

# LRT - xxx L (UL) / S

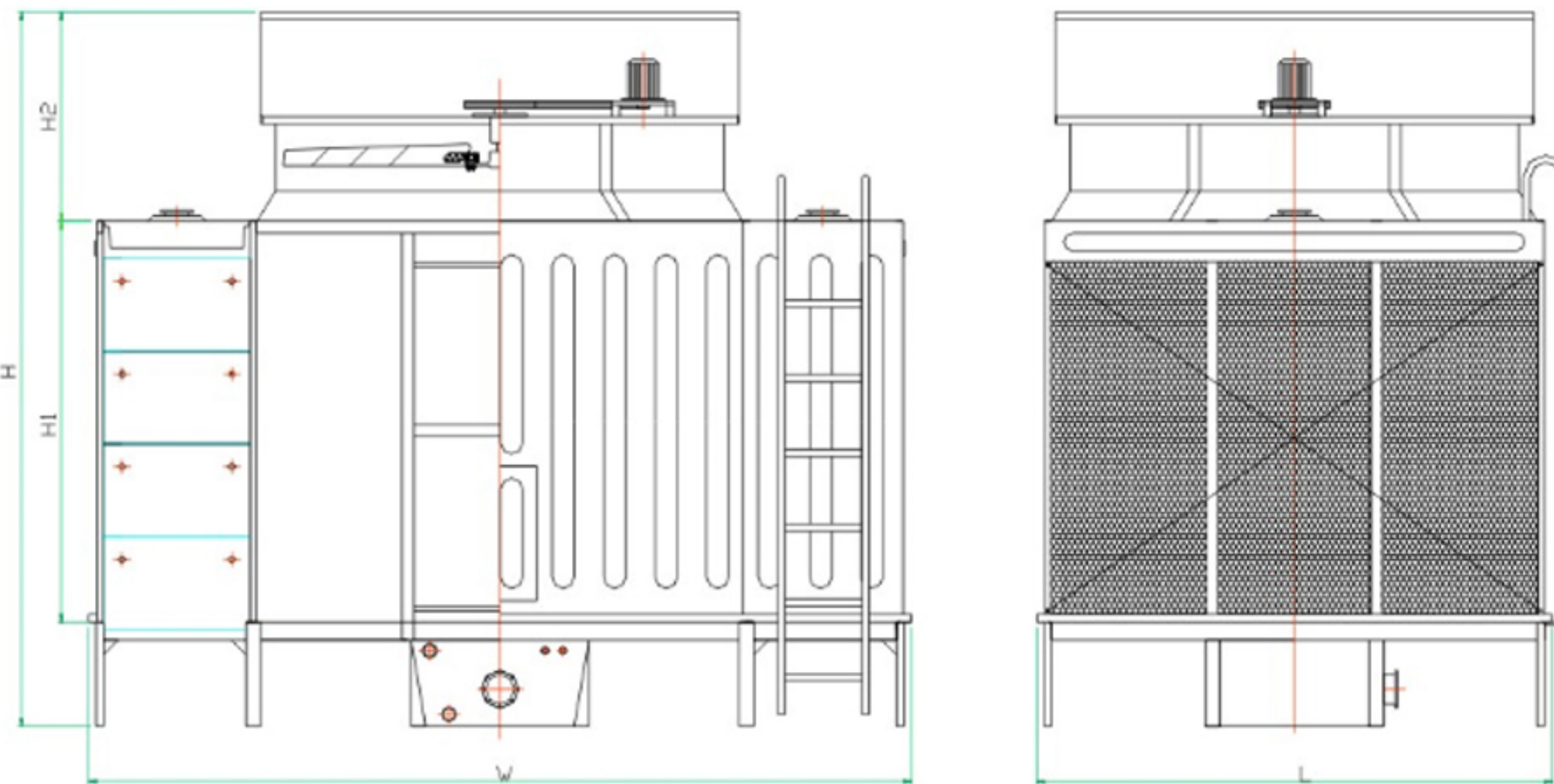
Square type crossflow cooling tower

Circulating water flow

