

Liquid Coolers

VKK

Model indication

Example : VKK 8 - 215 - 1

- VKK** : liquid chiller fitted with internal fin tubes, diameter 16 mm
- 8** : shell diameter code
- 215** : Effective length in cm (nominal length)
- 1** : number of separate refrigerant circuits



Application

The type VKK liquid chillers are compactly built and suitable for direct evaporation of a H(C)FC refrigerant inside the tubes. The series comprises 22 models, which have a nominal capacity ranging from 55 up to 580 kW. The chillers are equipped with a distributor which facilitates optimal distribution of the refrigerant and baffle plates which ensure an intensive liquid flow. Pressure drop distributor approx. 1.5 bar

Design

- The shell and tube plates are steel
- Tubes : copper tubes with an aluminium internal star section
- End covers : steel, equipped with a distributor, which is mounted in the refrigerator inlet
- Connections : refrigerant side has welding / soldering stubs
- Water side has flanges, according to DIN 2633 (no counter flanges)
- Water connections, each having one connection for a thermostat or thermometer.
2 connections on the shell for purge and drainage
- The liquid chillers are fitted with supports

A TÜV test certificate is available, with the exception of the VKK 7 model

All coolers are pressure tested, vacuumed and fitted with a dry nitrogen protective filling

Refrigerant side pressure 22 bar

Water side pressure 13 bar

Cooling capacity

The nominal cooling capacity given is based on water from 12 to 7°C, refrigerant R22 and an evaporation temperature of 2°C. Superheating maximum 5 K. Capacities of other refrigerants on request.

Operating conditions

	Operating temperature		Operating pressure
	max. °C	min. °C	max. bar
Refr. side	+30	-10*	16.5
Liquid side	+30	-10*	10

* Freezing protection equipment to be provided by client

Application beyond above values possible on request only.

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Technical Data

Type VKK	Afmetingen				Nominal capacity kW	Water flow m ³ /h	E mm	N NW	S mm	T mm	Volume refrigerant dm ³	Volume water dm ³	Weight kg
	A	C	d	D									
6-215-1 6-215-2	2206	1990	159	232	55.8	9.6	210	65	28/33 2 x 28/33	42/48 2 x 28/33	6.1	20.5	120
7-215-1 7-215-2	2206	1970	178	251	74.8	12.9	215	65	35/42 2 x 28/33	42/48 2 x 35/42	8.4	28.0	155
7.5-215-1 7.5-215-2	2216	1950	194	268	95.4	16.4	230	80	35/42 2 x 28/33	54/60 2 x 42/48	10.7	31.7	180
8-215-1 8-215-2	2226	1950	219	294	119.8	20.6	240	80	35/42 2 x 28/33	54/60 2 x 42/48	13.5	41.6	230
9-215-1 9-215-2	2236	1930	245	320	151.2	26.0	260	100	35/42 2 x 35/42	67/76 2 x 42/48	17.0	51.8	275
10-215-1 10-215-2	2246	1930	267	343	174.5	30.0	265	100	35/42 2 x 35/42	67/76 2 x 42/48	19.8	64.9	315
11-215-1 11-215-2	2246	1930	267	343	194.8	33.5	265	100	35/42 2 x 35/42	67/76 2 x 54/60	22.0	59.8	330
12-215-1 12-215-2	2256	1900	299	388	236.1	40.6	285	125	35/42 2 x 35/42	67/76 2 x 54/60	27.8	74.6	400
12-340-1 12-340-2	3506	3130	299	388	351.2	60.4	285	125	42/48 2 x 35/42	80/89 2 x 67/76	42.5	118.8	570
13-340-1 13-340-2	3506	3100	324	413	418.7	72.0	300	150	54/60 2 x 35/42	80/89 2 x 67/76	50.1	141.1	660
14-340-2	3526	3100	356	447	515.2	88.6	300	150	2 x 35/42	2 x 67/76	62.3	166.6	795
15-340-2	3536	3070	406	495	581.5	100.0	350	175	2 x 34/42	2 x 67/76	78.2	226.1	945

