



MST

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www.mesanct.com

e-mail: sales@mesanct.com



MSX-R Series

Cross Flow Induced Draft

- Specifications & Design are subject to change without notice.
- One year warranty under normal operation.
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For over 40 years, the MESAN Group has engaged in the engineering and manufacturing of high quality, high efficiency evaporative cooling equipment. Through hard work, ethics, and a constant pursuit of excellence, MESAN has become a leader in the cooling tower industry in Asia. Today, MESAN continues to play a vital role in the development of new technologies and products, and is proud to have been selected as a key supplier for many renowned projects in the global market.



MESAN is an ISO-9001 and 14001 certified company; our towers were the first ones in Hong Kong and China to obtain the CTI STD-201 performance certification, all of our products are ASHRAE-90.1-2013 compliant, a requisite towards LEED certification for Green Buildings by the USGBC (United States Green Building Council). All this confirms MESAN's constant pursuit of excellence and world-class quality.

MESAN's focus on engineering, research and development, quality management and excellent customer service, is the powerful combination that drives the MESAN brand up on a constant and steady growth. The many patents granted, are proof of MESAN's strive for delivering new environmentally friendly technologies and energy efficient products for the global markets.

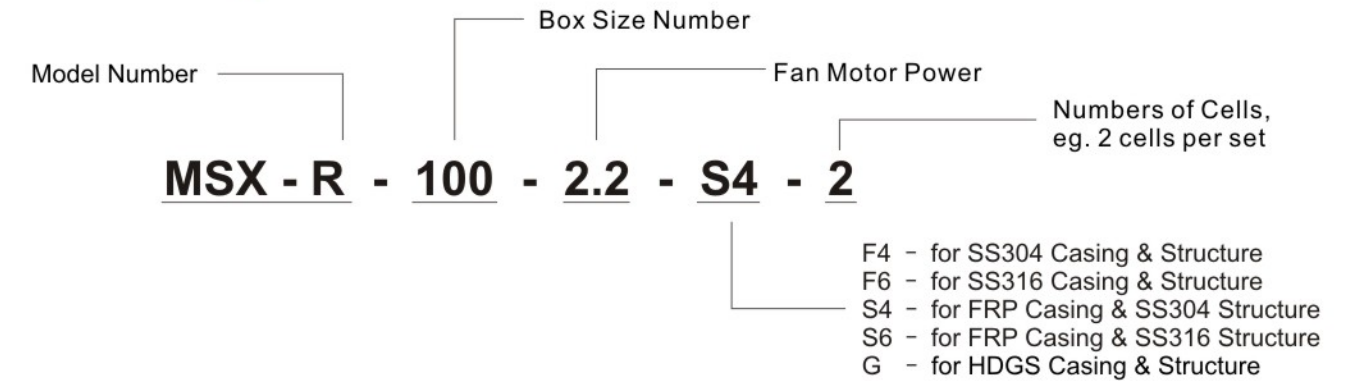


MESAN USA strategically located at the center of the Americas continent, in Miami, Florida, USA, consolidates MESAN Group's global presence and reiterates its commitment to provide world-class products for an ever-expanding market.

MESAN USA offers local presence, local inventory of equipment and spare parts and bilingual technical support as well as customer service, in English and Spanish. All products offered by MESAN USA have been engineered to

meet and exceed all codes and standards applicable in this hemisphere.

Model Designation



Advantages

Durable & Reliable

MSX-R is designed and manufactured from corrosion resistance materials for long life construction and minimal maintenance. Gel-coat with UV inhibitors FRP casing or galvanized steel casing with hot-dip galvanized frame structure provide superior protection from harsh environment to minimize rusting and corrosion. An optional SST304 or SST316 steel structure is available.



Low Energy Consumption and Running Cost Saving

The new tower structure improves the air intake volume and reduces the wind-resistance. With the high efficiency airfoil-shaped axial fan, at lower tip speed and light weight design, with the high efficiency heat exchange media and water distribution, to maximize cooling performance with low power consumption.

Green Environment

Maximizing energy savings is at the core of every MESAN product. Low energy consumption is the most important variable to consider when pursuing LEED certification. The MSX-R series have the lowest motor KW rating per ton of capacity in the market. All models are fully ASHRAE-90.1-2013 compliant, largely exceeding this standard's m³/h/kw requirements.

