水帘

Digital Water Curtain



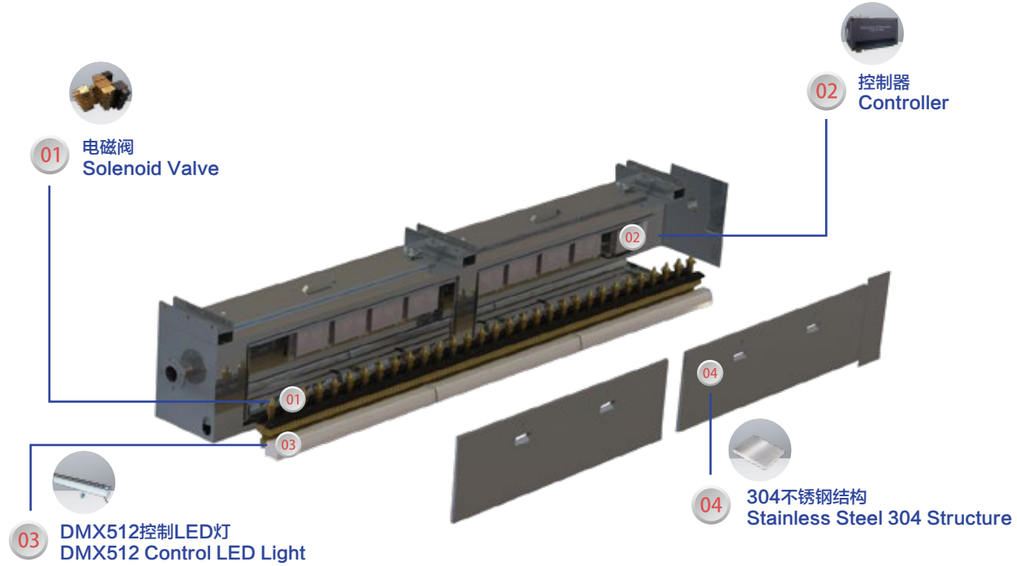
产品简介

数字水帘是一款由水组成任意文字及图案的互动景观类产品，可应用于广场、酒店等室内外场所。

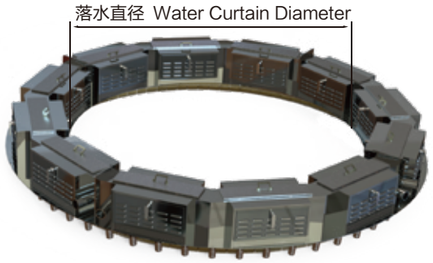
水帘通过电脑程序控制电磁阀的开合时间，从而使每一只水嘴的出水长度达到电脑运算的需要。按此原理，不同的出水长度在离开水嘴到达水面的瞬间，即可组成所需要的图形、文字。同样，水帘的LED灯也根据电脑指令呈现出所需的各种色彩和亮度的灯光，使展示的文字图形绚丽多彩。

Product Introduction

Digital Water Curtain is an interactive landscape product which forms any text and pattern by water. It can be applied in Plazas, hotels and other places.By adjusting water length of each nozzle to achieve the need of computer computing, the computer program controls solenoid valve opening and closing time. According to this principle, different lengths of water can form the required graphics and texts at the moment when the water leaves the nozzle. Simultaneously, the LED lights of the water curtain also presents various colors and brightness required by the computer program, making the text and graphics displayed colorful.







1、点播功能

体验者通过易达科技微信公众号的点播入口进入程序，在歌曲商城中选择相应的音乐并输入文字，点播系统会根据歌曲旋律自适应编排出相应的水型图案。

1. On-Demand System

The user enters the program through the WeChat Official Account of E-Tech Technology, then selects the music in the song store and enters the text, the on-demand system would arrange the corresponding water graphics according to the melody of the song.

扫二维码观看视频
Scan code to watch video

2、手绘功能

体验者在触摸屏上手绘图案，水帘系统会在表演过程中即时呈现相应的手绘水型。

2. Graffiti

The user draws a graphic by hand on the touch screen, and the water curtain system will present the corresponding hand-drawn water graphics in real time when it performs.



