

HYDAC INTERNATIONAL



Cabinet Cooling HCC

General

The HCC control cabinet cooler system is flexible in its installation and designed to cool control cabinets. Special heat exchanger designs ensure energy-efficient operation and a high level of operating reliability.

Regardless of the version used, whether air/air, air/water or refrigeration, the HCC series ensures optimal conditions and improved service life for your electronic components.

Product Features

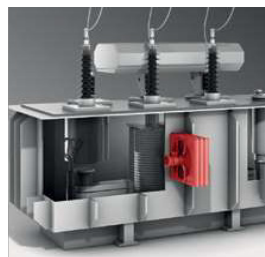
- Control cabinet cooler for roof installation or wall/door mounting
- Cooling capacities from 0.1 to 15 kW
- For all cooling applications in switchgears or control cabinets
- Stand-alone control of the system by means of innovative controller design
- Active cooler with compressor and passive cooler with air/air or air/water available

Application Field

- Machine tools
- Presses
- Milling machines
- Welding systems
- Laser cooling



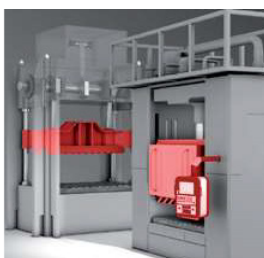
Machine tools



Thermal power plants



Plastic injection machines



Presses



Lathes



Automotive Industry

Technical Data

Active coolers



HCC-T-C



HCC-S-C

HCC-T-C top-mounted – refrigeration coolers

	Electrical supply [V - Ph - Hz]	Cooling capacity [W]	Dimensions height x width x depth [mm]	Maximum current consumption [A]	Starting current [A]	Power consumption [W]	Temperature setting range [°C]	Ambient temperature [°C]	Weight [kg]
HCC-T-C-03	230-1-50/60 115-1-60	330 270	180 x 476 x 324	1.4 2.8	5.0 10.0	240	25 - 45	20 - 55	17.0 18.0
HCC-T-C-09	230-1-50/60 115-1-60 400-2-50 460-2-60	900	335 x 600 x 325	3.2 8.0 1.8 1.8	15.0 15.0 31.0 31.0	630	25 - 45	20 - 55	31.5 31.5 33.0 33.0
HCC-T-C-14	230-1-50/60 115-1-60 400-2-50 460-2-60	1,400	450 x 600 x 400	5.2 10.0 2.8 2.8	17.0 34.0 31.0 31.0	950	25 - 45	20 - 55	48.0 48.0 53.0 53.0
HCC-T-C-20	230-1-50/60 400-2-50 460-2-60	2,000	450 x 600 x 400	5.7 3.3 3.3	22.0 31.0 31.0	1,200	25 - 45	20 - 55	51.5 58.5 58.5
HCC-T-C-28	230-1-50/60 400-3-50 460-3-60	2,700	480 x 800 x 450	7.0 2.3 2.3	38.0 16.0 16.0	1,580 1,580 1,580	25 - 45	20 - 55	74.5 76.5 76.5

Accessories: Fitted with electronic temperature regulator (except HCC-T-C-03)

Optional: Special colouring, UL design and stainless-steel housing available on request

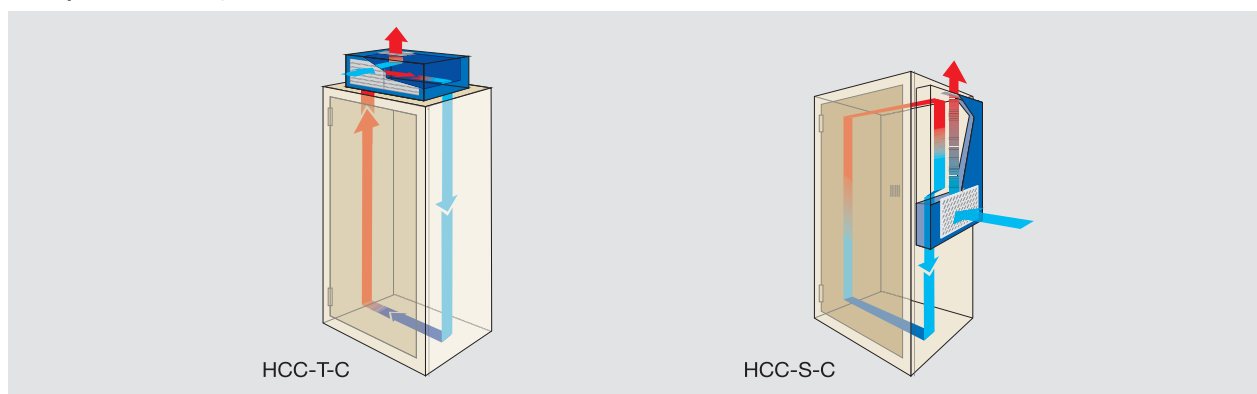
HCC-S-C side-mounted – refrigeration cooler

