

SYSTEM IN PRACTICE: Sahlgrenska Hospital



12th March 2015



www.ultrafog.com





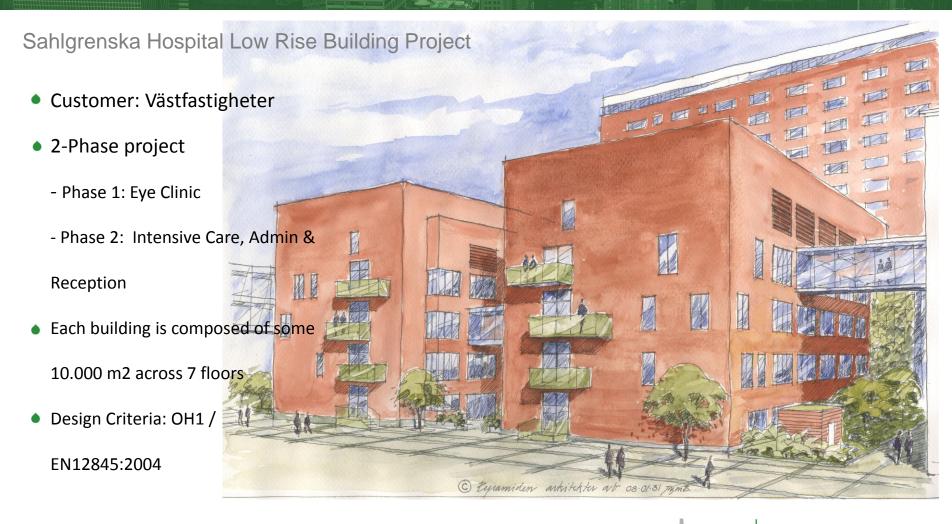
Ultra Fog Fire Extinguishing System | Reliable and efficient | Environmentally friendly and safe

Ultra Fog High Pressure Watermist Fire Suppression

- ULTRAFOG ® is a HIGH PRESSURE watermist system
 - 100-120 bar (at the nozzle)
 - only water is used (normal tap water, passing salt water in marine applications)
 - Tested and Type approved systems for a range of applications
 - Patented nozzle
 - System designed for ease of installation and ease of maintenance.



Ultra Fog Fire Extinguishing System | Reliable and efficient | Environmentally friendly and safe





Ultra Fog Fire Extinguishing System | Reliable and efficient | Environmentally friendly and safe





Ultra Fog Fire Extinguishing System | Reliable and efficient | Environmentally friendly and safe

Reasons for Specifying Watermist:

- Reduced water supply availability
- Building Space was at a premium: No space for large water tanks
- Specialised use of internal space (intensive care, eye clinic) = sensitive high value equipment to be protected.
- Tight building schedule: ease of installation
- Low lifetime maintenance costs



Ultra Fog Fire Extinguishing System | Reliable and efficient | Environmentally friendly and safe

Sahlgrenska Hospital: Ultrafog System Design Facts



- Fully Redundant System
 - 2x 4-pump units
 - PAH 80 pumps capable of delivering 222 lt/min
 - The same sets of pump units are used for each building – the one backing up the other.



Ultra Fog Fire Extinguishing System | Reliable and efficient | Environmentally friendly and safe

