



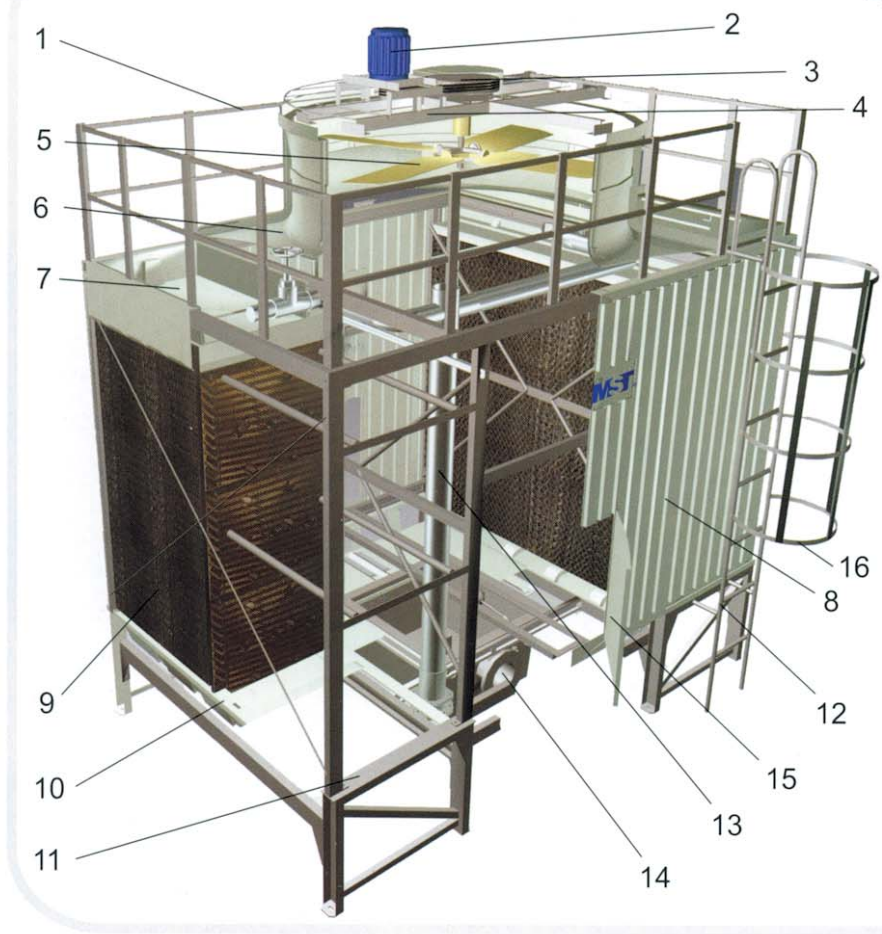
MSX

CROSS FLOW TYPE COOLING TOWER





结构简图 Tower Structure



- 1 安全围栏 (供客户选择)
Safety handrail (Optional)
- 2 电机 (全封闭式) Motor (TEFC)
- 3 减速器 V-belt reducer
- 4 马达架 Motor support
- 5 风机 Fan
- 6 风筒 Fan stack (FRP)
- 7 布水槽
Hot water distribution basin (FRP)
- 8 侧板 Panel (FRP)
- 9 散热填料 Infill
- 10 底盆 Basin (FRP)
- 11 框架 Framework
- 12 检修梯 Ladder
- 13 内置进水管 Internal water piping
- 14 出水 Water outlet
- 15 检修门 Inspection door (FRP)
- 16 护笼 (供客户选择)
Safety cage (Optional)

1. **设计先进** 设计工况为：进水温度37℃，出水温度32℃，湿球温度28℃，干球温度 31.5℃，大气压力 99.4KPa. 并在产品能耗、噪音等方面进行严格控制，使产品各项性能指标均优于国家标准。
 2. **结构新颖、美观，内置进水管** 全新的塔形设计，框架采用折边槽型钢结构，刚性强，安装方便；底盆采用内凹式多筋骨设计，外形美观，不易变形；而且底盆安装有进水法兰，并设有内置进水管，极大的节省安装空间和安装时间。
 3. **高效率、低漂水** 高效率的PVC淋水填料，自带导风及阻漂水结构，安装后为蜂窝形式，气流非常顺畅，收水效果显著，飘水损失小于 0.005%。
 4. **低能耗、低噪音** 尺寸结构比例合理，较大的气室设计，填料用量足，风机采用大直径、高效率、低转速宽叶轴流风机，使水塔在保证效率的同时最大限度地降低了能耗与噪音。
 5. **耐腐蚀、寿命长** 塔体材料采用全天候及防腐蚀的 FRP 材料制成，表层胶衣采用进口原料制造，内含抗紫外线稳定剂，抗老化、难褪色，表面光洁如镜，光泽持久如新；结构层采用国内名厂的纤维及树脂制造，强度高且寿命长；所有金属结构均采用热浸镀锌处理，极大地提高了水塔的使用寿命。
 6. **结构紧凑、占地小** 本系列采用模块式设计，结构紧凑，安装组合极为方便，用户可根据使用场地灵活地选择不同的组合方式，给设备的布置带来了极大的方便；同时本公司亦可根据用户特殊需要作现场设计以满足特殊场地的需要。
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1. **Advanced Designs** Design Condition Inlet Water Temp: 37℃ Outlet Water Temp: 32℃ Wet Bulb Temp: 28℃ Dry Bulb Temp: 31.5℃ Atmospheric Pressure 99.4KPa. Mesan controls strictly the product energy consumption and noise level, and assures the product performance index to achieve the national standard.
 2. **New Structure Attractive Appearance with Internal Water Piping** The internal structure frame is in U-profiles for more strength and easier installation. The new design of the FRP basin creates fair appearance, water inlet flange, internal piping and saves installation time and area.
 3. **High Efficiency, Low Drift Loss** The high efficiency PVC infill is with drift eliminator integrated function for smooth air flow due to honey comb shaped air inlet Drift loss = <0.005%.
 4. **Energy Saving, Low Noise** The rational design structure, big air plenum, sufficient infill volume, high efficiency axial fan with large blades low rotational speed, ensure lowest power consumption and low noise with 100% cooling performance
 5. **Anti-corrosive, Long Life** Mesan uses imported resins with UV-stabilizer and reliable suppliers for glass fiber mat to manufacture the FRP parts. We achieve a longer life time and more strength. Hot dipped galvanized steel is used in our standard type model.
 6. **Complex Structure Design.** Due to the modular design and complex structure MSX Cooling Towers are space saving and easy to assemble. Mesan also provide custom designed cross flow tower.

