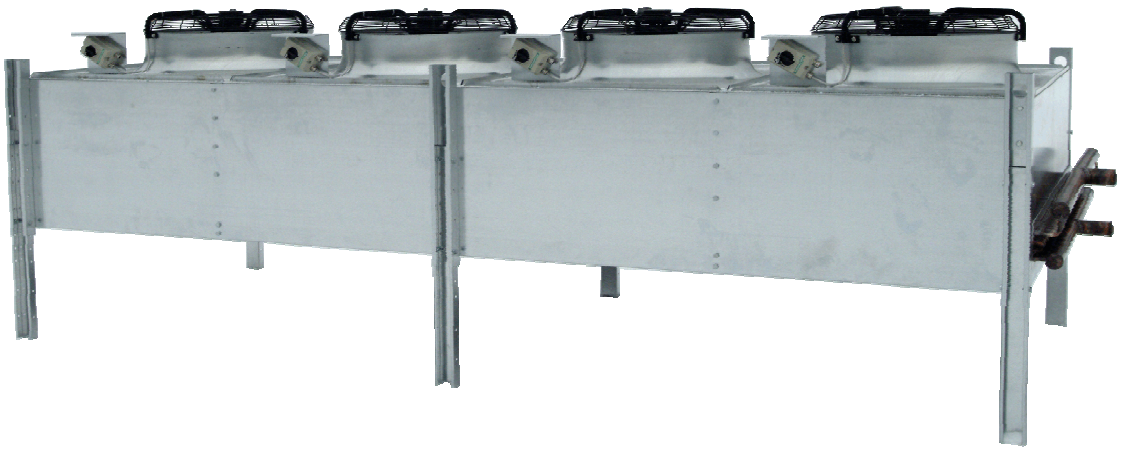
Chiller

CACC condensers
CDCC dry coolers
Capacity range 71 – 1036 kW



Characteristics
Air-cooled CACC-condensers and CDCC-dry coolers are suitable for outdoor use equipped with weather protected safety switches for every fan.

16 unit sizes and 5 different fan rotation speed options .

Two mounting alternatives:
* H-type with air flow upwards
* V-type with horizontal air flow

Accessories
* Frequency controller applied safety switches and cables
* Water jet system to increase capacity during short loading peaks
* Painted casing
* Special heat transfer materials
* Electrical board for fan motor(s) and automated control centre.

Technical data
Heat transfer section is made of copper tubes and aluminium fins. Standard fin spacing is 2,5 mm, with 2,0 mm spacing also available.
Frame is constructed of efficient corrosion protected hot-galvanised steel.
Legs height is adjustable between 400-760 mm.
Fan motors are high efficiency external ring motors with protection class IP 54.

Units are provided with partition walls between fan sections.
Condensers have neutral gas charge for preinstallation period.

Unit selection
The appropriate dry cooler can be selected using a special selection program available to our sales-man. The appropriate condenser can be selected by the same program, or by using the leaflet tables.

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Product designation

C	x	C	C	-	yyyyy	-	zzz	-	aaa	-	b	-	ccc	-	ddddd	-	f

X : A = condenser
D = dry cooler
y : unit size
z : rotation speed
a : fin step (2,5 or 2,0 mm)
b : air flow direction (H=vertically upwards; V=horizontally)
c : condenser circuits
d : condenser tubing / multicircuited dry cooler´s passes
f : accessories (D=water jet system; F=metallic safety switch; G=F+clixon…)

Fan motors electrical data

	ROTATION SPEED (code zzz)				
	430	520	690	900	950
Power input / fan [kW]	0,21	0,47	0,95	1,4	2,5
Nominal amps / fan [A] (1)	0,65	1,0	1,8	2,7	5,8
Max amps / fan [A] (2)	0,8	1,2	2,2	3,2	7,0
Mains	400 V – 50 Hz – 3 Ph				

Notes:
(1) : Nominal amps +40 ^{o} C air condition.
(2) : Max amps -30 ^{o} C ambient air condition. Motors overload protection must be calculated on the basis of motor's max amps data! Overload protectors should have +/- 20% adjusting margin for possible motor(s) performance changes.

