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Create Smart Lives



E-Tech Technology (Shenzhen) Limited established in 2004, formerly by the name of E-Tech Heat Pumps (Shenzhen) Limited, which originated from Hong Kong, the leading and diversifying supplier of heat pumps, DC 24V submersible pumps, water treatment products and interactive water features products.

With more than three decades of experience and hard-working, we have achieved not only innovative concepts in design, but also unique products in manufacture. So far, we have obtained several national patents, international PCTs, national computer software copyrights and other qualifications. As a market leader, E-Tech was entrusted by the "Ministry of Housing and Urban-Rural Development of the People's Republic of China" to be responsible for editor-in-chief of the industry standard "Swimming Pool Damp-Removal Heat Recovery Heat Pump". In 2018, E-Tech became a national high-tech enterprise officially.

As one of the leaders of the water technology product in China, by our full experiences in product application, our water products are well spread throughout China, north to Manzhouli & south to Sanya, west to Xinjiang & east to Taiwan. We have provided services for well-known hotels and developers, such as Marriott, Hilton, Shangri-La, Wanda, Poly, Greenland, OCT, Country Garden, Evergrande etc. In order to keep our lead in technology, we frequently invite overseas professionals in water fields to communicate the new technology as a strategic plan. Our branches in Beijing, Shanghai, Chengdu, and Xiamen provide excellent professional technology support in time.

"Focusing on water, growing on water", E-Tech will always concentrate on the research and development of diversified water technology products, to provide the market with more water-oriented energy saving and interactive products.



Patent for Invention

Submersible pump system and submersible pump (Serial Number: ZL 2016 8 0007600.8)

The equipment and method of interaction minesweeping game (Serial Number: ZL 2016 8 0007530.6)

A system and method of bubble tracking, recognition and shooting (Serial Number: ZL 2016 8 000 7596.5)

Patent for Utility Models

Submersible pump (Serial Number: ZL 2019 2 0096975.7)

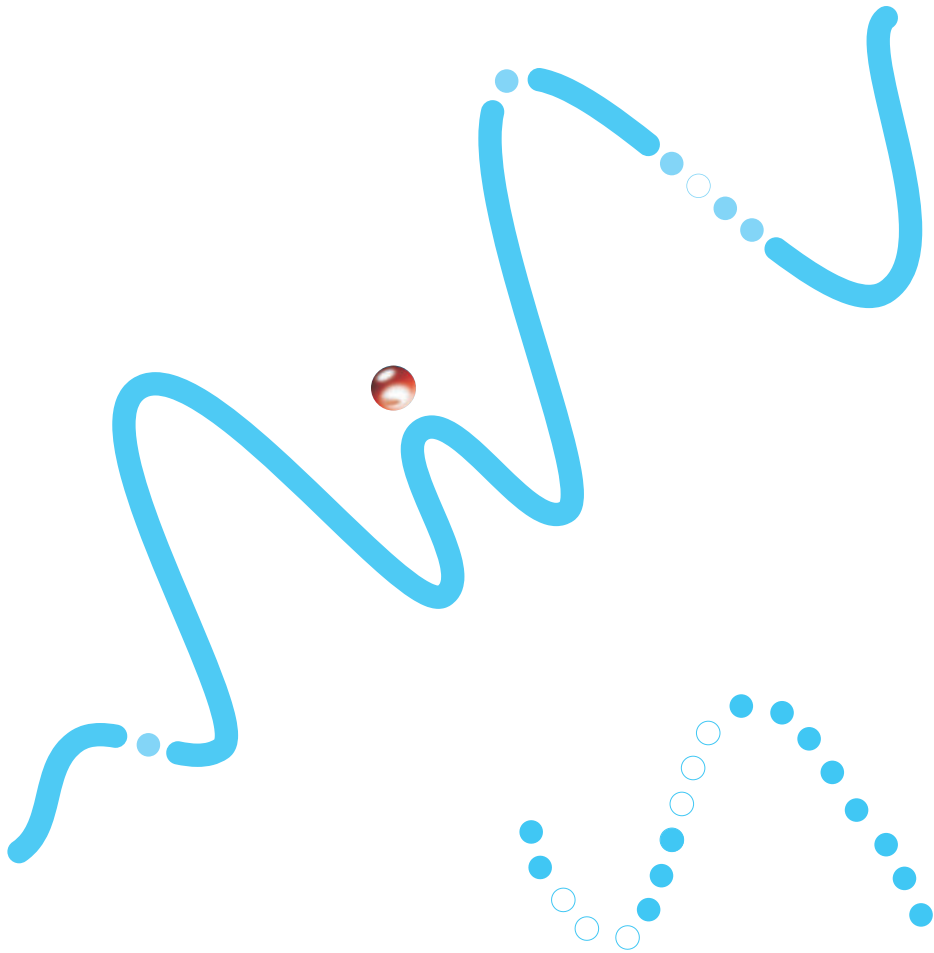
A safe integration flow filter device (Serial Number: ZL 2017 2 1172129.6)

