



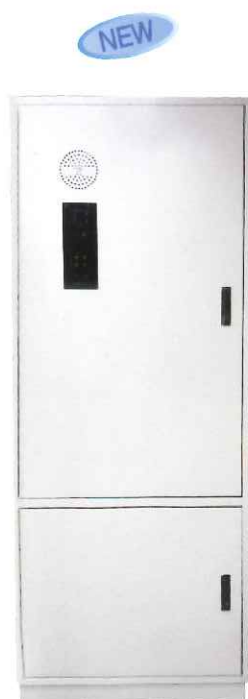
Easy Sprinkler Package

Paratech builds the reliability, we guarantee

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Paratech Easy sprinkler package is recognized system by KFI(Korea Institute of Fire Industry & Technology) that can directly connect to waterworks so that it does not need to obtain an additional source of water supply. The system also designed to perform its capability at the place of low water pressure such as Inn, Pub, Restaurants, Coffee Shop, and etc. The system can be easily installed to the existing building for protecting about 330 square meters.



Characteristics

- 1) Product by obtain certification of KFI
 - All products by obtain certification from KFI so that guarantee of quality and high performance.
- 2) Luxury design
 - "Y" type luxurious design is matched with indoor interior.
 - Simple I-con touch can be easily understood and recognized by customer.
- 3) Easy installation and maintenance service
 - Package type design for easy installation to the small place.
 - Convenient delivery by reducing total weight.
 - Easy handling and maintenance service by simple inner piping design.
- 4) Quick operation and early extinguishing the fire
 - Quick and correct response by monitoring secondary piping system pressure and water flow
 - Quick operation by auto inhaled pump, and upgrade operation reliability by additional hood valve installation to the inhaled plumbing.
- 5) Features for operation assurance under emergency
 - Spare battery for emergency (Automatically switched to battery for pumping in case of main power off—working time is designed for 20 minutes at full charged).
 - 330 liters of inside water tank for early stage fire suppression and replenishment from outside water supply.
 - Installation everywhere including place at low water supply pressure by Inverter pressurization pump inside
 - Monitoring water tank amount from water level gauge and low water level sensor (optional).

Working condition of Product

1. This system was certified from KFI at below specifications.
 - Pressure range of water supply inflow : 15A plumbing, more than Min,1kgf/cm²(Min,15A pipe)
 - Operating temperature range : 1°C~40°C
 - Required plumbing diameter & length : maximum horizontal length 35m(25A pipe)
maximum horizontal length 75m (32A CPVC pipe)
 - Required sprinkler : K50
2. If the place can be happen to freeze and burst, it may need suitable action for protecting product.
3. Acceptable sprinkler head : residential type sprinkler head (amount of water release : 50L/min)

Specification

Model		ESS-24S1	ESS-24S2	ESS-50S2
Content		Directly Connection to Waterworks		
Product Spec.	Water Supply			
	Input Power	220V, 60Hz	220V, 50Hz	220V, 60Hz
	Pump Head	27m	22m	22.5m
	Pump Flow	161 lpm(@18m)	180 lpm(@18m)	285 lpm(@18m)
	Power Consumption	1550W	1440W	1500W
	Product Size (W×D×H)	700×600×1900		Water Tank: 1050×740×1920 Pump Set: 740×230×1870
	Water Tank	330 Liters (actual volume)		1 ton
Max. Pipe Length		75m (32A Hor, CPVC Pipe)		



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Performance property

Wet system

Easy sprinkler package is a wet system that is always maintaining pressurized water in the secondary piping for immediate working at fire. When sprinkler works at fire, system is working continuously by sensing water flow or low water pressure signal from pressure gauge of secondary side.