Low noise type

Ultralow noise type

Single fan



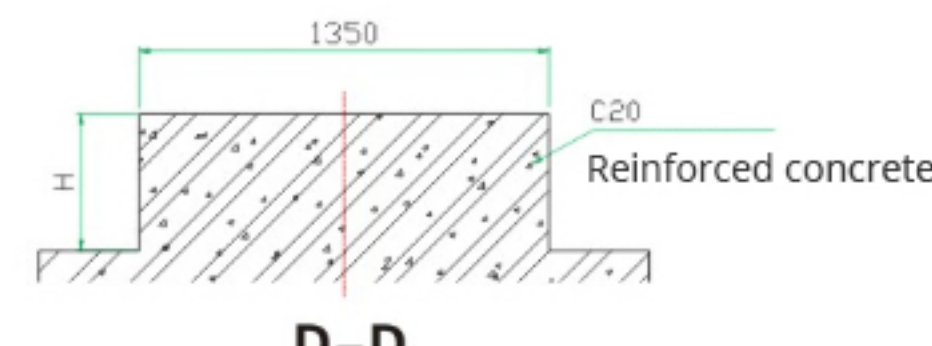
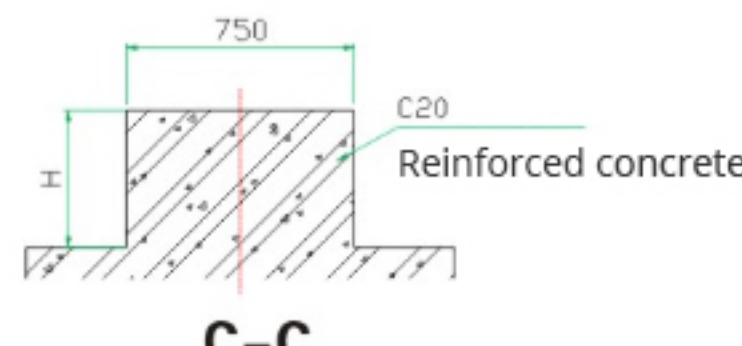
