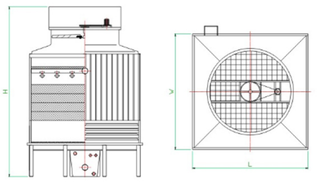
Model Explanation

LRN - xxx L (UL) / S

- LRN: Square shape counterflow cooling tower
- xxx: Circulating water flow
- L: Low noise type
- UL: Ultralow noise type
- S: Single fan

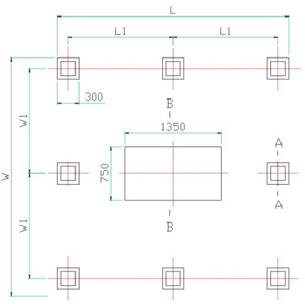


Design condition

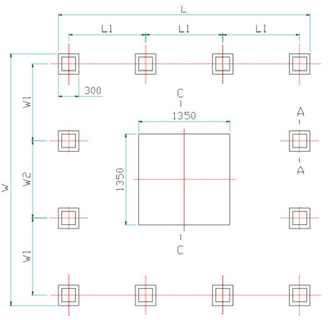
- Inlet water temperature: T1=37℃
- Outlet water temperature: T2=32℃
- Wet bulb temperature: TWB=28℃
- Dry bulb temperature: T=31.8℃
- Atmospheric pressure: P=9.94×104 Pa

Selection table of ultra low noise type counterflow cooling tower

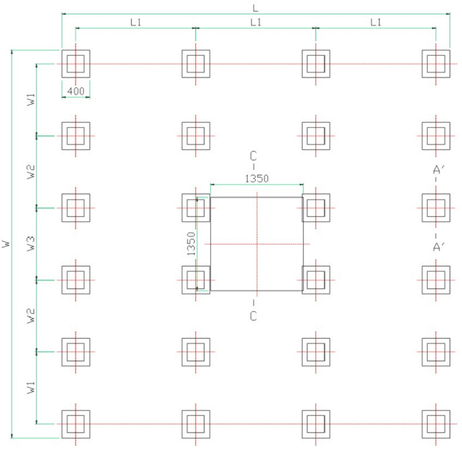
Model	Overall dimension (mm)			Flow rate (m3/h)	Fan (Φmm)	Motor (Kw)	Weight (Kg)		Noise (dB)
							Ultra low noise type UL		Ultra lownoise type UL
	L	W	H				Dry	Wet	
LRN-80 UL/S	2580	2580	4830	80	1470	3	1120	2220	59
LRN-100 UL/S	2770	2770	4830	100	1650	3	1330	2520	59
LRN-125 UL/S	2920	2920	4830	125	1800	4	1520	2810	59.5
LRN-150 UL/S	3120	3120	5030	150	2000	5.5	1800	3230	60
LRN-175 UL/S	3120	3120	5130	175	2000	5.5	2080	3480	60
LRN-200 UL/S	3320	3320	5130	200	2200	5.5	2440	4000	61
LRN-225 UL/S	3520	3520	5130	225	2400	7.5	2820	4510	61.5
LRN-250 UL/S	3520	3520	5230	250	2400	7.5	2900	4620	61.5
LRN-300 UL/S	4120	4120	5430	300	3000	11	3360	6030	62
LRN-350 UL/S	4120	4120	5630	350	3000	11	3580	6250	62
LRN-400 UL/S	4610	4610	5880	400	3400	15	4080	7270	62.5
LRN-450 UL/S	4610	4610	5880	450	3400	15	4230	7420	62.5
LRN-500 UL/S	4930	4930	6200	500	3700	18.5	4950	8850	63
LRN-600 UL/S	4930	4930	6400	600	3700	18.5	5390	9290	63
LRN-700 UL/S	5430	5430	6500	700	4200	22	6750	11170	64
LRN-800 UL/S	5930	5930	7000	800	4200	22	7700	12770	64
LRN-900 UL/S	6930	6930	7500	900	4500	30	9100	15720	65
LRN-1000 UL/S	7430	7430	7500	1000	4500	30	9930	17400	65



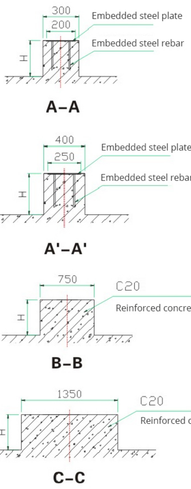
LRN-80-200(L/UL)



LRN-225-350(L/UL)



LRN-400-1000(L/UL)



Foundation drawing dimension table

Level Model	W (mm)	W1 (mm)	W2 (mm)	W3 (mm)	L (mm)	L1 (mm)	H (mm)
LRN-80UL/S	2580	1215	--	--	2730	1215	250
LRN-100UL/S	2770	1310	--	--	2920	1310	250
LRN-125UL/S	2920	1385	--	--	3070	1385	300
LRN-150UL/S	3120	1485	--	--	3270	1485	300
LRN-175UL/S	3120	1485	--	--	3270	1485	300
LRN-200UL/S	3320	1585	——	--	3470	1585	300
LRN-225UL/S	3520	1045	1280	--	3670	1123.3	300
LRN-250UL/S	3520	1045	1280	--	3670	1123.3	300
LRN-300UL/S	4120	1045	1880		4270	1323.3	300
LRN-350UL/S	4120	1045	1880		4270	1323.3	300
LRN-400UL/S	4610	1045	560	1250	4860	1486.7	500
LRN-450UL/S	4610	1045	710	1250	5160	1586.7	500
LRN-500UL/S	4930	1045	870	1250	5480	1693.3	500
LRN-600UL/S	4930	1045	1055	1250	5850	1816.7	500
LRN-700UL/S	5430	1045	1255	1250	6250	1950	500
LRN-800UL/S	5930	1045	1405	1250	6550	2050	500
LRN-900UL/S	6930	1045	1720	1250	7180	2260	500
LRN-1000UL/S	7430	1045	1970	1250	7680	2426.7	500

Explanation

1. Each foundation and the supporting surface of the central cylinder are on the same level, and the deviation of the elevation should be less than 5 mm.

2. When multiple heat-rejection devices are being assembled, the height of the foundation should be determined depending on the diameter and installation height of the outlet manifold.

Connecting pipe size table

Model level	80	100	125	150	175	200	225	250	300	350	400	450	500	600	700
Water inlet pipe	125	125	150	150	150	200	200	200	250	250	250	250	300	300	350
Water outlet pipe	125	125	150	150	150	200	200	200	250	250	250	250	300	300	350
Overflow	50	50	50	80	80	80	80	80	80	80	80	80	100	100	100
Drain pipe	40	40	40	50	50	50	80	80	80	80	80	80	100	100	100
Automatic filler pipe	25	25	25	25	25	25	40	40	40	40	50	50	50	50	50
Quick filler pipe	25	25	25	25	25	25	40	40	40	40	50	50	50	50	50