

Air Quality Scheme Checklist for 7 Darnley Road

		Section	Comment by Kench	20220628 05/10/2022	Kench Consultants
	Checklist		The information to be provided in this column in full or continue on additional sheet. List drawing numbers etc	Comments by Regulatory Services with regards to whether info, plans, drawings, settings etc. are suitable and satisfactory	
1	Written confirmation that air system to be installed	Section 4 – Proposed Installer – p10	Titon MVHR system	Confirmation provided	
2	Confirmation that system to be installed prior to occupation/operation	Section 4 – Proposed Installer – p10	The installation of this system will take place prior to occupancy of the new property.	Confirmation provided	
3	Full details of supplier including contact details	Section 4 – Proposed Manufacturer – p10	The proposed manufacturer will be Titon. Specifically, the Titon HRV1.25 Q Plus Range model will be utilised at the development.	The details of the supplier have not been provided.	Titon Nicola Rivers Nicola.Rivers@Titon.co.uk
4	Full details of installer including competency and experience of install such systems	Section 4 – Proposed Installer – p10	The installation of the proposed Titon MVHR system will be done by a certified professional and/or company.	The details of the installer have not been provided.	
5	Details of unit including make, model number etc.	Section 4 – Proposed MVHR Unit and Schematic – p9	The unit will be the HRV1.25 Q Plus Range. Product code: TP406A There will be one unit to serve the single dwelling.	Details provided	
6	Confirmation that unit is a heat exchange system	Section 4 – Proposed Manufacturer – p10	The Titon HRV1.25 Q Plus Range model will also be installed with a heat exchange system.	Confirmation provided	
7	Written description and details of locations of units and ductwork	Section 4 – Proposed MVHR Unit and Schematic – p9 Section 4 - Kitchen Flue and MVHR Inlet Location – p12	Please refer to Figure 4 and Figure 7. The property will be designed with ducting and will therefore be suitable for an MVHR system. This ducting will be rigid plastic, with dimensions of 204 x 60mm or 125mm diameter (minimum) complete with thermal ducting on the atmosphere side of the ductwork.	Figure 4 – Proposed MVHR system is included as a small drawing within the Air Mitigation Report and ideally should additionally be provided as a separate drawing in A3 size so that the detail can be easily read. The figures on page 12 are very small with the text in Figure 6 being upside down which means it is not easily read even when zoomed in. Clarification of the location of the MVHR unit within the apartment needs to be provided. This unit has the display panel as to the flow etc and also the filters to be cleaned etc. It therefore needs to be accessed by the occupant. Figure 7 (page 13) and page 14 are not visible in the PDF version of the Air	

				Mitigation Report when viewed with adobe.	
8	Written details of locations of inlets and outlets (If the site is in or partly within an AQMA the inlets must be outside of the AQMA. For all systems the inlets should ideally be on the roof or at a suitable height / location identified by an Air Quality Impact Assessment and or air quality monitoring. All inlets must be at furthest point away from traffic, away from flues and food premises extraction systems etc.)	Section 4 - Kitchen Flue and MVHR Inlet Location – p12	The inlet/intake position demonstrated on Figure 4 is deemed to be in a suitable position away from the extract restaurant flue, and to the farthest distance from traffic that is possible.	Clarification of the location of the inlet to the air system need to be provided. E.g. is this a vent on the roof or through the chimney? How far apart are they from each other and from the extraction outlet?	The inlet/intake position demonstrated on the separately issue A3 Drawing which will clearly identify the Inlet/intake position, deemed to be in a suitable position away from the extract restaurant flue, and to the farthest distance from traffic
9	Layout and elevation plans submitted including ducting, inlets and vents etc. Plan numbers.	Section 4 - Kitchen Flue and MVHR Inlet Location – p12		This drawing is very small. The detail cannot be read when zooming in. These drawings need to be provided in a format that can be used to ascertain the useful information from.	Separately issue A3 Drawing has now been issued.
10	Details of the acoustic attenuation of the air system to prevent noise breakout causing nuisance to occupiers in the apartment and neighbours.	Section 4 – Noise Attenuation – p10	To prevent noise breakout causing nuisance to occupiers in the apartment – and neighbours, attenuators will be installed to the Titon system. These will specifically be the Titon Semi Flexible Attenuators 89720 125mm diameter x 500mm	Details/Confirmation provided	
11	Confirmation no trickle or other passive vents.	Section 4 – Ductwork – P10	The system will not possess any trickle vents or passive vents	Confirmation provided	
12	Confirmation windows and balcony doors permanently sealed closed	Section 3 – P8	The site visit conducted on the 1 st February 2022 confirmed that the windows are sealed at the from elevation.	Confirmation provided	
13	Confirmation that system will be running 24 hours and cannot be turned off	Section 4 – Control of Electricity Supply – p11	The system will also be running for 24 hours each day and will not turn off.	Confirmation provided	
14	Details of settings for flow rate for inlet air (note this must be higher than outlet rate to create positive pressure)	Section 4 – Flow Rate (Inlet Air) – p10	Controlled ventilation and flow rate can be achieved with the Titon model and MVHR in general. This will be balanced, or create positive pressure, via two separate fan speed settings that can be manually or via on Aura-T controller that can programme percentage speed settings.	Details of the flow rates for the apartment need to be provided. These must demonstrate that the inlet flow rate is sufficiently more than that of the exhaust flow rate to ensure a positive pressure.	Attached are ventilation flow rate calculation
15	Details of settings for flow rate for extract air	Section 4 – Flow Rate (Extract Air) & Boost Settings – p10	Part F Buildings regulations provides minimum low and high rates for MVHR systems.	The provision of a positive pressure system ie with the inlet air sufficiently more than the outlet air is not to our knowledge included in Part F Building Regulations.	Attached are ventilation flow rate calculation