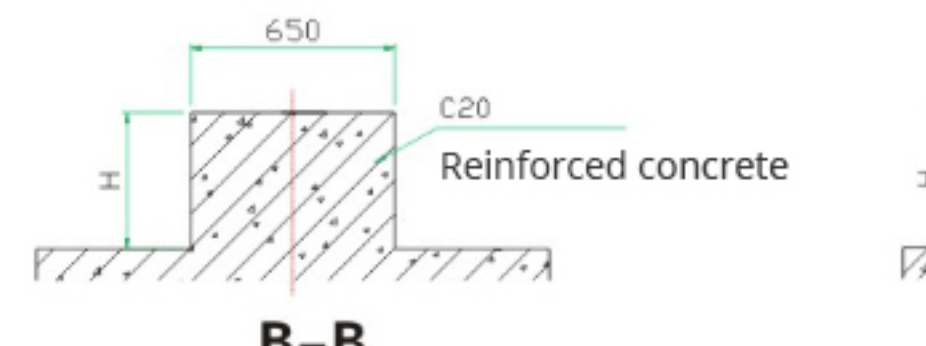
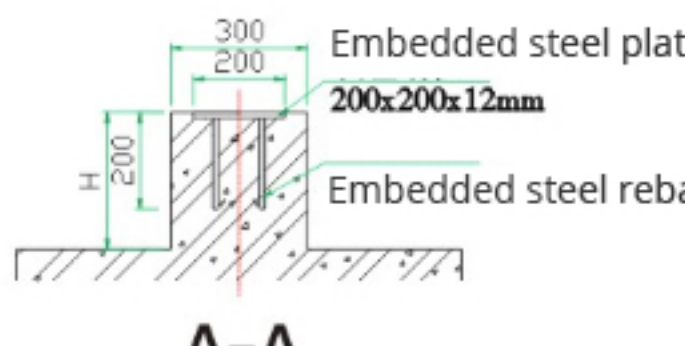
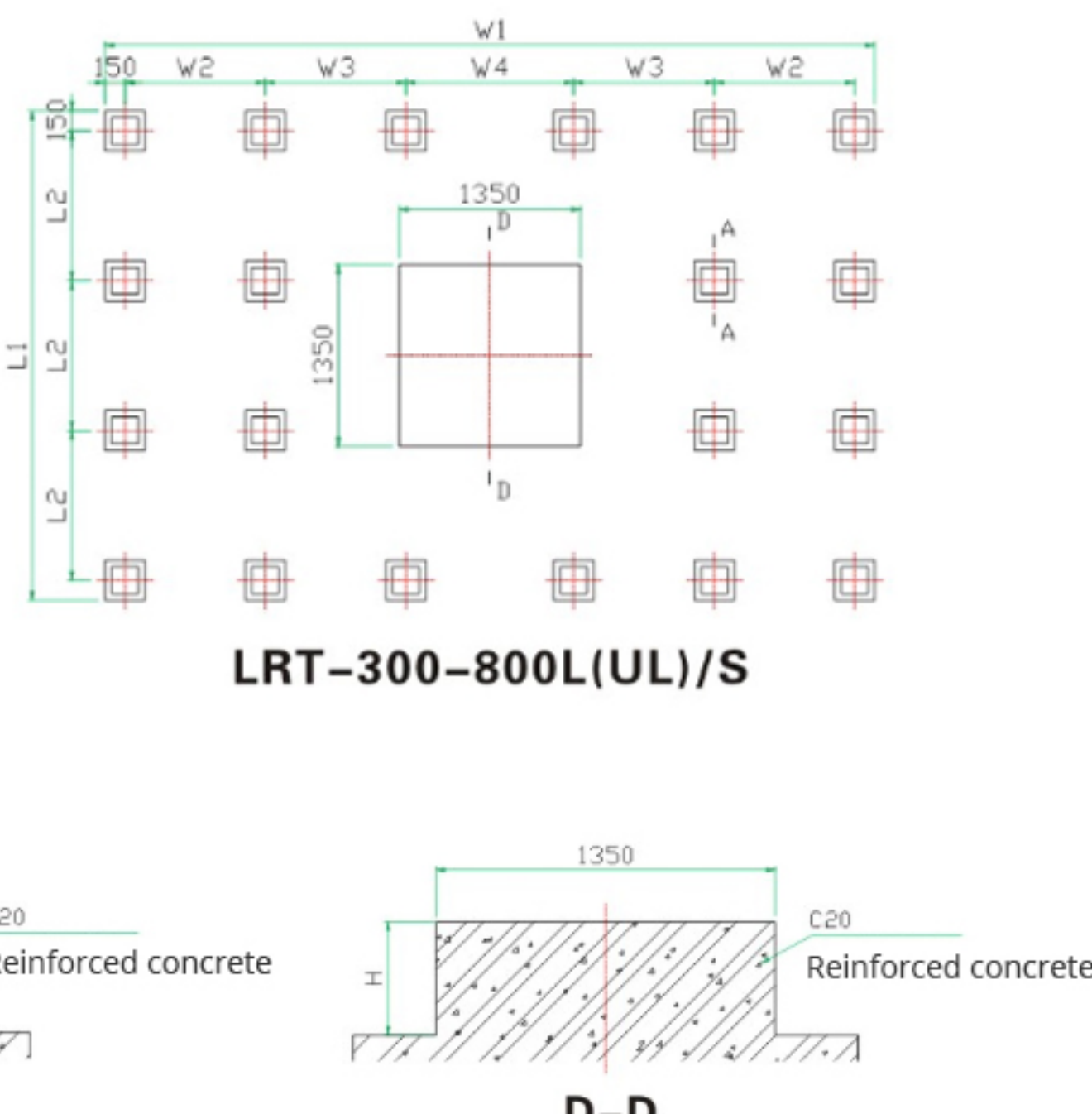
