



## Server-rack fire suppression unit

Fm200(htc-227ea) is a kind of colorless and tasteless and non-corrosive and electricity-insulating gas without residue and pollution after extinguishing. And ODP of it is zero. It is a friendly-environment gas to be used for extinguishing. Also, because of such feature, it can be used in special place where electrical fire is easy to happen.

Application [Server](#).

## Application

- IT and computer system server rack
- Telecommunication system and communication system server rack
- Bank equipment control cabinet
- Various control cabinets in other industries

NO.	Type of Device	Server-rack fire suppression unit
1	Device model	JGQ2/1.6-XJ
2	Size	745mm×425mm×42mm
3	Storage of container	2L
4	Max filling rate	1.15kg/L
5	Storage pressure (20°C)	1.6MPa
6	Max. working pressure	2.5MPa
7	Glass ball starting temperature	68 °C
8	Action temperature of fire detecting tube	160 °C ±10 °C
9	Max. Length of Fire Tube	25m
10	Working temperature	0 °C~50 °C Relative humidity: ≤97%



### • Components

1, Fire extinguishing agent storage device: Container

2, Fire detection device: temperature sensing glass ball, fire detection tube

3, Fire extinguishing agent delivery device: release tube, fire detection tube

4, Extinguishing agent monitoring device:

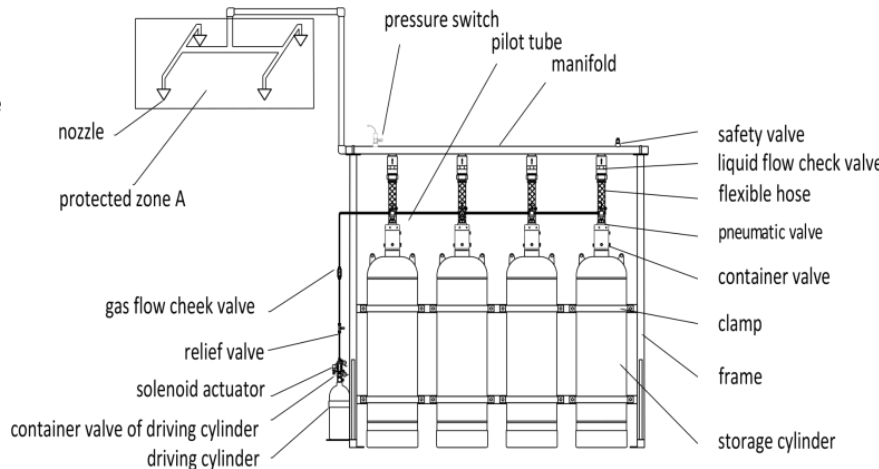
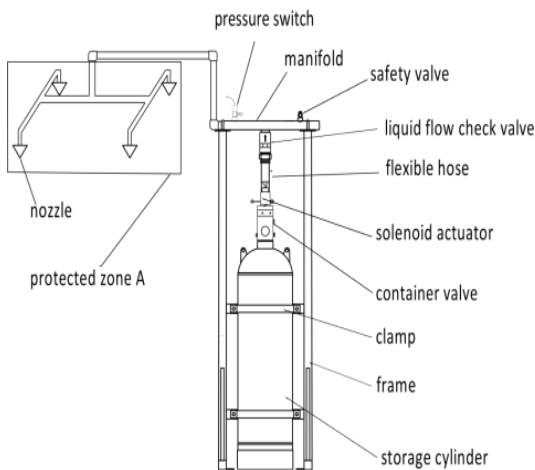
# Pipe Network--FM200 Fire Suppression Device