A new type of digital water curtain with interaction and entertainment function (Serial Number: ZL 2016 2 0440993.9)

Design Patent

Waterfall swing (Serial Number: ZL 2018 3 0708656.8)

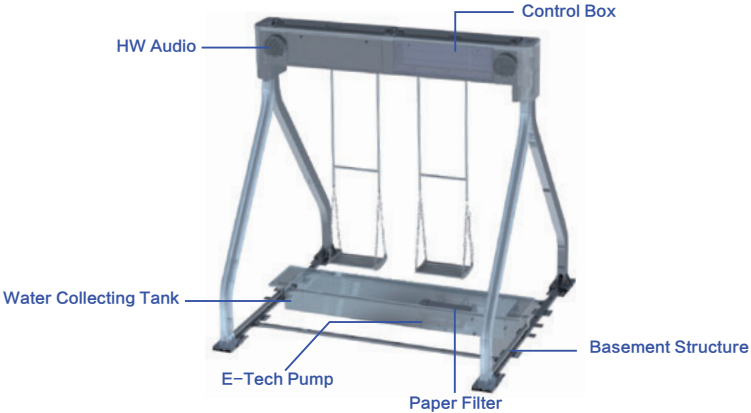
Water Interactive (Entertainment) Products



Waterfall Swing

Waterfall Swing is an interactive landscape product which developed from digital water curtain. People will not get wet when swing on it. It is suitable for various outdoor scenes such as scenic spots, parks, squares and entertainment parks.

With E-Tech extra low voltage submersible pump inside bottom tank, it transports water from the bottom tank to the top tank. By controlling the top solenoid valve with high-precision sensors and efficient algorithms, it can accurately control the water falling gaps, so as to keep you dry in the water when you swing.



Features

- E-Tech DC24V Extra Low Voltage Pump
- DC24V High Speed Solenoid Valve
- High Quality Paper Filter
- HW Audio System
- LED-RGB Light
- High-precision Sensors And Efficient Algorithms
- Scan-To-Pay To Start
- IP43 Waterproof Grade

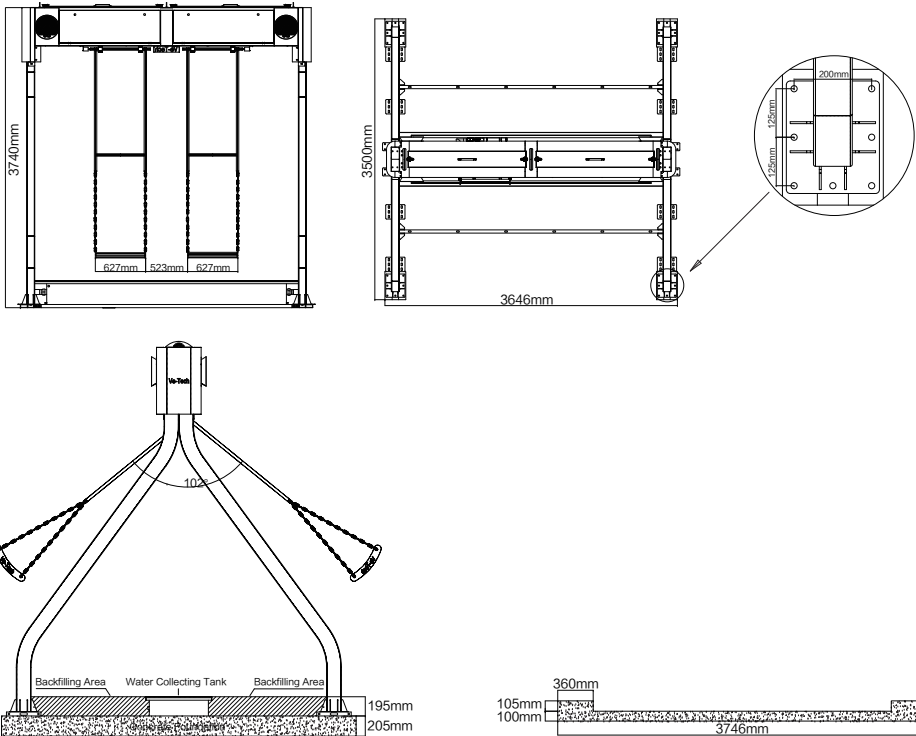
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Parameters