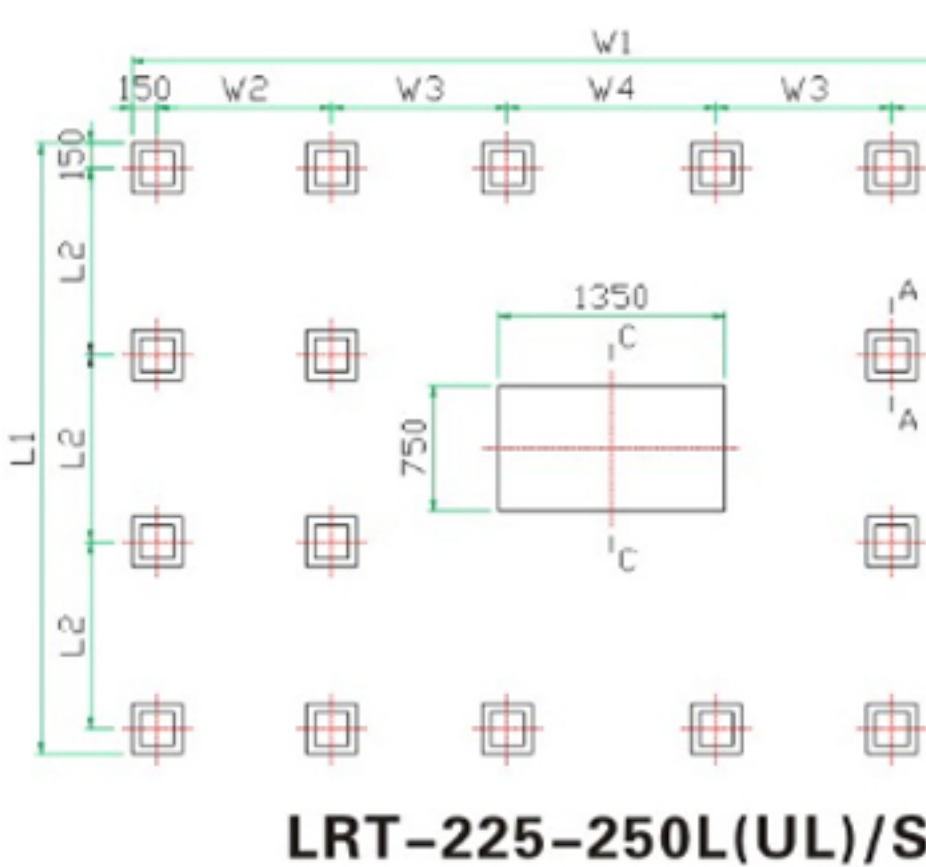
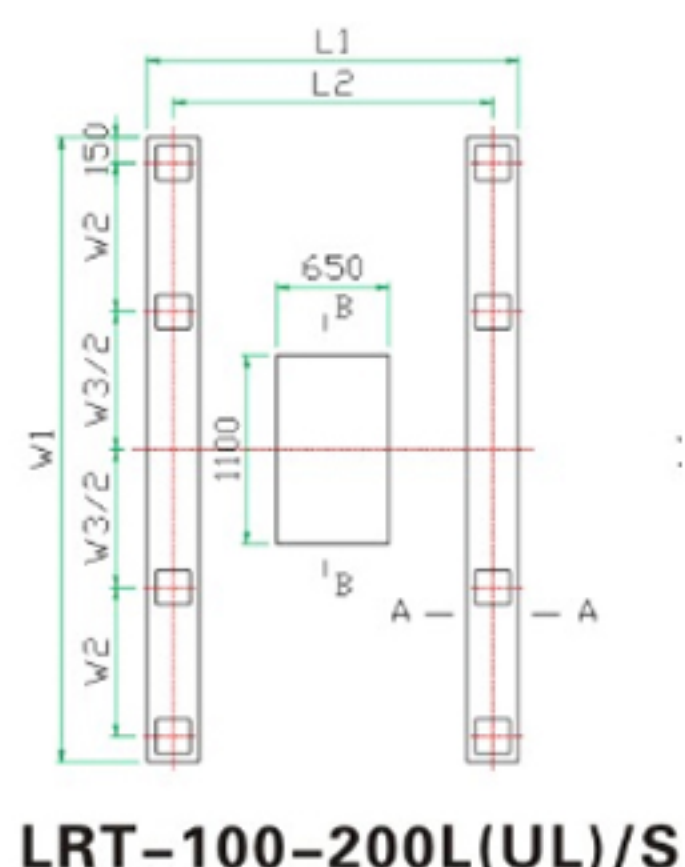
## Design condition

