

WORLD-CLASS PROTECTION

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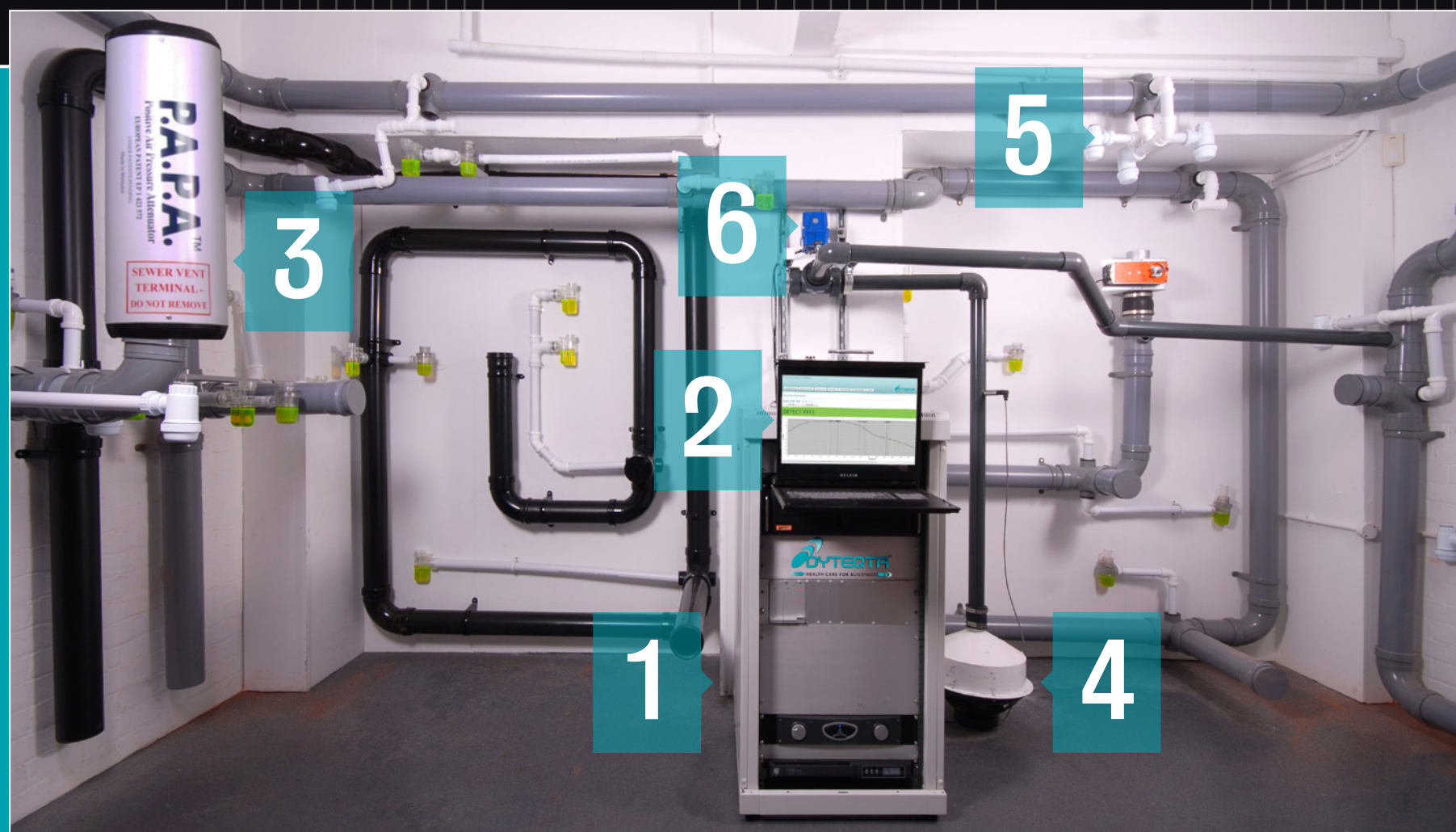


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The Dyteqta-System
detection service is
being considered for
installation especially
in high-rise buildings
worldwide to provide
state-of-the-art
drainage monitoring



- 1 Computer control**
Fully automated computer controlled detection system
- 2 Monitoring**
Remote monitoring through e-mail, SMS and BMS alerts to indicate fault detection
- 3 Advanced plumbing**
Designed to work with all current advanced drainage solutions such as STUDOR AAVs, P.A.P.A.s and other active ventilation products



- 4 Sonar**
Utilising advanced sonar technology, the Dyteqta-System can accurately monitor the state of buildings' drainage networks non-destructively and in a non-invasive manner
- 5 Building plumbing**
Designed to work with any combination of buildings' drainage networks
- 6 Versatile**
May be installed in complex buildings on one or multiple stacks to ensure the best possible coverage of the drainage networks

The Dyteqta-System is the result of years of research by academics at Heriot-Watt and the Dyteqta Team. It uses innovative sonar technology to monitor a building's drainage network and detect any loss in water trap seals. This may be due to evaporation and/or positive and negative pressure surcharges, amongst other reasons.

When these vital seals are lost, sewer gas containing contaminated air and harmful pathogens present in the drainage and sewer system can enter the building and spread infection and/or foul smells.

The Dyteqta-System is the world's first dedicated remote, non-invasive, non-destructive drainage monitoring system, marking a major advance in the battle against transmission of disease through cross contamination and prevention of bad odours in hospitals, hotels, apartments and offices.

Introducing sophisticated sonar technology to building drainage, the Dyteqta-System identifies the loss of water in trap seals in complex drainage networks in high use public and commercial buildings. These vital water barriers prevent contaminated air and harmful pathogens*

passing from the drainage system into the habitable occupied space.

* Including hospital superbugs such as *Clostridium difficile* (*C. diff*) and *meticillin-resistant Staphylococcus aureus* (*MRSA*).



Defective water trap seals were identified by the World Health Organisation (WHO) as a major contributor to the 2003 SARS epidemic in Hong Kong, in which there were 321 infected cases and 42 deaths in Amoy Gardens estate alone. The WHO report into the outbreak confirmed that SARS had spread through the drainage system as a result of depleted floor traps.

DYTEQTA OFFERS THE FOLLOWING SERVICES:

- 1** **Drainage System Fault Finding Monitoring Service**
 The Dyteqta-System is utilised to aid fault finding and forensic analysis of the drainage system to provide protection to the water trap seals.
- 2** **Full-time Drainage Monitoring Service**
 The Dyteqta-System is installed to monitor the water trap seals on a full-time basis.
- 3** **Drainage System Health Check Service**
 The Dyteqta-System provides evidence to the building's operators that their drainage system is operating as designed.
- 4** **Drainage System Consultation and Rectification Service**
 With the Dyteqta-System installed, the Dyteqta Team is able to recommend solutions to resolve issues identified within the drainage system.

“Investing in the Dyteqta-System will help to prevent potentially fatal cross contamination and infection spread in all types of buildings; from hospitals and airports to residential complexes and office blocks. The ability to test a drainage system remotely and by a non-invasive technique, after design and through a building's life, will reassure owners, landlords and facilities managers that vital water trap seals are operating effectively.”

Emeritus Professor John Swaffield
Heriot-Watt University, Edinburgh

