

## Package type



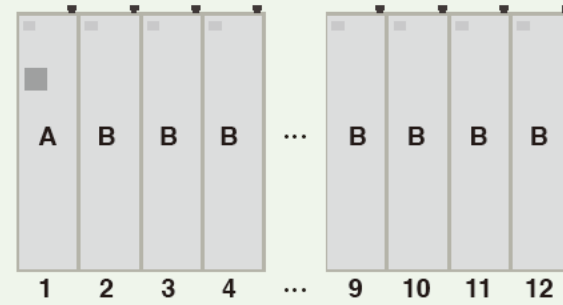
### Type A

This is the fundamental package which contains one N<sub>2</sub> storage cylinder one pilot cylinder with an actuator one discharge nozzle one control panel with a battery unit and accessories  
One unit of this Type A can drive 11 units of Type B package



### Type B

This is an additional package to Type A which contains one N<sub>2</sub> storage cylinder and one discharge nozzle  
A maximum of 11 units of Type B package can be added to one Type A package



Maximum room volume covered by one storage cylinder

Class A fire	49m <sup>3</sup>
Class B and C fire	39m <sup>3</sup>

\*Class C fire is a fire that involves energized electrical equipment

## Specifications

	Type A	Type B
Cylinder capacity	83 L	
N <sub>2</sub> volume	20.3 m <sup>3</sup>	
Storage pressure	30 MPa at 35°C	
Discharge pressure	10.8 MPa at 40°C	
Weight	Approx. 225 kg	Approx. 180 kg
Dimensions	450mm(W) × 2150mm(H) × 370mm(D)	350mm(W) × 2150mm(H) × 370mm(D)
Ambient temperature	0 to 40°C (32 to 104°F)	
Input power	220VAC, 230VAC, 240VAC ± 10% 50/60Hz	—
Power consumption	80VA	—
Time delay for discharge	0 to 45 seconds	—
Contact rating of status output	0.5A at 30VDC	—
Contact rating of external device shutdown output	1.5A at 30VDC 1.5A at 250VAC	—
Contact rating of external alarm device output	1.5A at 30VDC	—
Battery	N-Cd battery	
Enclosure material	Steel sheet 1.6mm	
Finish color	Beige white	



- This system is intended to suppress a fire at an early stage. Please note that it may not suppress the fire if the kind, quantity and/or arrangement of combustibles in the area protected by this system is changed after installing the system.
- This system comprises cylinders filled with highly pressurized gas. Handle the cylinders with care according to the cautions indicated on them.
- The discharge of a gas extinguishing agent results in the emission of a high level of noise. This noise may affect modern precision instruments such as hard disc drives ("HDD"). This effect occurs when discharging any agents described in NPA such as inert gases, H<sub>2</sub>CO, H<sub>2</sub>CO<sub>2</sub>, CO<sub>2</sub>, K<sub>2</sub>CO<sub>3</sub>, and Halon.  
In a communication equipment room, computer room or server room with hard disc drives installed, we recommend that you use the lower sound gas discharge nozzle described in this document, which emits a lower level noise when discharging the gas. Please note that NOHMI does not guarantee the performance of HDD. Other countermeasures may be effective or protecting HDD, such as sound insulation and vibration isolation or HDD housing rack (i.e. use of acoustic absorption materials and vibration-proof materials, etc.), measures to protect HDD before discharging a gas agent (i.e. stop running HDD, evacuation of magnetic heads, etc.), or improvement in sound-proofing of HDD itself and/or data protection (backup of data, etc.). Please note that, even if a customer replaces the existing normal discharge nozzles with lower sound discharge nozzles and adopts all or part of the above-mentioned countermeasures, NOHMI does not guarantee the performance of HDD.
- NPA 75 "Protection of Information Technology Equipment" states that the power supply to all electronic devices should be cut off at the same time when the gas fire suppression system starts discharging the gas agent.
- The excessive pressure in a protected room caused by the discharge of the agent must be released to prevent the room from incurring damage. Therefore, a pressure relief device must be installed in the room.
- Products of combustion may be released by fire. Therefore, an exhaust fan must be installed in a protected room and it must be activated after extinguishing the fire to remove the products of combustion.
- The information contained herein does not purport to cover all the details or variations in the equipment described, nor provide for every possible contingency that may be met in connection with its installation, operation or maintenance.
- Specifications are subject to change without notice. Contact Nohmi before relying on the information.
- Actual performance is based on the proper application of the product by a qualified professional.
- Should further information be required or should particular concerns arise that are not covered sufficiently for the purchaser's purposes, the matter should be referred to Nohmi or your nearest distributor.

