



MS Series
逆流式系列
Counter Flow Type

MST®

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- 由于本公司技术不断改进，本书参数如有更改，恕不另行通知。
- 本公司可为客户设计提供特殊型号冷却塔。
- 正常使用情况下皆有一年免费保修。

- In order to upgrade the products, MESAN reserves the right to amend the technical data without prior notice
- MESAN provides custom design cooling tower to meet special requirement
- One year warranty under normal operation

Dealer:

2009-7/G

MST®

Professionals in Thermal Solutions

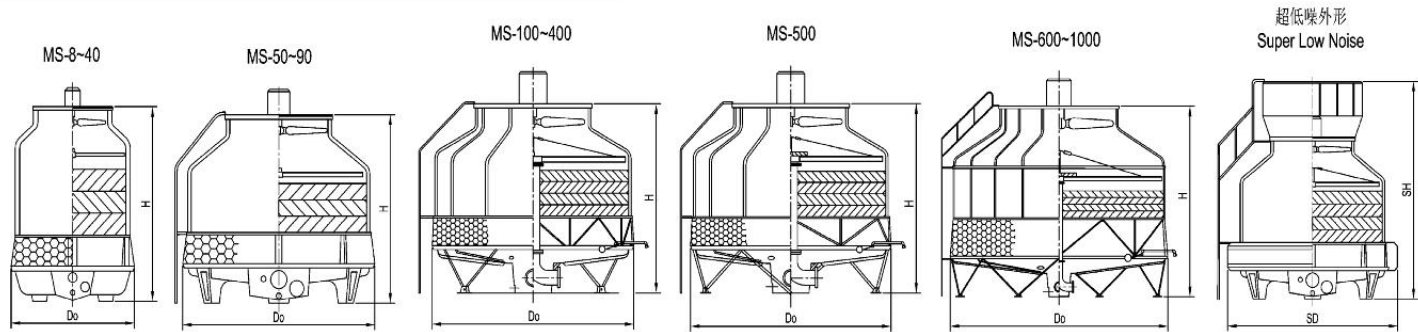


MS系列冷却塔性能参数表
SPECIFICATION FOR MS COOLING TOWER

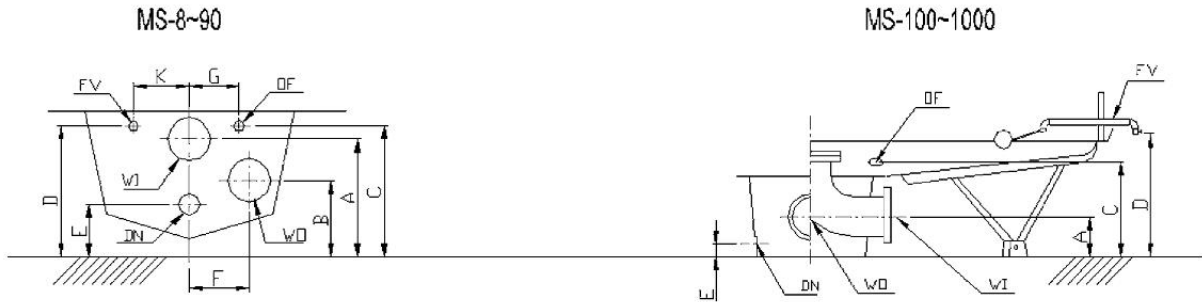
设计工况：大气压力-P=99.4KPa 湿球温度-T_w=27° C 干球温度-T_d=31.5° C 进水温度-T₁=37° C 出水温度-T₂=32° C
Design Condition：P=99.4KPa Wet Bulb Temp-T_w=27° C Dry Bulb Temp-T_d=31.5° C Inlet Water Temp-T₁=37° C Outlet Water Temp-T₂=32° C