## Parameter:

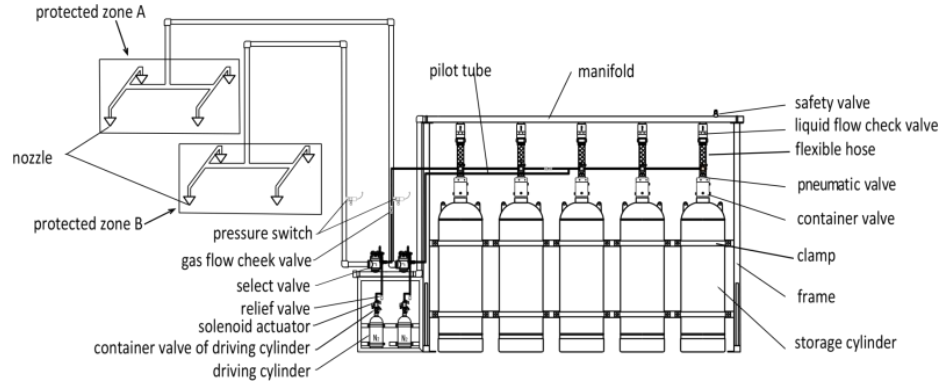
NO.	Specifications	4.2MPa system	5.6MPa system
1	Capacity	40Ltr,70Ltr,100Ltr,120Ltr,150Ltr,180L	70Ltr,90Ltr,120Ltr
2	Device model	QMP40/4.2, QMP70/4.2, QMP100/4.2, QMP120/4.2, QMP150/4.2, QMP180/4.2	QMP70/5.6, QMP90/5.6, QMP120/5.6
3	Storage pressure	4.2MPa	5.6MPa
4	Max. working pressure (50°C)	5.3MPa	8.0MPa
5	Min. working pressure (0°C)	3.6MPa	4.6MPa
6	Filling rate	0.95kg/L	1.08kg/L
7	Discharge time	≤10s	
8	Power	DC24V/1.5A	
9	Nitrogen driving	6.0±1.0MPa	
10	Storage surroundings	Temperature: 0~50°C	
11	Proportion	≤800m <sup>2</sup>	
12	Volume	≤3600m <sup>3</sup>	

Single cylinder group for single zone —Mimic Diagram

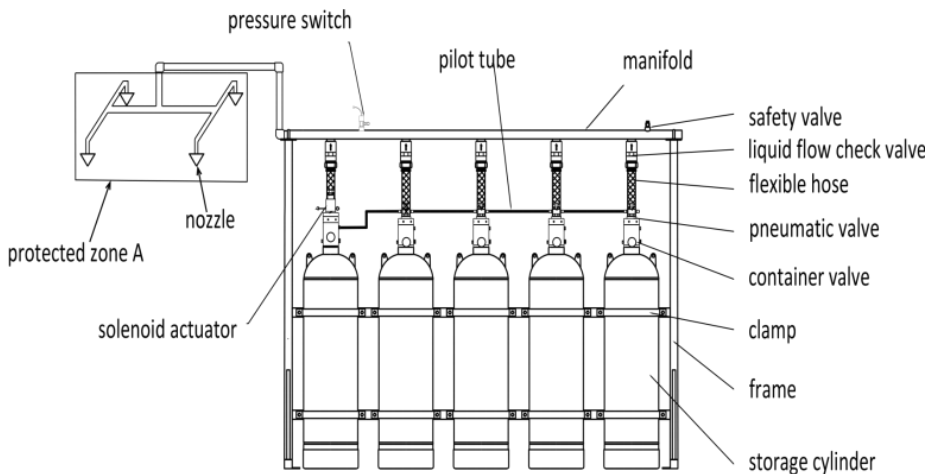
Multiple cylinders for one zone — Mimic diagram



# Single/multiple cylinder(s) for multiple zones — Mimic diagram



# Multiple cylinders for one zone (master and slave cylinder)



# Advantages:

Each fire suppression system has its strong points. Here is going to throw light upon the pipe network type fm200 fire suppression system.

## Strong points:

1. Flexible application in protection zones. As its structure and assembly of other useful components, it can concentrate one very big protection zone or very small with the system of a single cylinder.
2. Efficient spraying of gas.
3. No damage for your property.
4. Relatively, it is cheap and effective to be chosen as fire suppression system.
5. Very efficient for protecting your possession. It has 2 minutes timedelay mechanism, which means there is enough time Left to evacuate people. Then all agent will be discharged less than 10 seconds, it will be flooding totally.
6. It can let multiple zones are protectively in the control of one system. Then it will save much money for big and multiple zones.