- Drift Eliminator reduce the drift down to 0.001%.
- Energy Saving models reduce the operation cost and low sound level.

Trust MESAN with
your evaporative cooling needs.

Components

Motor

Motor shall be TEAO, weatherproof, IP55 protection degree with class F insulation, high efficiency, low noise and specially insulated for running in humid environment.

* Also available with Two Speed motor and VFD motor.

High Efficiency Fan

High efficiency, axial, aluminum alloy fans, with innovative aerodynamic blade design, on the premise of assurance optimum performance, adjustable pitch blades with low noise emission and low power consumption.

* Also available with FRP fan for special application.



V-Belt Reducer

- Carbon steel rotating shaft with Japan NSK bearing and Mitsubishi transmission belts, able to withstand the adverse humid air, assure long reliable operation and higher performance.

* Also available with Gear box reducer

- Pulley is cast iron dynamically balanced to guarantee the performance and ensures quiet operation.

Casing

UV stabilized gel coat with imported color pigment, unsaturated polyester resin with E-glass chopped stand mat, it provides superior protection, corrosion resistant, long services life and minimal maintenance. With the high quality control of the production process assure the best quality with outstanding value.

* SS304 and SS316 casing are available.



Frame Structure

All structural design are analyzed and using heavy duty steel construction.

* Also available with SS304, SS316 and hot dip galvanized carbon steel with dacromet coating.

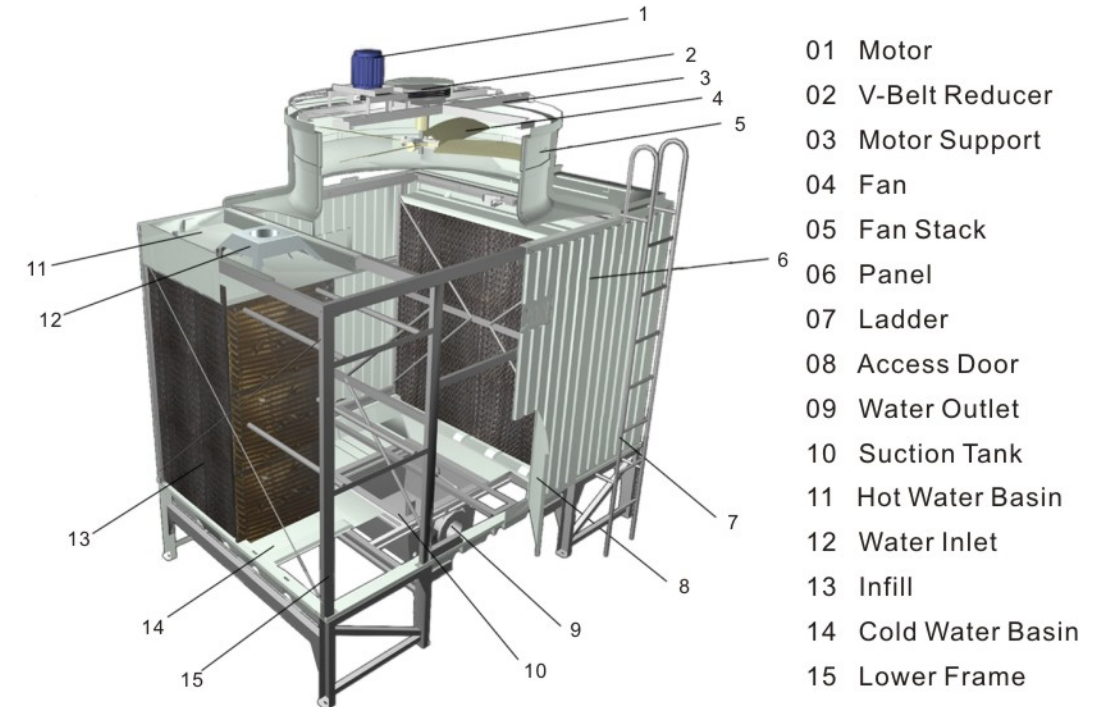
High Efficiency Low Drift Infill

- The vacuum forming PVC high efficiency hanging fill-type with special wave-shape design maximized the heat transfer. Integrated inlet louvers optimized air ventilation and the drift eliminators minimized the drift loss to 0.005% of the design water flow.