Performance data
Page 3 values are given for conditions listed below:
*Sound pressure level dB(A) at 10 m´s distance from unit end (by ISO 3741 standard)
*Fin step 2,5 mm
*Condensing capacity by condensing temperature + 45 ^{o} C, ambient air +30 ^{o} C and refrigerant R134a or R404a.
*For dry coolers ambient air +30 ^{o} C, liquid temperatures +42/+36 ^{o} C, 35 % ethylene glycol mixture.

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Capacity data

Condensers CACC (ambient air +30 ° C, condensing temp. +45 ° C and refrigerant R134a)

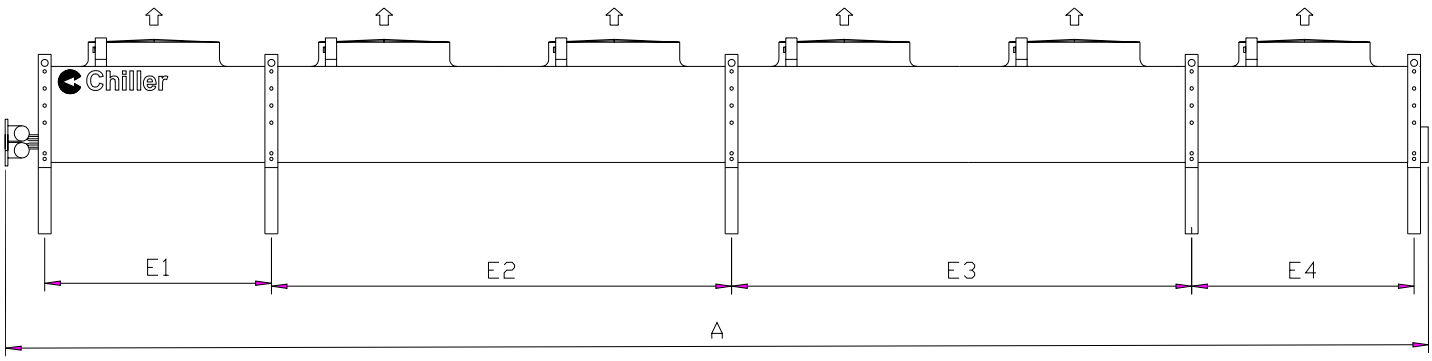
		Rotation speed (code zzz)														
		430			520			690			900			950		
Unit size	Fan placing and amount	Capacity kW	Air flow m3/s	Sound level dB(A)	Capacity kW	Air flow m3/s	Sound level dB(A)	Capacity kW	Air flow m3/s	Sound level dB(A)	Capacity kW	Air flow m3/s	Sound level dB(A)	Capacity kW	Air flow m3/s	Sound level dB(A)
112	1 x 2	71	5,2	35	86	6,7	40	105	8,9	44	123	11,5	53	146	16,3	62
212	1 x 2	76	4,9	35	95	6,4	40	117	8,5	44	140	11,0	53	170	15,3	62
313	1 x 3	107	7,8	36	129	10	41	157	13,3	45	184	17,2	54	218	24,5	64
413	1 x 3	115	7,3	36	143	9,6	41	175	12,7	45	210	16,5	54	256	23,0	64
514	1 x 4	143	10,4	37	172	13,4	42	210	17,8	46	246	23,0	55	292	32,6	65
614	1 x 4	153	9,8	37	190	12,8	42	234	17,1	46	280	22,0	55	341	30,6	65
715	1 x 5	178	13,0	38	215	16,7	43	262	22,2	47	307	28,7	56	364	40,8	66
815	1 x 5	191	12,2	38	238	16	43	292	21,2	47	350	27,5	56	426	38,3	66
926	2 x 3	204	15,0	39	247	19,8	44	302	26,4	48	352	33,9	57	437	48,9	67
1026	2 x 3	220	14,4	39	274	18,9	44	335	24,9	48	396	32,4	57	512	46,0	67
1128	2 x 4	272	20,0	40	330	26,4	45	403	35,2	49	469	45,2	58	557	64,0	68
1228	2 x 4	294	19,2	40	365	25,2	45	446	33,2	49	528	43,2	58	636	57,8	68
13210	2 x 5	340	25,0	41	412	33,1	46	502	44,1	50	583	56,5	59	697	80,0	70
14210	2 x 5	367	24,0	41	457	31,5	46	558	41,5	50	661	54,0	59	796	72,3	70
15212	2 x 6	408	30,0	41	494	39,6	46	603	52,8	50	700	57,8	59	835	96,0	71
16212	2 x 6	440	28,8	41	548	37,8	46	670	49,8	50	793	64,8	59	958	86,7	71