# Pipe Network--FM200 Fire Suppression Device

Parameter:

NO.	Specifications	Parameters
1	Cylinder capacity	40Ltr,70Ltr,90Ltr,100Ltr, 120Ltr,150Ltr,180Ltr
2	Device model	GQQ40/2.5, GQQ70/2.5, GQQ90/2.5, GQQ100/2.5, GQQ120/2.5, GQQ150/2.5, GQQ180/2.5
3	Filling pressure	2.5MPa
4	Max filling rate	0.95kg/L
5	Discharge time	≤10s
6	Working temperature	0°C~50°C
7	Max working pressure	4.2MPa
8	Proportion of protected zone	≤500m <sup>2</sup>
9	Volume of protected zone	≤1600m <sup>3</sup>
10	Actuation	Automatic or manual start

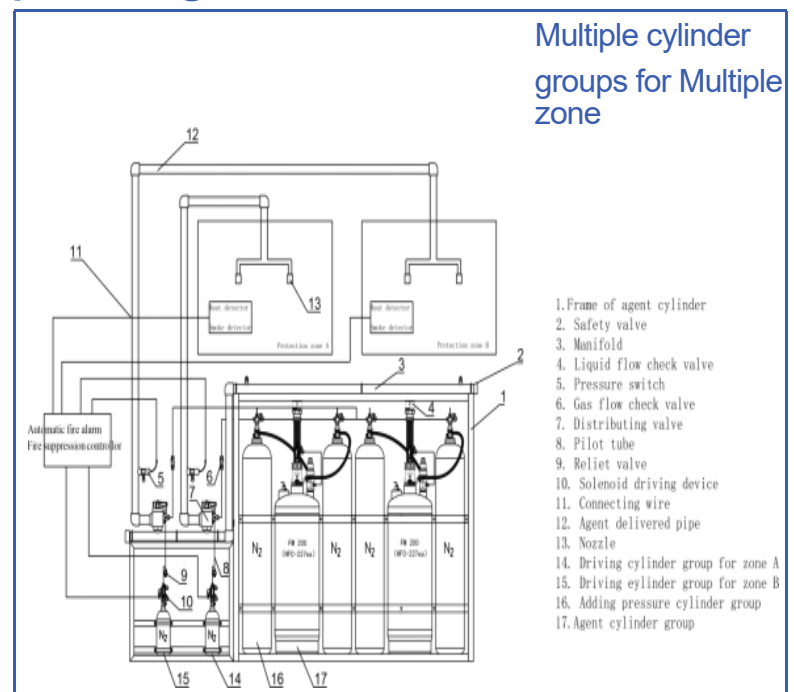
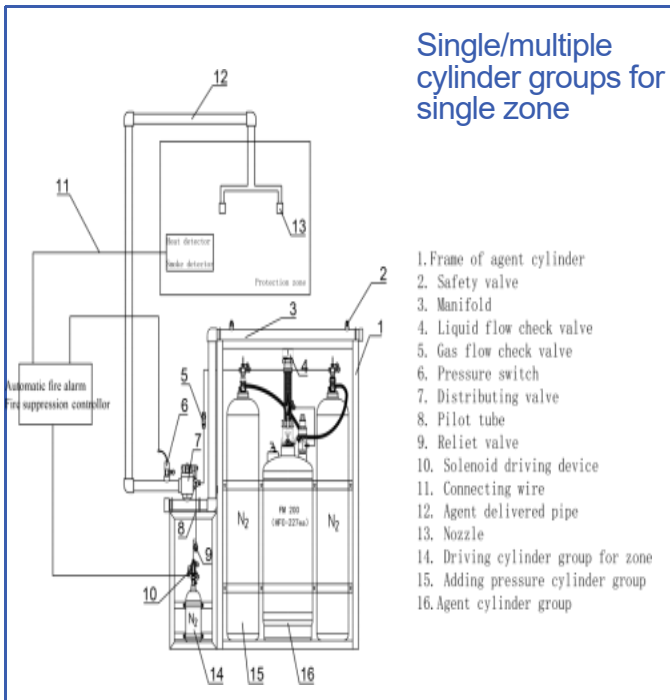
## Cabinet size specification:

Specification	Size(mm)	Volume(cbm)	Net weight(kg)
GQQ40/2.5	500x450x1450	0.216	33
GQQ70/2.5	500x450x1450	0.408	43-50
GQQ90/2.5	500x450x1650	0.408	43-50(46)
GQQ100/2.5	500x450x1650	0.408	55-64(54)
GQQ120/2.5	550x550x1900	0.575	60-70(60)
GQQ150/2.5	550x550x1900	0.575	80
GQQ180/2.5	600x550x2150	0.71	80

