

Flame Fountain

(Art. FFT-150)



Hansol Global Corporation

Phone : 82-31-354-9791

Fax : 82-31-354-9782

diotima1201@gmail.com

www.colorfirefly.com

#36-1 Yulam-ri, Paltan-myeon, Hwasung-si, Gyeonggi-do, Korea

Flame Fountain(Art. FFT-150)

Flame Fountain is the revolutionary product in the special effect industry.

This system shows two opposing elements coexistence of water and flame.

The system, which is a small fountain with a flame dancing atop the stream of cascading water, creates the paradoxical visual effect by dispelling a dose of natural gas through the water, making it flammable and able to emit a ball of fire at the center. Thus, there is the illusion of a cooperative relationship between the two natural elements. The system's feature is as follows :

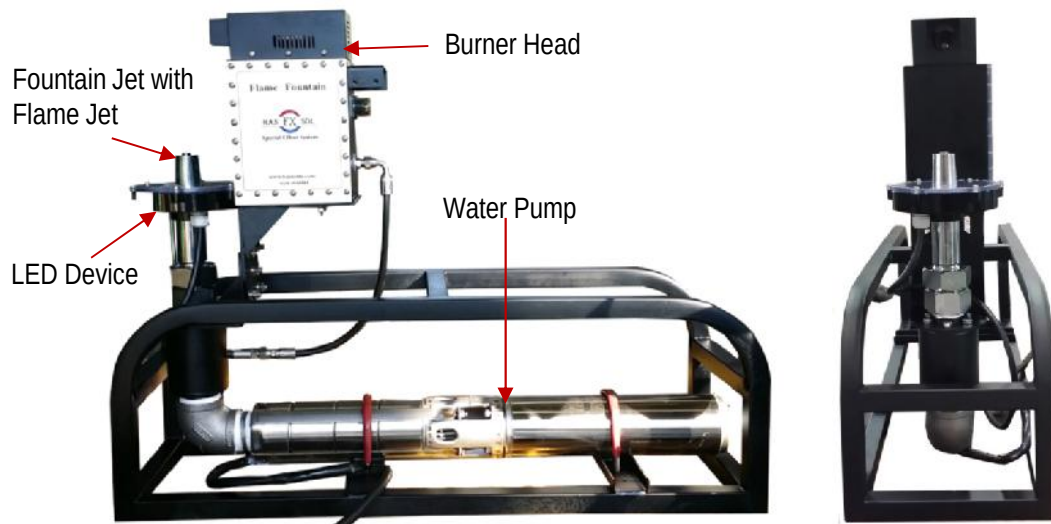
- Water fountain is controlled to a height upto 6m with DMX
- Ignition Burner and flame height is controller with DMX controller
- Flame and fountain can be projected horizontally
- LED Device is installed

Specification

1. Power : 200 ~ 240V 16amp
 - Water Pump : 2 HP, 230V 1.5KW 6.7AMP. Three Phase
 - Inverter : 200-240V, Single Phase, 15A
2. Size & Weight :
 - Flame Fountain : 90cm(L) x 30cm(W) x 63cm(H) 41KG
 - Control Box : 38cm(L) x 21cm(W) x 48cm(H) 6KG
3. Control : DMX Controller
 - Pump Start & Control Fountain Height : CH 1, DMX Key 2 ~ 255
(DMX Key 0~1 : No working of Pump for protecting Inverter)
 - Shoot Flame : CH 2
 - Pilot Ignition : CH 3
 - LED Red : CH4
 - LED Green : CH5
 - LED Blue : CH6
 - (Note : Even though DMX Key is 0, one of LEDs dimes very slightly. It is normal)
3. Maximum Fountain Height : upto 6m
4. LPG Consumption : 150gr/minute at Working Pressure 1 bar.
5. LPG Working Pressure for Ignition Burner : 1 bar
6. To use Flame fountain, you need "Water Basin, LPG Bottle, DMX Controller & Flame Fountain".

