



 **Kingdom**  
SHOPPING CENTRE

 Lyon Square

**Award  
Winning  
Project**



### Benefits

**9°C reduction on thermostat**

**Heating Comfort Improved**

**15%+ gas reduction in 4 months**

**Payback in 12-24 months**



Kingdom Shopping Centre receiving Green Apple 'Gold Award' for Environmental Best Practice.

*"I would recommend Airius Destratification Fans to other organisations and communities, especially if they have high roofs, ceilings or atriums, where the warm air rises, is trapped and wastes precious fossil fuels."*

John Bell - Kingdom Shopping Centre  
Operations Manager

### Overview

#### Client

The Kingdom Shopping Centre is one of the largest single-level indoor shopping centres in Scotland with around 40,000m<sup>2</sup> of floorspace. The centre contains over 100 retail units, featuring brands including Argos, Boots, Sports Direct, Iceland, JD Sports and New Look, as well as a variety of cafés, the town's central library and theatre/civic centre.

#### Challenge

Retailers made requests to the shopping centre to improve heating levels, as units were uncomfortably cold despite the high heating bills. The centre is heated by 20 gas fired air handling units, set to run daily from 8am to 5pm. So, Kingdom set out to find a solution that would not only improve heating comfort, but also conserve energy.

#### Solution

Airius worked with Kingdom Shopping Centre to design and install a series of 26 Airius Destratification fans throughout the Centre, including its 2 squares, central walkway, theatre and library. Installation was completed out of hours to avoid any disruption to normal opening hours. The results exceeded expectations and improved the comfort of shoppers and workers in the Centre, whilst reducing the amount of energy used by 15%. This reduction in gas usage over a four month period enabled significant reductions in the cost and carbon emissions. The project was such a success that it was awarded 'The Green Apple - Gold Award' for environmental best practice.