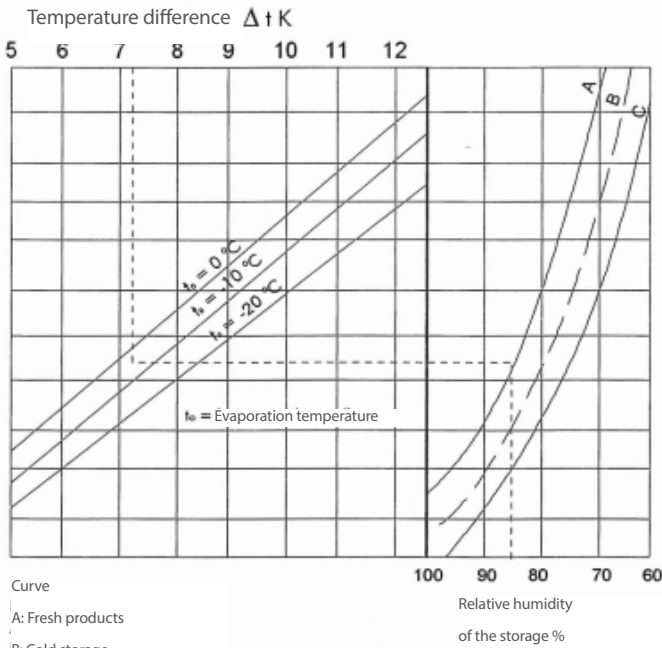
Model KP(G)	W	Surface	Dimensions		Tube joints		Vol. l	Weight
		m ²	Width mm	Height mm	Liquid	Suction		kg
426	357	7.6	490	800	1/2"	5/8"	1.3	10
428	475	10.1	490	1000	1/2"	5/8"	1.6	12
4210	592	12.6	490	1200	1/2"	5/8"	2.0	14
4212	705	15.0	490	1400	1/2"	5/8"	2.3	16
4216	945	20.1	490	1800	1/2"	5/8"	3.2	21
4221	1246	26.5	490	2300	1/2"	5/8"	3.8	26
4224	1424	30.3	490	2600	1/2"	5/8"	4.3	30
4227	1593	33.9	490	2900	1/2"	5/8"	4.8	34
4232	1889	40.2	490	3400	1/2"	5/8"	5.7	39
4236	2125	45.2	490	3800	1/2"	5/8"	6.8	44
4240	2361	50.3	490	4200	1/2"	5/8"	7.7	49
546	456	9.7	610	800	1/2"	5/8"	1.8	13
548	606	12.9	610	1000	1/2"	5/8"	2.3	16
5410	761	16.2	610	1200	1/2"	5/8"	2.8	18
5412	912	19.4	610	1400	1/2"	5/8"	3.4	21
5416	1213	25.8	610	1800	1/2"	5/8"	4.3	27
5421	1593	33.9	610	2300	1/2"	5/8"	5.7	36
5424	1821	38.7	610	2600	1/2"	5/8"	6.1	40
5427	2049	43.9	610	2900	1/2"	5/8"	7.2	45
5432	2439	51.9	610	3400	1/2"	5/8"	8.5	50
5436	2744	58.4	610	3800	1/2"	5/8"	9.6	56
5440	3049	64.9	610	4200	1/2"	5/8"	10.7	62
846	705	15.0	910	800	1/2"	5/8"	2.5	20
848	945	20.1	910	1000	1/2"	5/8"	3.1	24
8410	1180	25.1	910	1200	1/2"	5/8"	3.8	28
8412	1424	30.3	910	1400	1/2"	5/8"	4.5	34
8416	1894	40.3	910	1800	1/2"	5/8"	5.8	43
8421	2482	52.8	910	2300	1/2"	5/8"	7.5	56
8424	2837	60.3	910	2600	1/2"	5/8"	8.5	61
8427	3191	67.9	910	2900	1/2"	5/8"	9.5	67
8432	3788	80.6	910	3400	1/2"	5/8"	11.1	80
8436	4262	90.7	910	3800	1/2"	5/8"	12.4	89
8440	4735	100.8	910	4200	1/2"	5/8"	13.7	98

Defrost 230 V	
Rod pcs	Power kW
2	0.288
2	0.384
2	0.480
2	0.576
2	0.768
2	1.008
2	1.152
2	1.296
2	1.536
2	1.728
2	1.800
4	0.288
4	0.384
4	0.480
4	0.576
4	1.008
4	1.152
4	1.296
4	1.536
4	1.728
4	1.800
4	0.576
4	0.768
4	0.960
4	1.152
4	1.536
4	2.016
4	2.304
4	2.592
4	3.072
4	3.456
4	3.600

STRUCTURE

Tubes per row 60x30
 Fin spacing 8 mm
 Tube outer diameter 15 mm

The effect of evaporation temperature and air temperature difference to relative humidity of indoor air.



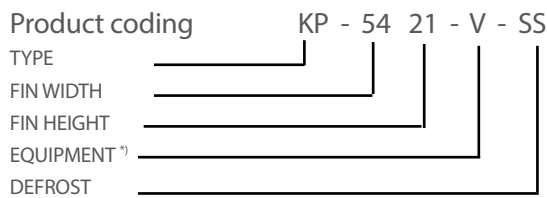
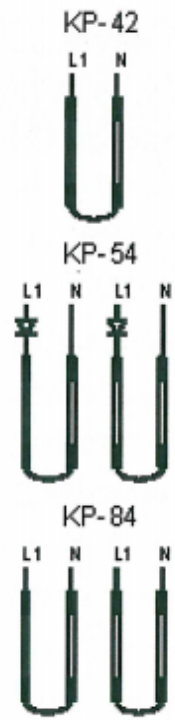
E.g: storage for unpacked meat
 $\phi = 85\%$ $t_e = -5^\circ\text{C}$ $\Delta t = 7,2\text{ K}$

Correction factor for other temperatures

K_1	Δt °C
1.00	10.0
0.95	9.6
0.90	9.4
0.85	9.0
0.80	8.7
0.75	8.4
0.70	8.0
0.65	7.6
0.60	7.2
0.55	6.7
0.50	6.4
0.45	6.0
0.40	5.5

Electrical defrost power (230V)

MODEL	KP-42	KP-54	KP-84	Power / resistor
Height	1 pair of resistors in parallel (2-resistors) Power W	2 pair of resistors in series (4-resistors) Power W	2 pair of resistors in parallel (4-resistors) Power W	Power W
6	288	288	576	144
8	384	384	768	192
10	480	480	960	240
12	576	576	1152	288
16	768	768	1536	384
21	1008	1008	2016	504
24	1152	1152	2304	576
27	1296	1296	2592	648
32	1536	1536	3072	768
36	1728	1728	3456	864
40	1800	1800	3600	900



*) thermostatic expansion valve (TXV), nozzle

EKOCOIL is one of the leading manufacturers of finned coils in the Nordic region. Our extensive product portfolio also includes air to air plate heat exchangers, dry coolers, condensers and evaporators and coolers.

Our products are easily customized and optimized. They have a wide variety of applications in different types of conditions and environments. Our Sales will help with planning and dimensioning.

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