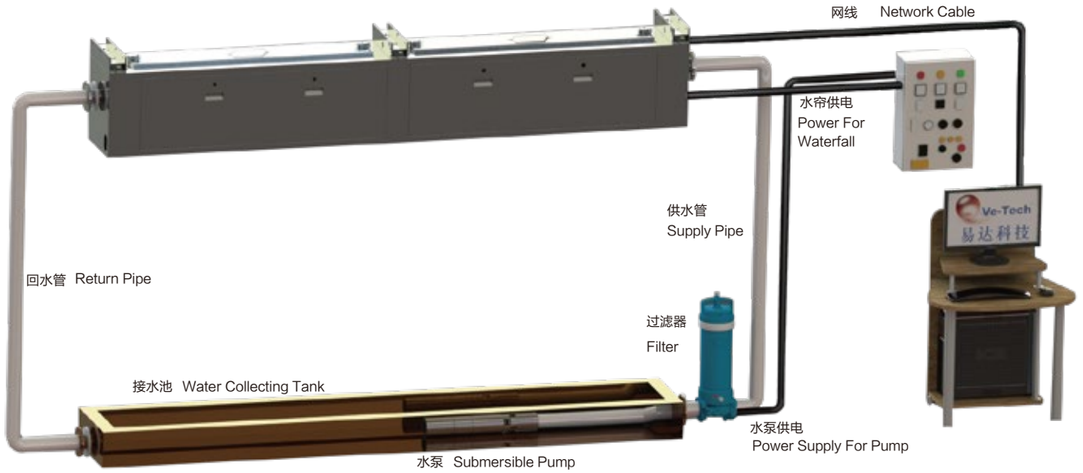


“一”型数字水帘主要性能参数 Linear Digital Water Curtain

	型号 Model / 参数 Parameters	VeSL-1-1000	VeSL-1-2000	VeSL-1-3000	VeSL-1-4000	VeSL-1-5000	VeSL-1-6000	VeSL-1-7000	VeSL-1-8000	VeSL-1-9000
S款 Series S	流量（m^3/hr）Flow (m^3/hr)	2.4	4.8	7.2	9.6	12	14.4	16.8	19.2	21.6
	安装功率（kW）Power (kW)	0.69	1.38	2.07	2.76	3.45	4.14	4.83	5.52	6.21
	电磁阀数量（个）Solenoid Valves(Pcs)	40	80	120	160	200	240	280	320	360
	阀嘴数量（个）Nozzles(Pcs)	80	160	240	320	400	480	560	640	720
	落水长度（mm）Water Curtain Length(mm)	1000	2000	3000	4000	5000	6000	7000	8000	9000
M款 Series M	流量（m^3/hr）Flow (m^3/hr)	2.6	5.2	7.8	10.4	13	15.6	18.2	20.8	23.4
	安装功率（kW）Power (kW)	0.89	1.78	2.67	3.56	4.45	5.34	6.23	7.12	8.01
	电磁阀数量（个）Solenoid Valves(Pcs)	64	128	192	256	320	384	448	512	576
	阀嘴数量（个）Nozzles(Pcs)	128	256	384	512	640	768	896	1024	1152
	落水长度（mm）Water Curtain Length(mm)	1000	2000	3000	4000	5000	6000	7000	8000	9000
L款 Series L	流量（m^3/hr）Flow(m^3/hr)	2.8	5.6	8.4	11.2	14	16.8	19.6	22.4	25.2
	安装功率（kW）Power(kW)	1.11	2.23	3.34	4.46	5.57	6.69	7.8	8.92	10
	电磁阀数量（个）Solenoid Valves(Pcs)	80	168	248	328	416	496	576	664	744
	阀嘴数量（个）Nozzles(Pcs)	160	336	496	656	832	992	1152	1328	1488
	落水长度（mm）Water Curtain Length(mm)	965	2026	2991	3956	5018	5983	6948	8009	8974
	给水口径（DN）Input-water Diameter(DN)	32	50	65	65	80	80	100	100	125
	回水口径（DN）Return-water Diameter(DN)	40	65	80	80	100	100	120	120	125
	灯光功率（kW）Light Power(kW)	0.072	0.144	0.216	0.288	0.36	0.432	0.504	0.576	0.648
	净重（kg）Net Weight(kg)	90	140	220	300	380	460	540	620	700
	运行重量（kg）Operatig Weight(kg)	165	250	400	540	680	830	970	1110	1260
	水帘长度（mm）Equipment Length(mm)	1340	2340	3340	4340	5340	6340	7340	8340	9340