System Overview

Whole view of Fountain Flame

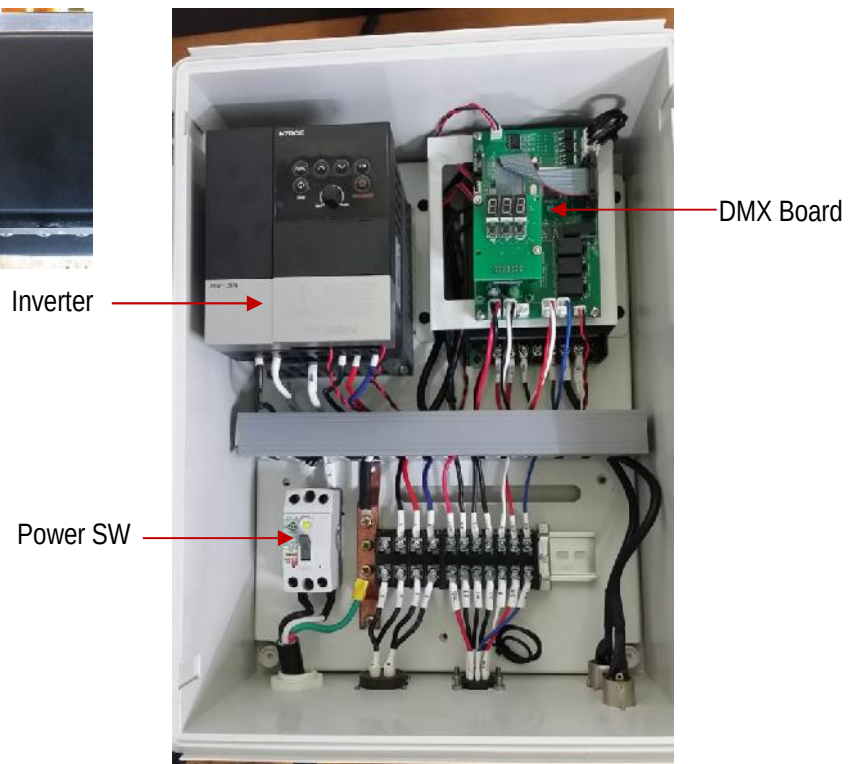


- Fountain and Flame Jet can have slight horizontal angle when it is pushed horizontally.
- Fountain and Flame Jet can be angled manually

