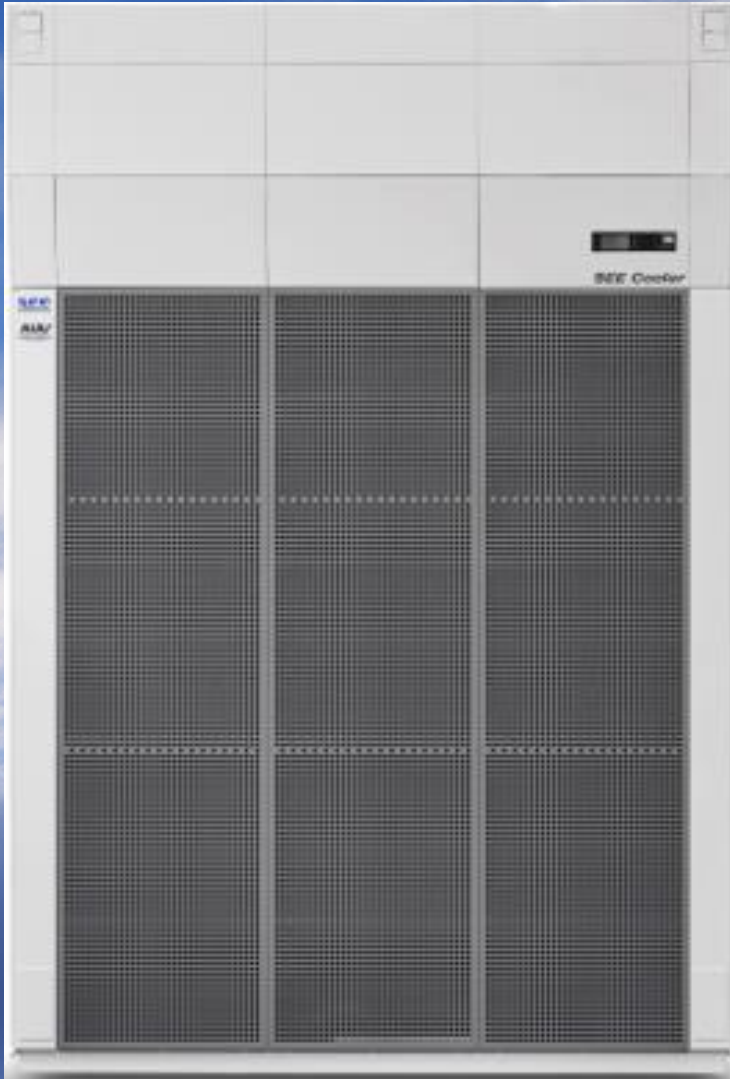


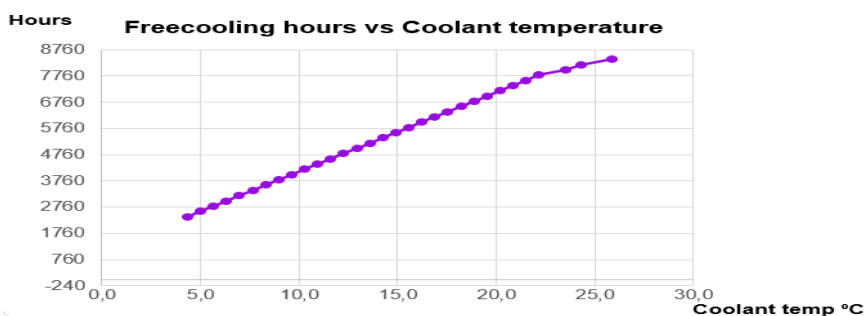
World's **Greenest** Cooling Solution

SEE Cooler HDZ

Product Information



- ✓ **Applications**
 - Cooling of modern high density datacenters.
 - Enhanced cooling of existing datacenters.
 - Cooling of low density datacenters.
- ✓ **Why choose See Cooler HDZ**
 - Extremely high reliability thanks to robust construction and thermic stability.
 - Energy-efficient with low operational costs, thanks to high cooling effect and high coolant temperature.
- ✓ **Example** COP over 70 for HDZ Coolers with Coolant up to 21 °C, 22,8 °C in cold capsulated aisle and 37,5 °C air return.
- ✓ **Three main designs** with scalable parameters



see
COOLING

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Product Information

COOLER 100 % Fan speed
 $\Delta t_{Air_{ut}}$ and $Coolant_{in} = 0,9 \text{ } ^\circ\text{C}$