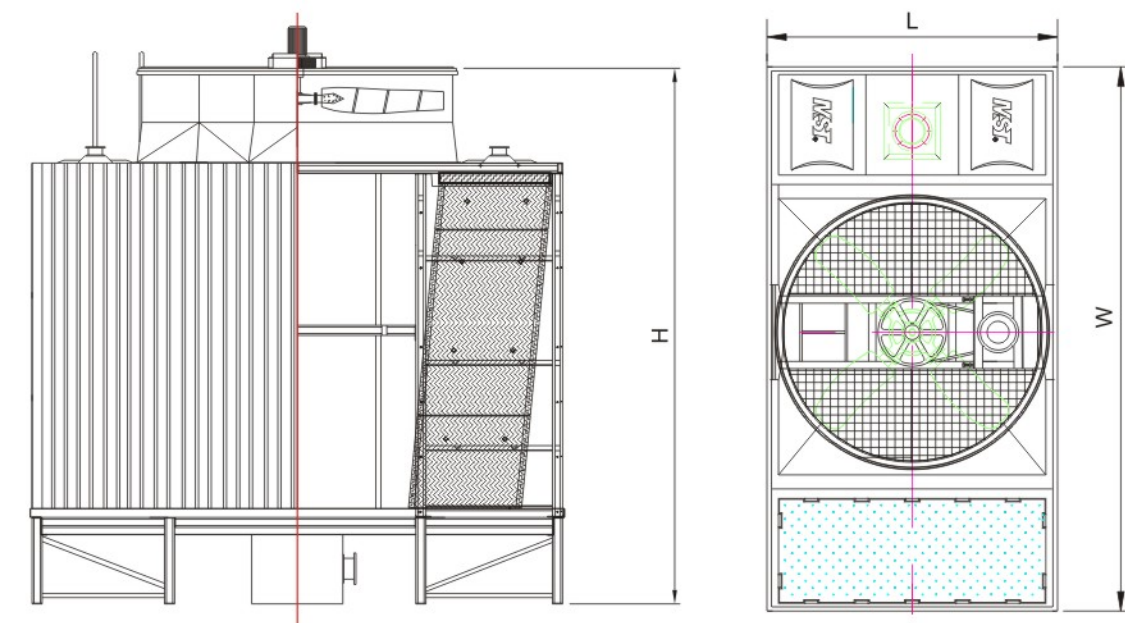
- Adhesive-free hanging assembly design is environmentally -friendly and cost saving on shipping.

* Also available with higher temperature PVC infill and PP infill.

Tower Structure



MSX-R-80 ~ 500



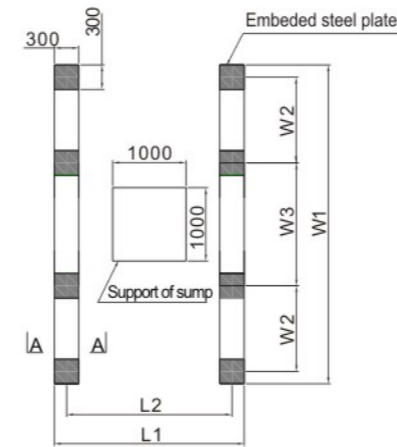
Product Technical Data

Model	Specifications		Tower Dimension		
	Water Flow	Motor	L	W	H
MSX-R	m ³ /h	Kw	mm	mm	mm
80-1.5	71	1.5			
80-2.2	80	2.2	1,740	3,200	3,220
80-3	89	3			
100-2.2	91	2.2			
100-3	100	3	2,140	3,600	3,580
100-4	111	4			
125-3	114	3			
125-4	125	4	2,540	3,600	3,780
125-5.5	139	5.5			
150-3	137	3			
150-4	150	4	2,740	4,000	3,780
150-5.5	167	5.5			
175-4	158	4			
175-5.5	175	5.5	2,740	4,000	4,240
175-7.5	194	7.5			
200-4	180	4			
200-5.5	200	5.5	2,940	4,200	4,240
200-7.5	221	7.5			
225-5.5	203	5.5			
225-7.5	225	7.5	2,940	4,200	4,740
225-11	255	11			

