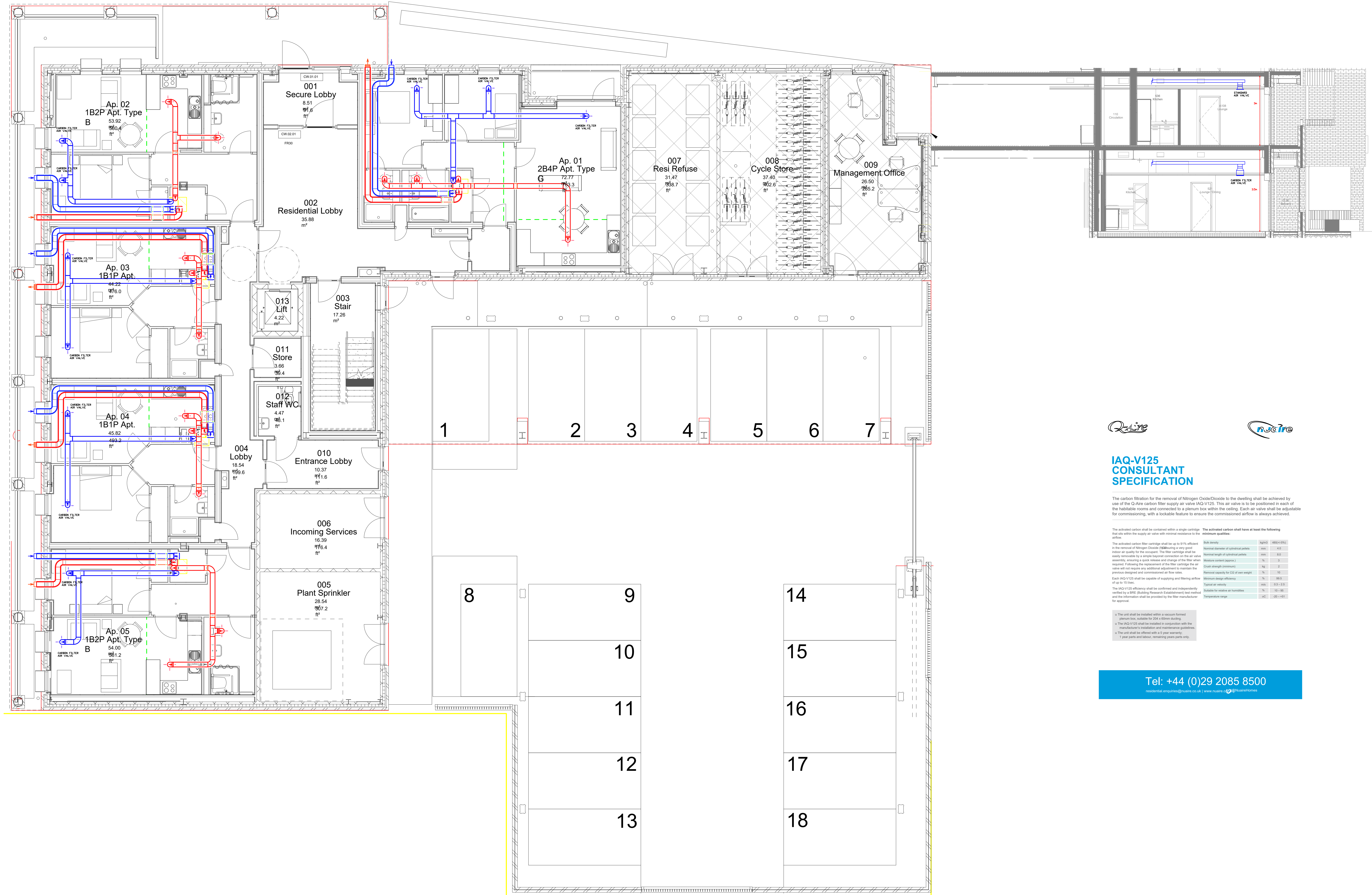




IAQ-V125 CONSULTANT SPECIFICATION

The carbon filtration for the removal of Nitrogen Oxide/Dioxide to the dwelling shall be achieved by use of the Q-Aire carbon filter supply air valve IAQ-V125. This air valve is to be positioned in each of the habitable rooms and connected to a plenum box within the ceiling. Each air valve shall be adjustable for commissioning, with a lockable feature to ensure the commissioned airflow is always achieved.

The activated carbon shall be contained within a single cartridge and shall be able to be replaced in situ with minimal disruption to the dwelling.		The activated carbon shall have at least the following minimum qualities:	
The activated carbon filter cartridge shall be up to 91% efficient in the removal of Nitrogen Dioxide (N ₂ O ₂) in a very good indoor air quality for the occupant. The filter cartridge shall be easily removable for a simple replacement connection on the air valve assembly, ensuring a quick release and change of the filter when required. Following the replacement of the filter cartridge the air valve will not require any additional adjustment to maintain the previous designed and commissioned air flow rates.		Bulk density	kg/m ³ 500(±10%)
		Minimum diameter of cylindrical pellets	mm 4.0
		Maximum length of cylindrical pellets	mm 5.0
		Moisture content (approx.)	% 3
		Crush strength (minimum)	kg 2
		Removal capacity for 100% of mass weight	% 18
		Minimum design efficiency	% 95.5
		Typical air velocity	m/s 0.3 - 2.0
		Isolation to ensure no backflow	% 100/100
		Temperature range	°C -20 - +35

- 1 The unit shall be installed within a vacuum formed plastic box, suitable for 25A 60mm ducting.
- 2 The IAQ-V125 shall be installed in conjunction with the manufacturer's installation and commissioning guidelines.
- 3 The unit shall be offered with a 5 year warranty.
- 4 1 year parts and labour, remaining years parts only.

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SCALE: 1:100@A0
DATE: AUG 2021
DRAWING No. SKETCH-VENT CFS

DRAWN: RWW
CHECKED: HL
REV:

CLIENT
ROWLINSON CONSTRUCTION LTD

PROJECT
BOWE ST BLOCK 9

TITLE
GROUND FLOOR MECHANICAL VENT SERVICES

ISSUE
CONSTRUCTION

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