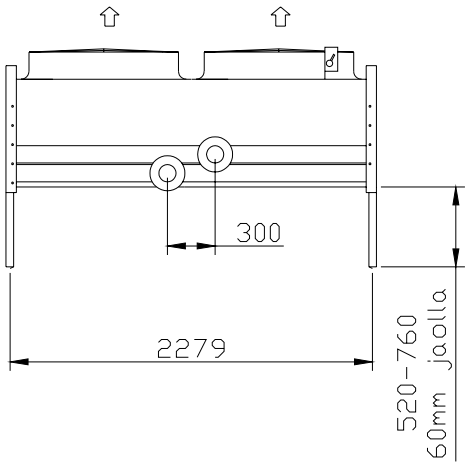
Dry coolers CDCC (ambient air +30 ° C, liquid temp. +42/+36 ° C, liquid 35 % ethylene glycol)

		Rotation speed (code zzz)														
		430			520			690			900			950		
Unit size	Fan placing and amount	Capacity kW	Air flow m3/s	Sound level dB(A)	Capacity kW	Air flow m3/s	Sound level dB(A)	Capacity kW	Air flow m3/s	Sound level dB(A)	Capacity kW	Air flow m3/s	Sound level dB(A)	Capacity kW	Air flow m3/s	Sound level dB(A)
112	1 x 2	44	5,2	35	53	6,7	40	65	8,9	44	76	11,5	53	91	16,3	62
212	1 x 2	47	4,9	35	59	6,4	40	73	8,5	44	87	11,0	53	106	15,3	62
313	1 x 3	66	7,8	36	80	10	41	98	13,3	45	114	17,2	54	135	24,5	64
413	1 x 3	71	7,3	36	87	9,6	41	109	12,7	45	130	16,5	54	159	23,0	64
514	1 x 4	89	10,4	37	107	13,4	42	130	17,8	46	153	23,0	55	181	32,6	65
614	1 x 4	95	9,8	37	118	12,8	42	145	17,1	46	174	22,0	55	212	30,6	65
715	1 x 5	110	13,0	38	134	16,7	43	163	22,2	47	191	28,7	56	226	40,8	66
815	1 x 5	119	12,2	38	148	16	43	181	21,2	47	217	27,5	56	264	38,3	66
926	2 x 3	127	15,0	39	153	19,8	44	187	26,4	48	218	33,9	57	271	48,9	67
1026	2 x 3	135	14,4	39	170	18,9	44	208	24,9	48	246	32,4	57	218	46,0	67
1128	2 x 4	169	20,0	40	205	26,4	45	250	35,2	49	291	45,2	58	346	64,0	68
1228	2 x 4	183	19,2	40	226	25,2	45	277	33,2	49	328	43,2	58	394	57,8	68
13210	2 x 5	211	25,0	41	256	33,1	46	311	44,1	50	362	56,5	59	432	80,0	70
14210	2 x 5	228	24,0	41	283	31,5	46	346	41,5	50	410	54,0	59	494	72,3	70
15212	2 x 6	253	30,0	41	306	39,6	46	374	52,8	50	434	57,8	59	518	96,0	71
16212	2 x 6	273	28,8	41	340	37,8	46	415	49,8	50	492	64,8	59	594	86,7	71

Note ! Dry cooler capacity depends of selected passes number.
Concrete selections are available by selection program.