Installation Example

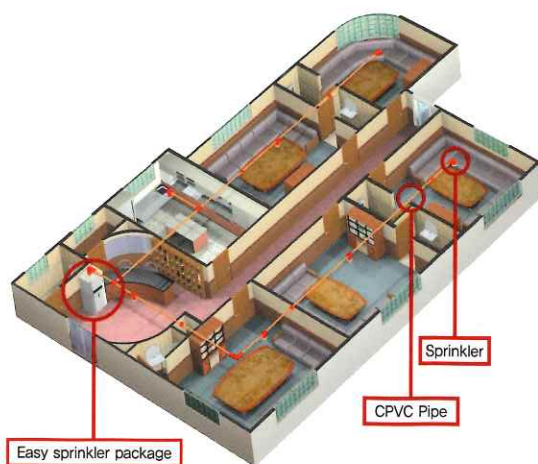


Diagram ESS-24S1 & 24S2

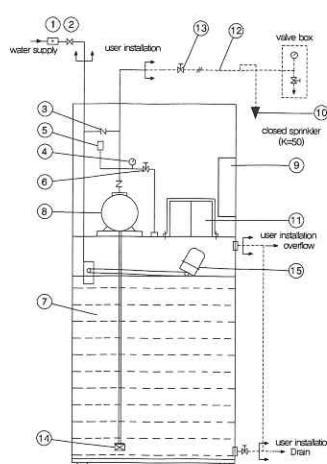
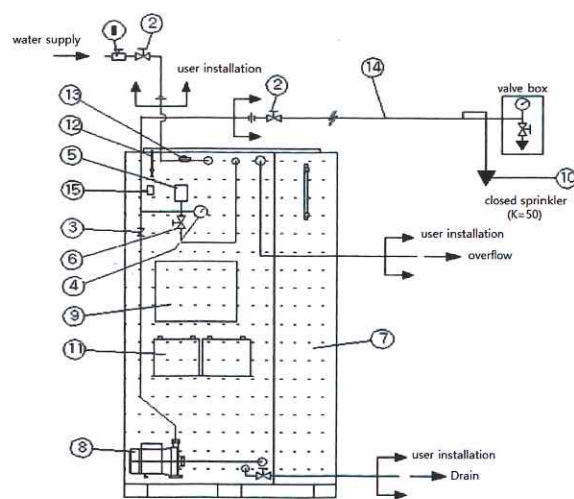


Diagram ESS-50S2



Easy sprinkler package model / SESS-24S1 & ESS-24S2

NO	Part Name	Technical Data	NO	Part Name	Technical Data
1	Water Gauge	—	8	Pump	Power Consumption
2	Valve Indicator	Gate Valve / Temper Switch	9	Electric Module	400×380×100
3	Check Valve	KS B 2301, 10K-25A/32A(SCREW TYPE SWING CHECK)	10	Closed Type	Residential Sprinkler (K=50)
4	Pressure Gauge	Bourdon Tubes Pressure Gauge (KS B 5305) 10kgf/cm ² , PT1/4"	11	Battery	(DC 12V, 80AH)×2EA
5	Pressure Switch	SIPS Type, 0~6kgf/cm ²	12	Pipes Length	Maximum Horizontal Piping Legnth 75m(32A CPVC)
6	Test Valve	BALL Valve (KSB 2308), 10K-15A	13	Ball Valve	KSB 2308, 10K-32A
7	Water Tank	330L (ACTUAL CAPACITY)	14	In, Out Pipes	25A / 32A
			15	FOOT Valve	25A

Easy sprinkler package mode / ESS-50S2

NO	Part Name	Technical Data	NO	Part Name	Technical Data
1	Water Gauge	—	8	Pump	Power Consumption 1,0KW(2HP), Discharge 35m
2	Valve Indicator	Gate Valve / Temper Switch	9	Electric Module	400×380×100
3	Chack Valve	KS B 2301, 10K-25A/32A(SCREW TYPE SWING CHECK)	10	Closed Type	Residential Sprinkler (50)
4	Pressure Guage	Bourdon Tube Pressure Gauge (KS B 5305) 10kgf/cm ² , PT1/4"	11	Battery	(DC 12V, 60AH)×2EA
5	Pressure Switch	SIPS Type, 0~6kgf/cm ²	12	Pipe Length	Maximum Horizontal Piping Legnth 75m(32A CPVC)
6	Test Valve	BALL Valve (KSB 2308), 10K-15A	13	Ball Valve	KSB 2308, 10K-32A
7	Water Tank	1,215L (ACTUAL CAPACITY)	14	Pipe	25A/32A
			15	Flow Switch	—

PARATECH

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Important Notice

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| 1. PLEASE DON'T CLOSE NO.② VALVE.
IF CLOSED, WATER SUPPLY WILL BE STOPPED SO THAT FIRE MAY NOT BE PROPERLY EXTINGUISHED. | 4. IF BATTERY IS DEAD, PRODUCTS MAY NOT WORK PROPERLY DURING POWER FAILURE. PLEASE CHECK REGULARLY FOR BATTERY CHARGING LEVEL. |
| 2. PLEASE CHOOSE RIGHT INSTALLATION PLACE TO MEET PRODUCTS REQUIRED TEMPERATURE RANGE. | 5. PLEASE DO INSTALL OVERFLOW LINE. DAMAGED VALVE MAY CAUSE WATER TROUBLE. |
| 3. PLEASE CHECK FOR WATER SUPPLY PIPES AND INCOMING WATER PRESSURE BEFORE INSTALLATION TO SEE IF IT GOES WITH SPECIFICATION. | 6. RESIDENTIAL TYPE SPRINKLER (K50) FOR CLOSED EASY HEAD WILL MEET SPECIFICATION. |
| | 7. PLEASE INSTALL PRODUCTS TO MEET LOCAL FIRE SAFETY STANDARD. |