				Details of the flow rates for the apartment need to be provided. These must demonstrate that the inlet flow rate is sufficiently more than that of the exhaust flow rate to ensure a positive pressure.	
16	Details of boost settings for when cooking smells or steam present	Section 4 – Flow Rate (Extract Air) & Boost Settings – p10	A Boost switch can be fitted to each individual Kitchen and Wet Room that will switch between low continuous rate and boost high rate.	Confirmation needs to be provided that this is to be included in the scheme rather than it “can be fitted”	Boost Switch will be fitted and will be supply by Titon Nicola Rivers Nicola.Rivers@Titon.co.uk
17	Air temp setting degrees C		The Titon MVHR unit will also have a programmed RH (Relative Humidity) percentage rate set between 65 and 90% RH which can trigger the ventilation setting to Boost automatically.	Details provided	
18	Control of electricity supply to unit (advised that fused spur to be in landlord's area for access by engineer)	Section 4 – Control of Electricity Supply – p11	The Titon MVHR unit will be installed with a fused spur which is a switch that's used to isolate electrical equipment from the mains supply. As such, the control of electricity supply will be available. This fused spur will be installed at a high level next to the MVHR and as such would not be easily accessible to any new resident/occupier but would be accessible for a service engineer.	Confirmation provided.	
19	Confirmation that occupant cannot turn off system (note tenant must not be able to disable the system easily)	Section 4 – Control of Electricity Supply – p11	This fused spur will be installed at a high level next to the MVHR and as such would not be easily accessible to any new resident/occupier but would be accessible for a service engineer.	Confirmation provided	
20	Details of maintenance regime including filter cleans and servicing, who by and what periods.	Section 4 – Maintenance Regime – p11	A filter cleaning indication will be programmed for inspection via an Aura-T controller. The Aura-T is a simple touchscreen controller for programming, commission and occupancy control for Titon's range of MVHR units. This will therefore be able to be used by the new occupier to clean their own filtration unit.	There will be a set of manufacturer's guidelines on filter cleaning and servicing of the unit. This must be adhered to. There must be checks in place to ensure that the filters are cleaned at the correct interval otherwise it will affect the indoor air quality.	
21	System compliant with Building Regulations?	Section 4 – Proposed Manufacturer – p10	The Titon HRV1.25 Q Plus Range model will also be installed with a heat exchange system Additionally, the Titon HRV1.25 Q	Confirmation provided.	

			Plus Range model is compliant with building regulations		
22	Has the risk of solar gain affecting internal room temperatures been addressed?	Section 3 – p8	Criterion 3 of Part L 2013 of the Building Regulations relates to limiting the effects of heat gains in summer - this is implemented for new dwellings as set out in Appendix P of SAP 2012. All dwellings pass this Criterion.	Confirmation provided.	
23	Details of information to be supplied to the occupier about the system and the reasons why it has been installed etc. i.e. copies of operating manuals and details of schedule of maintenance and who is responsible.		A leaflet will be provided to the future occupant by the developer, that at a minimum will include for: • The reasoning for the installation of the MVHR • Operating manuals • Details of schedule of maintenance and who is responsible • Aura-T Controller details • Relative online details for all of the above.		
24	Independent ventilation engineer to carry out commissioning inspection of systems to confirm that inlet and outlet settings are correct and to confirm that system fulfils its purpose i.e. to create positive pressure within apartment to ensure no polluted air comes in from outside etc. Report to be produced and submitted to LPA.	Section 4 – Commissioning – p11	An independent ventilation engineer is to carry out the commissioning inspection of the MVHR system to be installed, and to confirm that the inlet and outlet settings are correct. The engineer will also confirm that the system fulfils its purpose of creating positive pressure with heat recovery.	Confirmation provided that an independent ventilation engineer will be used to carry out the commissioning. However the calculation as to the flow rates to ensure that it is suitable and sufficient for the specific apartment and will ensure a suitable positive pressure have not been done. These need to be calculated by a competent ventilation engineer and submitted as part of the scheme. The commissioning engineer will then ensure that these flow rates are used in the commissioning process.	Attached are ventilation flow rate calculation
25	Visit to site by LPA to see system installed and working.	Section 4 – Commissioning – p11	The LPA will also undertake a site visit to ensure that the system is installed and working.	This will be carried out once the approved scheme has been installed.	
26	Details of how odour from adjacent food premises will be prevented from being drawn into the air system.	Section 4 – Proposed mitigation measures P9	The MVHR intake will be positioned away from the ground floor restaurant flue, with wind direction considered.	Confirmation provided.	

			The windows will be sealed to provide further protection from pollutants and odours.		
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