Total Solution Provider of Certified Fixed Fire Fighting Systems

Shanghai Shuguang Hospital

The first land-based project in China using high-pressure water mist technology

With a rich history that dates back to 1906, Shuguang Hospital is one of the first class general hospitals in China. It is divided in two parts: eastern and western branch. The eastern branch is located in Zhangjiang Hi-Tech Park, Pudong New Area. It covers more than 83,000 m^2 and has a capacity of 720 beds.

In 2004, the hospital has been provided with high-pressure water mist technology for fire protection and on 23 April 2005 the branch was officially opened.

Shuguang Hospital is a modern and famous hospital, being one of the top 100 national hospitals. It is the 12 times winner of the Shanghai Civil Unit as well as has been appointed national model T.C.M hospital. The hospital has completed accreditation of ISO9001 and is the pioneer TCM hospital accredited by ISO90001 in China.

Case Story

SEM-SAFE®
WATER MIST SYSTEM

SEM-SAFE®

High-Pressure Water Mist System

Fire test criteria

The system chosen for the Shuguang Hospital had to comply with NFPA750(2000), IMO Res. A.800-2001 as well as China's design code for automatic sprinkler fire systems.

The SEM-SAFE® water mist system was therefore tested according to the fire test procedures described in the above standard. The purpose of the test was to prove that an automatic water mist system achieved better results than comparable tests with sprinkler systems.

After successful testing, the SEM-SAFE® system was approved by CNCF (the related China National Center for Quality Supervision).

To protect the Shuguang building, one pump unit with three high-pressure pumps PAH80 was used. A total of 224 nozzles were installed. The water mist system was first of all chosen over traditional sprinklers due to its high level of flexible and smaller space requirements. Secondly, the system is environmentally friendly and very safe, for example in connection with the evacuation of patients, because no chemical additives are used. Thirdly, with minimal consumption of water and virtually no water damage, it is very safe for the expensive medical equipment and apparatus.

The hospital is very satisfied with this efficient, environmentally friendly and maintenance free system.

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