型号 Model	冷却水量 Water Flow Rate (m³/h)		外形尺寸 Tower Dimension (mm)				电机 功率 Motor (kw)	风机直 径Fan Diameter (mm)	风量 Air Flow Rate (m³/h)	重 量 Weight (kg)						水压 Head Loss (Kpa)
			标准型、低噪声型 Standard & Low Noise		超低噪声型 Super Low Noise					标准型 Standard		低噪声型 Low Noise		超低噪声型 Super Low Noise		
	27°C	28°C	Diameter Do	Height H	Diameter SD	Height SH				自重 DRY	运行重 WET	自重 DRY	运行重 WET	自重 DRY	运行重 WET	
MS-8	6.4	5.6	930	1395	1280	2075	0.18	584	4200	51	120	53	122	93	160	20
MS-10	8	7	930	1625	1280	2305	0.18	584	5100	55	137	57	139	97	165	20
MS-15	12	11	1175	1495	1530	2195	0.37	760	8400	80	215	82	217	135	270	20
MS-20	16	14	1375	1605	1720	2305	0.37	760	10800	102	260	105	262	160	315	20
MS-25	20	18	1375	1765	1720	2465	0.55	760	13200	110	325	115	327	170	380	20
MS-30	24	21	1615	1885	2000	2695	0.75	884	14400	150	355	155	360	220	420	20
MS-40	32	28	1780	1800	2120	2610	0.75	884	17400	165	405	170	410	230	470	20
MS-50	40	35	1870	2070	2240	2880	1.10	884	19200	200	500	205	505	275	575	25
MS-60	48	42	1870	2070	2240	2965	1.50	1184	24600	250	560	255	565	345	645	25
MS-80	64	56	2100	2440	2580	3340	1.50	1184	26400	430	790	435	795	580	890	25
MS-90	72	63	2100	2790	2580	3740	2.20	1184	31200	445	840	450	845	595	940	25
MS-100	80	70	2965	2535	3275	3485	2.20	1470	36600	510	1340	520	1380	680	1650	30
MS-125	100	88	2965	2535	3275	3485	2.20	1470	43200	620	1480	630	1550	790	1850	30
MS-150	120	105	3320	2585	3645	3715	4.00	1780	56400	780	1860	790	1950	1030	2450	30
MS-175	140	123	3320	2585	3645	3715	4.00	1780	68400	870	1950	880	2100	1120	2600	30
MS-200	160	140	3700	3010	4070	4140	4.00	1780	74400	1330	3035	1350	3055	1415	3200	30
MS-225	180	158	4410	3510	4970	4635	4.00	1780	74400	1450	3155	1470	3175	1560	3500	30
MS-250	200	175	4410	3460	4970	4870	5.50	2360	103800	1475	3180	1500	3200	1800	3800	30
MS-300	240	211	4410	3460	4970	4820	5.50	2360	114000	1750	3460	1780	3500	2080	4000	30
MS-350	280	246	4860	3780	5340	5140	5.50	2360	130800	1865	3870	1900	3900	2280	4175	40
MS-400	320	281	4860	3675	5340	5035	7.50	2940	154200	2120	4125	2160	4170	2590	4460	40
MS-500	400	351	5520	4050	6230	5410	7.50	2940	176400	2550	7125	2595	7185	3130	7545	40
MS-600	480	421	6610	4320	7325	5800	11.00	3330	225600	3160	10270	3210	10310	3850	10930	50
MS-700	560	491	6610	4770	7325	6250	11.00	3330	237000	3490	10600	3540	10650	4250	11300	50
MS-800	640	561	7600	5000	8395	6480	15.00	3630	297000	4415	12010	4480	12080	5375	12680	50
MS-1000	800	702	7600	5000	8395	6480	15.00	3630	330000	5205	13020	5275	13100	6170	13700	50