本选型图仅供快速选塔用。如为了准确选择并最后确认，请同本公司联系以提供电脑选型结果。
This selection chart act as a guideline to the users only. For an optimal and accurate cooling tower selection, please consult your local dealer or Mesan for assistance.

举例 For Example::

- 热水温度 Hot Water Temp: 38°C
- 冷水温度 Cold Water Temp: 32°C
- 水温降 Range: 6°C
- 湿球温度 Wet-Bulb Temp: 29°C
- 循环水流量 Water Flow Rate: 350m³/h

如何选型?

1. 以热水温度 (38°C) 之垂直线，交于湿球温度曲线 (29°C) 交于点①
2. 由点①向右作水平线交于温差6°C之曲线交于点②
3. 由点②向上作垂直线，交于循环水量350m³/h的水平线于点③
4. 点③落于型号曲线MSX-450与MSX-525之间，选择MSX-525型号冷却塔。

注1: 若点③落于某型号之曲线上则选择该型号或大一级型号。

注2: 若点③介于两型号之间，则选择较大型号。

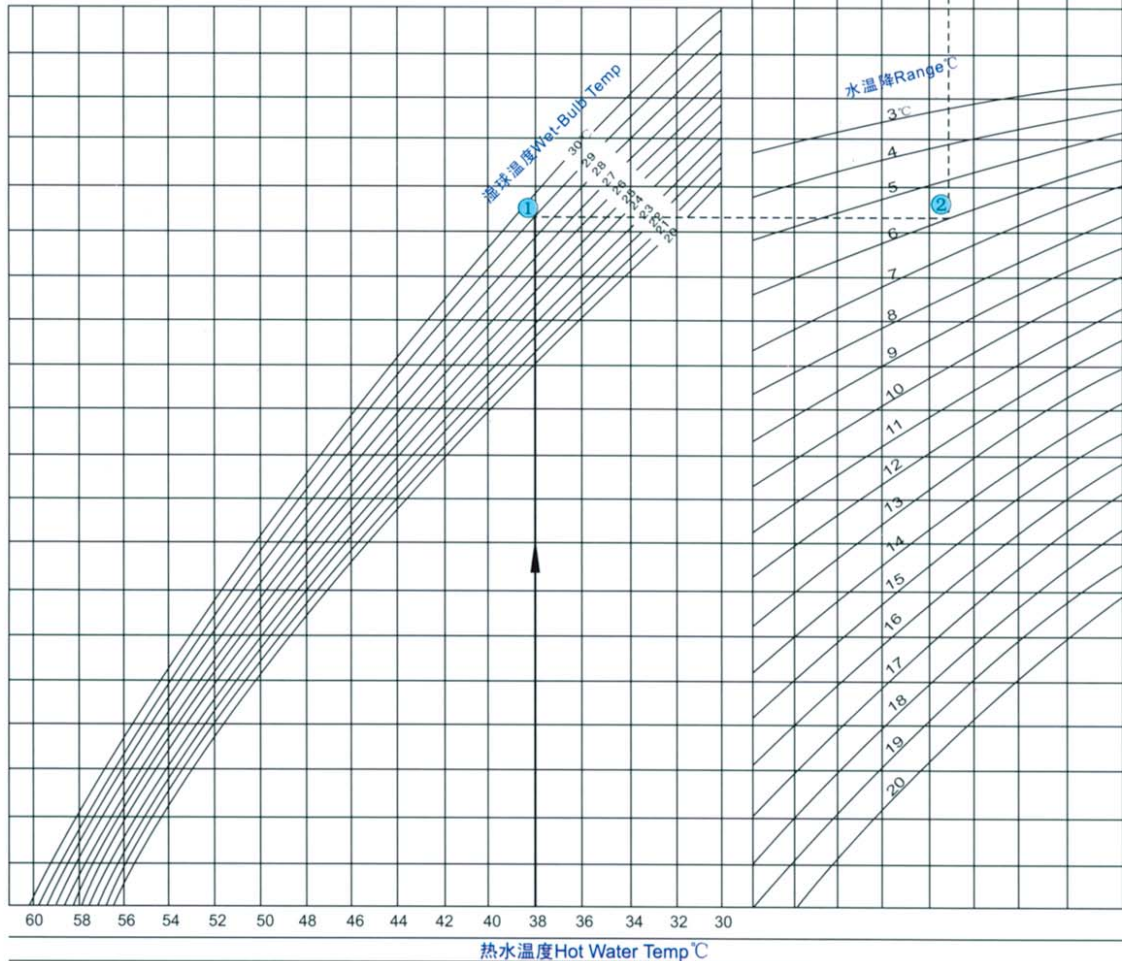
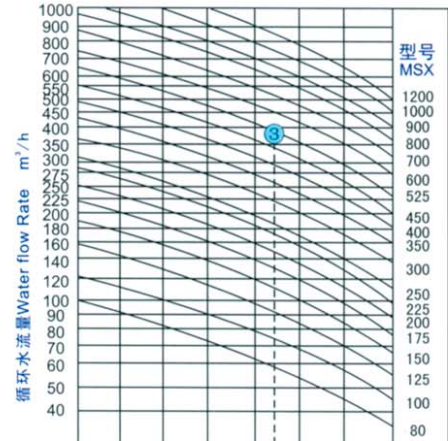
注3: 如选不上合适的型号，请联系生产商。

1. Trace up the HWT of 38°C vertically to find the intersecting Point ① with the 29°C WBT curve
2. Shift the Point ① to the right and to find the intersecting Point ② with the 6°C Range Curve
3. Extend the line vertically to meet the Circulating Water Flow Rate 350m³/h of Point ③.
4. Point ③ fall between the curve of MSX-450 and MSX-525 select cooling tower MSX-525

Note:

1. If point ③ falls on the curve, select the tower model of the corresponding curve.
2. If point ③ falls between the two curves, select the tower with larger model.
3. Please consult your local dealer or Mesan if the selection is not able to make.

