

COOLING PARAMETERS

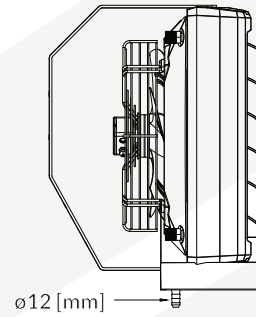
Condensation may appear on HC-3S series units used as cooling equipment. For this reason, we recommend using heaters with a drip tray (product code DTFHC15-2428/DTFWHHC2045/ DTFWHHC5080). Installation of HC-3S series unit together with the drip tray is only possible for wall mounting (see section WALL MOUNTING). The device should only be mounted leveled.



In a case of increased condensation, it is recommended to reduce either the waterflow (by adjusting regulating valve or pump speed) or airflow (by lower fan speed). It enable to decrease the amount of condensate taken up by the blown air.



The drainage installation should be executed to remove condensated water. Connect hose to the drip tray connector for drain the condensate to the sawage system.



Parameters	HC15-3S III stage 1500 [m ³ /h]									
	5/10					6/12				
Supply/return water temperature [°C]										
Dry bulb air inlet temperature [°C]	24	26	28	30	32	24	26	28	30	32
Relative humidity of the air at the inlet [%]	55	55	55	55	55	55	55	55	55	55
Cooling capacity [kW]	3.6	4.5	5.5	6.5	7.5	2.7	3.6	4.6	5.6	6.7
Dry bulb air outlet temperature [°C]	18.3	19.5	20.8	22.1	23.5	19.5	20.5	21.7	22.9	24.3
Water flow [m ³ /h]	0.62	0.77	0.94	1.10	1.30	0.38	0.52	0.66	0.80	0.95
Pressure drop in the heat exchanger [kPa]	32	48	67	91	119	14	23	36	51	69

Parameters	HC20-3S III stage 3200 [m ³ /h]									
	5/10					6/12				
Supply/return water temperature [°C]										
Dry bulb air inlet temperature [°C]	24	26	28	30	32	24	26	28	30	32
Relative humidity of the air at the inlet [%]	55	55	55	55	55	55	55	55	55	55
Cooling capacity [kW]	3.3	3.8	4.5	4.9	5.4	2.6	3.2	3.7	4.2	4.8
Dry bulb air outlet temperature [°C]	20.9	22.4	23.9	25.3	26.7	21.5	23.0	24.5	25.9	27.4
Water flow [m ³ /h]	0.56	0.65	0.75	0.84	0.93	0.38	0.45	0.53	0.61	0.68
Pressure drop in the heat exchanger [kPa]	3	4	5	6	7	1	2	2	3	4

Parameters	HC30-3S III stage 3100 [m ³ /h]									
	5/10					6/12				
Supply/return water temperature [°C]										
Dry bulb air inlet temperature [°C]	24	26	28	30	32	24	26	28	30	32
Relative humidity of the air at the inlet [%]	55	55	55	55	55	55	55	55	55	55
Cooling capacity [kW]	4.0	4.6	5.3	6.0	11.8	3.2	3.8	4.5	5.2	5.8
Dry bulb air outlet temperature [°C]	20.2	21.5	22.8	24.1	25.3	20.9	22.2	23.6	24.9	26.2
Water flow [m ³ /h]	0.68	0.79	0.91	1.02	2.02	0.45	0.55	0.64	0.74	0.83
Pressure drop in the heat exchanger [kPa]	4	5	6	8	28	2	3	3	4	5

