

# Full Heat Recovery System

## Background

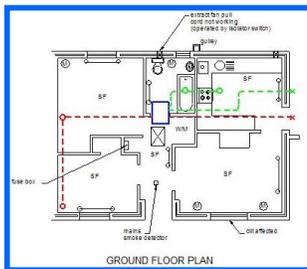
The property is a local authority semi detached bungalow built in the latter part of the 20<sup>th</sup> century, constructed with cavity walls of brickwork incorporating a physical damp proof course under a pitched tiled covered roof.

The tenant complained of 'dampness' and mould growth. An inspection was carried out by an APP surveyor and the problem diagnosed as condensation, the insulation levels and heating within the property were reviewed and felt to be adequate. The main area of concern was therefore ventilation; extractor fans were present in the bathroom and kitchen although these were not working effectively



## The Proposed Installation

Rather than simply replacing the defective extractor fans. The layout of the property was conducive to the installation of a full heat recovery system, whereby stale moist air is extracted from 'wet' rooms i.e. kitchens and bathrooms through a system of grilles and ducting, passed across a high efficiency heat exchanger (located in the roof void) to remove heat and the residue is exhausted to the atmosphere. Fresh filtered supply air is drawn across the heat exchanger, warmed by the retained heat in the exchanger and distributed through ceiling mounted grilles to 'dry' rooms using 125mm insulated ducting.



## Carrying out the work

Artex/textured ceilings were noted in the property and therefore prior to any works being undertaken it was necessary for an asbestos survey to be undertaken. Asbestos was not found to be present in the ceilings.

Due to the property being a bungalow the installation process was largely carried out from within the roof void and therefore minimal disruption to the inhabitants was caused; only the ceiling ducts and switches being installed from within the 'living space' of the property.



## Benefits

The system provides the dwelling with fresh filtered air all year round, creating an improved living environment by averting mould growth and controlling condensation, with significant energy savings and very low running costs,

The completed installation leaves only ceiling vents visible from within the living space as well as operating switches for the occupants to easily manage the system. The unit is acoustically lined for minimal noise, and comes with the benefit of a 5 year warranty issued by the manufacturer.



a simple matter of  application

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