	Electrical supply [V - Ph - Hz]	Cooling capacity [W]	Dimensions height x width x depth [mm]	Maximum current consumption [A]	Starting current [A]	Power consumption [W]	Temperature setting range [°C]	Ambient temperature [°C]	Weight [kg]
HCC-S-C-03	230 - 1 - 50/60 115 - 1 - 60	360 - 380 380	443 x 324 x 206	1.3 / 1.4 2.9	9.8 18.0	190 - 220 220	+25 / +45	+20 / +55	17.0
HCC-S-C-05	230 - 1 - 50/60	550 - 580	642 x 313 x 223	1.35 / 1.5	15.0	310 - 340	+25 / +45	+20 / +55	23.0
	400 - 2 - 50	500		0.7	15.0	310 - 340	+25 / +45		26.0
	460 - 2 - 60	550		0.75	15.0	310 - 340	+25 / +45		23.0
	48 V DC	500		5.7	-	300	+25 / +35		23.0
	115 - 1 - 60	580		4.7	17.0	340	+25 / +45		23.0
HCC-S-C-07S	230 - 1 - 50/60	800 - 850	550 x 279 x 286	1.9 / 2.0	9.6	450 - 490	+25 / +45	+20 / +55	20.0
HCC-S-C-08	230 - 1 - 50/60	850 - 900	642 x 313 x 223	2.6 / 2.7	20.0	420 - 600	+25 / +45	+20 / +55	27.0
	400 - 2 - 50	800 - 850		1.0	20.0	420 - 600			30.0
	400 - 2 - 60	800 - 850		1.4	20.0	420 - 600			30.0
	115 - 1 - 60	900		7.2	28.0	600			27.0
HCC-S-C-11	230 - 1 - 50/60	1,100 - 1,150	912 x 410 x 248	3.1 / 3.4	18.0	510 - 650	+25 / +45	+20 / +55	44.0
	400 - 2 - 50	1,050 - 1,100		1.7 / 1.8	30.0	510 - 650			50.0
	460 - 2 - 60	1,050 - 1,100		1.7 / 1.8	30.0	510 - 650			50.0
	115 - 1 - 60	1,150		7.5	34.0	650			44.0
HCC-S-C-15	230 - 1 - 50/60	1,500 - 1,600	912 x 410 x 248	3.9 / 4.3	28.0	750 - 825	+25 / +45	+20 / +55	46.0
	400 - 2 - 50	1,400 - 1,500		2.5 / 2.6	110.0	750 - 825			53.0
	460 - 2 - 60	1,400 - 1,500		2.5 / 2.6	100.0	750 - 825			53.0
	115 - 1 - 60	1,600		9.4	50.0	825			46.0
HCC-S-C-15S	230 - 1 - 50/60	1,500 - 1,600	950 x 400 x 304	3.9 / 4.3	28.0	750 - 825	+25 / +45	+20 / +55	65.0
	400 - 3 - 50	1,400 - 1,500		2.0 / 2.2	20.0	810 - 890			
	460 - 3 - 60	1,400 - 1,500		2.0 / 2.2	20.0	810 - 890			
HCC-S-C-20	230 - 1 - 50/60	2,100 - 2,200	1,005 x 409 x 263	4.8 / 5.5	34.0	1,120 - 1,240	+25 / +45	+20 / +55	48.0
	400 - 3 - 50	2,000 - 2,100		2.5 / 2.7	22.0	1,100 - 1,200			
	460 - 3 - 60	2,000 - 2,100		2.5 / 2.7	22.0	1,100 - 1,200			
	115 - 1 - 60	2,200		60.0	60.0	1,240			
HCC-S-C-25S	230 - 1 - 50/60	2,550 - 2,750	1,580 x 400 x 305	4.2 / 5.2	18.0	1,100 - 1,280	+25 / +45	+20 / +55	65.0
	400 - 3 - 50	2,400 - 2,600		3.0 / 3.2	22.0	1,230 - 1,380			68.0
	460 - 3 - 60	2,400 - 2,600		3.0 / 3.2	22.0	1,230 - 1,380			68.0
HCC-S-C-30	230 - 1 - 50/60	3,000 - 3,150	1,217 x 511 x 347	5.0 / 5.5	35.0	1,370 - 1,510	+25 / +45	+20 / +55	75.0
	400 - 3 - 50	2,850 - 3,000		2.7 / 3.0	19.0	1,370 - 1,510			80.0
	460 - 3 - 60	2,850 - 3,000		2.7 / 3.0	19.0	1,370 - 1,510			80.0
HCC-S-C-40	230 - 1 - 50/60	4,000 - 4,100	1,217 x 511 x 347	8.2 / 9.4	42.0	1,730 - 1,950	+25 / +45	+20 / +55	80.0
	400 - 3 - 50	3,950 - 4,050		2.9 / 4.0	25.0	1,730 - 1,950			85.0
	460 - 3 - 60	3,950 - 4,050		2.9 / 4.0	25.0	1,730 - 1,950			85.0
HCC-S-C-60	400 - 3 - 50	5,600 - 5,950	1,405 x 554 x 404	4.2 / 5.7	53.0	2,670 - 3,600	+25 / +45	+20 / +55	100.0
	460 - 3 - 60	5,600 - 5,950		4.2 / 5.7		2,670 - 3,600			