MS系列冷却塔外形图
DIMENSION DRAWING FOR MS COOLING TOWER



MS系列冷却塔接管尺寸表
PIPING SIZE FOR MS COOLING TOWER



型号 Model	外形尺寸(mm) Tower Dimension		配管规格(mm) Piping Size						安装尺寸(mm) Piping detail								
	Do	H	WI	WO	OF	DN	FV	QF	A	B	C	D	E	F	G	K	L
MS-8	930	1395	40	40	25	25	15	—	210	110	215	220	80	90	120	100	—
MS-10	930	1625	40	40	25	25	15	—	210	110	215	220	80	90	120	100	—
MS-15	1175	1495	50	50	25	25	15	—	220	125	235	250	90	105	130	145	—
MS-20	1375	1605	50	50	25	25	15	—	220	155	270	275	90	115	150	180	—
MS-25	1375	1765	50	50	25	25	15	—	220	155	270	275	90	115	150	180	—
MS-30	1615	1885	80	80	25	25	15	—	250	145	290	325	90	125	160	145	—
MS-40	1780	1800	80	80	25	25	15	—	290	140	310	340	85	155	155	155	—
MS-50	1870	2070	80	80	25	25	20	—	280	160	315	325	85	155	155	170	—
MS-60	1870	2070	80	80	25	25	20	—	280	160	315	325	85	155	155	170	—
MS-80	2100	2440	100	100	40	25	20	—	250	180	330	385	100	160	180	190	—
MS-90	2100	2790	100	100	40	25	20	—	250	180	330	385	100	160	180	190	—
MS-100	2965	2535	125	125	40	40	25	—	155	155	280	700	60	—	—	—	—
MS-125	2965	2535	125	125	40	40	25	—	155	155	280	700	60	—	—	—	—
MS-150	3320	2585	150	150	40	40	25	—	155	155	280	750	60	—	—	—	—
MS-175	3320	2585	150	150	40	40	25	—	155	155	280	750	60	—	—	—	—
MS-200	3700	3010	150	150	50	40	25	25	240	240	550	990	60	—	—	—	—
MS-225	4410	3510	150	150	80	40	25	25	330	330	620	1070	60	—	—	—	—
MS-250	4410	3460	200	200	80	40	25	25	240	240	620	1070	60	—	—	—	—
MS-300	4410	3460	200	200	80	40	25	25	240	240	620	1070	60	—	—	—	—
MS-350	4860	3780	200	200	80	40	25	25	240	240	620	1100	60	—	—	—	—
MS-400	4860	3675	200	200	80	40	25	25	240	240	620	1100	60	—	—	—	—
MS-500	5520	4050	250	250	100	80	50	50	240	240	620	1300	100	—	—	—	—
MS-600	6610	4320	250	250	100	80	50	50	240	240	720	1380	100	—	—	—	—
MS-700	6610	4770	250	250	100	80	50	50	240	240	720	1380	100	—	—	—	—
MS-800	7600	5000	300	300	100	80	50	50	340	340	900	1560	100	—	—	—	—
MS-1000	7600	5000	300	300	100	80	50	50	340	340	900	1560	100	—	—	—	—

企业概况

COMPANY PROFILE

东莞明新玻璃纤维工程有限公司是明新（香港）集团属下一家集研究、设计、生产和销售于一身的冷却塔专业公司。公司位于东莞市中堂镇美丽的东江河畔，并在广州、东莞、深圳、北京、山东及新加坡有分公司的办事处。公司生产基地占地6万多平方米，厂房面积2万多平方米，年产值达8000多万元。现有员工192人，其中专业技术人员25人，教授级高级工程师1名，高级工程师2名，海外技术顾问2名，工程师5名，助理工程师5名，技术员10名。

明新冷却塔凭借卓越的产品性能，可靠的制造工艺，丰富的施工经验，完善的服务体系，产品畅销国内二十多个省市及海外30多个国家，赢得了国内外20多万用户的信赖和支持。

多年来明新一直致力于产品多元化的发展与高新技术的投入，不但与上海交大合作开发了一整套冷却塔选型软件。2004年还与澳大利亚冷却塔技术专家合作，依照了美国冷却技术学会（CTI-Cooling Technology Institute）的冷却塔热工性能国际测试标准而建立了当前冷却塔行业最具规模的电脑化冷却塔热工性能试验场。所有的测试设备均采购来自美国 and 澳大利亚，为产品开发、创新、热工性能提供了一流的硬件平台。

明新拥有多项经国内外权威部门测试检验的优质冷却塔。2004年10月，明新已成为中国及香港首家通过全球最具权威的美国冷却技术学会（CTI）冷却塔热工性能认证标准STD-201（2002）的冷却塔制造商。目前全球只有12家冷却塔制造商通过并拥有此类冷却塔热工性能的一级国际认证。此外，明新也通过了ISO9001-2008国际质量管理认证以及环境保护工业产品质量认可证书。这些都让明新冷却塔等产品具备一流的科技含量和质量。

今天，明新集团以雄厚的实力，精湛的技术，先进的管理，开拓的精神，贯彻着“励精图治、创新图强”的经营理念，不断地锐意进取、创新，为用户带来了极高的投资回报及经济效益。公司将一如既往地关注用户的利益，不断提高产品的性能，创建冷却塔行业一个高效益、高品质的品牌。

专业明新，与您共进...