- "NN100" is the trademark registered by NOHMI BOSAI LTD.
- The contents of this brochure are valid as of May 2016.

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NOHMI

**NN100**<sup>TM</sup>  
**PACKAGE EX**  
Nitrogen Gas Fire Suppression System

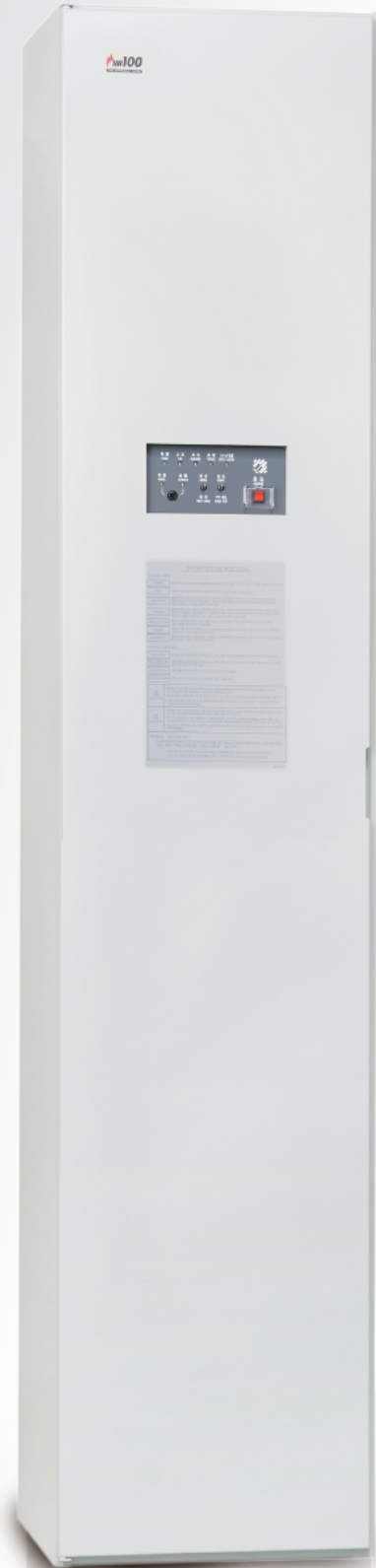
Nature loves a clean agent





# Space and cost saving solutions to protect valuables

Simply place in your room with no major plumbing work required



## «Safe for the environment and people»

- The NN100 Package EX has zero ozone depletion potential and zero global warming potential, since it employs nitrogen gas, occupying 78% of the air, as the fire extinguishing agent.
- The NN100 Package EX employs no carbon dioxide or halocarbons. There is no possibility of producing hydrofluorine, a toxic gas, even in contact with heat or fire.
- As nitrogen is stored in the form of gas, no vaporization occurs, and therefore there is no condensation or thermal impact.

## «Space and cost saving solutions»

- The NN100 Package EX is the compact package unit, which does not require major plumbing work, so it can be simply placed in the protected room.
- The NN100 Package EX requires neither synthetic nor blended gas as a fire extinguishing agent. It requires only nitrogen gas commonly available for industrial use.