Accessories: Fitted with electronic temperature regulator

Optional: Special colouring, UL design and stainless-steel housing available on request

Example installation, active cooler



HCC-T-C

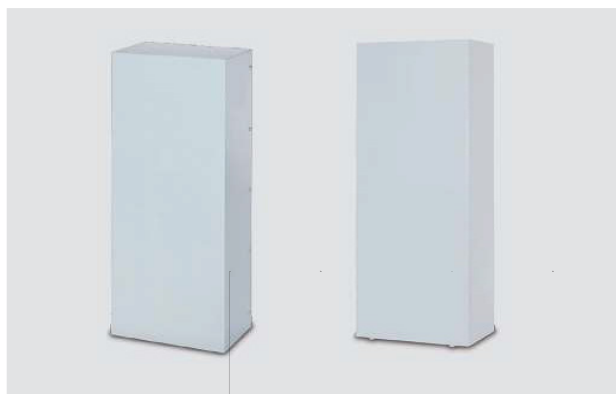
HCC-S-C

Technical Data

Passive coolers



HCC-S-AA



HCC-S-AW



HCC-T-AW

HCC-S-AA side-mounted – air/air cooler

	Electrical supply [V - Ph - Hz]	Specific capacity in watt/K	Dimensions height x width x depth [mm]	Current consumption [A]	Power consumption [W]	Temperature setting range [°C]	Ambient temperature [°C]	Weight [kg]
HCC-S-AA-16	230-1-50/60 115-1-60	16	410 x 204 x 109	0.60	64 40	-5 / +55	-5 / +55	4.6
HCC-S-AA-30	48 V DC	30	780 x 255 x 90	4.30	210	-5 / +55	-20 / +55	15.0
HCC-S-AA-35	230-1-50/60 230-1-60 115-1-60	35	780 x 254 x 90	0.72 0.80 1.10	160 150 180	-5 / +55	-5 / +55	7.5
HCC-S-AA-50	230-1-50/60 230-1-60 115-1-60	50	780 x 312 x 90	0.72 0.80 1.40	160 150 180	-5 / +55	-5 / +55	9.5
HCC-S-AA-60	230-1-50/60 48 V DC 115-1-60	60	1,030 x 365 x 110	0.76 / 0.80 4.30 2.20	170 - 180 210 265	-5 / +55	-20 / +55 -20 / +55 -40 / +55	16.0
HCC-S-AA-80	230-1-50/60 230-1-60 115-1-60	80	1,250 x 311 x 108	1.00 1.30 2.30	170 180 230	-5 / +55	-5 / +55	20.0