Dongguan Mesan Fiberglass Engineering Ltd. is a subsidiary of MESAN Group from Hong Kong. It is a professional cooling tower manufacturer that engaged in cooling tower research, design, production and sales. The factory is located in Dongguan, China with branch offices in Guangzhou, Dongguan, Shenzhen, Beijing, Shan Dong and Singapore. With the total area of 60,000 square meters of the factory, the production is more than 20,000 square meters and the annual production is over\$80 million. Nowadays we have 192 employees with 25 professional technicians 1 Senior Professor Engineer,2 Senior Engineers,2 Overseas Technical Consultant,5 Engineers,5 Assistant Engineers and 10 technicians.

With the excellent thermal performance , reliable quality ,enrich on-site experience as well as the perfect service from Mesan, the Mesan cooling tower are widely used in more than 25 provinces in China as well as more than 30 countries over the world. Mesan Cooling tower has won the trust and support from over two hundred thousands of end users.

For so many years, Mesan has been engaging in series of product development and technical research, for instance, Mesan together with Shanghai Jiaotong University developed a full set of cooling tower selection software. In year 2004, Mesan constructed quite a sizable computerized Cooling Tower Thermal Performance Test Laboratory in accordance to the standard requirement of CTI (Cooling Technology Institute) with the assistance of the Australian Cooling Tower Technologist. All the equipments and the test instruments were purchased from USA and Australia. The Test Laboratory provides Mesan a first class platform for the cooling tower development and performance test.

Mesan possesses qualified Cooling Tower tested by various renowned test laboratories form both China and overseas. In Oct 2004, Mesan Cooling Tower satisfactorily fulfilled the requirements for certification of Thermal Performance by the CTI Certification Standard STD-201(2002), the first cooling tower manufacturer in both HongKong and China to acquire this international accredited Thermal Performance certification. There are only 12 Cooling Tower manufacturers in the world who acquire this CTI Certification. Besides, MESAN also obtained ISO9001-2008 International Quality Management Certification as well as Quality Certification for Environmental friendly Industrial Product. This assure the best skilled and quality products of MESAN.

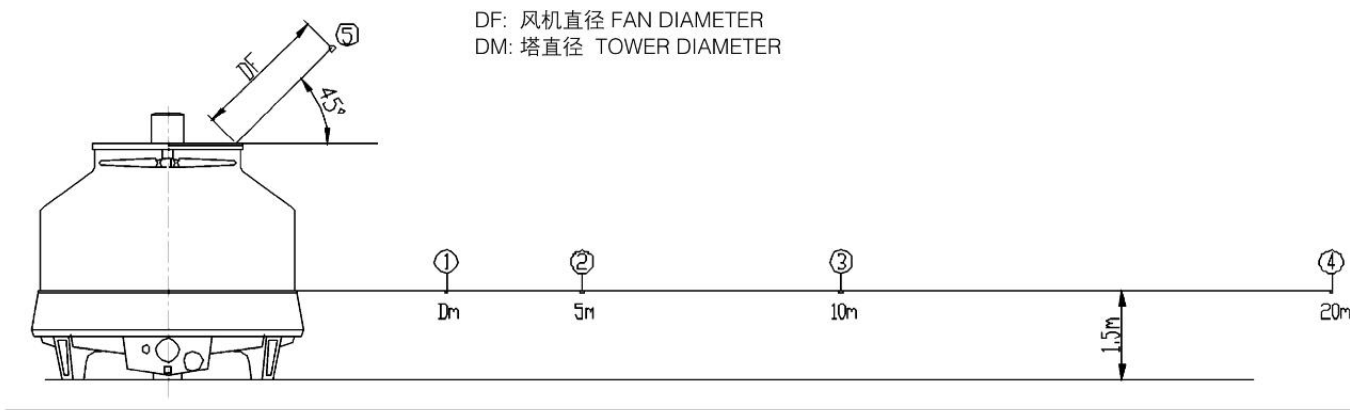
Mesan executed the management philosophy of “Finest Quality and Continuous creativity” with its strong foundation ,matured skill, advanced management as well as the exploitation spirit. This will provide the customers with a higher investment return and a cost effective product. Mesan will be taking care of the benefit for the customers and upgrading the product performance as usual. Mesan will also maintain a excellent and quality brand in the cooling tower industry.