选塔图 SELECTION CHART



MSX-L横流式低噪音冷却塔性能参数表

SPECIFICATION FOR MSX-L CROSS FLOW LOW NOISE TYPE COOLING TOWER

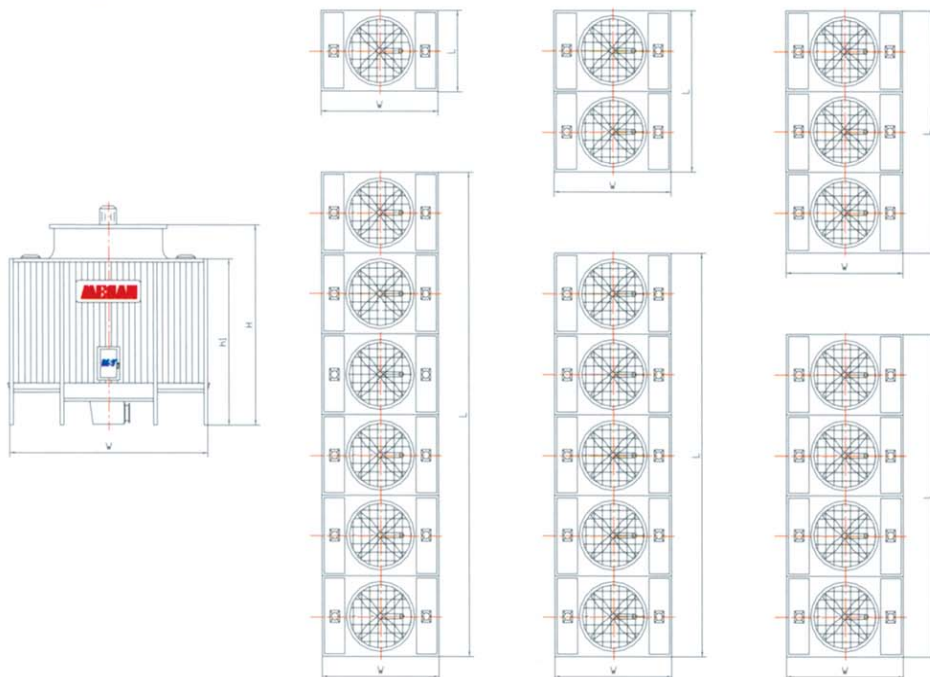
设计工况：大气压力-P=99400Pa 湿球温度-WBT=28℃ 进水温度-T₁=37℃ 出水温度-T₂=32℃

Design Condition: P=99400Pa Wet Bulb Temp=28℃ Inlet Water Temp-T₁=37℃ Outlet Water Temp-T₂=32℃

型号 MODEL	冷却水量 Cooling Capacity (m ³ /h)		风、电机 Fan, Motor		外形尺寸 Tower Dimension				水压 Water Pressure xKPa	重量 Weight	
			直径D Diameter mm	电机 Motor Kw	长 Length L	宽 Width W	高 Height H	塔身 Tower h1		干重 Dry Weight Kg	运行重 Wet Weight Kg
	28℃	27℃	mm	Kw	L	W	H	h1	xKPa	Kg	Kg
MSX-80L	80	93	1470	2.2x1	1740	3200	3220	2720	40	900	1800
MSX-100L	100	117	1780	3.0x1	2140	3600	3580	2830	40	1050	2050
MSX-125L	125	146	1780	4.0x1	2540	3600	3780	3030	45	1150	2250
MSX-150L	150	175	2080	4.0x1	2740	4000	3780	3030	45	1450	3200
MSX-175L	175	205	2080	5.5x1	2740	4000	4180	3430	49	1550	3300
MSX-200L	200	234	2360	5.5x1	2940	4200	4180	3430	49	1700	3900
MSX-225L	225	263	2630	7.5x1	2940	4200	4180	3430	49	1750	3950
MSX-250L	250	292	1780	4.0x2	5080	3600	3780	3030	45	2300	4500
MSX-300L	300	351	2080	4.0x2	5480	4000	3780	3030	45	2900	6400
MSX-350L	350	409	2080	5.5x2	5480	4000	4180	3430	49	3100	6600
MSX-400L	400	468	2360	5.5x2	5880	4200	4180	3430	49	3400	7800
MSX-450L	450	526	2360	7.5x2	5880	4200	4180	3430	49	3500	7900
MSX-525L	525	614	2080	5.5x3	8220	4000	4180	3430	49	4650	9900
MSX-600L	600	702	2360	5.5x3	8820	4200	4180	3430	49	5100	11700
MSX-700L	700	819	2080	5.5x4	10960	4000	4180	3430	49	68200	13200
MSX-800L	800	936	2360	5.5x4	11760	4200	4180	3430	49	6800	15600
MSX-900L	900	1053	2360	7.5x4	11760	4200	4180	3430	49	7000	15800
MSX-1000L	1000	1170	2360	5.5x5	14700	4200	4180	3430	49	8500	19500
MSX-1200L	1200	1404	2360	5.5x6	17640	4200	4180	3430	49	10200	23400