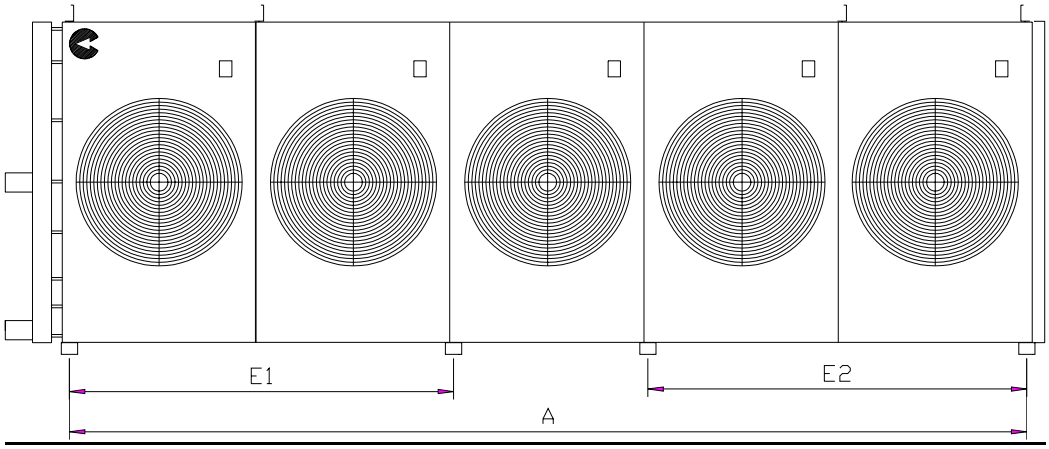
Dimensions (Aimed dimensional drawings are available by supplier)
Upwards flow (H-type)

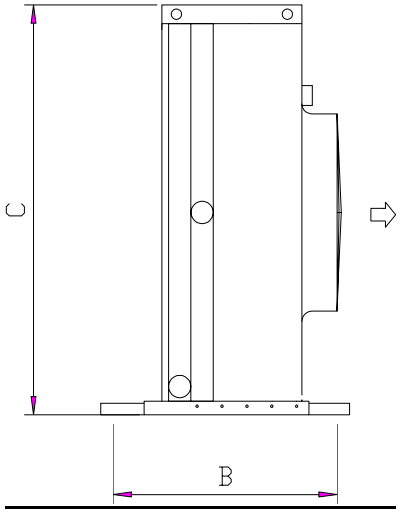




Size	Dimensions [mm]								Weight [kg]	Internal volume [l]
	A	B	C	D	E1	E2	E3	E4		
112	2502	1928	1290	1882	2128	0	0	0	427	49
212	2502	1928	1290	1882	2128	0	0	0	469	66
313	3602	1928	1290	1882	3220	0	0	0	617	73
413	3602	1928	1290	1882	3220	0	0	0	684	100
514	4702	1928	1290	1882	2175	2153	0	0	818	99
614	4720	1928	1290	1882	2175	2153	0	0	904	129
715	5802	1928	1290	1882	2175	3253	0	0	1018	117
815	5802	1928	1290	1882	2175	3253	0	0	1132	159
926	5702	2328	1290	2279	1775	3553	0	0	1138	142
1026	5702	2328	1290	2279	1775	3553	0	0	1270	192
1128	6902	2328	1290	2279	3275	3245	0	0	1435	171
1228	6902	2328	1290	2279	3275	3245	0	0	1596	231
13210	8565	2328	1290	2279	1625	3300	3245	0	1794	210
14210	8565	2328	1290	2279	1625	3300	3245	0	1995	285
15212	10217	2328	1290	2279	1625	3300	3298	1595	2152	259
16212	10217	2328	1290	2279	1625	3300	3298	1595	2394	324

Dimensions (Aimed dimensional drawings are available by supplier)
Horizontal flow (V-type)





Size	Dimensions [mm]					Weight [kg]	Internal volume [l]
	A	B	C	E1	E2		
112	2502	1200	1940	2120	0	427	49
212	2502	1200	1940	2120	0	469	66
313	3602	1200	1940	3220	0	617	73
413	3602	1200	1940	3220	0	684	100
514	4702	1200	1940	2175	2145	818	99
614	4720	1200	1940	2175	2145	904	129
715	5802	1200	1940	2175	2145	1018	117
815	5802	1200	1940	2175	2145	1132	159

CHILLER OY reserves the right to changes without prior notice.

Marketing

Chiller

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