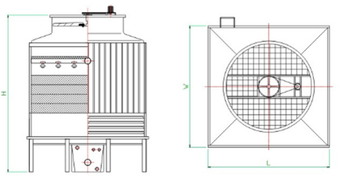
Model Explanation

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

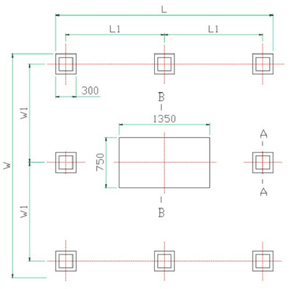
- Inlet water temperature: T1=37℃
- Outlet water temperature: T2=32℃
- Wet bulb temperature: TWB=28℃
- Dry bulb temperature: T=31.8℃
- Atmospheric pressure: P=9.94×104 Pa

Selection table of low noise type counterflow cooling towers

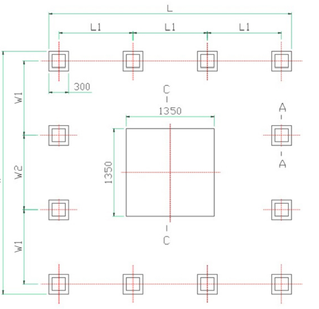
Model	Overall dimension (mm)			Flow rate(m^3/h)	Fan Φ(mm)	Motor (Kw)	Weight (Kg)				Noise (dB)	
							Standard type		Low noise type		Standard type	Low noise type
	L	W	H				Dry	Wet	Dry	Wet		
LRN-80L/S	2580	2580	4330	80	1470	3	960	2060	1060	2160	62	60.5
LRN-100L/S	2770	2770	4330	100	1800	3	1140	2330	1260	2450	62	60.5
LRN-125L/S	2920	2920	4330	125	1800	4	1310	2600	1440	2730	62.5	61
LRN-150L/S	3120	3120	4330	150	2000	4	1550	2980	1700	3130	63	61.5
LRN-175L/S	3120	3120	4430	175	2000	5.5	1830	3230	1980	3380	63	61.5
LRN-200L/S	3320	3320	4430	200	2200	5.5	2140	3700	2320	3880	64	62.5
LRN-225L/S	3520	3520	4430	225	2400	7.5	2450	4170	2670	4390	64.5	63
LRN-250L/S	3520	3520	4530	250	2400	7.5	2530	4250	2750	4470	64.5	63
LRN-300L/S	4120	4120	4730	300	3000	11	2850	5520	3160	5830	65	63.5
LRN-350L/S	4120	4120	4930	350	3000	11	2970	5640	3380	6050	65	63.5
LRN-400L/S	4610	4610	4980	400	3400	15	3510	6700	3830	7020	65.5	64
LRN-450L/S	4910	4910	5080	450	3400	15	3660	6850	3980	7170	65.5	64
LRN-500L/S	5230	5230	5300	500	3700	15	4250	8150	4650	8550	66.5	65
LRN-600L/S	5600	5600	5500	600	3700	18.5	4690	8590	5090	8990	66.5	65
LRN-700L/S	6000	6000	5600	700	4200	22	5680	10100	6350	10770	67	65.5
LRN-800L/S	6300	6300	6100	800	4200	22	6630	11700	7300	12370	67	65.5
LRN-900L/S	6930	6930	6600	900	4500	30	7680	14300	8400	15020	68	67
LRN-1000L/S	7430	7430	6600	1000	4500	30	8630	16100	9230	16700	68	67

Note

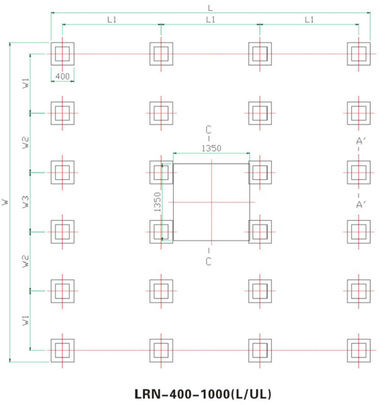
The above table shows technical parameters of the single fan cooling towers. Each model can be used individually, or in a combination as needed.



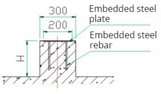
LRN-80-200(L/UL)



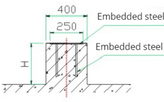
LRN-225-350(L/UL)



LRN-400-1000(L/UL)



A-A



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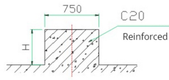
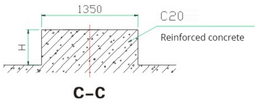


B-B



C-C

Foundation drawing dimension table

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