Item	Parameter
Color Scheme	Red/Blue/White/User-defined
Working Ambient Temperature	3~40℃
Working Ambient Humidity	20~90%RH Non-condensing
Waterproof Grade	IP43
Material	SS304+Carbon Steel
Solenoid Valves	120 Pcs
Nozzles	240 Pcs
Audio	HW Audio 100x2
Starting Mode	Optional: Button/Scan-To-Pay
Installation Site	Outdoor and Indoor (Outdoor Rainproof)
Installation Power Supply	AC220V-2.2kW
Net Weight	600kg
Dimension	3646mmx3500x3740mm

Waterfall Swing Dimension





Dancing Fountain Tile

Dancing Fountain Tile

Dancing Fountain Tile is an interactive product, which is an integrated product of lighting, music and fountain systems. It can be modularized. It is suitable for square, dry fountain and other outdoor environments that have landscape requirement.

Features

- SS 304
- IP67 Waterproof Grade
- Frosted Tempered Glass
- DMX512 Standard Protocol
- Multi Different Signals Output



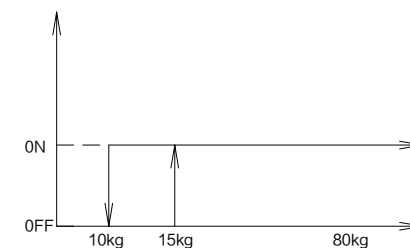
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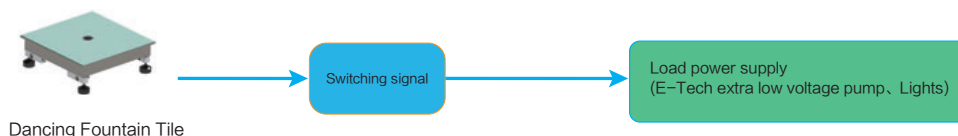
Control Schematic Diagram – Scheme I

• Switching Output

The gravity sensor converts weight changing stimuli into the electrical signal and send it to the switch. Then the switch controls E-Tech extra low voltage water pump, water entertainments, lighting and other equipment on/off. Switching output characteristics: passive normally open contact, Max 250V 5A.



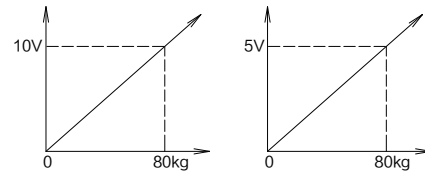
Switching And Weight Diagram



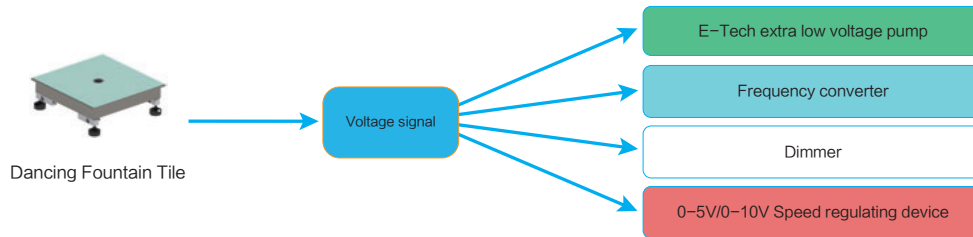
Control Schematic Diagram – Scheme II

● Analog Output

The weight changing stimuli is converted into the analog signal by the gravity sensor, the signal is directly converted into 0–5V or 0–10V voltage signal, then the input signal is transmitted to low-voltage water pump, frequency converter, dimmer and other equipments. One-to-one control or one-to-many control.