Mesan, Professional in thermal solutions...



MS系列冷却塔噪音表

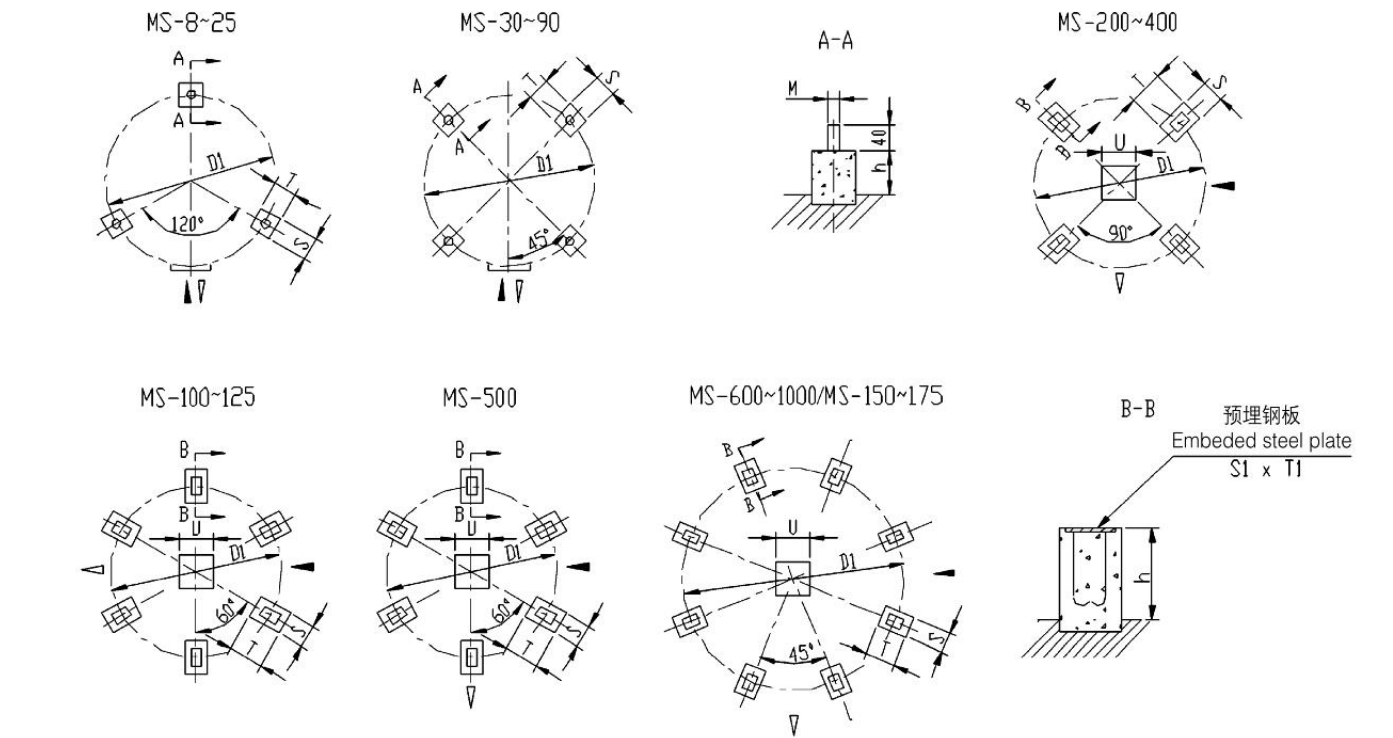
NOISE LEVEL CHART FOR MS COOLING TOWER



型号 Model	标准型 dB(A) Standard dB(A)					低噪声型 dB(A) Low Noise dB(A)					超低噪声型 dB(A) Super Low Noise dB(A)				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
MS-8	62	56.2	52.0	47.6	63	54	48.2	44.0	39.6	57	52	46.2	42.0	37.6	53
MS-10	62	56.2	52.0	47.6	63	54	48.2	44.0	39.6	57	52	46.2	42.0	37.6	53
MS-15	63	57.1	52.9	48.6	64.5	57	51.1	46.9	42.6	60	53	47.1	42.9	38.6	55
MS-20	63	57.0	52.8	48.5	64.5	57.5	51.5	47.3	43.0	61	53.5	47.5	43.3	39.0	55
MS-25	63.5	57.5	53.3	49.0	65	58	52.0	47.8	43.5	62	54	48.0	43.8	39.5	55.5
MS-30	65	59.3	55.3	51.0	67	59	53.3	49.3	45.0	63	54.5	48.8	44.8	40.5	56
MS-40	65	59.8	55.8	51.6	67	59	53.8	49.8	45.6	63	55	49.8	45.8	41.6	56
MS-50	66	61.1	57.1	52.9	68	60	55.1	51.1	46.9	64	55	50.1	46.1	41.9	56.5
MS-60	67	62.1	58.1	53.9	69	61	56.1	52.1	47.9	64.5	56	51.1	47.1	42.9	58
MS-80	67	62.7	58.8	54.6	69	61	56.7	52.8	48.6	64.5	57	52.7	48.8	44.6	59
MS-90	68	63.7	59.8	55.6	70	61.5	57.2	53.3	49.1	65	58	53.7	49.8	45.6	59.5
MS-100	68	65.5	61.8	57.7	70.5	62	59.5	55.8	51.7	65.5	58	55.5	51.8	47.7	61
