Mist screen equipment installation plan

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1. Overview

1.1 Introduction and Functional Description

Air fog screen, also known as water fog screen, is a new type of exhibition display equipment. From the literal meaning, we can see that it is an imaging device that uses fog as a carrier. The biggest difference between it and traditional screens is that it simulates illusion, giving people a mysterious and ethereal feeling and leaving a deep impression. In addition, it also has the function of purifying the air. If necessary, it can also act as a "humidifier". "H2O" produces 1-10μ water particles during overclocking oscillation, which is what we call "fog". Such small water particles can filter and precipitate a lot of dust, exhaust and other harmful substances in our air. Therefore, fog screen can be fully used as a display platform in stages, exhibitions, and advertisements; it can also be widely used in science and technology museums, museums, exhibition halls, airports, stations, shopping malls, corporate exhibition halls, bars. KTV and other entertainment venues. Some relatively closed display windows with air flow have the effect of killing two birds with one stone, giving people a new three-dimensional visual enjoyment while purifying our air and maintaining our health.

1.2 Specifications

Air volume setting level	1-9 gear adjustment
Fog volume setting level	1-9 gear adjustment
control method	remote control
Installation	Hanging
Projector Requirements	Engineering projector 5000 lumens or more
Projection equipment	Projector, laser, LOGO light

Water adding method	Use a special connector to connect to tap water without impurities, and the machine will automatically start /stop water supply
Drainage method	Drain the water once every half a month, and drain it if you need to stop using it for a few days.
power supply	220V/50-60HZ
power	1500W per meter
size	The length can be customized from 1 to 4 meters (can be spliced together), thickness 4 3 CM, height 60CM

1.2.1 Technical Parameters

1.2.2 Specifications (taking 2.0 meters as an example):

Fog Machine

Length: 19 9 0mm Width: 430mm Height: 580mm
Total power: 3000W . Rated water consumption: 6L-12/h;

1.2.3 Product features:

1.2.3.1 Low voltage safety: The maximum voltage of the fog screen system is 48V, which does not pose a hazard to human health.

1.2.3.2 Strong compatibility: The signal played by the fog screen projection can be computer-made advertisements and

animations. It can also be DVD, video, TV signals, etc. It can also be live broadcast, with clear and dynamic images.

1.2.3.3 Splicability: Each fog screen unit can be used alone or in combination to form various shapes and sizes, such as flat surface, curved surface, etc.

1.2.3.4 Strong and beautiful: Made of stainless steel, with plastic spray treatment on the exterior.

1.2.3.5 Ultrasonic resonance: no mechanical drive, quiet and noiseless, high atomization rate, low failure rate and simple maintenance.

1.2.3.6 Strong controllability: The mist will not stay in the venue and will vaporize immediately when the power is turned off.

1.2.3.7 Easy installation: The equipment has three installation methods: hanging, floor-standing and side-spraying , which not only facilitates equipment installation, but also improves the efficiency of space utilization; it has low requirements for site installation and can be installed in halls, passages, doorways, elevator entrances, etc.

1.2.3.8 Reasonable design: The air duct design is exquisite and reasonable, which can minimize the power consumption, save energy and protect the environment. In addition, a "wireless control system" can be installed if necessary.
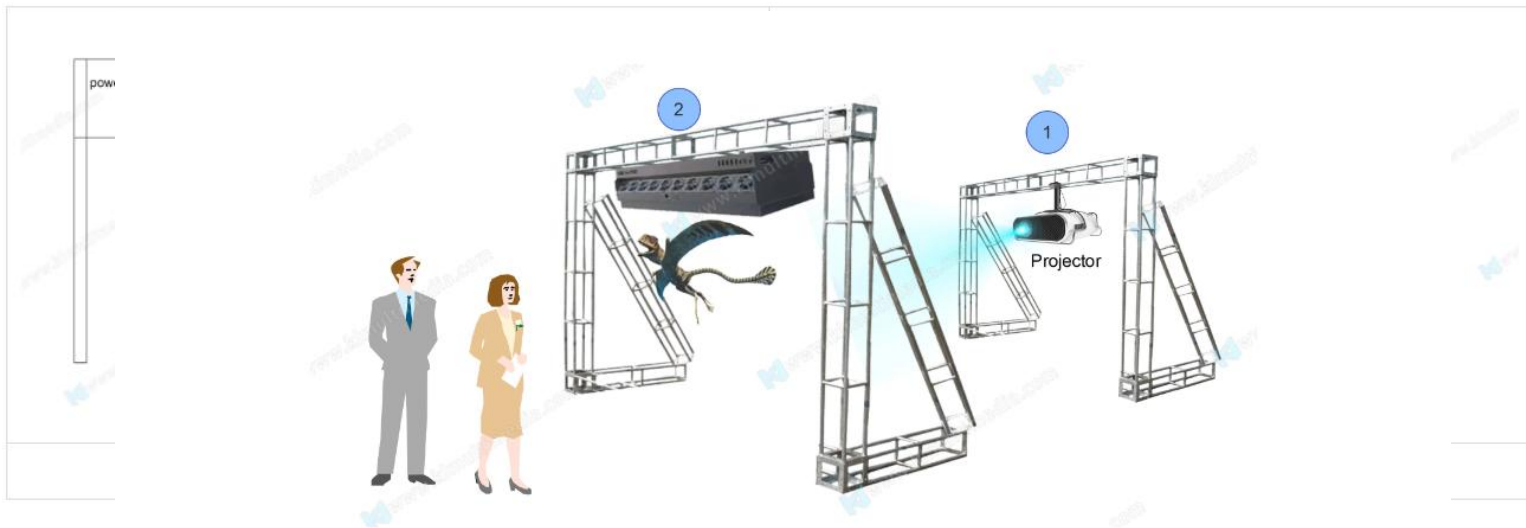

1. 3 Remote Control Button Description

1. The remote control must be turned on and in simple mode to work.

2. The remote control has 15 buttons:

A. 5: Device switch.

B. 1, 2, 3, 4: Timing time setting, corresponding to 1, 2, 4, 8 hours. You must select the time first and then press the No. 6 button on the remote control for the timing setting to be effective.