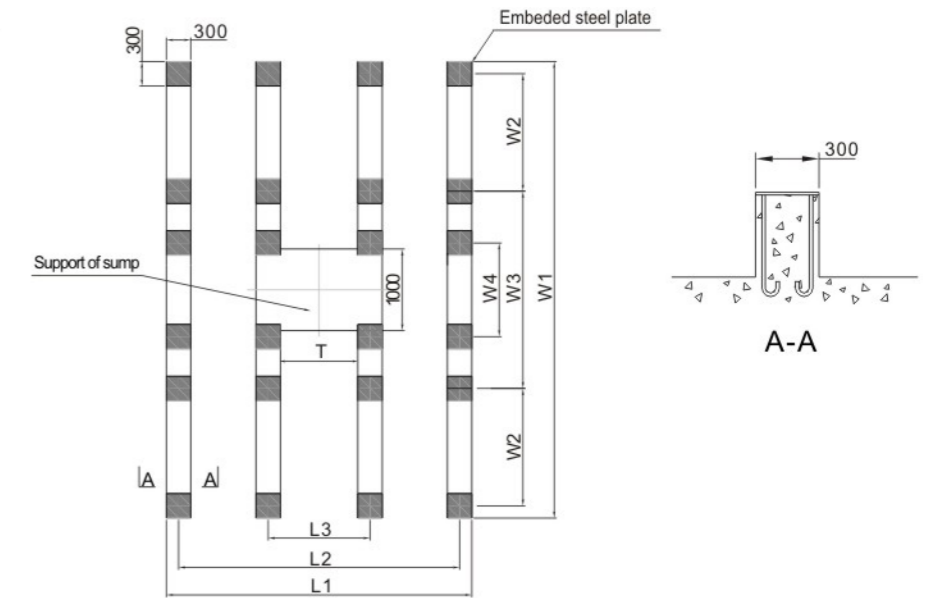
Model	Specifications		Tower Dimension		
	Water Flow	Motor	L	W	H
MSX-R	m ³ /h	Kw	mm	mm	mm
250-5.5	226	5.5			
250-7.5	250	7.5	3,250	5,260	4,990
250-11	284	11			
300-7.5	264	7.5			
300-11	300	11	3,250	5,260	4,990
300-15	332	15			
350-7.5	308	7.5			
350-11	350	11	4,050	5,660	5,050
350-15	388	15			
400-11	361	11			
400-15	400	15	4,050	5,660	5,550
400-18.5	429	18.5			
450-11	406	11			
450-15	450	15	4,050	5,660	5,550
450-18.5	482	18.5			
500-11	451	11			
500-15	500	15	4,650	6,800	5,130
500-18.5	536	18.5			

Foundation

MSX-R-80 ~ 225



MSX-R-250 ~ 500



Model	Foundation Dimensions								Pipe Connections				
	L1	L2	L3	W1	W2	W3	W4	T	Inlet	Outlet	Overflow	Drain	M-U
MSX-R	mm	mm	mm	mm	mm	mm	mm	mm	DN	DN	DN	DN	DN
80	1,980	1,680	—	3,350	850	1,350	—	—	80×2	125	50	40	20
100	2,380	2,080	—	3,730	900	1,630	—	—	100×2	125	50	40	20
125	2,780	2,480	—	3,730	900	1,630	—	—	100×2	150	50	40	25
150	2,980	2,680	—	4,130	900	2,030	—	—	125×2	150	50	40	25
175	2,980	2,680	—	4,130	900	2,030	—	—	125×2	150	50	40	25
200	3,180	2,880	—	4,330	900	2,230	—	—	125×2	200	80	40	25
225	3,180	2,880	—	4,330	900	2,230	—	—	125×2	200	80	40	25
250	3,500	3,200	1,200	5,400	1,350	2,400	—	900	150×2	250	80	50	40
300	3,500	3,200	1,200	5,400	1,350	2,400	—	900	150×2	250	80	50	40
350	4,300	4,000	1,300	5,800	1,430	2,640	—	1,000	125×4	250	80	50	40
400	4,300	4,000	1,300	5,800	1,430	2,640	—	1,000	125×4	250	80	50	40
450	4,300	4,000	1,300	5,800	1,430	2,640	—	1,000	125×4	250	80	50	40
500	4,900	4,600	1,530	6,940	1,640	3,360	1,080	1,230	150×4	300	100	100	50

Notes:

- 1) Nominal water flow is defined as rate of water cooled from 37°C to 32°C with 28°C wet-bulb temperature.
- 2) Satisfactory performance is based on precise selection, proper system design and installation in a clean and well-ventilated location.