1. Prison cell nozzle

2. Functional test of an automatic sprinkler nozzle
Mats Norling
Marketing Manager

1. Prison cell nozzle
2. Functional test of an automatic sprinkler nozzle
Welcome to Ultra Fog

We are represented in Scandinavia, Europe, Asia and North America.
Ultra Fog – The company

• Ultra Fog was founded 1990 and has since then been working with high-pressure water mist sprinkling.
• 1:st order for an system in 1991
• 2010 – New owners
• 2011 – Investments of > 1,5 M-EUR in fire testing
• 2012 – New offices in UK and USA

• Our system is approved by; BV, DNV, Rina, MCA, ABS, GL, Lloyds and SMA
• Fire testing according to IMO, FM, ISO at SP, SINTEF, SWRI, TESI
Ultra Fog System
Compact pump units

MICRO

P 35

P-144

ULTRAFOG AB
Prison cell protection

• Ministry of Justice, UK
• Fire test performance (1,5 MW fire load)
• Anti ligature design
• Break point (designed weak link) max 15 kg load
Prison cell protection
Prison cell protection

- Fire test performance (1.5 MW fire load)
- Fire test summary: Fire suppression and tenability within required targets.
Prison cell protection

• Fire test performance (1,5 MW fire load)
• Nozzle k-factor 0,93
• 57°C (RTI=19, F2-bulb)
• System pressure 100 Bar
• Breaking load of bulb cover 9 kg.
• Reference: Scottish prison service >700 nozzles, 2 buildings.
• Pump unit P-35 (frequency controlled)
• Nozzle reference for IMO 12m² cabins, side wall
Testing of sprinkler heads

Questions:

• Can the system be more accurate on activation?
• Can you test a sprinkler head?
• How do you verify the function of an automatic sprinkler nozzle?

• Answers: YES!
Testing of sprinkler heads

With a test tool designed for bleed out air you will receive following benefits:

• Precise commissioning in large or complex pipe systems
• Verify k-factor (audits)
• Control of accurate water flow
• Robust and instant activation of water mist
• Possibility to check water quality
Testing of sprinkler heads

The tool

Push-rod to open nozzle

Connection point for hose to drain/bucket
Testing of sprinkler heads
Testing of sprinkler heads
Thank you for your attention