



McCULLOUGH'S
AIR CONDITIONING / VENTILATION

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1-2 Market Place
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Guest Room Air Flow Calculations

Each guest room has a ducted fan coil unit installed with the smallest unit providing 125l/s. Each guest room also has an extract and supply installed which is being provided by a heat recovery unit. Each room is being provided with 20l/s supply and extract by the heat recovery unit.

This totals an air flow of 145l/s for the guest rooms with the smaller fan coil unit installed and 228l/s for the guest rooms with the larger fan coil unit installed.

Based on CIBSE Guide B the guestrooms require 10-15ACH. Based on this we have selected the heat recovery unit to achieve 13ACH working with the fan coil units. Based on this the smallest guest room requires 84l/s and the largest guest room requires 214l/s.