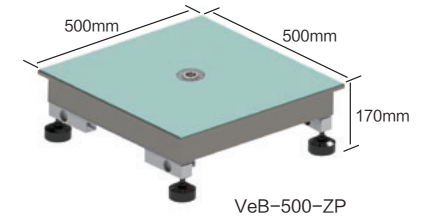
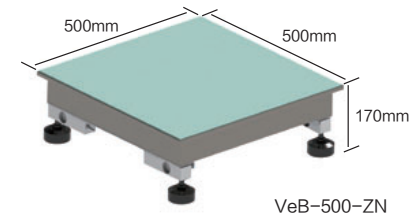
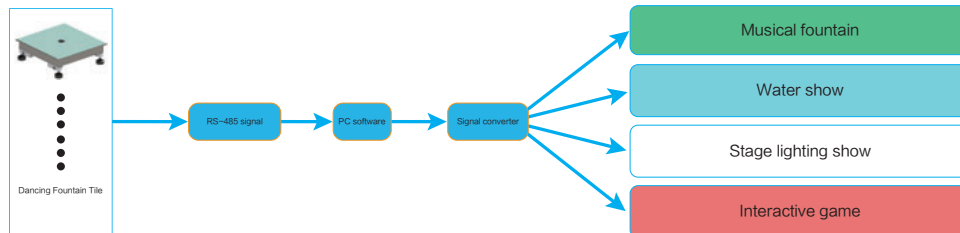
Voltage And Weight Linear Diagram



Control Schematic Diagram – Scheme III

● RS-485 PIF Out

The weight changing stimuli is converted into the standard modbus RTU protocol by the gravity sensor, then the input signal is transmitted to PC/PLC and other automation device. The upper computer software can control fitness fountain bicycle, fountain, water show, lighting and other equipments by the protocol. Interface type: RS-485 isolation type, support 03, 06, 16 (0x10) function code.



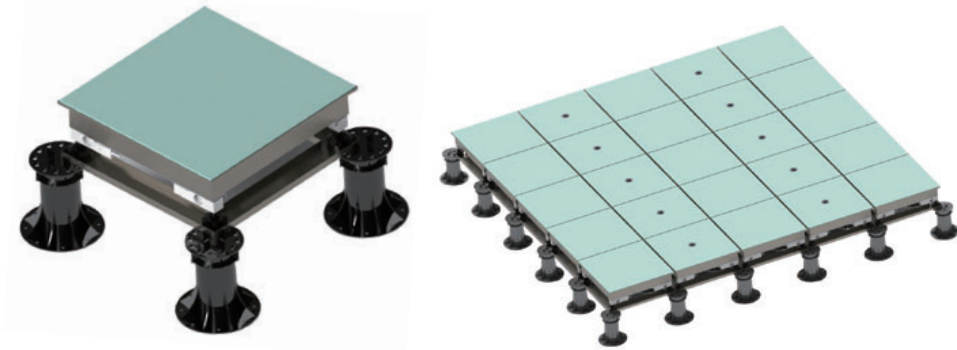
Model	VeB-500-ZN	VeB-500-ZP
Working Temperature	3~40℃	3~40℃
Waterproof	IP67	IP67
Material	SS304+Tempered Glass	SS304+Tempered Glass
Nominal Voltage	DC24V ± 2V	DC24V ± 2V
Power(No Light)	30W	42W
Floor Light	33W-RGB-DMX512	30W-RGB-DMX512
Circle Fountain Light	N/A	12W-RGB-DMX512
DMX Signal Channel	3 (Floor Light)	6 (Floor Light-3、Circle Fountain Light-3)
Signal Output	Switching/Voltage/Modbus Output	Switching/Voltage/Modbus Output
Bearing Weight	300kg	300kg
DC24V Submersible Pump	N/A	Optional
Installation Power Supply	DC24V ± 2V-40W	DC24V ± 2V-52W
Net Weight	18kg	18kg
Dimension	500mmx500mmx170mm	500mmx500mmx170mm

Note: More than 200 Pcs, the size of dry fountain tile can be customized.

Installation

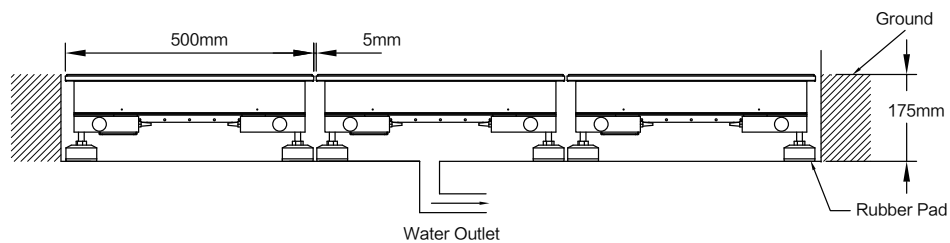
Scheme I Fountain Universal Supports

Making four legs of the dancing fountain tiles on the fountain universal supports, in same plane and with no wobbling, 5 mm gaps between each side of tiles shall be maintained to prevent the tiles squeezing each other.