MSX-L横流式低噪音冷却塔拼装示意图

COMBINATION UNITS FOR MSX-L CROSS FLOW LOW NOISE TYPE COOLING TOWER



MSX-SL横流式超低噪音冷却塔性能参数表

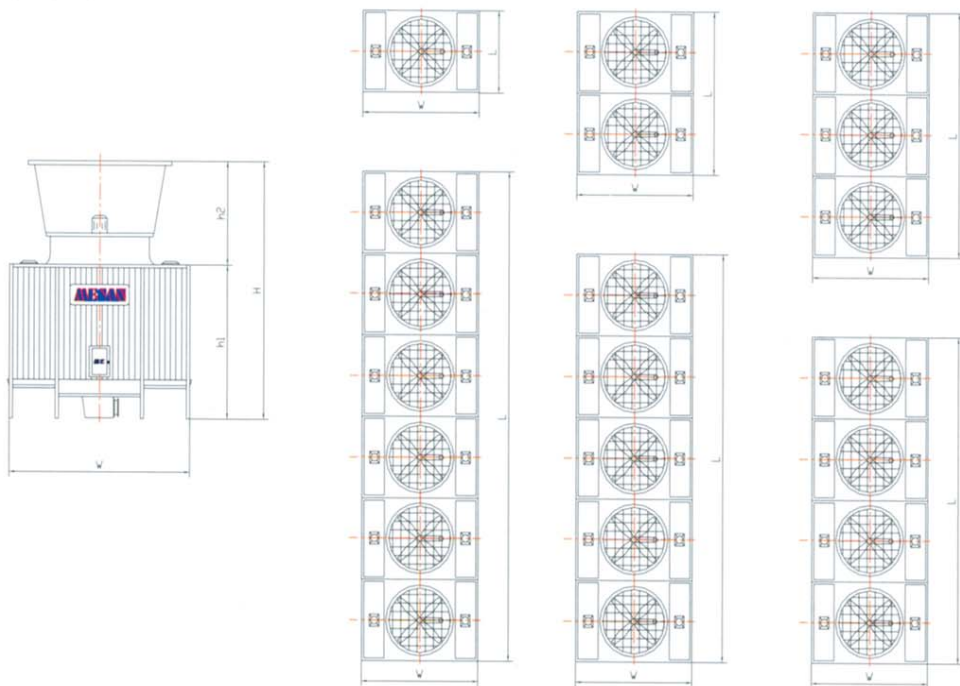
SPECIFICATION FOR MSX-SL CROSS FLOW SUPER LOW NOISE TYPE COOLING TOWER

设计工况：大气压力-P=99400Pa 湿球温度-WBT=28℃ 进水温度-T₁=37℃ 出水温度-T₂=32℃
 Design Condition: P=99400Pa Wet Bulb Temp=28℃ Inlet Water Temp-T₁=37℃ Outlet Water Temp-T₂=32℃

型号 MODEL	冷却水量 Cooling Capacity (m ³ /h)		风、电机 Fan, Motor		外形尺寸 Tower Dimension				水压 Water Pressure xKPa	重量 Weight	
			直径D Diameter mm	电机 Motor Kw	长 Length L	宽 Width W	高 Height H	塔身 Tower h1		干重 Dry Weight Kg	运行重 Wet Weight Kg
	28℃	27℃									
MSX-80SL	80	93	1470	2.2x1	1740	3200	4070	2720	40	925	1825
MSX-100SL	100	117	1780	3.0x1	2140	3600	4430	2830	40	1100	2100
MSX-125SL	125	146	1780	4.0x1	2540	3600	4630	3030	45	1200	2300
MSX-150SL	150	175	2080	4.0x1	2740	4000	4780	3030	45	1525	3275
MSX-175SL	175	205	2080	5.5x1	2740	4000	5180	3430	49	1625	3375
MSX-200SL	200	234	2360	5.5x1	2940	4200	5380	3430	49	1800	4000
MSX-225SL	225	263	2360	7.5x1	2940	4200	5380	3430	49	1850	4050
MSX-250SL	250	292	1780	4.0x2	5080	3600	4630	3030	45	2400	4600
MSX-300SL	300	351	2080	5.5x2	5480	4000	4780	3030	45	3050	6550
MSX-350SL	350	409	2080	5.5x2	5480	4000	5180	3430	49	3250	6750
MSX-400SL	400	468	2360	5.5x2	5880	4200	5380	3430	49	3600	8000
MSX-450SL	450	526	2360	7.5x2	5880	4200	5380	3430	49	3700	8100
MSX-525SL	525	614	2080	5.5x3	8220	4000	5180	3430	49	4875	10125
MSX-600SL	600	702	2360	5.5x3	8820	4200	5380	3430	49	5400	12000
MSX-700SL	700	819	2080	5.5x4	10960	4000	5180	3430	49	6500	13500
MSX-800SL	800	936	2360	5.5x4	11760	4200	5380	3430	49	7200	16000
MSX-900SL	900	1053	2360	7.5x4	11760	4200	5380	3430	49	7400	16200
MSX-1000SL	1000	1170	2360	5.5x5	14700	4200	5380	3430	49	9000	20000
MSX-1200SL	1200	1404	2360	5.5x6	17640	4200	5380	3430	49	10800	24000