C. 7, 8, 9: Adjust the air volume. Each button can adjust 3 levels in a cycle, for a total of 9 levels.

D. 10, 11, 12: Adjust the amount of fog. Each button can adjust 3 levels in a cycle, 9 levels in total.

E. 13: Turn off heating status.

F. 14: Turn on heating.

G. 15: Clear the timing time.

2. Installation Instructions

①	②
Projector [Resolution]:>1280*800 DPI [Lumens]:>5000lumens [Throw Rate]:Long throw	Fog machine Hang in front of the projector.

2.1 Installation Preparation

2.1.1 Before installation, please use safe and secure equipment and facilities, hang the machine horizontally, and hang a safety rope.

2.1.2 Before use, please check whether the input voltage is normal, AC 220V.

2.1.3 Select appropriate water access solution;

A: If there is a water source, you can directly connect to the tap water (the impurities in the water source need to be filtered) .

B: For sites without water sources , please communicate with the seller when placing an order to equip the machine with a water pump or purchase a DC24V/50W or higher water pump by yourself and connect the machine to the internal power supply according to the seller's instructions. Find a container for water and put the machine's water inlet pipe into the container to automatically add water (the water source needs to be filtered for impurities) .

Note: When adding water to the machine, pay attention to whether there is water leakage at the water pipe connection to prevent

water leakage from causing short circuit and burning of the power supply or fan inside.

Kind tips:

When starting up the machine for the first time, do not turn it on directly after power is turned on. Wait until the equipment is filled with water and the water inlet pump stops working. At this time, the water is full. Press the power button on the remote control to observe the state of the mist output. If one side is outputting mist while the other side is not, it means that the equipment is not suspended in balance. At this time, raise or lower the end of the machine that is outputting mist or the end that is not outputting mist until the mist output is even, indicating that the installation is successful.

2.2 Installation steps

Indoor ceiling installation methods

Teaching Video: https://www.klmultimedia.com/fog-screen-installation-video.html

2.2.1 Drive two expansion screws with hooks longer than 12 cm into the top of the ceiling;

2.2.2 Then hang the manual hoist on the hook of the expansion screw, connect the other end to the equipment and fix it, and raise it to the height you need;

2.2.3 Connect the power supply and water supply;

2.2.4 The operation is completed.

3. Maintenance and precautions

3.1 Operation and maintenance must be carried out in accordance with this User Manual;

3.2 Must use 220V voltage and install leakage protection device;

3.3 For hanging installation, both ends of the machine must be kept horizontal, and the water in the machine tank must be drained when transporting or moving;

3.4 The machine has all-metal internal electronic components. Please do not expose it to water or place it in a dark and humid environment.

3.5 It is normal for the machine to drip water after a certain period of use.

3.6 The normal life of the atomizer is 7000 hours. Please replace the atomizer in time when the life is reached.

3.7 Clean and maintain the machine's water tank and fan regularly, usually once every half a month.

4. Product Item List

① A wooden box

② Multimedia 3D air fog screen

③ One docking hose

④ A pair of water pipe plugs

⑤ A remote control

5. Construction and installation instructions

5.1 Water supply system installation instructions

Connect the 4- branch water supply pipe to the vicinity of the machine installation (within 1 meter) (leave a 4-branch internal thread joint like a household washing machine) , and set up independent water and electricity switches (the switches should be placed in a convenient place because the water and electricity should be turned off when not in use every day) .

5.2 Drainage system installation instructions

Because the fog curtain equipment has its own condensation water tank, there is no need to lay additional drainage pipes for the equipment. You only need to arrange personnel to open the drain port and pour water with buckets . Of course, if conditions permit, you can also connect the drain valve and pipes to drain directly .

5.3 Electrical system installation instructions

The power supply point needs to be provided by the design institute, and the reserved power is 3500w. The main power-consuming part of the fog curtain equipment is the fog generating equipment itself, and other parts consume less power, so it is sufficient to reserve some fluctuation ranges , and independent water and electricity switches (the switches should be placed in convenient places for operation as water and electricity should be turned off when not in use every day) .

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5.4 Equipment positioning and installation instructions

5.4.1 Installation location: The fog curtain equipment can be hidden in the ceiling, with only the fog outlet and water inlet reserved.

5.4.2 Installation of fog curtain equipment: First confirm the equipment size and the actual size on site, directly fix two Φ12 or larger hook bolts on the upper floor, lift the equipment with electric/manual hoist, wait for the equipment to be hidden

in the ceiling, reserve the fog outlet, and fix it. Connect the water source and power supply, and put it into use after debugging.

6. Projection content description

6.1 Projection Environment Description

The location where the fog screen is installed needs to be shaded because the light is bright and the projection effect is poor. It is planned to use opaque glass to cover the windows on site to reduce the impact of light. The specific projection equipment needs to be shaded and selected according to the actual situation.