- Inlet water temperature:  $T_1=37^\circ\text{C}$
- Outlet water temperature:  $T_2=32^\circ\text{C}$
- Wet bulb temperature:  $TWB=27^\circ\text{C}$

- Dry bulb temperature:  $T=31.8^\circ\text{C}$
- Atmospheric pressure:  $P=9.94 \times 10^4 \text{ Pa}$

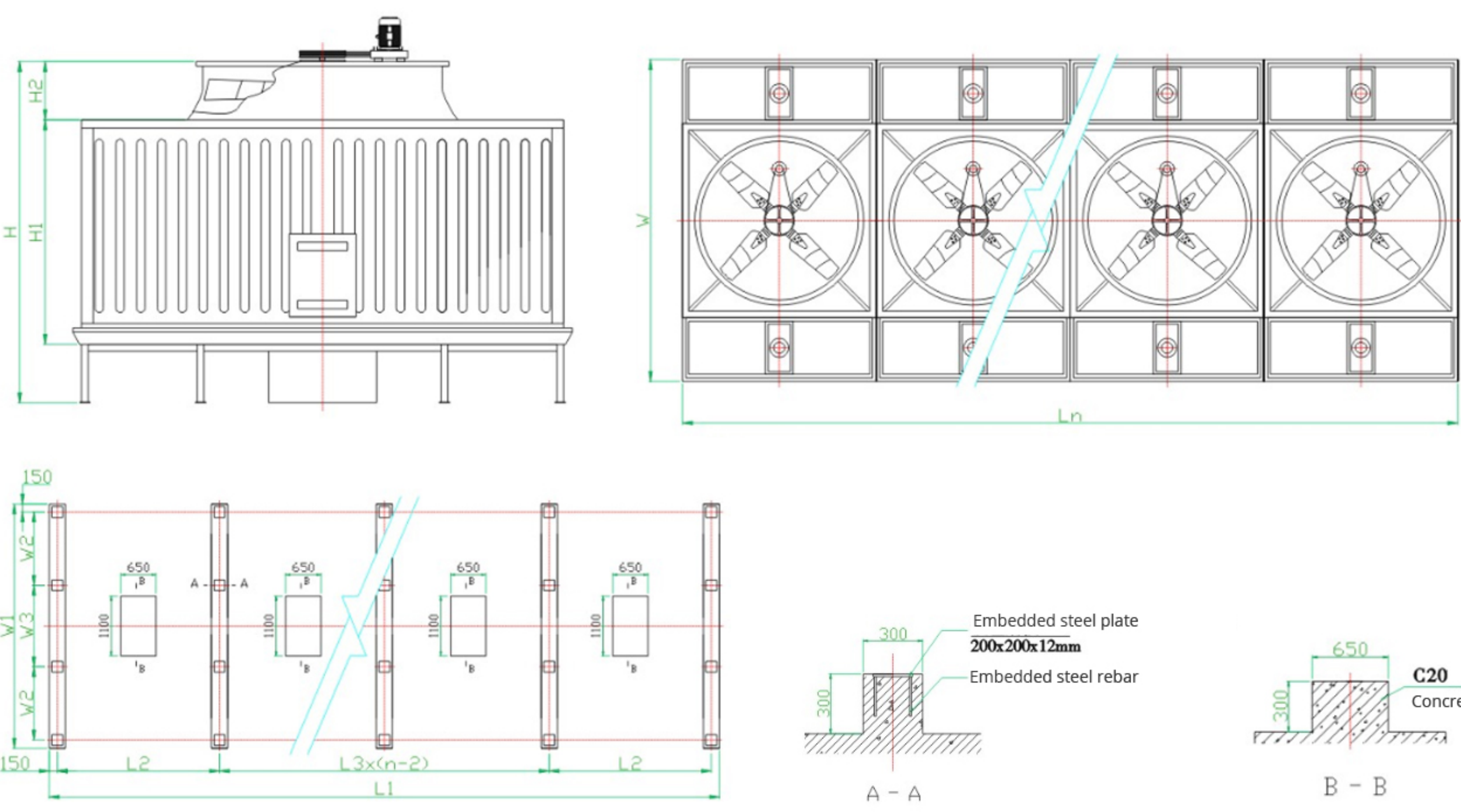
## Selection table for ultra-low noise type crossflow cooling towers