MSX-SL横流式超低噪音冷却塔拼装示意图

COMBINATION UNITS FOR MSX-SL CROSS FLOW SUPER LOW NOISE TYPE COOLING TOWER



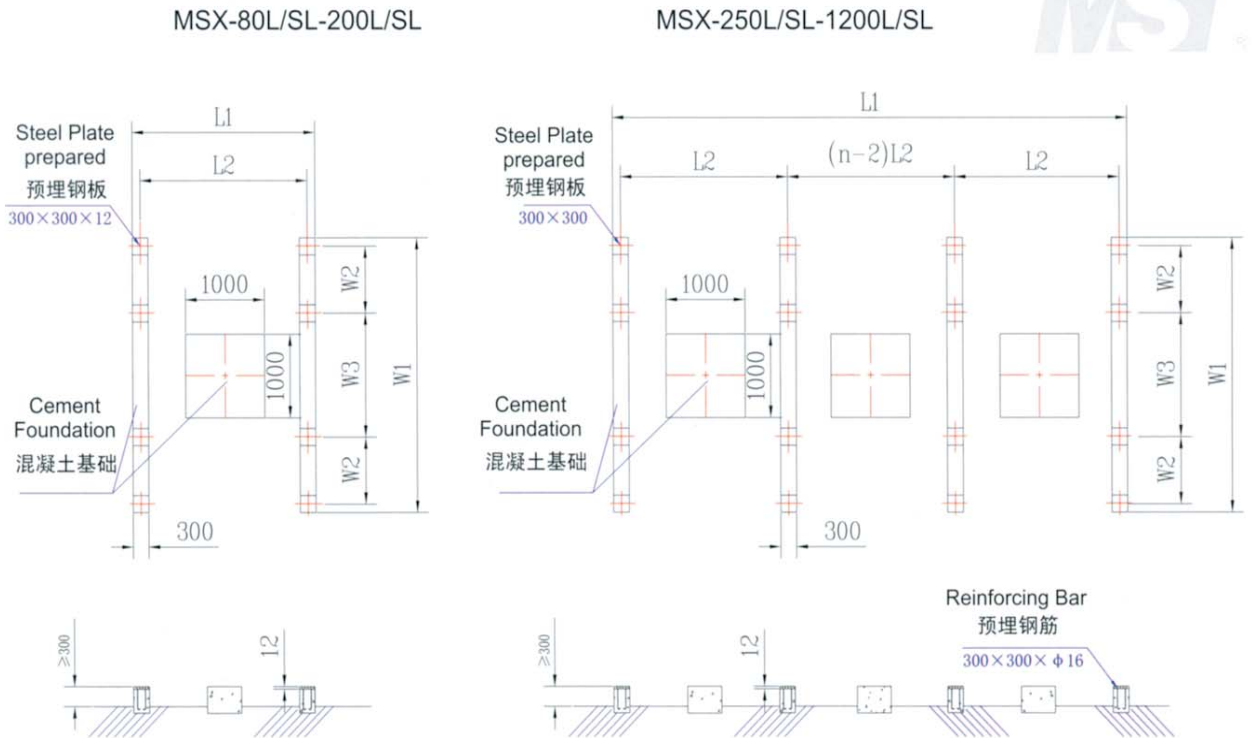
MSX-L/SL横流式低噪音/超低噪音冷却塔基础尺寸表

FOUNDATION DATAS FOR MSX-L/SL CROSS FLOW LOW NOISE / SUPER LOW NOISE TYPE COOLING TOWER

型号 MODEL	项目 ITEM	W1	W2	W3	L1	L2
		mm	mm	mm	mm	mm
MSX-80L (SL)		3350	850	1350	2040	1740
MSX-100L (SL)		3730	900	1630	2440	2140
MSX-125L (SL)		3730	900	1630	2840	2540
MSX-150L (SL)		4130	900	2030	3040	2740
MSX-175L (SL)		4130	900	2030	3040	2740
MSX-200L (SL)		4330	900	2230	3240	2940
MSX-225L (SL)		4330	900	2230	3240	2940
MSX-250L (SL)		3730	900	1630	5380	2540
MSX-300L (SL)		4130	900	2030	5780	2740
MSX-350L (SL)		4130	900	2030	5780	2740
MSX-400L (SL)		4330	900	2230	6180	2940
MSX-450L (SL)		4330	900	2230	6180	2940
MSX-525L (SL)		4130	900	2030	8520	2740
MSX-600L (SL)		4330	900	2230	9120	2940
MSX-700L (SL)		4130	900	2030	11260	2740
MSX-800L (SL)		4330	900	2230	12060	2940
MSX-900L (SL)		4330	900	2230	12060	2940
MSX-1000L (SL)		4330	900	2230	15000	2940
MSX-1200L (SL)		4330	900	2230	17940	2940

MSX-L/SL横流式低噪音/超低噪音冷却塔基础示意图

FOUNDATION DRAWING FOR MSX-L/SL CROSS FLOW LOW NOISE / SUPER LOW NOISE TYPE COOLING TOWER



MSX-UL横流式超静音冷却塔规格参数表

SPECIFICATION FOR MSX-UL CROSS FLOW ULTRA LOW NOISE TYPE COOLING TOWER

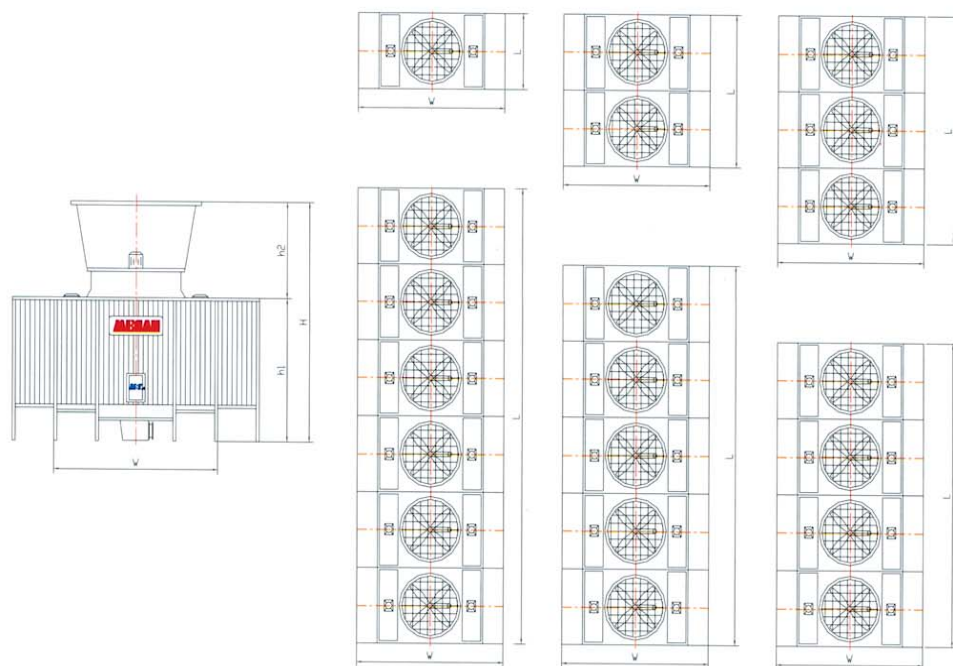
设计工况：大气压力-P=99400Pa 湿球温度-WBT=28℃ 进水温度-T₁=37℃ 出水温度-T₂=32℃