## International recognition

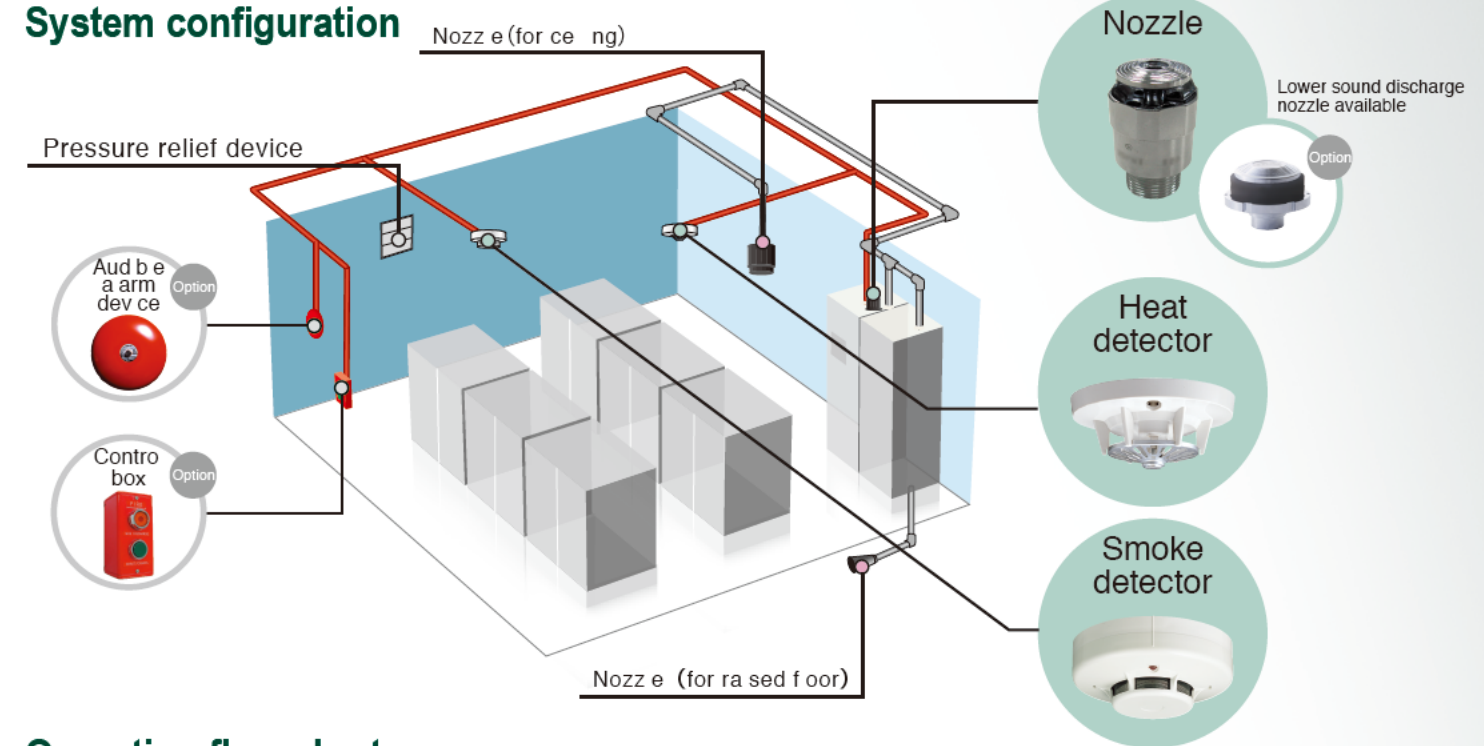
- National Fire Protection Association (NFPA)
- US Environment Protection Agency (US EPA)
- International Standard Organization ISO14520

## Applications

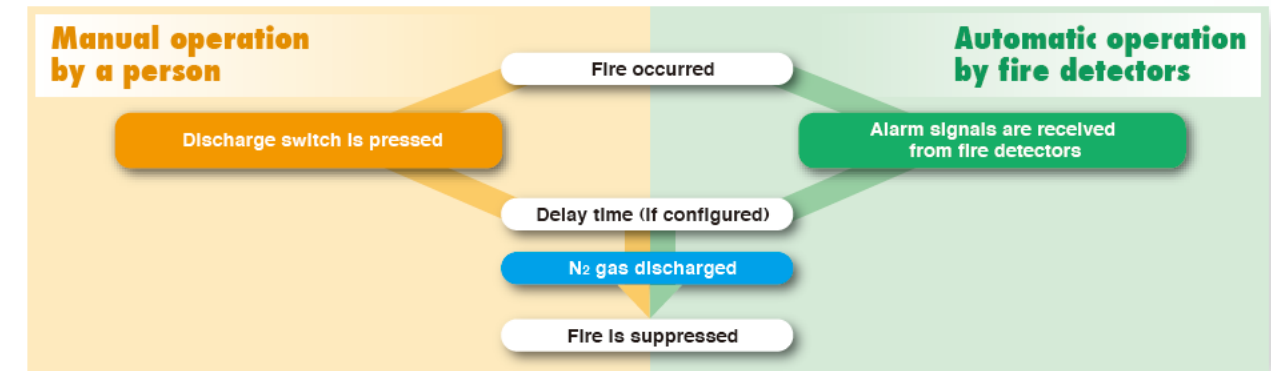
The NN100 package unit is suitable for small-scale computer rooms, tele-communication facilities, generator rooms, and storage rooms for valuables.



## System configuration



## Operation flow chart



## Caution

1. A pressure relief device is required to release excessive pressure caused by the N<sub>2</sub> gas discharge.
2. An exhaust fan is required to exhaust thermal decomposition products after suppressing the fire.