Model	Overall dimension					Cooling flow rate (m <sup>3</sup> /h)	Fan $\Phi$ (mm)	Motor (HP)	Weight (Kg)		Noise (dB)
	L	w	H	Tower body H1	Fan cylinder H2				Net weight	Running weight	
LRT-100UL/S	1970	3300	4400	2300	1400	100	1470	2	1045	1660	57
LRT-125UL/S	2360	3600	4400	2300	1400	125	1800	5	1160	2680	58
LRT-150UL/S	2650	3900	4400	2300	1400	150	2100	5	1300	2900	59
LRT-175UL/S	2650	3900	4400	2300	1400	175	2100	7.5	1420	3220	59
LRT-200UL/S	3090	4300	4400	2300	1400	200	2400	7.5	1590	3680	60
LRT-225UL/S	2900	4990	4780	2680	1400	225	2400	7.5	1860	3950	60
LRT-250UL/S	3150	4990	4780	2680	1400	250	2400	10	2590	4790	60.5
LRT-300UL/S	3500	5590	4780	2680	1400	300	3000	15	2780	5840	61
LRT-350UL/S	3600	5590	4780	2680	1400	350	3000	15	3090	6220	61.5
LRT-400UL/S	3840	5930	5130	2680	1750	400	3330	15	3490	6930	62
LRT-450UL/S	4090	5930	5130	2680	1750	450	3330	20	3910	7600	62.3
LRT-500UL/S	4350	6080	5750	3300	1750	500	3330	20	4510	8460	62.7
LRT-600UL/S	4650	6400	5750	3300	1750	600	3700	25	4970	9310	63.5
LRT-700UL/S	4950	6400	6350	3900	1750	700	3700	30	5390	9960	65
LRT-800UL/S	5250	6900	6400	3900	1800	800	4200	30	6020	11110	65.5



## Outline dimensional drawing, foundation drawing of LRT-100L-200L combined type

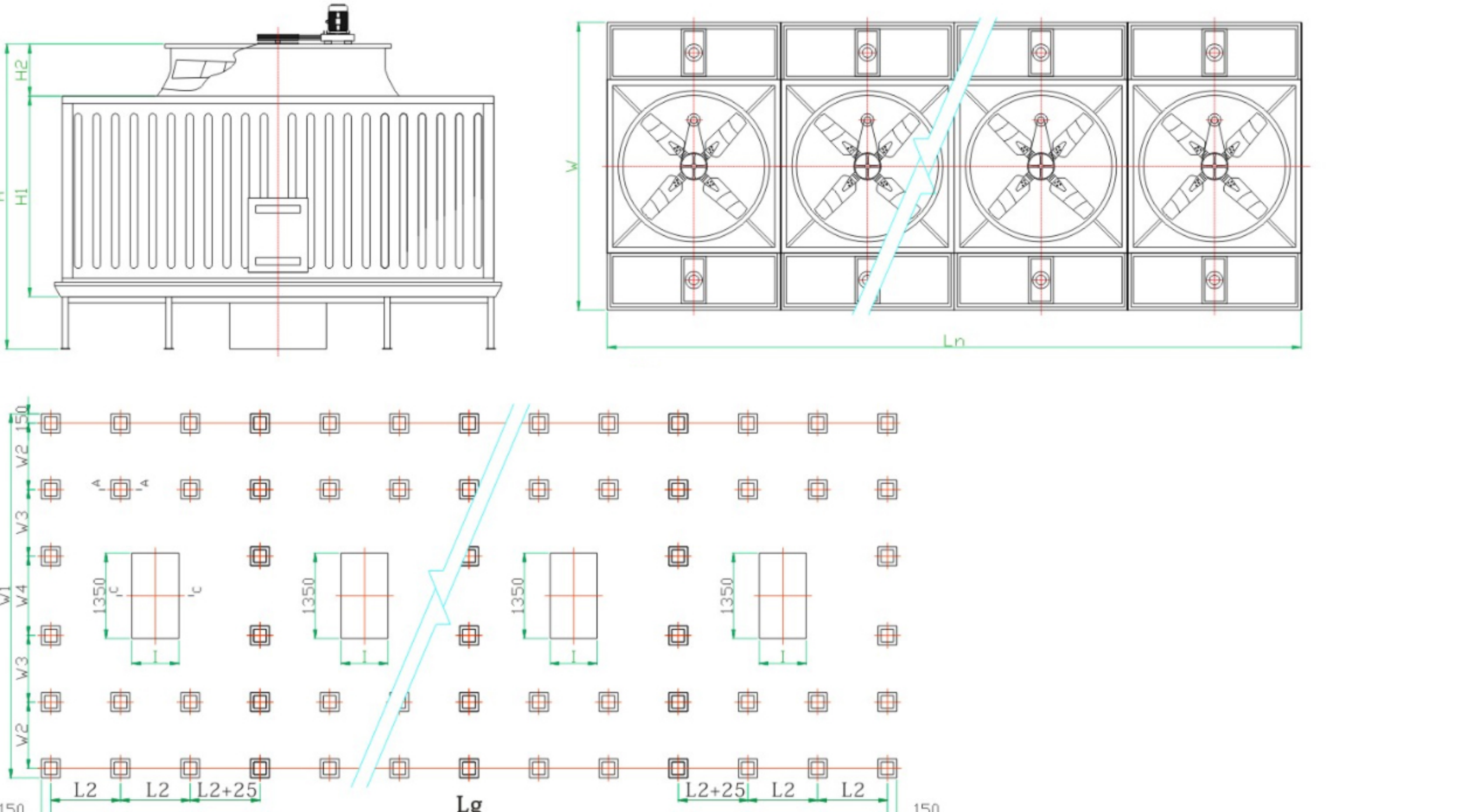
Level	W	Ln	H	H1	H2	L2	L3	W1	W2	W3
LRT-100Lxn	3300	1870n+100	3700	2300	700	1845	1870	3410	825	1460
LRT-125Lxn	3600	2260n+100	3700	2300	700	2235	2260	3830	1025	1480
LRT-150Lxn	3900	2550n+100	3700	2300	700	2525	2550	4000	1045	1610
LRT-175Lxn	3900	2550n+100	3700	2300	700	2525	2550	4000	1045	1610
LRT-200Lxn	4300	2990n+100	3700	2300	700	2965	2990	4520	1360	1500