MS-125	68.5	66.0	62.3	58.2	71	62	59.5	55.8	51.7	65.5	58.5	56.0	52.3	48.2	61.5
MS-150	69	67.1	63.5	59.4	72	63	61.1	57.5	53.4	66	59	57.1	53.5	49.4	62
MS-175	69	67.1	63.5	59.4	72	63.5	61.6	58.0	53.9	67	59.5	57.6	54.0	49.9	62.5
MS-200	69.5	68.1	64.6	60.6	73	64	62.6	59.1	55.1	67.5	60	58.6	55.1	51.1	63
MS-225	70	69.4	66.0	62.1	73.5	64	63.4	60.0	56.1	67.5	60.5	59.9	56.5	52.6	64
MS-250	70	69.4	66.0	62.1	73.5	64.5	63.9	60.5	56.6	68	61	60.4	57.0	53.1	65
MS-300	70.5	69.9	66.5	62.6	74	65	64.4	61.0	57.1	69	61.5	60.9	57.5	53.6	65
MS-350	70.5	70.4	67.0	63.2	74	65	64.9	61.5	57.7	69	62	61.9	58.5	54.7	66
MS-400	71	70.9	67.5	63.7	75	65.5	65.4	62.0	58.2	69.5	62.5	62.4	59.0	55.2	66
MS-500	71	71.4	68.2	64.4	75	66	66.4	63.2	59.4	70	62.5	62.9	59.7	55.9	67
MS-600	71	72.2	69.1	65.4	75	66	67.2	64.1	60.4	70	63	64.2	61.1	57.4	68
MS-700	72	73.2	70.1	66.4	76	67	68.2	65.1	61.4	71	63.5	64.7	61.6	57.9	69
MS-800	72.5	74.2	71.3	67.7	76.5	68	69.7	66.8	63.2	72	64	65.7	62.8	59.2	69
MS-1000	73	74.7	71.8	68.2	77	69	70.7	67.8	64.2	73	65	66.7	63.8	60.2	70

注：噪音指标以测点①为准，其余测点仅作参考。
Note: Point ① will be the noise level indication,other measuring points are for reference only.