Optional: Special colouring, UL design and stainless-steel housing available on request

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HCC-S-AW side-mounted – air/water cooler

	Electrical supply [V - Ph - Hz]	Specific capacity T = 25 K	Dimensions height x width x depth [mm]	Current consumption [A]	Power consumption [W]	Water flow rate [l/h]	Max. water pressure [kPa]	Pressure loss, water side [kPa]	Temperature range, cabinet side [°C]	Weight [kg]
HCC-S-AW-06	230-1-50/60 230-1-60 115-1-60	870	403 x 306 x 113	0.28 / 0.24 0.50 0.50	33 / 36 24 24	150	500	2	+10 / +50 0.2 0.2	7.0
HCC-S-AW-15	230-1-50/60 230-1-60 115-1-60	2,200	916 x 402 x 206	0.26 / 0.34 0.80 0.80	58 / 75 75 90	150	1,000	30	+10 / +50 0.2 0.2	21.0
HCC-S-AW-25	230-1-50/60 230-1-60 115-1-60	3,100	916 x 402 x 206	0.38 / 0.40 1.00 1.00	85 / 90 90 115	500	1,000	63	+10 / +50 0.2 0.2	22.0
HCC-S-AW-50	230-1-50/60 230-1-60 115-1-60	6,700	916 x 402 x 206	0.70 / 0.95 1.30 2.00	115 / 215 285 155	860	1,000	40	+10 / +50 +10 / +50 +10 / +50	39.0

Optional: Thermostat with solenoid valve, special colouring, UL design and stainless-steel housing available on request

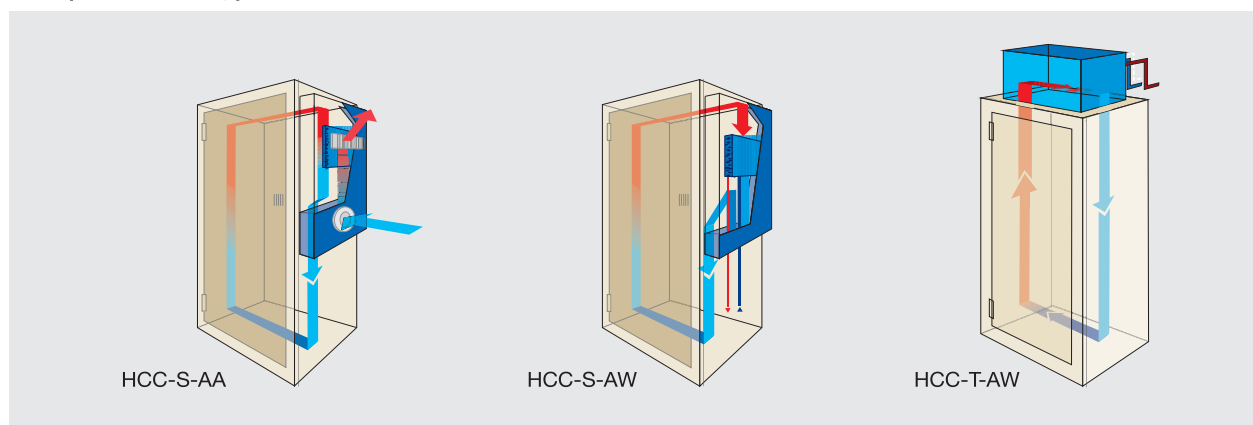
HCC-T-AW top-mounted installation – air/water coolers

	Power supply [V - Ph - Hz]	Specific capacity T = 10 °C	Dimensions height x width x depth [mm]	Maximum current consumption [A]	Power consumption [W]	Temperature setting range [°C]	Water temperature °C	Weight [kg]
HCC-T-AW-15H	230-1-50/60	2,200	200 x 800 x 400	0.26 / 0.34	58 / 75	+10 / +50	+10 / +30	30.0
HCC-T-AW-50H	230-1-50/60	6,700	255 x 905 x 509	0.70 / 0.95	155 / 215	+10 / +50	+10 / +30	39.0

Optional: Special colouring and stainless-steel housing available on request

All units are designed for indoor applications only.
Solutions for outdoor applications are available on request!

Example installation, passive cooler



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