Sahlgrenska Hospital: Most Demanding Area

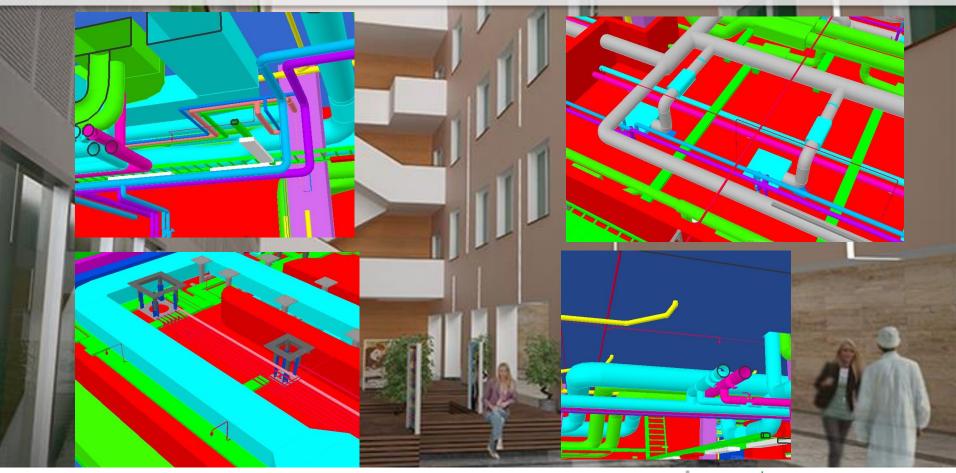
- The area shown in the submitted drawing is placed on level 2 in the building.
- 72 m2
- Max 6 pcs nozzles, 36 l/min each





Ultra Fog Fire Extinguishing System | Reliable and efficient | Environmentally friendly and safe

Sahlgrenska Hospital: 3D design





Ultra Fog Fire Extinguishing System | Reliable and efficient | Environmentally friendly and safe

Sahlgrenska Hospital: Ultrafog System Design

- Nozzles used in this project:
 - 603-260-061 B an automatic 'Hi-Flow' bulb nozzle
 approved for 2,5 mt height, 5.3 mt spacing, no coverage limit
 - 603-300-061 B an automatic 'Hi-Flow' bulb nozzle
 approved for 12 mt height, 4.5 mt spacing, no coverage limit
 - 603-08- B a standard automatic bulb nozzle approved for
 2,5 mt height, coverage 12.25m2, to be centrally located, this
 nozzle is used for small areas (eg. Bathrooms etc).





Ultra Fog Fire Extinguishing System | Reliable and efficient | Environmentally friendly and safe

Sahlgrenska Hospital: Ultrafog Easy Maintenance Nozzles

Easy bulb change







Ultra Fog Fire Extinguishing System | Reliable and efficient | Environmentally friendly and safe

Ultra Fog Test tool







Tool comes with a hose to collect water to a bucket/bottle for measuring of flow and k-factor

ULTRA FOG FIRE EXTINGUISHING SYSTEM

Ultra Fog Fire Extinguishing System | Reliable and efficient | Environmentally friendly and safe

Sahlgrenska Hospital: Installation

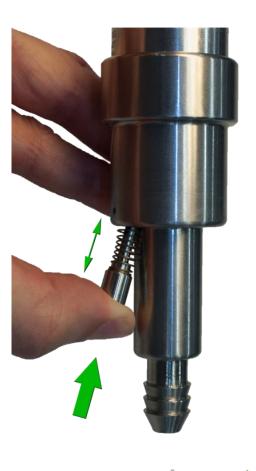
Ultra Fog Test tool

Connect Ultra Fog test tool to sprinkler head.

Then push rod to open the sprinkler head.

After finished test, release rod and remove test tool.





Land



Ultra Fog Fire Extinguishing System | Reliable and efficient | Environmentally friendly and safe

Sahlgrenska Hospital: Ultrafog Easy Maintenance Nozzles

- Ultra Fog Test tool
 - Unique features for a sprinkler head
 - Simple procedure for testing
 - Direct response for measuring k-factor
 - Works on pilot pressure mode
 - Drains out air efficiently
 - Verifies function of water release







Contact Details

Ultra Fog | Sweden

Backa Strandgata 18 S-422 46 Hisings Backa Sweden

Telephone: +46 (0)31 979 870

Ultra Fog | United Kingdom

16 South Cambridge Business Park Babraham Road, Sawston Cambridge CB22 3JH United Kingdom

Telephone: +44 (0)1223 499180

Email: info@ultrafog.com **Website:** www.ultrafog.com

All rights reserved. Ultra Fog AB.
Ultra Fog reserves the right to modify or change the information or specifications in this presentation without notice.