## Advantages:

1. Its competent advantages is that it can be used for all kinds of class fires except metal fire. And it is clean agent. There is no residue and pollution after extinguishing.
2. FM200 extinguishing system is special for critical assets or device. It will have no damage for your property. Relatively, it is cheap and effective to be chosen as fire suppression system.
3. Compared to traditional pipe network type fire suppression system, it can push the agent farther in the effective fire-fighting time by relied on external driving force

## Piston Flow Type diagram



No.	Name	Specification
1	Device Model	QM05.6/90W-XJ, QM05.6/120W-XJ QM05.6/150W-XJ, QM05.6/180W-XJ, QM04.2/245W-XJ
2	Cylinder Volume	90Ltr, 120Ltr, 150Ltr, 180Ltr, 245Ltr
3	Filling Capacity of Gas	112.5kg, 150kg, 187.5kg, 225kg, 306.25kg
4	Max Working Pressure	8MPa, 5.3MPa
5	Max protected area	Single zone: 800 m <sup>2</sup>
6	Max protected volume	Single zone: 3600m <sup>3</sup>
7	Spraying Time	≤10s
8	Agent Filling Density	≤1250kg/m <sup>3</sup>
9	Power	DC24V/1A
10	Pressure of Adding Pressure Cylinder	13.5MPa
11	Pressure of Driving Device	6.0MPa(20°C)
12	Condition of Reserving Room for Container	temperature: 0~50°C

## Advantages:

IG541 mixture gas is a kind of colorless and tasteless and nontoxic and non-conducting, pure "green" gas without residue and pollution after extinguishing. IG100 uses 100% pressurized nitrogen, which accounts for 78% of the atmosphere, as the extinguishing agent. IG55 adopts 50% nitrogen and 50% argon to form fire extinguishing agent, which fully integrates the design concept of new era fire extinguishing system, making the product successfully equipped with the function of protecting environment and efficient fire extinguishing.

## Strong points:

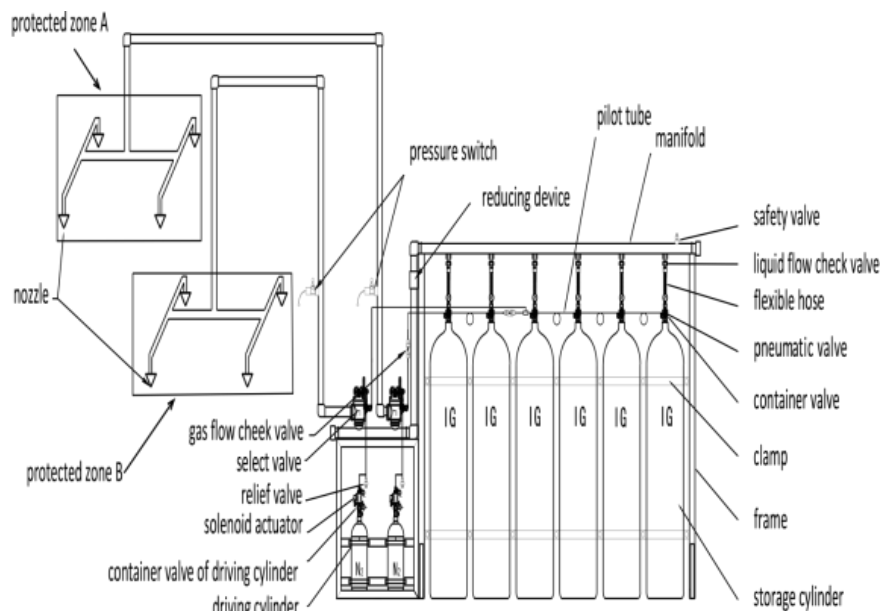
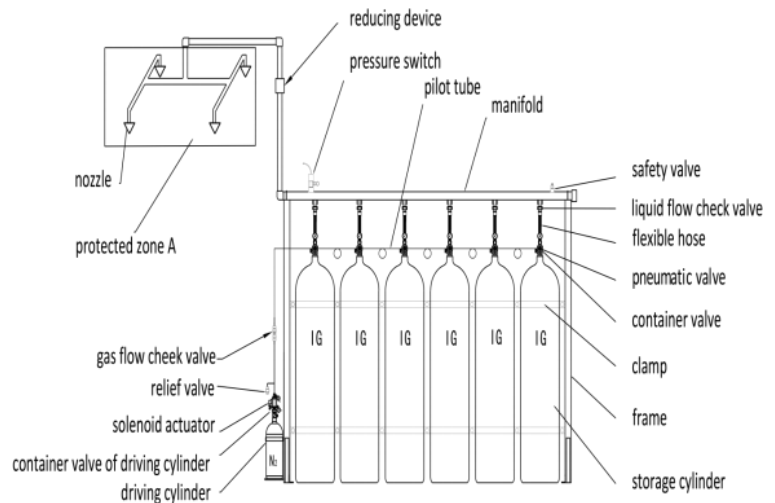
1. The constant release pressure of 6MPa provides more Lasting and effective pressure, and the transmission distance can reach 200 meters.

