

Cooling Tower

Product Characteristic

- With the development of industrial production and the continuous improvement of people's living standards, it is urgent to control water environmental pollution and develop and utilize water resources rationally.
- For this reason,many companies have widely adopted glass fiber reinforced plastic cooling towers,an ideal and energy-efficient equipment that implements a closed-loop internal water circulation system.This improves the reuse rate and effectively reduces cost expenses.At the same time, it turns people's desire to adjust the surrounding environment's temperature,humidity, cleanliness,and noise impact into a reality.
- The LY series FRP cooling tower features corrosion resistance, high strength, lightweight, compact size, minimal footprint, aesthetic durability, and offers convenient transportation, installation, and maintenance. As a result, it finds extensive application across various sectors of the national economy. It is particularly suitable for cooling water circulation systems in fields such as air conditioning, refrigeration, air compression stations, heating furnaces, and condensation processes
- The LY circular counterflow FRP cooling tower adopts counterflow air-to-heat exchange technology, and the filling material uses high-quality modified PVC wave plates to increase water diffusion surface area. By employing rotational water distribution, uniform water spreading is achieved, thereby enhancing the cooling efficiency



Product Drawing



Technical Specifications (LY standard type, LY high-temperature type)

Model	Air flow (m³/h)	Tower body lift(Kpa)	D (mm)	H (mm)	Diameter (mm)	Motor (KW×Sets)	N.W. (Kg)	Operating weight(Kg)
LWCT-8T	6.23	12	930	1460	550	0.18×1	42	180
LWCT-10T	7.81	13	930	1640	650	0.18×1	46	190
LWCT-15T	11.7	14	1170	1525	650	0.37×1	60	298
LWCT-20T	15.62	16	1170	1690	770	0.56×1	80	320
LWCT-25T	19.51	17	1400	1875	770	0.75×1	98	500
LWCT-30T	23.4	17	1650	1845	770	0.75×1	116	530
LWCT-40T	32.21	17	1650	1910	930	1.5×1	150	590
LWCT-50T	39.24	18	1830	1940	930	1.5×1	210	1050
LWCT-60T	46.8	18	2100	2080	1180	1.5×1	260	1280
LWCT-80T	62.64	19	2100	2180	1180	1.5×1	290	1410
LWCT-100T	78.12	23	2900	2345	1450	2.2×1	550	1650
LWCT-125T	97.56	26	2900	2345	1450	2.2×1	580	1700
LWCT-150T	117	27	2900	2525	1450	2.2×1	600	1750
LWCT-175T	136.8	29	3310	2870	1750	4×1	860	1960
LWCT-200T	156.24	30	3310	2870	1750	4×1	880	1980
LWCT-225T	175.5	30	4120	3640	2130	5.5×1	1100	2870
LWCT-250T	195.12	32	4120	3640	2130	5.5×1	1200	2950
LWCT-300T	234	36	4730	3650	2400	7.5×1	1820	4050
LWCT-350T	273.24	38	4730	3650	2400	7.5×1	1890	4100
LWCT-400T	312.1	40	5600	3870	2700	11×1	2840	5740
LWCT-500T	372.4	41	5600	3870	2700	11×1	2900	5800
LWCT-600T	468	48	6600	4470	3400	15×1	3950	9350
LWCT-700T	547.8	50	6600	4670	3400	15×1	4050	9450
LWCT-800T	626.4	51	7600	4920	3700	18.5×1	4700	11900
LWCT-1000T	781.2	54	7600	4920	3700	18.5×1	4900	12100

Instructions:

1.LY design working condition: inlet water temperature of 37℃, outlet water temperature of 32℃, environmental wet bulb temperature of 28℃, atmospheric pressure of 99400pa, and a temperature drop of 5℃.

2.LY design working condition: inlet water temperature of 80℃, outlet water temperature of 45℃, environmental wet bulb temperature of 28℃, atmospheric pressure of 99400pa, and a temperature drop of 35℃.

Structure Description



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|-----------------------------|---|
| 1. Electric motor | 13. Repair ladder |
| 2. Belt reducer | 14. Mute wind cap/Ultra-low noise type selected |
| 3. Fan | 15. Shell |
| 4. Motor auxiliary frame | 16. Silent wind skirt/Ultra low-noise model selection |
| 5. Central tube | 17. Drip soundproof mat/Ultra low-noise type selected |
| 6. Rotor | 18. Cold water basin |
| 7. Watering hose | 19. Water tank |
| 8. Waterproof sleeves | 20. The adjustable angle of the air duct can be set at 30/45/60/75/90 degrees |
| 9. Tension support | |
| 10. Film | |
| 11. Air intake pillar | |
| 12. Lower frame leg bracket | |

Accessories

Electric Motor

Specialized closed-circuit cooling tower with waterproof and low-noise features, offering advantages such as lightweight, high efficiency, and no heat generation. Can be equipped with motor brands such as Baiguan and ABB according to customer requirements.



Belt Reducer

It is characterized by smooth operation, low noise, high transmission efficiency, and long service life, equipped with imported high-quality bearings.



Water Distribution Header

Aluminum alloy, ABS, optional copper, stainless steel material.



Reinforced Fiberglass

Made of glass fiber felt and resin, it has high strength and corrosion resistance. It has a shiny appearance and does not fade for a long time. It can be selected in different colors according to customer requirements.



Belt

High-strength composite materials, long service life, and non-slip features, can be selected with imported brands such as Gates from the United States and Samsung from Japan according to customer requirements.



Fan

Made from high-quality ABS or high-strength aluminum alloy materials, it features high airflow, low noise, low vibration, and long service life.



Stuffing

Specially designed patterns, extended water and steam heat exchange time, high-quality modified PVC material formed through rolling, high-temperature version made from heat-resistant PP material, significantly extending the service life of the cooling tower.



Steel Frame

High-quality steel construction, treated with hot-dip galvanization, meets the British BS EN ISO: 1999 standard, with excellent anti-corrosion capability. SUS304, SUS316 stainless steel can also be selected according to water quality requirements.