Design Condition: P=99400Pa Wet Bulb Temp=28℃ Inlet Water Temp-T₁=37℃ Outlet Water Temp-T₂=32℃

型号 MODEL	冷却水量 Cooling Capacity (m ³ /h)		风、电机 Fan, Motor		外形尺寸 Tower Dimension				水压 inlet pressure	重量 Weight	
			直径D Diameter	电机 Motor	长 Length	宽 Width	高 Height	塔身 Tower		干重 Dry Weight	运行重 Wet Weight
	28℃	27℃	mm	Kw	L	W	H	h1	xKPa	Kg	Kg
MSX-80UL	80	93	1470	2.2x1	1740	4750	4070	2720	40	1000	1900
MSX-100UL	100	117	1780	3.0x1	2140	5230	4430	2830	40	1200	2000
MSX-125UL	125	146	1780	4.0x1	2540	5230	4630	3030	45	1325	2125
MSX-150UL	150	175	2080	4.0x1	2740	5630	4630	3030	45	1650	3400
MSX-175UL	175	205	2080	5.5x1	2740	6080	5030	3430	49	1800	3550
MSX-200UL	200	234	2360	5.5x1	2940	6280	5030	3430	49	2000	4200
MSX-225UL	225	263	2360	7.5x1	2940	6280	5030	3430	49	2050	4250
MSX-250UL	250	292	1780	4.0x2	5080	5230	4630	3030	45	2650	4850
MSX-300UL	300	351	2080	4.0 2	5480	5630	4630	3030	45	3300	6800
MSX-350UL	350	409	2080	5.5x2	5480	6080	5030	3430	49	3600	7100
MSX-400UL	400	468	2360	5.5x2	5880	6280	5030	3430	49	4000	8400
MSX-450UL	450	526	2360	7.5x2	5880	6280	5030	3430	49	4000	8500
MSX-525UL	525	614	2080	5.5x3	8220	6080	5030	3430	49	5400	10650
MSX-600UL	600	702	2360	5.5x3	8820	6280	5030	3430	49	6000	12600
MSX-700UL	700	819	2080	5.5x4	10960	6080	5030	3430	49	7200	14200
MSX-800UL	800	936	2360	5.5x4	11760	6280	5030	3430	49	8000	16800
MSX-900UL	900	1053	2360	7.5x4	11760	6280	5030	3430	49	8200	17000
MSX-1000UL	1000	1170	2360	5.5x5	14700	6280	5030	3430	49	10000	21000
MSX-1200UL	1200	1404	2360	5.5x6	17640	6280	5030	3430	49	12000	25200