## Piping system

Level	Water inlet pipe	Water outlet pipe	Overflow	Drain pipe	Automatic filler pipe	Quick filler pipe
LRT-100Lxn	80x2n	100xn	40xn	40xn	25	25
LRT-125Lxn	100x2n	125xn	50xn	50xn	25	25
LRT-150Lxn	100x2n	150xn	80xn	80xn	25	25
LRT-175Lxn	125x2n	150xn	80xn	80xn	25	25
LRT-200Lxn	125x2n	200xn	80xn	80xn	25	25

**Note:** The "n" in the table indicates the number of assembled cooling towers.



## Outline dimensional drawing, foundation drawing of LRT-255L-800L combined type

Level	W	Ln	H	H1	H2	L2	W1	W2	W3	W4	Lg
LRT-225Lxn	4990	280xn+100	4080	2680	700	916	5140	1045	750	1250	2800n-50
LRT-250Lxn	4990	3050xn+100	4080	2680	700	1000	5140	1045	750	1250	3050n-50
LRT-300Lxn	5590	3400xn+100	4080	2680	700	1116	5740	1045	1050	1250	3400n-50
LRT-350Lxn	5590	3500xn+100	4080	2680	700	1150	5740	1045	1050	1250	3500n-50
LRT-400Lxn	5930	3740xn+100	4230	2680	850	1230	6080	1045	1220	1250	3740n-50
LRT-450Lxn	5930	3990xn+100	4230	2680	850	1313	6080	1045	1220	1250	3990n-50
LRT-500Lxn	6080	4250xn+100	4850	3300	850	1400	6220	1045	1290	1250	4250n-50
LRT-600Lxn	6400	4550xn+100	4850	3300	850	1500	6540	1045	1450	1250	4550n-50
LRT-700Lxn	6400	4850xn+100	5450	3900	850	1600	6540	1045	1450	1250	4850n-50
LRT-800Lxn	6900	5150xn+100	5500	3900	900	1700	7040	1045	1700	1250	5150n-50

## Piping system

Level	Water inlet pipe	Water outlet pipe	Overflow	Drain pipe	Automatic filler pipe	Quick filler pipe
LRT-225Lxn	125x2n	200xn	80xn	80xn	40	40
LRT-250Lxn	125x2n	200xn	80xn	80xn	40	40
LRT-300Lxn	150x2n	200xn	80xn	80xn	40	40
LRT-350Lxn	150x2n	250xn	80xn	80xn	40	40
LRT-400Lxn	125x4n	250xn	80xn	80xn	40	40
LRT-450Lxn	125x4n	250xn	80xn	80xn	40	40
LRT-500Lxn	125x4n	250xn	80xn	80xn	40	40
LRT-600Lxn	150x4n	300xn	80xn	80xn	40	40
LRT-700Lxn	150x4n	300xn	80xn	80xn	40	40
LRT-800Lxn	200x4n	350xn	80xn	80xn	40	40

## Notes

- The "n" in the table indicates the number of assembled cooling towers.
- The dimensions in "A-A" and "C-C" cutaway views and at "L", can be obtained from single fan cooling tower foundation dimensions.