

# Ventilation solutions for overheated common corridors in apartment buildings

The quest for energy efficiency has led to very good sealing and insulation in residential buildings and an increase in district heating schemes.

This has unintended consequences for stair lobbies, corridors and entrance halls, which tend to overheat, resulting in unpleasant conditions for residents and possible issues maintaining cold water supply temperatures.

One solution may be to make use of the equipment specified to provide smoke control of the common areas. In this way it is possible to provide a simple and effective cross flow ventilation system to extract warm, stale air from these spaces and their ceiling voids.

Another solution may be to provide active cooling in the corridors using the smoke shaft system.

## This presentation covers:

- Design considerations relating to ventilation measures in residential corridors
- Using smoke control systems as a dual purpose system to provide environmental ventilation – the options and limitations
- Considerations regarding control systems
- Equipment specification