AIR FILTRATION UNITS SCHEDULE

SCHEDULE	M032 - AIR FILTRATION UNITS	AUTHOR	MR	CHECKED BY	LN

REFERENCE	SERVING APT. TYPE	No. OFF	MAXIMUM FLOW RATE [l/s]	PRE-FILTER TYPE	MAIN FILTER TYPE	NO_2 REDUCTION	OVERALL DIMENSIONS W x L x H [mm]	WEIGHT [kg]	MODEL
AFU-GR-F01-01	1	1	39	Particulate filter PM2.5	Inline carbon filter	99.5%	346 x 858 x 170	15.5	NOX-FILT2.5
AFU-GR-F02-01	2	1	39	Particulate filter PM2.5	Inline carbon filter	99.5%	346 x 858 x 170	15.5	NOX-FILT2.5
AFU-GR-F03-01	3	1	39	Particulate filter PM2.5	Inline carbon filter	99.5%	346 x 858 x 170	15.5	NOX-FILT2.5
AFU-GR-F04-01	4	1	39	Particulate filter PM2.5	Inline carbon filter	99.5%	346 x 858 x 170	15.5	NOX-FILT2.5
AFU-GR-F05-01	5	3	47	Particulate filter PM2.5	Inline carbon filter	99.5%	346 x 858 x 170	15.5	NOX-FILT2.5
AFU-GR-F06-01	6	3	39	Particulate filter PM2.5	Inline carbon filter	99.5%	346 x 858 x 170	15.5	NOX-FILT2.5
AFU-GR-F07-01	7	3	47	Particulate filter PM2.5	Inline carbon filter	99.5%	346 x 858 x 170	15.5	NOX-FILT2.5
AFU-GR-F08-01	8	1	47	Particulate filter PM2.5	Inline carbon filter	99.5%	346 x 858 x 170	15.5	NOX-FILT2.5
AFU-GR-F09-01	9	1	61	Particulate filter PM2.5	Inline carbon filter	99.5%	346 x 858 x 170	15.5	NOX-FILT2.5

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NOTES

- All filter units are based on Domus Ventilation NOX-FILT Range and shall be as manufactured by Domus Ventilation or equal and approved.
- Pressure drops from each unit shall be considered in the overall MVHR pressure drop calculation based on the coordinated installation drawings.
- Installation shall be carried out by the competent personnel, in accordance with good industry practice, the appropriate authority and in conformance with all statutory and governing regulations.
- The mounting surface must be of a solid construction and capable of supporting the full weight of the unit.
- Units shall be supplied complete with a mounting bracket for quick and easy surface mounted installation.
- Access to the unit for maintenance is granted via the bottom panel with a minimum size of 400W x 900L.
- All units shall be installed with the correct airflow orientation.
- During maintenance, appropriate PPE (Personal Protective Equipment) should be worn. Precautions may also be needed to protect the surrounding area from excess carbon residue.
- One set of replacement filters shall be provided for all units – 1No. NOX-CF and 1No. NOX-PM2.5 per flat.

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NOX-FILT
Inline Carbon Filter

Installation Instructions

1.0 Introduction

The NOX-FILT has been created by Domus Ventilation to work in conjunction with a mechanical ventilation system to reduce harmful airborne contaminants entering the home, with a leading focus on NO_2 filtration. It benefits from a shallow design allowing flexible, discreet install in modern buildings with space restrictions and requires no mechanical maintenance, simply the replacement of filters. The unit incorporates a carbon filter as standard, and is available with PM2.5 pre-filter. We recommend these units should be fitted on the supply leg of ducting and therefore do not require insulation (Figure 2).

Unit Code	Height (mm)	Width (mm)	Length (mm)	Max. Weight (kg)
NOX-FILT	170	346	858	15.1
NOX-FILT2.5	170	346	858	15.5

CODE DESCRIPTION:

NOX-FILT2.5
1 2

1. Inline Carbon Filter

2. Optional Particulate Pre-Filter:
2.5 = PM2.5 (2.5 microns +)

1.1 Particulate Filter (Optional)

High urban PM (Particulate Matter) emissions may require an additional filter to meet air quality standards.

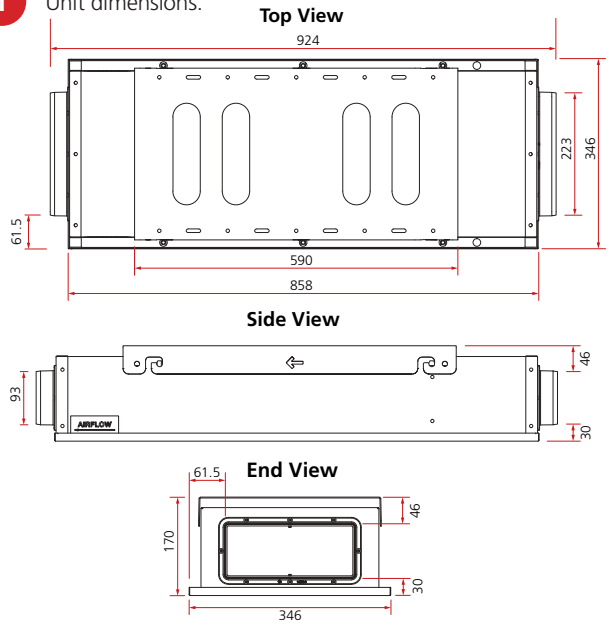
1.2 Performance Data

These carbon filters have been independently tested and offer up to 99.5% reduction in NO_2. The unit meets planning obligations and world health organisation's recommendations.

