



CARBON EFFICIENT

Environmental Technology UK Ltd

Concise Report leading to the replacement of the original 'Split' Ducted Air Conditioning System serving the Reception

FOR



VillageVet

BRANCH:

Highgate Branch



Head Office: Environmental Technology UK Ltd, The Garage, Chequers Hill, Wilden, Bedford MK44 2QQ

Tel: 01234 772 278 Fax: 01234 252 025

Reg No: 05363886 Vat No. 808 0685 24



Environmental Technology UK Ltd

Mr M Brett
Village Vet Group
Central Office
11, Belsize Terrace
London
NW3 4AX

March 09, 2017

Re: - Concise report pertaining to the replacement of the Reception 'Split' Ducted Air Conditioning System

Report Ref: Village Vet / Highgate / E7032 / JR

Dear Mr Brett,

I believe a brief history of the events leading up to the replacement of the original 'Split' Ducted Air Conditioning System serving the Reception.

It is important for all to understand that the original 'Split' Ducted Air Conditioning System consisted of one (1) outdoor Condenser (Daikin RYP100B7V1) interconnected to one (1) indoor Ducted Fan Coil Unit and was installed approximately 13years ago. The original outdoor Condenser has two (2) discharging fans. I have provided a pdf attachment of the Daikin RYP100B7V1 outdoor Condenser to this E-mail providing all the technical, including the dBA levels.

Environmental Technology UK Limited was first approached on December 22, 2015 to provide a solution to a problem of vibrations emanating from the original indoor Ducted Fan Coil through the floor boards of the upstairs residential property. The original indoor Ducted Fan Coil was directly connected to the ceiling (Vet Practice) / Floor (Residential property) joists and we suggested that anti-vibration mounts would provide the solution. I have attached our Installation Report, dated March 15, 2016 on completion of the works required.

The original outdoor Condenser had a Plywood 'Acoustic' Barrier installed around it at some point and we would believe that this was done in an attempt to reduce the noise emanating from the original Condenser. The Plywood 'Acoustic' Barrier was installed too close to the outdoor Condenser therefore causing all types of problems for the dissipating air discharge and causing the gradual and eventually the final breakdown (Simplified sequence of events) of internal parts within the Condenser. It is recommended by Daikin, the manufacturer, that any Barrier and in this instance a Plywood 'Acoustic' Barrier should have been installed a minimum of 1,000mm away from the discharge fans of the



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Condenser. We have attached two (2) pictures of the original Plywood 'Acoustic' Barrier as well as the Daikin RYP100B7V1 outdoor Condenser to illustrate the closeness of the barrier to the Condenser.



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We replaced the original Daikin RYP100B7V1 outdoor Condenser and corresponding indoor Fan Coil unit with a new Daikin RZQSG100L9V1B outdoor Condenser and corresponding new indoor Fan Coil



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unit. The new indoor Fan Coil unit was again installed onto the Anti-vibration mounts. I have attached the technical brochure of the new RZQSG100L9V1B. You will immediately notice that the new Daikin RZQSG100L9V1B has only one (1) discharge Fan in comparison to the two (2) discharge fans of the original outdoor Condenser, therefore, making the new Condenser quieter.

We are not in agreement with the Camden, Regeneration and Planning Development Management letter dated 3rd of March, 2017 statement of "Having visited the site, and seen historic photos of the roof. I note that two old units have been removed along with an acoustic screen. The older units may have benefitted from being immune from planning enforcement action due to their age, however, the replacement of these with a new single unit is considered to be a material change to the previously existing situation, and therefore planning permission is now required for this new unit." and specifically the words "the replacement of these with a new single unit". We have replaced one (1) original / existing larger outdoor Condenser with one (1) new smaller outdoor Condenser.

The new Daikin Ducted Air Conditioning System is supplied compete with a time clock controller which has been programmed in accordance with Village Vet instructions and the times are as follows;

Monday through to Friday	On 8:00 – Off 18:00 – Second (Extra) Off – 20:00
Saturday	On 9:00 – Off 13:00 – Second (Extra) Off – 15:00
Sunday	Off All Day

As you are no doubt aware the use of R22 Refrigerants are now globally banned. Whenever any existing Air Conditioning system, containing the R22 refrigerants, requires **repair or relocating**, the latest refrigerants Air Conditioning system **must** be installed. In other words any Air Conditioning system that contains R22 refrigerants **must be** replaced in the event of a repair or relocation. The R22 refrigerants must be disposed of through licensed operators. It is the law. I have attached two (2) pdf Sheets to substantiate the statement we have made.

Trusting that this Report and attachments provide a better picture of the events leading up to and including the direct replacement of the original Daikin Ducted Air Conditioning System and we await further instructions.

Yours Faithfully

Johnathan Ruiter

Johnathan Ruiter
Business Development Director



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