

## Patented Automatic Smoke Curtain

DC powered, intelligent,  
patented design



## 長岡機電

NAGAOKA  
MACHINERY  
CO., LTD.



### About Nagaoka Machinery

Nagaoka Machinery Co., Ltd. was established in July 2004, its main products include lift traction machine, component parts and industrial application products. The products have been supplied to well known elevator companies domestically and globally. The traction machine adopts a high efficient worm gear/shaft and helical gear design, which not only could lower the operating costs and fulfill the goal of energy saving and carbon reduction.

Nagaoka developed a fireproof rapid roller shutter in 2015 and upgraded the product, therefore the automatic smoke curtain was presented to the general public nowadays. The product break away the typecast impression that fireproof roller shutters could only be manufactured with iron, not only did it reduce more than half of the installation space used to be needed, but accomplish the goal of double protection, which satisfies the objectives of safety, aesthetics and durability.

## Introduction of Automatic Smoke Curtain

The automatic smoke curtain has a door rail clamp and motion door protection system, which is able to display function of blocking the smoke, when crisis occurs. This could also be used during electricity blackout. Furthermore, as this product was intelligently designed, therefore the automatic smoke curtains will be automatically lowered in order to extend time for onsite personnel to escape.

The automatic smoke curtain have fireproof and smoke control dual features. This could save 1/4 of the cost for establishing the fire prevention mechanisms and reduce 1/3 of the construction space. It is a good fireproof product that is able to enhance space aesthesis which is currently be applied to department stores, restaurants, factories, buildings...etc.



## Product Features

The hose box and doorpost could be created by utilizing high quality 304 stainless steel or steel plates that were made for interior decoration. The box could be hidden within the ceiling, not only is it easy to construct, the exterior is simple yet elegant, therefore could be used in non fireproof areas. Old buildings is also able to apply for this kind of technology as well.



### Simple Structure

Utilizing the imported high efficient fire resistant cloth, fireproof strip relevant mechanism for high efficient smoke control



### DC Power

It is being put in use by DC motor, therefore it could be utilized by batteries even if there are electricity blackout.



### Intelligent Design

It is linked with the fire alarm system, therefore the smoke curtains will be lowered when fire occurs.



### Patented Design

Currently it have obtained new patents from Taiwan and Mainland China.

## Installation Notification

1. The maximum height and width of the automatic smoke curtain could reach up to 6x6(m)
2. The voltage of the power supply is single phase AC110V
3. The fire alarm receivers would need to provide dry contacts for signals