MSX-UL横流式超静音冷却塔拼装示意图

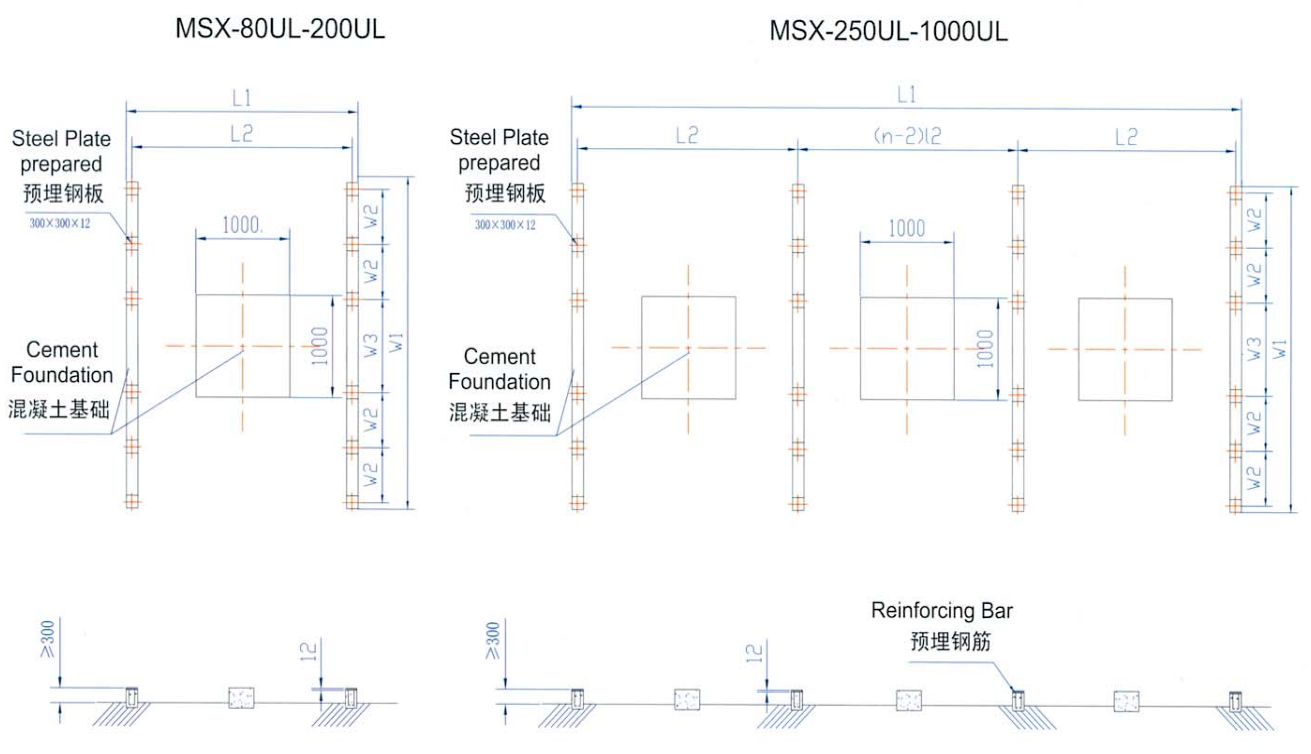
COMBINATION UNITS FOR MSX-UL CROSS FLOW ULTRA LOW NOISE TYPE COOLING TOWER



MSX-UL横流式超静音冷却塔基础尺寸表
FOUNDATION DATA FOR MSX-UL CROSS FLOW ULTRA LOW NOISE TYPE COOLING TOWER

型号 MODEL	项目 ITEM	W1	W2	W3	W4	L1	L2
		mm	mm	mm	mm	mm	mm
MSX-80UL		5060	850	1350	855	2040	1740
MSX-100UL		5440	900	1630	855	2440	2140
MSX-125UL		5440	900	1630	855	2840	2540
MSX-150UL		5840	900	2030	855	3040	2740
MSX-175UL		6230	900	2030	1050	3040	2740
MSX-200UL		6430	900	2230	1050	3240	2940
MSX-225UL		6430	900	2230	1050	3240	2940
MSX-250UL		5440	900	1630	855	5380	2540
MSX-300UL		5840	900	2030	855	5780	2740
MSX-350UL		6230	900	2030	1050	5780	2740
MSX-400UL		6430	900	2230	1050	6180	2940
MSX-450UL		6430	900	2230	1050	6180	2940
MSX-525UL		6230	900	2030	1050	8520	2740
MSX-600UL		6430	900	2230	1050	9120	2940
MSX-700UL		6230	900	2030	1050	11260	2740
MSX-800UL		6430	900	2230	1050	12060	2940
MSX-900UL		6430	900	2230	1050	12060	2940
MSX-1000UL		6430	900	2230	1050	15000	2940
MSX-1200UL		6430	900	2230	1050	17940	2940

MSX-UL超静音横流式冷却塔基础示意图
FOUNDATION DRAWING FOR MSX-UL CROSS FLOW ULTRA LOW NOISE TYPE COOLING TOWER



MSX横流式冷却塔管道配置尺寸 PIPING SIZE FOR MSX CROSS FLOW COOLING TOWER

型号 MODEL	管径 PIPE	进水 Inlet	出水 Outlet	自动补水 Float Value	快速补水 Quick supply	溢水 Overflow	排水 DRAIN
		mm	mm	mm	mm	mm	mm
MSX-80L/SL/UL		125x1	125x1	20	20	50	40
MSX-100L/SL/UL		125x1	125x1	20	20	50	40
MSX-125L/SL/UL		150x1	150x1	25	25	50	40
MSX-150L/SL/UL		150x1	150x1	25	25	50	40
MSX-175L/SL/UL		150x1	150x1	25	25	50	40
MSX-200L/SL/UL		200x1	200x1	25	25	80	40
MSX-225L/SL/UL		200x1	200x1	25	25	80	40
MSX-250L/SL/UL		150x2	150x2	25x2	25x2	50x2	40x2
MSX-300L/SL/UL		150x2	150x2	25x2	25x2	50x2	40x2
MSX-350L/SL/UL		150x2	150x2	25x2	25x2	50x2	40x2
MSX-400L/SL/UL		200x2	200x2	25x2	25x2	80x2	40x2
MSX-525L/SL/UL		150x3	150x3	25x3	25x3	50x3	40x3
MSX-600L/SL/UL		200x3	200x3	25x3	25x3	80x3	40x3
MSX-700L/SL/UL		150x4	150x4	25x4	25x4	50x4	40x4
MSX-800L/SL/UL		200x4	200x4	25x4	25x4	80x4	40x4
MSX-900L/SL/UL		200x4	200x4	25x4	25x4	80x4	40x4
MSX-1000L/SL/UL		200x5	200x5	25x5	25x5	80x5	40x5
MSX-1200L/SL/UL		200x6	200x6	25x6	25x6	80x6	40x6

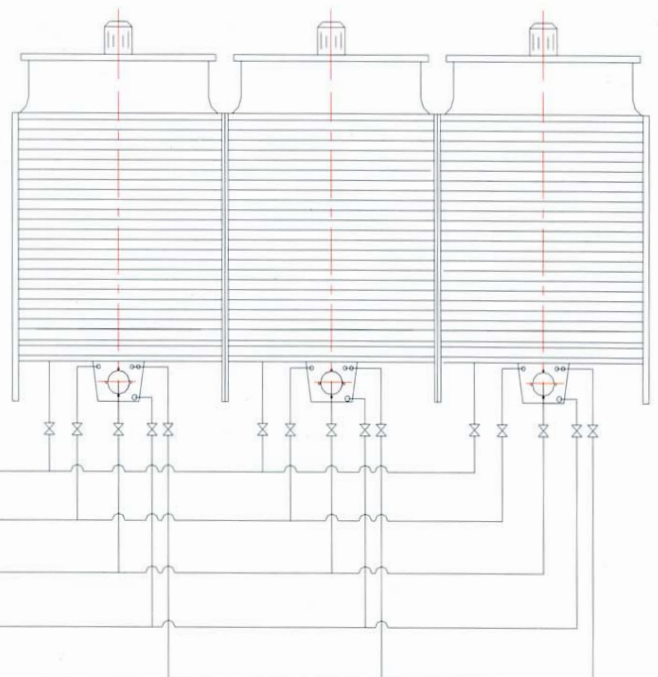
MSX横流式冷却塔配管示意图

MSX SERIES CROSS FLOW TYPE COOLING TOWER PIPING CONNECTION

说明 Remarks:

1. 本系列冷却塔出水口方向可在四个方向任选,请用户在订货时说明.
2. 冷却塔两侧入水管尽量保持长度相等,以确保阻力平衡.
3. 禁止在冷却塔上进行焊接管道操作.焊接时应远离塔体,施工完毕后,再与出、入水法兰连接.