COOLER 80 % Fan speed
 $\Delta t_{Air_{ut}}$ and $Coolant_{in} = 0,9 \text{ } ^\circ\text{C}$

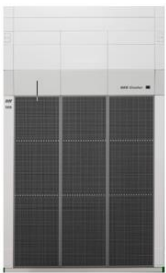
COOLER 80 % Fan speed
 $\Delta t_{Air_{ut}}$ and $Coolant_{in} = 1,8 \text{ } ^\circ\text{C}$



Air _{in}	HDZ-1	Coolant _{in} (°C)		15		22		15		22		15		22	
		Cooling capacity, sens/tot : [kW]	[L/s]; [kPa]	Coolant _{out} (°C) / S	20,7 / 20,7	11,9 / 11,9	16,5 / 16,5	9,5 / 9,5	15,6 / 15,6	8,7 / 8,7	0,90 / 29	0,60 / 13	0,50 / 40	0,38 / 23	0,35 / 20
32,5				20,5 / 10	26,8 / 10	22,9 / 6	28,0 / 6	25,7 / 6	29,7 / 6						
37,5				21,3 / 10	27,6 / 10	23,0 / 10	29,6 / 6	27,5 / 6	32,1 / 6						
42,5				22,0 / 10	28,5 / 10	23,8 / 10	31,1 / 6	29,1 / 6	34,3 / 6						



Air _{in}	HDZ-2	Coolant _{in} (°C)		15		22		15		22		15		22	
		Cooling capacity, sens/tot : [kW]	[L/s]; [kPa]	Coolant _{out} (°C) / S	41,3 / 41,3	23,8 / 23,8	33,0 / 33,0	19,1 / 19,0	31,2 / 31,2	17,4 / 17,4	1,80 / 27	1,20 / 12	1,00 / 34	0,76 / 20	0,71 / 17
32,5				20,5 / 20	26,8 / 20	22,9 / 12	28,0 / 12	25,5 / 12	29,7 / 12						
37,5				21,3 / 20	27,6 / 20	23,0 / 20	29,4 / 12	27,4 / 12	32,1 / 12						
42,5				22,0 / 20	28,5 / 20	23,8 / 20	31,1 / 12	29,1 / 12	34,0 / 12						



Air _{in}	HDZ-3	Coolant _{in} (°C)		15		22		15		22		15		22	
		Cooling capacity, sens/tot : [kW]	[L/s]; [kPa]	Coolant _{out} (°C) / S	61,9 / 61,9	35,9 / 35,9	49,4 / 49,4	28,6 / 28,6	47,0 / 47,0	25,9 / 25,9	2,70 / 30	1,90 / 15	1,50 / 33	1,15 / 19	1,08 / 17
32,5				20,5 / 30	26,5 / 30	22,9 / 18	28,0 / 18	25,4 / 18	29,8 / 18						
37,5				21,3 / 30	27,4 / 30	23,9 / 18	29,4 / 18	27,3 / 18	32,1 / 18						
42,5				22,0 / 30	28,5 / 30	23,6 / 30	30,8 / 18	29,2 / 18	34,0 / 18						

	HDZ-1	HDZ-2	HDZ-3
Type of fan	EC	EC	EC
Number of fans	1	2	3
Max currenxy (Amp)	1 x 1,7	2 x 1,7	3 x 1,7
Power supply	1-fas 230V	1-fas 230V	1-fas 230V
Max airflow (kubikmeter/h)	11520	7680	3840
Airflow 80% (kubikmeter/h)	9216	6144	3072
Max tot power absorption (kW)	0,38	0,76	1
Tot power absorption 80% (kW)	0,2	0,4	1
Double coolant circuits alt 1	Tillval	Tillval	Tillval
Double coolant circuits alt 2	Tillval	Tillval	Tillval
Control unit	Tillval	Tillval	Tillval
Control valve(s)	Tillval	Tillval	Tillval
Emergency function	Standard	Standard	Standard
Connection coolant	DN 42	DN 42	DN 42
Soundlevel 80% airflow (dB)	47	50	52
Width (mm)	725	1225	1725
Lowest height (mm)	2230	2230	2230
Depth (mm)	470/510	470/510	470/510
Dry weight (kg)	183	279	380