2. Low pressure release of the whole system can just caused Less impact on site personnel, equipment and building structure, and more safety.

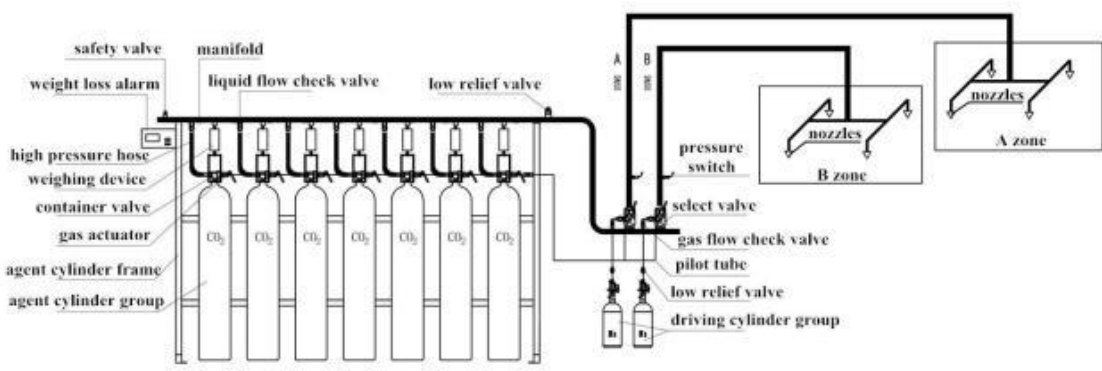
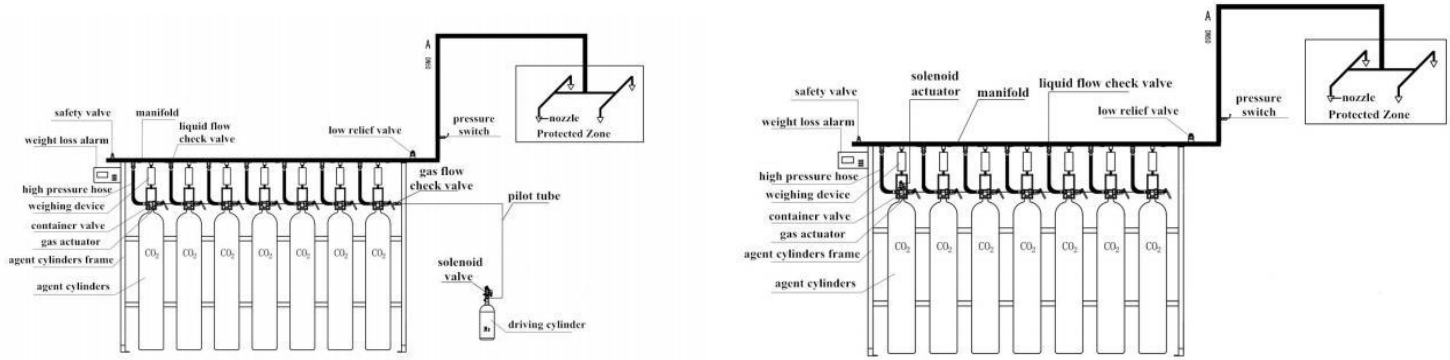
3. The external constant pressure reliever can only bear the pressure when the system is spraying, which is convenient for disassembly and maintenance and effectively reduces the failure rate of the system.

4. After spraying, the system does not need to replace any parts, simple disassembly and secondary filling, the system can be quickly put into operation. 5. The opening area of the gas pressure relief port is reduced, the input cost of the safety pressure relief device is directly reduced, and the safety buckle is

installed and arranged more simply.