Scheme II Embedded Foundation Installation

Making four legs of the dancing fountain tiles in the embedded foundation. Using rubber pad to make them in same plane and without wobbling, 5 mm gaps between each side of tiles shall be maintained to prevent the tiles squeezing each other. Embedding the water outlet pipe in advance to prevent water accumulating in the bottom.



Whack-A-Mole Water Interactive Module

Whack-A-Mole Water Interactive Module is an interactive product with a similar experience to the "whack-a-mole" game, which is composed of dancing fountain tiles. After the game starts, the tile's light and water will appear randomly. Players should step on the dancing fountain tiles in time, and the water will stop spray immediately after stepping on the dancing fountain tiles. The game supports multi-player participation, good challenge for players's reaction and speed. It's suitable for scenic spots, parks, squares, parks and other outdoor scenes and indoor scenes.



Features

DC24V E-Tech Extra Low Voltage Pump

Multi Color Schemes

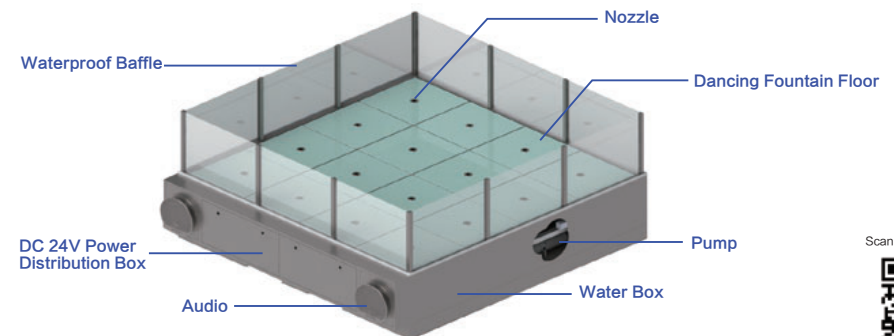
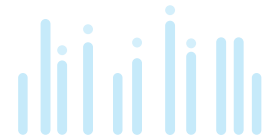
SS304

Light & Fountain Interaction

Music and Prompt Tone

IP43 Waterproof Grade For Outdoor Installation

Scan-To-Pay To Start



Scan code to watch video



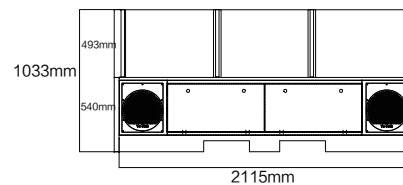
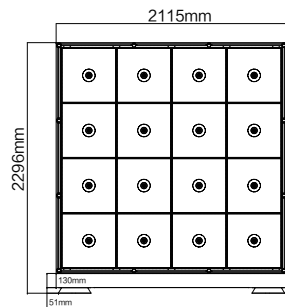
Whack-A-Mole Water Interactive Module

Model	VeDS-3x3	VeDS-4x4
Working Ambient Temperature	3~40℃	3~40℃
Working Ambient Humidity	20~90% Non-condensing	20~90% Non-condensing
Waterproof Grade	IP43	IP43
Color	Red/Blue/White/User-defined	Red/Blue/White/User-defined
Material	SS304	SS304
Dancing Fountain Tile Quantity	9	16
Audio	HW Nominal RES	HW Nominal RES
Starting Mode	Scan-To-Pay/Button	Scan-To-Pay/Button
Installation Site	Indoor And Outdoor (Rainproof)	Indoor And Outdoor (Rainproof)
Installation Power Supply	DC24V ± 2V-1600W	DC24V ± 2V-2400W
Dimension	1800mmx1890mmx480mm	2296mmx2115mmx540mm

Note: the quantity of dry fountain module can be combined freely according to the actual situation.