MS系列冷却塔基础尺寸图表
FOUNDATION DRAWING FOR MS COOLING TOWER



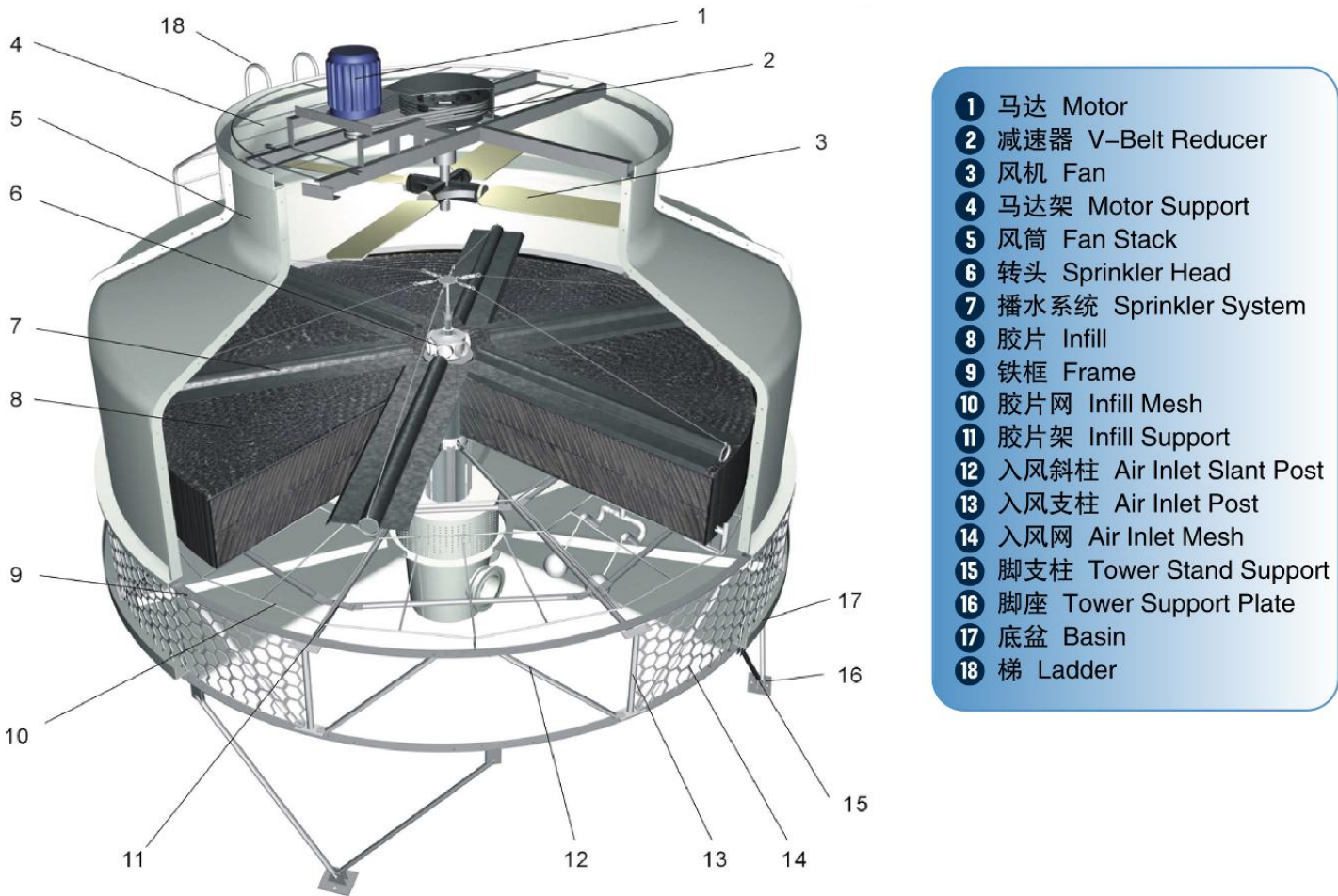
数据 型号 Model	D1 (mm)	U (mm)	S (mm)	T (mm)	M (mm)	h (mm)
MS-8	600	—	250	250	M10	300
MS-10	600	—	250	250	M10	300
MS-15	878	—	300	300	M10	300
MS-20	1060	—	300	300	M10	300
MS-25	1060	—	300	300	M10	300
MS-30	1275	—	300	300	M10	300
MS-40	1430	—	300	300	M10	300
MS-50	1505	—	300	300	M10	300
MS-60	1505	—	300	300	M10	300
MS-80	1715	—	300	300	M10	300
MS-90	1715	—	300	300	M10	300