LED Device



Control Box Inside

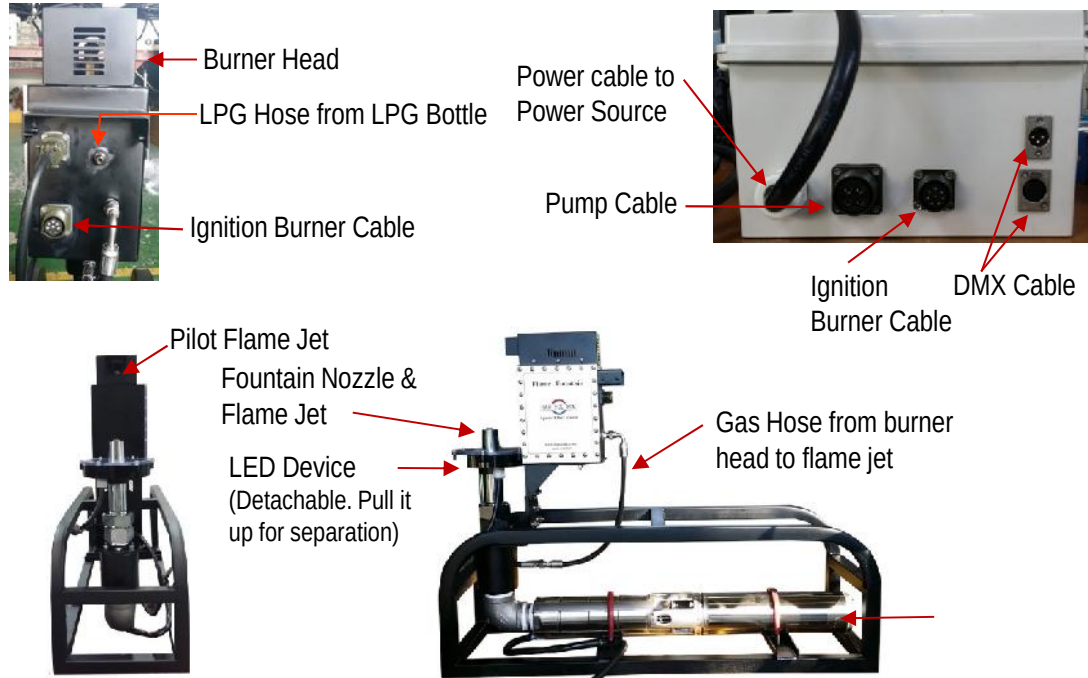


Warnings

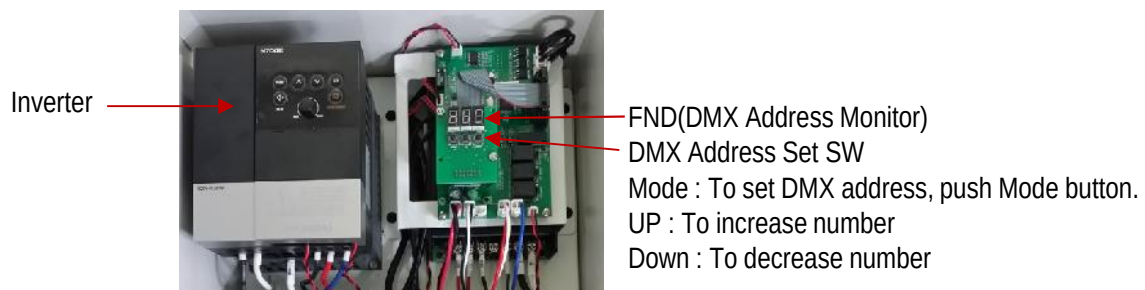
- ❖ This system is intended to provide the interplay of water and flame. As with all potentially dangerous special effects, the operator should be in full view of the systems at all times during operation.
- ❖ The fountain can go upto over 6m but for best flame effect, do not project the fountain over 6m. Maximum height of water and flame interplay is upto 6m.
- ❖ The maximum height of the intermittent flame shooting is 4m. Over 4 m, the flame can be gone.
- ❖ If the flame goes out during flame display, still the gas comes out. In that case, turn off the flame channel(CH2) immediately on your DMX controller to prevent the gas from coming out.
- ❖ Understand completely how to operate and control the system before using.
- ❖ Always keep the working pressure stipulated in this manual. Always abide by the working pressure.
- ❖ The power cord of pump system and ignition burner is PNCT cable. Do not disclose them under direct sunlight.
- ❖ Always check any leakage of gas for the system, hoses and tanks before using.
- ❖ Also, check all the power and signal cables if there is any damage or trouble before using.
- ❖ During transportation and storage, remove all the gases and pressure from the system.
- ❖ Always place the fire extinguisher beside the operator or at the right place.
- ❖ For storage and transportation, please be sure that the gas is removed from the system.
- ❖ The modification or usage for other purposes of the system are prohibited.
- ❖ Abide by the law imposed by your authority about the usage and operation of the system.

How To Operate

1. Cable & Hose Connection Connection



10M DMX Cable, 10M Pump Cable, 10M Ignition Burner Cable & 10m LPG Hose included to the package



2. DMX Address Setting

DMX address Setting :

- Push "MODE" SW over 5 seconds.
- Push UP or DOWN SW
- Push "MODE" SW once again for finish.

Each Flame Fountain has 6 DMX channels.

CH 1 : Pump Starting CH 2 : Flame Shooting(Solenoid Valve open and gas comes out)
CH 3 : Pilot Ignition(Pilot Flame) CH4 : LED Red CH5 : LED Green CH6 : Blue

How to adjust water fountain height :

DMX Key 0~1 of CH 1 does not work and DMX Key 2 ~ 255 is for adjusting water fountain height.

How to Operate

How to operate

1. Connect all the power cables and DMX cables and LPG Hose to the system, controller and control box. Set the working pressure of LPG at 1bar.
2. Turn on the power(Turn on the power switch in the control box)
3. Set the starting address of the system and check the starting address on FND
4. Turn on the Pump(Pump starts to work from DMX Key 2 of DMX CH 1) and raise the fountain height upto 50cm.
5. Then, turn on pilot flame(CH3).
6. Then, turn on main gas valve(CH2). You can see the flame on water. Then, turn off pilot flame(CH3) and raise to the fountain upto 6m. (Maximum height is 6M. Do not raise the fountain over 6M. Over 6M, the flame can be gone). Adjust the fountain height from 1m to 6m as you wish. While the flame is on the fountain, the gas comes out from the burner continuously. Even though the flame is gone unexpectedly, still the gas comes out. In this case, close the main gas valve immediately(Turn off CH2) in order to stop the gas.

(Maximum 6m interplay with flame and water)



7. When you want to shoot the flames intermittently, turn on and off, turn on and turn off pilot flame. Repeat turn on and turn off pilot flame. It makes the intermittent interplay with flame and water. In this case, the maximum height of fountain is 4m. Over 4m, the flame does not catch the fire very well.

(Maximum 4m intermittent interplay of flame and water)



8. When you want to light LED, turn on CH 4 ~ CH6 as you wish. Even though you do not light LED, it dimes slightly at the bottom when the power is on and it is normal.