“圆”型数字水帘主要性能参数 Circle Digital Water Curtain

	型号 Model / 参数 Parameters	VeSL-0-2000	VeSL-0-2500	VeSL-0-3000	VeSL-0-3500	VeSL-0-4000	VeSL-0-4500	VeSL-0-5000	VeSL-0-5500	VeSL-0-6000
S款 Series S	流量（m^3/hr） Flow(m^3/hr)	15.07	18.84	22.6	26.37	30.14	33.91	37.68	41.44	45.21
	安装功率（kW）Power(kW)	4.32	5.4	6.49	7.57	8.65	9.74	10.82	11.9	12.99
	电磁阀数量（个）Solenoid Valves(Pcs)	251	314	337	440	502	565	628	691	754
	阀嘴数量（个）Nozzles(Pcs)	502	628	674	880	1004	1130	1256	1382	1508
	落水周长（mm）Water Curtain Perimeter(mm)	6275	7850	8425	11000	12550	14125	15700	17275	18850
M款 Series M	流量（m^3/hr）Flow(m^3/hr)	16.32	20.41	24.49	28.57	32.65	36.73	40.82	44.9	48.98
	安装功率（kW）Power(kW)	5.57	6.98	8.37	9.77	11.16	12.57	13.96	15.36	16.75
	电磁阀数量（个）Solenoid Valves(Pcs)	400	504	600	704	800	904	1008	1104	1208
	阀嘴数量（个）Nozzles(Pcs)	800	1008	1200	1408	1600	1808	2016	2208	2416
	落水周长（mm）Water Curtain Primeter(mm)	6250	7875	9375	11000	12500	14125	15750	17250	18875
L款 Series L	流量（m^3/hr）Flow (m^3/hr)	17.58	21.98	26.37	30.77	35.16	39.56	43.96	48.35	52.75
	安装功率（kW）Power(kW)	6.99	8.74	10.49	12.25	13.99	15.74	17.5	19.25	20.99
	电磁阀数量（个）Solenoid Valves(Pcs)	520	648	784	912	1040	1168	1304	1432	1560
	阀嘴数量（个）Nozzles(Pcs)	1040	1296	1568	1824	2080	2336	2608	2864	3120
	落水周长（mm）Water Curtain Primeter(mm)	6272	7816	9457	11001	12545	14089	15729	17273	18817
	给水口径（DN）Input-water Diameter(DN)	125	125	125	150	150	150	100*2	100*2	125*2
	回水口径（DN） Return-water Diameter(DN)	125	125	125	150	150	150	100*2	100*2	125*2
	灯光功率（kW）Light Power(kW)	0.452	0.565	0.678	0.791	0.904	1.017	1.13	1.243	1.356
	净重（kg）Net Weight(kg)	500	630	750	880	1000	1130	1260	1380	1500
	运行重量（kg）Operatig Weight(kg)	900	1130	1350	1580	1800	2030	2270	2480	2700
	水帘直径（mm） Equipment Diameter(mm)	2320	2820	3320	3820	4320	4820	5320	5820	6320



设备的安装条件

Equipment Installation Requirements

- 回水管是采用重力回流，所以回水管安装必须符合从高处往低处回流。

  Return pipe is based on gravity reflow principle, so the installation of return pipe should follow the high to low reflow principle.

- 系统需安装可靠的纸芯过滤器，若无法过滤微生物时，可适当投入药剂。

  The system needs to install a reliable paper core filter. If it is impossible to filter microorganisms, it can be properly put some medicine.

- 当项目无法做到重力回流时，可定制恒位供水方式，只需供水管，无需回水管。

  When the project cannot achieve gravity reflow, the constant water supply mode can be customized. Then we only need the water supply pipe, no need for a return pipe.

- 最理想视觉效果的落水高度在3m左右。

  The best visual effect of the Waterfall is about 3M.

- 水帘四周应留有足够的调试检修空间。

  Sufficient space shall be reserved surround the equipment to accommo-date daily operation and maintenance.

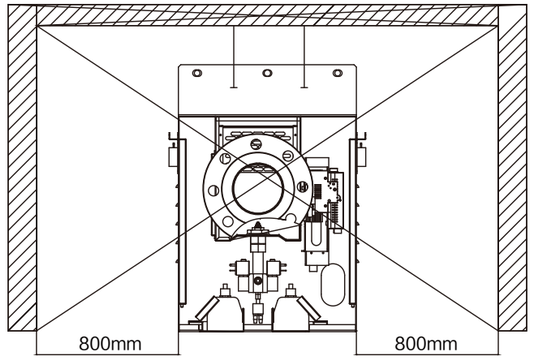
- 安装在户外时，风力不超过3级时可正常运行。

  For outdoor, it can work well when the wind power is no more than level 3.

接水池的选择

Water Collecting Pool

接水池材质要求 Material Requirement	混泥土、不锈钢等材质都可 Concrete, Stainless Steel Or Other Materials			
水帘落水高度 Height of Water Curtain	接水池最小宽度 Width Of Water Collecting Pool	接水池最小长度	Length Of Water Collecting Pool	接水池最小深度 Depth Of Water Collecting Pool
≤3m	1m	落水长度+1.0m	Length Of Water Curtain +1.0m	0.5m
≤4m	1.2m	落水长度+1.2m	Length Of Water Curtain +1.2m	0.5m
≤5m	1.4m	落水长度+1.4m	Length Of Water Curtain +1.4m	0.6m
≤6m	1.6m	落水长度+1.8m	Length Of Water Curtain +1.8m	0.6m
≤7m	1.8m	落水长度+1.8m	Length Of Water Curtain +1.8m	0.6m
≤8m	2m	落水长度+2.0m	Length Of Water Curtain + 2.0m	0.6m



标准检修空间
Standard Maintenance Space

紧凑检修空间
Insufficient Maintenance Space

