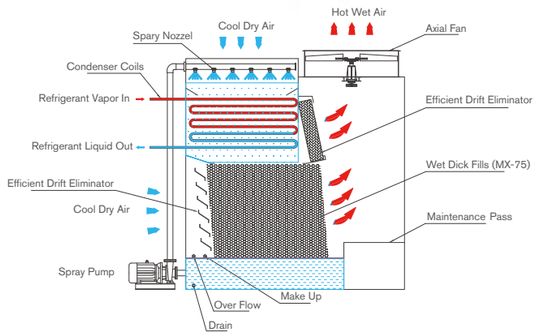
GZM SERIES

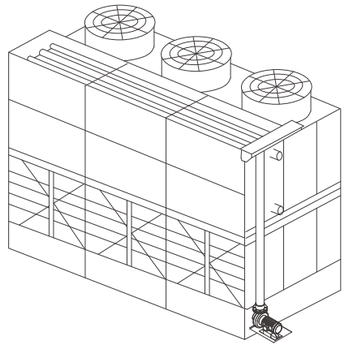
EVAPORATIVE CONDENSER

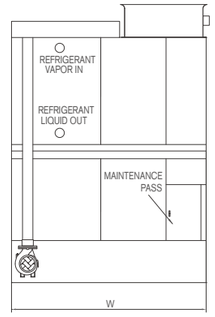
GZM Series Evaporative Condensers are made in the same types of materials as GHM and GTM Series, and of similar working theory as a type of Evaporative Coolers, but designed dedicatedly to cool process fluids of refrigerant, of which the forms are changed during the process.

The equipment utilize the evaporation of partial spray water, to absorb the heat from the flowing gaseous refrigerant of high temperature inside the condensing coils, and cool the refrigerant from gaseous state to liquid form.

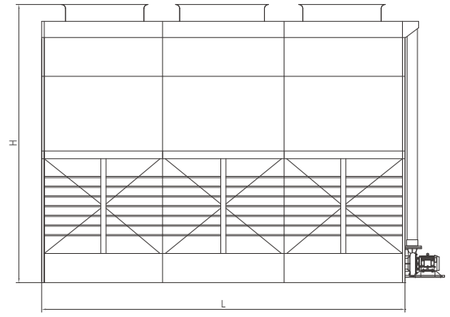
In a complete evaporative cooling system, compressor discharges high pressure evaporated refrigerant in gas form, which passes through the heat exchange coils of evaporative condenser, and exchanges heat with spray water outside the heat exchange coils. After entering heat exchange coils from upper inlet, gaseous refrigerant is gradually cooled to be liquid form from top down. The strong wind of fans makes spray water fully cover the heat exchange surface of the coils evenly, and this tremendously increases the heat exchange efficiency. Partial calefactive spray water gets vaporized and takes away massive heat with the air flow. Small water drops in hot air are intercepted by high efficient drift eliminator, collected and fall back to wet deck fills together with hot spray water, then gets cooled by flowing air, eventually return to the spray water basin after temperature decreased. This whole process is recycling by the circulating pump , and the evaporated spray water is made up automatically by water level regulator.







VIEW 1



VIEW 2

Model No.	Nominal Tons	Fan		Spray Pump		Gas Inlet	Liquid Outlet	Overall Dimensions(mm)			Weight	
		Power (kW)	Air Volumn (m^3/s)	Power (kW)	Flow Rate (T/h)			L	W	H	Net (kg)	Operation (kg)
GZM-100	100	1.1	3.9	0.75	16	DN40	DN32	1130	770	2800	500	970
GZM-115	115	1.5	5	0.75	16	DN40	DN32	1150	890	3025	600	1070
GZM-130	130	1.5	5	0.75	16	DN40	DN32	1150	890	3025	620	1100
GZM-145	145	1.5	5.6	0.75	16	DN40	DN32	1160	1050	3075	800	1280
GZM-160	160	1.5	5.6	0.75	16	DN40	DN32	1160	1050	3075	820	1300
GZM-180	180	2.2	6.9	0.75	16	DN80	DN80	1710	1125	3210	1150	1630
GZM-200	200	2.2	6.9	0.75	16	DN80	DN80	1710	1125	3210	1170	1650
GZM-220	220	3	7.5	0.75	16	DN80	DN80	1835	1220	3210	1250	1950
GZM-240	240	3	7.5	0.75	16	DN80	DN80	1835	1220	3210	1270	1970
GZM-280	280	3	8.9	0.75	16	DN80	DN80	1680	1220	3400	1200	1900
GZM-300	300	3	8.9	0.75	16	DN80	DN80	1680	1220	3400	1220	1920
GZM-320	320	4	11.1	0.75	16	DN80	DN80	1880	1250	3400	1400	2100
GZM-340	340	4	11.1	0.75	16	DN80	DN80	1880	1250	3400	1420	2120
GZM-360	360	4	12.5	0.75	22	DN80	DN80	2000	1350	3400	1650	2350
GZM-380	380	4	12.5	0.75	22	DN80	DN80	2000	1350	3400	1670	2370
GZM-400	400	4	12.5	0.75	22	DN80	DN80	2000	1350	3400	1690	2390
GZM-430	430	4	18.1	1.5	45	DN100	DN100	1830	2410	4300	2490	3830
GZM-475	475	4	18.1	1.5	45	DN100	DN100	1830	2410	4300	2700	4050
GZM-495	495	5.5	19.7	1.5	45	DN100	DN100	1830	2410	4300	2710	4060
GZM-550	550	4	17.6	2.2	75	DN100	DN100	1930	3010	4350	3310	4980
GZM-595	595	5.5	21.7	2.2	75	DN100	DN100	1930	3010	4350	3320	4990
GZM-670	670	5.5	21.7	2.2	75	DN100	DN100	1930	3010	4350	3700	5380
GZM-700	700	5.5	21.7	2.2	75	DN100	DN100	1930	3010	4950	3800	5890
GZM-735	735	7.5	24.2	2.2	75	DN100	DN100	1930	3010	4950	3810	5900
GZM-780	780	5.5	22.2	2.2	75	DN100	DN100	1985	3210	4990	4040	6200
GZM-870	870	7.5	27.8	2.2	75	DN100	DN100	1985	3210	4990	4050	6210
GZM-940	940	11	34.7	2.2	75	DN100	DN100	1985	3210	4990	4060	6220
GZM-960	960	4.0×2	18.1×2	2.2	114	DN100×2	DN100	3575	2410	4300	4920	7590
GZM-1000	1000	5.5×2	19.7×2	2.2	114	DN100×2	DN100	3575	2410	4300	4940	7610
GZM-1050	1050	7.5×2	21.9×2	2.2	114	DN100×2	DN100	3575	2410	4300	4960	7630
GZM-1165	1165	4.0×2	17.6×2	3.7	140	DN100×2	DN100	3775	2710	4950	6070	10210
GZM-1285	1285	5.5×2	21.7×2	3.7	140	DN100×2	DN100	3775	2710	4950	6090	10230
GZM-1335	1335	7.5×2	24.2×2	3.7	140	DN100×2	DN100	3775	2710	4950	6110	10250
GZM-1420	1420	5.5×2	21.7×2	3.7	140	DN100×2	DN100	3775	3010	4950	7050	11250
GZM-1490	1490	7.5×2	24.2×2	3.7	140	DN100×2	DN100	3775	3010	4950	7070	11270

NOTE

Nominal Tons are based upon condensing temp. 37°C/ 98.6°F, WBT 26°C/ 78.8°F.