Parameters	HC35-3S III stage 2700 [m ³ /h]									
	5/10					6/12				
Supply/return water temperature [°C]										
Dry bulb air inlet temperature [°C]	24	26	28	30	32	24	26	28	30	32
Relative humidity of the air at the inlet [%]	55	55	55	55	55	55	55	55	55	55
Cooling capacity [kW]	4.7	5.5	9.2	11.5	13.9	3.9	4.6	5.3	9.2	11.5
Dry bulb air outlet temperature [°C]	18.8	19.9	20.9	22.1	23.3	19.7	20.8	22.0	22.9	24.1
Water flow [m ³ /h]	0.81	0.93	1.58	1.97	2.38	0.55	0.66	0.76	1.31	1.65
Pressure drop in the heat exchanger [kPa]	3	4	10	15	21	1	2	2	7	10

Parameters	HC45-3S III stage 2500 [m ³ /h]									
	5/10					6/12				
Supply/return water temperature [°C]										
Dry bulb air inlet temperature [°C]	24	26	28	30	32	24	26	28	30	32
Relative humidity of the air at the inlet [%]	55	55	55	55	55	55	55	55	55	55
Cooling capacity [kW]	9.4	12.1	14.9	OF*	OF*	6.2	9.5	12.3	15.4	18.6
Dry bulb air outlet temperature [°C]	15.3	16.2	17.0	OF*	OF*	16.5	17.3	18.1	19.0	19.8
Water flow [m ³ /h]	1.62	2.07	2.55	OF*	OF*	0.89	1.36	1.76	2.19	2.66
Pressure drop in the heat exchanger [kPa]	27	43	63	OF*	OF*	9	20	32	47	67

Parameters	HC50-3S III stage 5000 [m ³ /h]									
	5/10					6/12				
Supply/return water temperature [°C]										
Dry bulb air inlet temperature [°C]	24	26	28	30	32	24	26	28	30	32
Relative humidity of the air at the inlet [%]	55	55	55	55	55	55	55	55	55	55
Cooling capacity [kW]	8.6	9.8	17.7	21.4	OF*	7.4	8.6	9.8	18.2	22.2
Dry bulb air outlet temperature [°C]	18.8	20.0	21.2	22.5	OF*	19.6	20.8	22.0	23.1	24.5
Water flow [m ³ /h]	1.48	1.69	3.03	3.67	OF*	1.06	1.23	1.40	2.60	3.16
Pressure drop in the heat exchanger [kPa]	12	16	47	67	OF*	7	9	11	35	51

Parameters	HC70-3S III stage 3400 [m ³ /h]									
	5/10					6/12				
Supply/return water temperature [°C]										
Dry bulb air inlet temperature [°C]	24	26	28	30	32	24	26	28	30	32
Relative humidity of the air at the inlet [%]	55	55	55	55	55	55	55	55	55	55
Cooling capacity [kW]	13.7	17.5	21.6	25.9	30.5	9.1	13.9	18.0	22.3	26.9
Dry bulb air outlet temperature [°C]	14.9	15.6	16.4	17.2	18.0	16.0	16.8	17.6	18.4	19.1
Water flow [m ³ /h]	2.35	3.00	3.70	4.44	5.23	1.29	1.98	2.56	3.18	3.84
Pressure drop in the heat exchanger [kPa]	21	34	50	70	96	7	15	25	37	53

Parameters	HC80-3S III stage 4200 [m ³ /h]									
	5/10					6/12				
Supply/return water temperature [°C]										
Dry bulb air inlet temperature [°C]	24	26	28	30	32	24	26	28	30	32
Relative humidity of the air at the inlet [%]	55	55	55	55	55	55	55	55	55	55
Cooling capacity [kW]	15.6	20.0	24.7	29.6	35.0	10.3	15.7	20.4	25.4	30.8
Dry bulb air outlet temperature [°C]	15.4	16.3	17.1	18.0	18.9	16.6	17.4	18.2	19.1	19.9
Water flow [m ³ /h]	2.67	3.42	4.22	5.08	5.99	1.48	2.25	2.92	3.63	4.40
Pressure drop in the heat exchanger [kPa]	27	43	64	91	124	9	19	32	48	69

*OF - means that for such parameters it is not recommended to operate the device due to overflow.