数据 型号 Model	D1 (mm)	U (mm)	S (mm)	T (mm)	S1 x T1 (mm)	h (mm)
MS-100	2810	600	300	300	200 x 200	300
MS-125	2810	600	300	300	200 x 200	300
MS-150	3210	600	300	300	200 x 200	300
MS-175	3210	600	300	300	200 x 200	300
MS-200	3570	600	300	400	250 x 250	300
MS-225	4300	600	300	400	250 x 250	300
MS-250	4300	600	300	400	250 x 250	300
MS-300	4300	600	300	400	250 x 250	300
MS-350	4700	600	300	400	250 x 250	300
MS-400	4700	600	300	400	250 x 250	300
MS-500	5300	600	300	400	250 x 250	300
MS-600	6500	800	500	600	250 x 250	300
MS-700	6500	800	500	600	250 x 250	300
MS-800	7500	800	500	600	250 x 250	300
MS-1000	7500	800	500	600	250 x 250	300

注：1、“▲”为进水方向，“▼”为出水方向；2、所有基础上表面必须在同一水平面；3、基础高h为推荐值，可据现场供水管道而定；4、基础制作请参照国家相关标准。

Note: 1 “▲” Water inlet, “▼” Water outlet. 2 All the foundation must set at the same level. 3 h is the recommended height only, Owner can set the height according to the site condition. 4 Apply the usual national code when making the foundation.

结构简图
TOWER STRUCTURE



- (一) **高效率，低能耗** 冷却塔采用的胶片，其特殊结构提供更大的散热面积，使冷却入水获得更高的散热效能。同时风扇采用大直径。低转速、高效率轴流式风扇，更能降低马达的耗电量。
- (二) **低噪声** 明新冷却塔除在结构上采取了消声、隔声等技术措施外，还通过采用低噪声和超低噪声轴流风扇，使设备在保证风量的情况下，最大限度地降低噪声。
- (三) **寿命长** 明新圆形系列冷却塔均采用高品质的材料及配件，以使设备寿命延长，经久耐用。
- 明新冷却塔采用的材料如玻璃纤维外壳及散热胶片，均经特别选用，以达到防腐蚀、防化学物侵蚀、抗紫外光之效果。
 - 所有金属结构材料均采用厚身的钢材并作热浸镀锌处理，极大的提高了冷却塔的使用寿命。
 - 布水系统采用优质工程塑料转头或铜合金转头，并配以进口轴承，使用寿命更长久。
- (四) **性能可靠** 明新圆形系列冷却塔以国标7190-97和美国CTI code ATC-105为设计标准，水塔效率有充分保证，使设备在恶劣气候环境下，仍能保证其冷却性能。

- ① **High efficiency, energy saving** The fill is special design structure that maximize the air - water surface contact area to ensure high efficiency of heat exchange while minimizing power requirement. The axial flow fan is selected for maximum performance with minimum energy consumption.
- ② **Low noise** The application of noise elimination and insulation technique in the cooling tower structure, Low Noise Axial Fan and Super Low Noise Fan also further reduce the cooling tower noise level and maintain sufficient airflowrate.
- ③ **Long life** Mesan Cooling Tower are supplied with the follow high quality material and components to extend the equipment life.
- Mesan Cooling Tower FRP casing and infill are developed specially, offers a superior quality fiberglass reinforced polyester, resistant to chemical, corrosion, ultraviolet radiation.
 - All the steel components with corrosion protection in hot dip galvanized process, thus achieved a longer tower life.
 - PVC/copper alloy material are used in sprinkler head with imported bearing to extend the cooling tower life.
- ④ **Reliable operation** Mesan Cooling Towers are based on our China National Standard GB7190-1997 and code ACT-105 of United States to design, assure the efficiency of the cooling tower and also can guarantee its cooling performance even under bad climate environment.