# CO2 System —Mimic Diagram



No.	Specification	Technical Parameter
1	Device Model	QME70
2	Capacity	70Ltr
3	Filling Volume of Gas	42kg
4	Working Pressure	5.7MPa
5	Max Working Pressure	12.4MPa
6	Spraying Time	≤60s
7	Max Filling Rate	0.6kg/L
8	Power	DC24V/1.6A
9	Working Pressure of Releasing Device	Container Valve: 19±0.95MPa; Manifold: 15±0.75MPa
10	Nitrogen Pressure of Driving	6.0±1.0Mpa(20°C)
11	Condition of Reserving Room for Container	Temperature: 0~50°C



## Applications:

Library and archives room, electronic computer room, electrical substation, telecommunication room, hangar, garage, marine engine room, cargo, paint-spraying room, boiler room, control center, etc. It is suitable for putting out all kinds of the fires of flammable liquid and solid matter; gas fire in which power can be cut off before extinguishing the fire.

## Advantages:

Pressurized CO2 fire suppression system is a kind of intelligent automatic fire extinguishing equipment, which uses pressurized CO2 as extinguishing agent. Pressurized CO2 extinguishing agent won't cause damage for most things, because of its no residue and nontoxic after extinguishing. This agent still have many advantages: insulating, no water damage and good extinguishing effect.

Depend on different requirements of protection zone, pressurized CO2 fire suppression system can be designed as two kinds of the systems: unit system for single zone; combined distribution system for multiple zones. Adopts enclosed flooding extinguishing to realize the fire protection for single protected zone or multiple protected zones. Our system has three mode of starting: automatic, manual and machine emergency control. The system is advanced technology, high extinguishing efficiency and convenient maintenance.

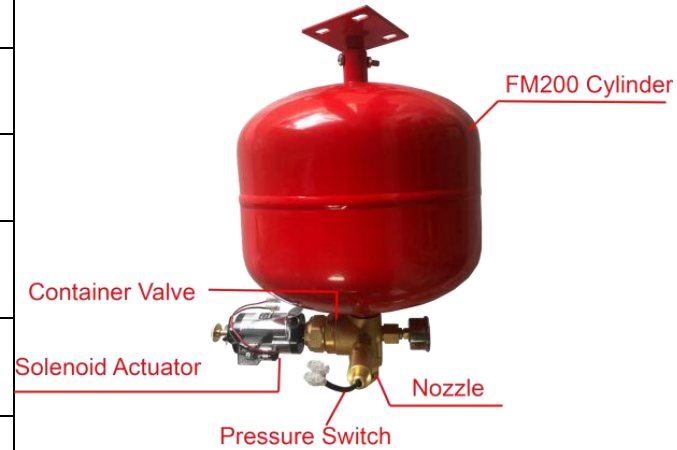
## Strong points:

1. Advantages of the whole industrial chain. Our company can offer design, research, produce and SI of storage cylinders, driving cylinders, container valves and main parts of the system and can offer after sales-service.
2. Great product quality and ability to perform contract. We are a specialized manufacturer for producing cylinders, valves and systems according to the requirements of the project independently and reasonably, which can ensure the time of delivery.
3. Container valves and driving cylinder valves' instruction is advanced. They are easy to fill and action stably and reliable.
4. Intelligent alarm for Leakage and Long-distance monitoring management system.
5. Advanced solenoid starting device is used our proprietary technology, Low current, great suction, high Level of electrical protection. Its function is rich and practical, action is stably and reliable.
6. The pressure switch is modified, it has the functions of self-locking, manually unlock and manually test.
7. CO2 fire suppression device remote release station of marine adopts proprietary technology, which has the features of delay accurately and action is stably and reliable.
8. Professional technical team and design means, full equipped service network and office, these all can make sure our first response before, during and after sale.



## Electromagnetic-controlled type parameters

No	Specifications	Parameters
1	Tank size	16Ltr, 20Ltr, 30Ltr
2	Device model	XQQC16/1.6, XQQC20/1.6, XQQC30/1.6
3	Storage pressure	1.6MPa
4	Maximum working pressure	2.5MPa
5	Discharge time	≤8s
6	Maximum filling rate	1kg/L
7	Device starting power	DC24V/1.6A
8	Environment temperature of protection zone	0°C ~ 50°C



### Applications:

Below data refers to regular temperature at 20 centigrade and atmospheric pressure at 1 bar. The max coverage would vary a little from the ambient temperature and pressure on the real condition.

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