Power Distribution Box Model	VeDS-3x3	VeDS-4x4
Input Power Supply	220V-0.8kW	220V-1.6kW
Output Power Supply	DC24V+3V-1600W	DC24V+3V-2400W
Dimension	500x400x200	500x400x200
Material	SS304	SS 304
Waterproof Grade	IP43	IP43



Tap Dance Tile

Tap Dance Tile



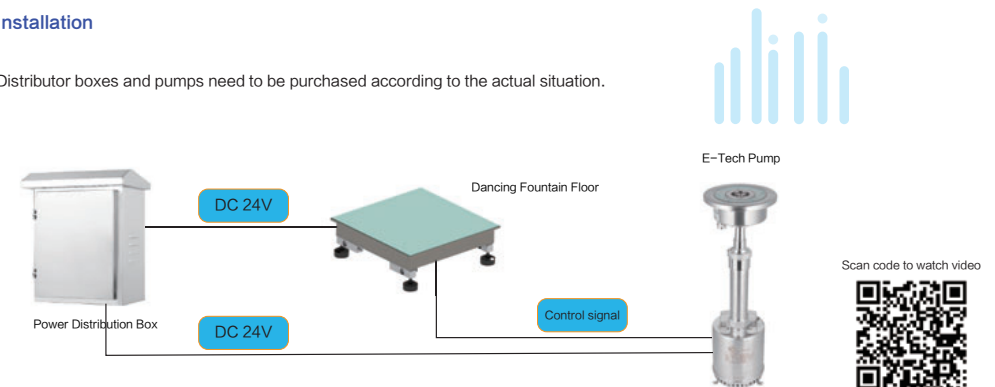
Tap dance is a novel interactive function of the dancing fountain tile. When players trample on the floor constantly, They make "tap-tap" sound, similar as playing "tap dance". Meanwhile, the floor flashes colorful lights with the rhythm of trample, and the rhythm signal of trample will be synchronized into the control signal of the pump, The spray of water and the rhythm of "tapping" are in synchronization. These bring players a multi-dimensional feeling of sound, light, water and dance. It is suitable for tourist resorts, squares, parks, etc.

Features

- E-Tech Standard Dancing Fountain Module
- DC24V Extra Low Voltage Power
- SS304
- Light, Water Interaction
- IP67 Waterproof Grade
- Scan-To-Pay To Start

Installation

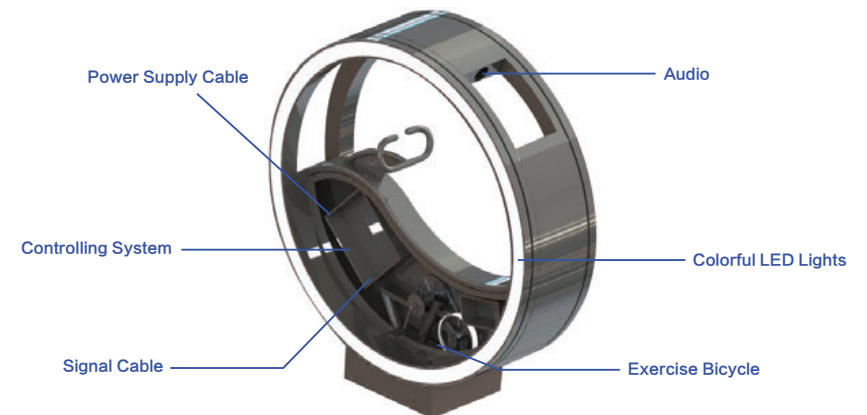
Distributor boxes and pumps need to be purchased according to the actual situation.



Fitness Fountain Bicycle

Fitness Fountain Bicycle is an interactive product that combines an exercise bike with a musical fountain. The fountain and the lights of the bike can change as the cycling speed changes. It can be placed on scenic spots, parks, squares, parks and other outdoor scenes and indoor scenes.

A high-speed sensor is used to detect the bicycle rotation speed. It sends variable signals to a reluctance riding pad, lighting and fountain equipments to control their performance.