1. User should define orientation of water outlet of your purchased MSX.
2. Please keep equivalent length of water pipe on both side of the tower to maintain balancing of resistance on both side of piping.
3. Avoid to apply direct welding on piping. Piping connection should be welded away the tower and connect to the water inlet outlet flange after finished welding work.



入水管/inlet pipe

溢水管/Overflow pipe

出水管/outlet pipe

排水管/Drain pipe

补水管/Make up pipe

MSX横流式冷却塔噪音表 NOISE LEVEL CHART FOR MSX CROSS FLOW COOLING TOWER

型号 Model	噪音 Noise Level	低噪音型/L dB (A) Low Noise dB (A)					超低噪音型/SL dB (A) Super Low Noise dB (A)					超静音型/UL dB (A) Ultra Low Noise dB (A)				
		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
MSX-80L/SL/UL		59	58	55	48	65	56	55	51	46	61	52	51	48	42	58
MSX-100L/SL/UL		59	58	55	48	65	56	55	51	46	61	52	51	48	42	58
MSX-125L/SL/UL		60	59	56	49	66	57	56	52	47	61	53	52	49	43	58
MSX-150L/SL/UL		60	59	56	49	66	57	56	52	47	62	53	52	49	43	59
MSX-175L/SL/UL		61	60	57	50	67	58	57	53	48	63	54	53	50	43	60
MSX-200L/SL/UL		61	61	57	50	67	58	57	53	48	63	54	54	50	43	60
MSX-225L/SL/UL		62	62	57	50	67	59	58	53	48	63	55	54	50	43	60
MSX-250L/SL/UL		61	61	57	50	68	58	58	53	48	64	54	54	50	44	61
MSX-300L/SL/UL		61	61	58	51	68	58	59	54	49	64	54	54	51	45	61
MSX-350L/SL/UL		62	62	59	52	69	59	59	55	49	65	55	55	52	45	62
MSX-400L/SL/UL		62	62	59	52	69	59	59	55	49	65	55	55	51	45	62
MSX-450L/SL/UL		62	62	58	51	68	59	59	54	48	64	55	55	51	45	61
MSX-500L/SL/UL		63	63	59	52	68	60	60	55	49	64	56	56	52	46	61
MSX-600L/SL/UL		63	64	59	52	69	60	61	55	49	65	56	57	52	46	62
MSX-700L/SL/UL		63	64	59	52	69	60	61	55	49	65	56	57	52	46	62
MSX-800L/SL/UL		63	64	59	52	69	60	61	55	49	65	56	57	52	46	62
MSX-900L/SL/UL		64	65	59	52	69	61	62	55	49	65	57	58	52	45	62
MSX-1000L/SL/UL		64	65	59	52	69	61	62	55	49	65	57	58	52	46	62
MSX-1200L/SL/UL		64	65	59	52	69	61	62	55	49	65	57	58	52	46	62

- 1.测量点 (1) : 距塔入风百叶窗的水平距离为 $Dm=1.13\sqrt{L\times W}$ (米), 距塔基础上端面为1.5米处。
 - 2.测量点 (2) : 距离入风百叶窗的水平距离为 $D2=5$ (米), 距塔基础上端面为1.5米处。
 - 3.测量点 (3) : 距塔入风百叶窗的水平距离为 $D3=10$ (米), 距塔基础上端面为1.5米处。
 - 4.测量点 (4) : 距塔入风百叶窗的水平距离为 $D4=20$ (米), 距塔基础上端面为1.5米处。
 - 5.测量点 (5) : 取 Df 为风机直径。如风机直径大于5米, 则以5米为准。
 - 6.在测量噪音时应不受周边背景声音的干扰, 否则应对所得读数进行修正。
- 1.POINT(1): horizontal level away from air inlet louver $Dm=1.13\sqrt{L\times W}$ (m), vertical level away from the top of cement foundation 1.5m.
 - 2.POINT(2): horizontal level away from air inlet louver $D2=5$ (m), vertical level away from the top of cement foundation 1.5m.
 - 3.POINT(3): horizontal level away from air inlet louver $D3=10$ (m), vertical level away from the top of cement foundation 1.5m.
 - 4.POINT(4): horizontal level away from air inlet louver $D4=20$ (m), vertical level away from the top of cement foundation 1.5m.
 - 5.POINT(5): Df =fan diameter, if $Df>5$ m, take $Df=5$ m.
 - 6.When testing noise level, please avoid affect from background noise level, otherwise amendment should be conducted.

MSX横流式冷却塔噪音测量点示意图
MSX-L/SL/UL NOISE LEVEL





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Web Site: <http://www.mesan.com.hk>

To Whom It May Concern:

Hong Kong, October 29th 2003,

CERTIFICATE OF DISTRIBUTORSHIP & LICENSED MANUFACTURING

We confirm that:

**OMRAN TAHVIEH INDUSTRIAL Co.
#1.2, 1st floor, Nr. 108 Iranshahr Avenue
Teheran
IRAN**

has been appointed as licensed manufacturer for MST[®] brand name Cooling Towers for industrial applications in the Islamic Republic of Iran.

This Certificate confirms the Licenced Manufacturers & Distributors Contract as signed on 12 September 2003.

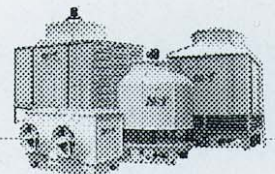
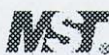
This agreement will come into force on 01st of October 2003 and be valid until 31th December 2004.

Yours sincerely

MESAN Cooling Tower Ltd.



Henk Janssen
Asst. General Manager
Overseas Division





OMRAN TAHVIEH

Heating , Ventilation And Air Conditioning

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All data and specification subject to change without notice .