





One year warranty under normal operation.



All rights reserved.

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

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-90.1-2010 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.

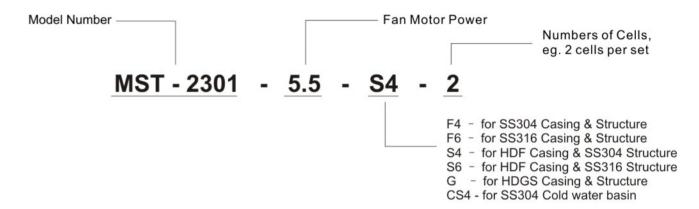
MESAN USA offers local presence, local inventory of equipment and spare parts and bilingual technical support as well as customer service, in English and Spanish. All products offered by MESAN USA have been engineered to

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

Overview

The MST-2000 series is available in 10 different box sizes with multiple motors, for a total of 83 models ranging between 90m³/h to 1110m³/h per cell.

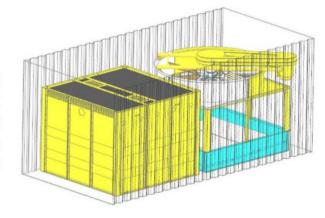
Model Designation



Advantages

Modular Construction

Some MST-2000 sizes come in pre-assembled modules easily stackable in the field. Even the infill comes in factory-assembled blocks and pre-installed inside the middle section of the unit. The result is a reduced field assembly time and consequent reduction on installation costs for the customer.



Low Energy Consumption

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. Thanks to our proprietary heat-exchange surfaces design (infill), with very low air pressure drop, our towers have the lowest motor kw rating per ton of capacity in our industry. All models are fully ASHRAE 90.1-2010 compliant, largely exceeding this standard's m³/h/kw requirements.

Trust MESAN with your evaporative cooling needs.

M5T-2000 Series

Counter Flow Induced Draft

Tower Structure



Components

Motor

TEAO motor, 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, adjustable pitch blades at low fan tip speeds with low noise emission ensures optimum performance and low power consumption.





Casing and Structure

The MST-2000 series is available in several construction materials:

· HDF(high density FRP), which is a special manufacturing process that produces very smooth surfaces on both sides of the components and higher structural strength. Smooth inner surfaces on wet parts reduces bacteria growth and facilitates maintenance, and provides the ultimate corrosion resistance.



MIX XIN

- HDGS (Hot Dipped Galvanized Steel), this is a cost effective alternative to casing construction, with good structural strength and adequate corrosion resistance.
- SS-304 or SS-316 stainless steel construction are also available for the highest corrosion resistance.

Water Distribution System

The hot water distribution piping is fabricated using PVC and the water is efficiently and uniformly distributed across entire the infill surface by the removable ABS non-clogging spray nozzles to maximize

For multicell installation connected to a single system, an optional equalizing pipe between basins to maintain the water level.

Infill

High efficiency, PVC heat transfer surfaces with proprietary design that combine excellent contact between air and water while offering very little resistance to airflow for the lowest fan energy consumption.

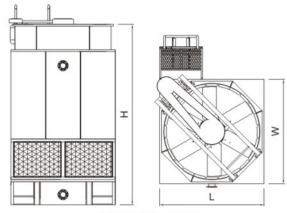


Optional Accessories

	High Efficiency Motor		Basin Sweeper Systems with Filter / Separator Packag			
Motor	Two Speed Motor	1	Basin Heater			
	VFD Motor		Discharge Sound Attenuator			
	FRP Fan	1	Equalizing Pipe Connection			
Fan	Low Noise Fan	Others	FRP Louver			
	180° Gear Box	Others	OSHA Fan Guard			
Reducer		1	OSHA Ladder Safety Cage and Handrail			
	90° Gear Box	4	Removable Strainer			
Infill	ASTM PVC Infill		Variable and Constant Speed Control Panels			
Infill	High Temperature PP Infill		Vibration Cut-off Switch			

Counter Flow Induced Draft

Product Technical Data

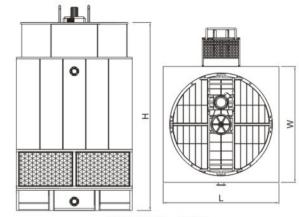


MST-2301~2302

Mo	odel	Water Flow	Motor	L	w	н	Remark
		m³/h	kw	mm	mm	mm	
	2.2	90	2.2			3,920	CNT
	3	100	3	2,268	2,268		
2301	4	110	4				
	5.5	125	5.5				
	7.5	135	7.5				
	3	135	3				
	4	150	4			3,920	
2302	5.5	165	5.5	2,268	2,768		
	7.5	185	7.5				
	11	205	11				

- 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-ventilatd location.
 3) CNT: Containerized, TRL: Trailer, CKD: Knocked-down model.

Product Technical Data

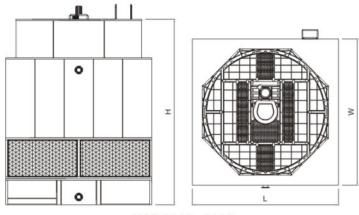


MST-2303~2304

Mo	del	Water Flow	Motor	L	w	н	Remark
INIC	uei .	m³/h	kw	mm	mm	mm	Remark
	3	125	3	2,520	2,520	4,627	TRL
2303	4	135	4				
2303	5.5	150	5.5				
	7.5	165	7.5				
	3	150	3		2,868	4,652	
	4	165	4				
2204	5.5	185	5.5	2 060			
2304	7.5	200	7.5	2,868			
	11	225	11				
	15	250	15				

- 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.
 3) CNT: Containerized, TRL: Trailer, CKD: Knocked-down model.