Features

Multiple Color Schemes

Multiple Signal Solutions

Highlight LED Lights

High Quality Audio

IP43 Rainproof For Outdoor Installation

Scan-To-Pay To Start

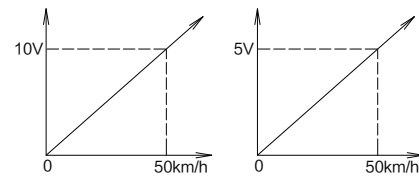
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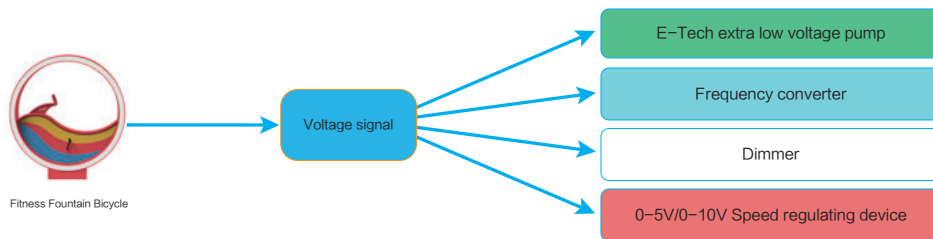
Control Schematic Diagram – Scheme I

• Analog Output

The rotation speed is converted into the analog signal by the speed sensor, the rotate speed signal is directly converted into 0–5V or 0–10V voltage signal, then the input signal is transmitted to low-voltage water pump, frequency converter, dimmer and other equipments. One-to-one control or one-to-many control.



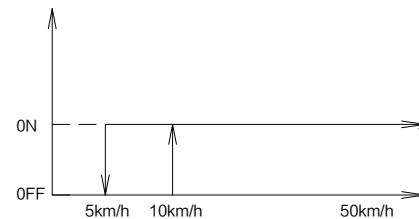
Voltage And Velocity Linear Diagram



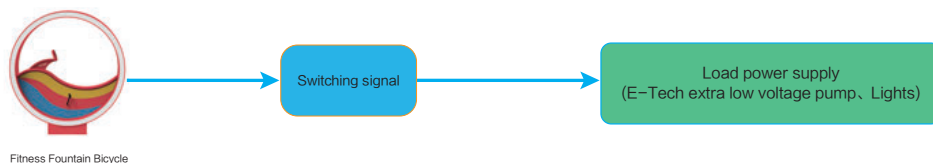
Control Schematic Diagram – Scheme II

• Switching Output

The rotation speed is converted into the analog signal by the speed sensor, and the speed changing controls the switching on/off directly. Then the switch turns E-Tech extra low voltage water pump, water entertainment, lighting and other equipments on/off. Switching output characteristics: passive normally open contact, Max 250V 5A.



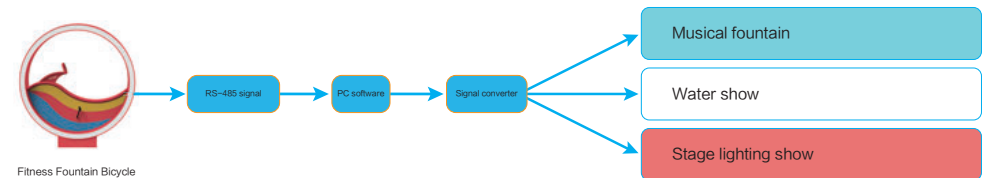
Switching Output And Speed Characteristic Diagram



Control Schematic Diagram – Scheme III

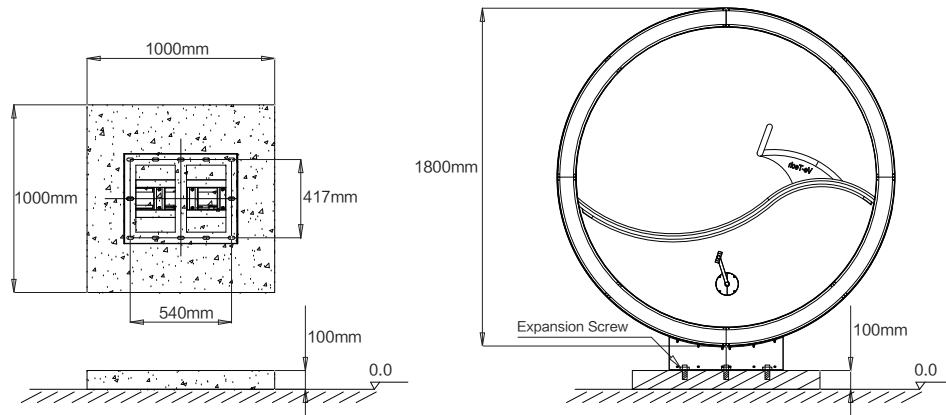
• RS-485 PIF Output

The rotation speed is converted into the standard modbus RTU protocol by the speed sensor, then the input signal is transmitted to PC/PLC and other automation device. The upper computer software can control between fitness fountain bicycle, fountain, water show, lighting and other equipments by the protocol. Interface type: RS-485 isolation type, support 03, 06, 16 (0x10) function code.



Model	VeDC-1800-D
Color Scheme	Red/Blue/White/User-defined
Working Ambient Temperature	3~40℃
Working Ambient Humidity	20~90%RH Non-condensing
Waterproof Grade	IP43
Surface	Wire Drawing Process
Material	SS304/201 Cold-rolled sheet
Starting Mode	Optional: Scan-To-Pay/Button/Riding
Output Signal	Optional: Switching /Voltage /Modbus
Music	6 Songs
Light Power	380W
Installation Site	Outdoor and Indoor (Outdoor Rainproof)
Installation Power Supply	AC220V-500W
Net Weight	140kg
Dimension	ø1800mmx500mm

Installation requirements



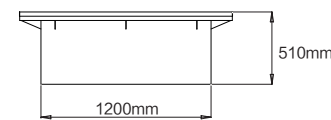
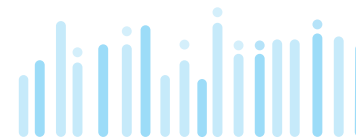
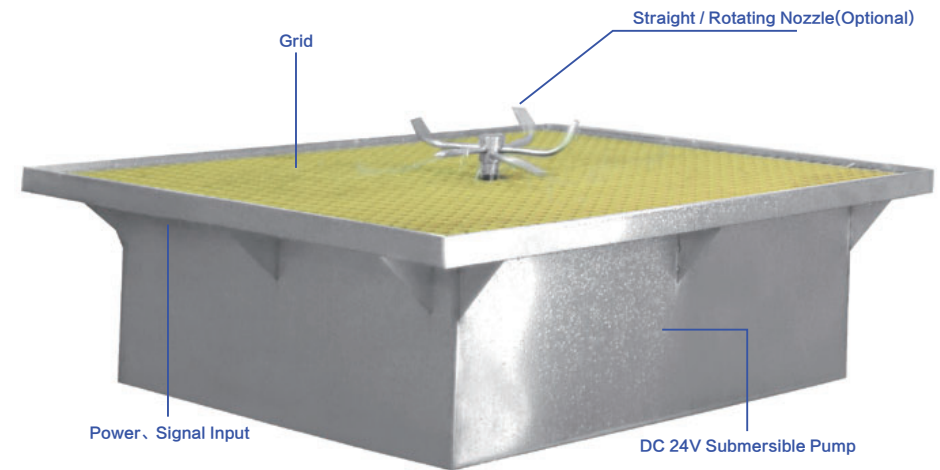
Optional: Interactive Tank

When there is no other water equipments or water features to interact with fitness fountain bicycle, you can purchase the interactive tank (including water pump, light and nozzle) separately to realize independent interaction.

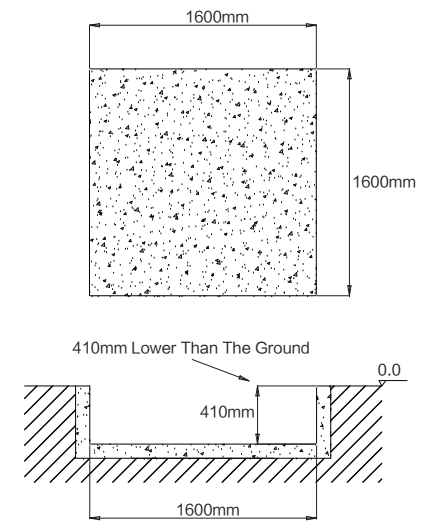


Working Ambient Temperature	3~40℃
Waterproof Grade	IP68
Material	SS304
Surface Grid Material	Glass fiber reinforced plastics
Nominal Voltage	DC24V
E-Tech Pump Model	MSP200
Pump Material	SS304
Pump Nominal Power	DC-24V-150W
Fountain Light Material	SS304
Fountain Light	24V-18W Optional
Nozzle Material	SS304
Nozzle Joint	DN25
Nozzle Type	Optional: Rotating flower basket and Direct spray
Installation Site	Indoor And Outdoor (Rainproof)
Installation Power Supply	DC24V-200W
Dimension	1500mmx1500mmx500mm

Tank



Tank Dimension



Tank Construction Diagram