Product Technical Data

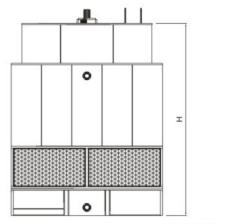


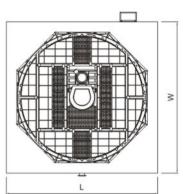
MST-2305~2308

Mo	odel	Water Flow	Motor	L	w	н	Remark
	, , , , ,	m³/h	kw	mm	mm	mm	Remark
	5.5	235	5.5		2 670		
	7.5	260	7.5	3,670			
2305	11	300	11			4,892	
2305	15	330	15		3,670	4,092	
	18.5	350	18.5				
	22	370	22				
	5.5	260	5.5				
	7.5	280	7.5	3,670	3,670		TRL
	11	325	11				
2306	15	355	15			4,892	
	18.5	385	18.5				
	22	405	22				
	30	450	30				
	7.5	325	7.5		4,170		
	11	365	11				
2307	15	405	15	4,170		5,292	
	18.5	430	18.5				
	22	450	22				
	7.5	350	7.5				
	11	400	11				
2308	15	450	15	4,170	4,170	5,292	
	18.5	470	18.5				
	22	500	22				

- 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-ventilatd location.
 3) CNT: Containerized, TRL: Trailer, CKD: Knocked-down model.

Product Technical Data

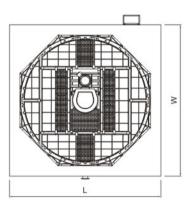




MST-2309~2312

M	odel	Water Flow	Motor	L	w	н	Remark
IVIC	Juci	m³/h	kw	mm	mm	mm	rtomant
	11	420	11				CKD
	15	465	15				
2309	18.5	500	18.5	4,670	4,670	5,480	
	22	530	22				
	30	585	30				
	11	455	11				
	15	505	15		4,670		
2310	18.5	540	18.5	4,670		5,480	
	22	570	22				
	30	630	30				
	11	510	11		5,072		
	15	565	15				
2311	18.5	605	18.5	5,072		5,480	
	22	640	22				
	30	710	30				
	11	545	11				
	15	600	15				
2312	18.5	645	18.5	5,072	5,072	5,480	
	22	680	22				
	30	755	30				

- 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-ventilatd location.
 3) CNT: Containerized, TRL: Trailer, CKD: Knocked-down model.

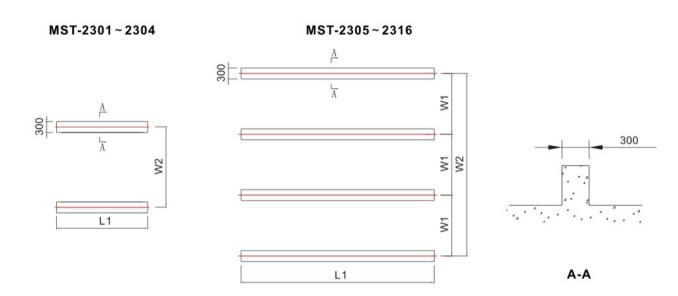


MST-2313~2316

Mc	odel	Water Flow	Motor	L	w	н	Remark
		m³/h	kw	mm	mm	mm	rtomant
	15	635	15				CKD
	18.5	680	18.5				
2313	22	720	22	5,572	5,572	5,480	
	30	800	30				
	37	850	37				
	15	700	15				
	18.5	745	18.5	5,572	5,572	5,480	
2314	22	790	22				
	30	870	30				
	37	935	37	v			
	18.5	775	18.5		6,072		
	22	820	22			5,480	
2315	30	910	30	6,072			
	37	975	37				
	45	1,040	45				
	18.5	825	18.5				
	22	875	22				
2316	30	965	30	6,072	6,072	5,480	
	37	1,040	37				
	45	1,110	45				

- 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-ventilatd location.
 3) CNT: Containerized, TRL: Trailer, CKD: Knocked-down model.

Foundation



	Foundation Dimensions			Pipe Connections				
Model	L1	W1	W2	Inlet	Outlet	Overflow	Drain	м-и
	mm	mm	mm	DN	DN	DN	DN	DN
2301	2,505	19—19	2,205	125	125	50	40	25
2302	2,505	_	2,705	150	150	50	40	25
2303	2,760	-	2,460	125	125	50	40	25
2304	3,105	_	2,805	200	200	50	40	25
2305	3,900	1,200	3,600	200	200	80	40	25
2306	3,900	1,200	3,600	250	250	80	40	25
2307~2308	4,410	1,370	4,110	250	250	80	50	40
2309~2310	4,905	1,535	4,605	250	250	80	50	40
2311~2312	5,300	1,670	5,010	300	300	80	50	40
2313~2314	5,800	1,835	5,505	300	300	100	100	50
2315~2316	6,300	2,000	6,000	350	350	100	100	50

Secure the base of the cooling tower with the anchor bolts. Buyer is responsible for the tower support and for the positioning and diameter of the anchoring bolts to comply with local building codes.