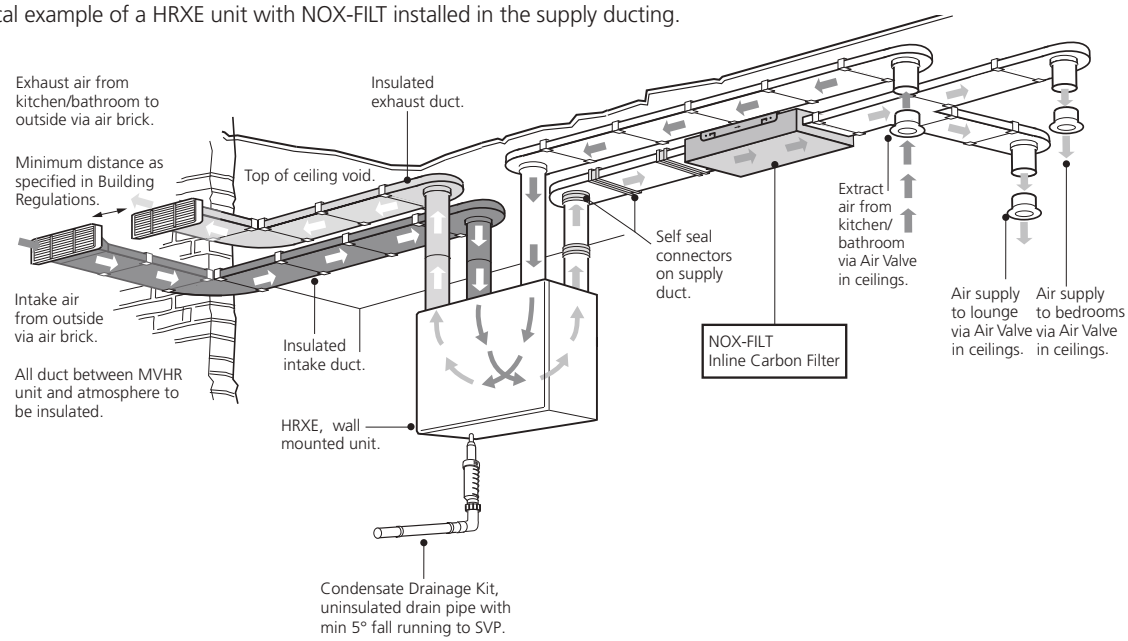
1.3 Resistance Data

When selecting the MVHR unit please ensure that the resistance through the carbon filter has been allowed for.

1 Unit dimensions.



2 Typical example of a HRXE unit with NOX-FILT installed in the supply ducting.



2.0 Installation

Installation must be carried out by competent personnel, in accordance with good industry practice, the appropriate authority and in conformance with all statutory and governing regulations.

The mounting surface must be of a solid construction and capable of supporting the full weight of the unit.

Units are supplied complete with a mounting bracket for quick and easy surface mounted installation.

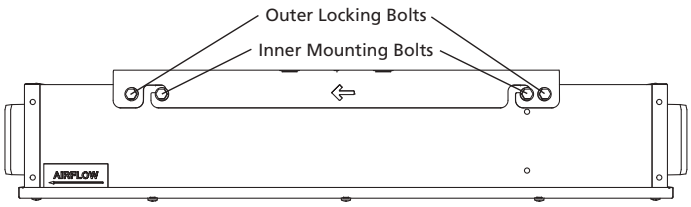
Access to the unit for maintenance is granted via the bottom panel. Ensure that an access panel has been allowed for maintenance to the unit, the space required is shown below.

Unit Code	Access Requirements	
	Width (mm)	Length (mm)
NOX-FILT	386	898
NOX-FILT2.5	386	898

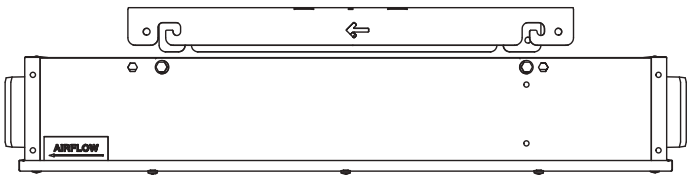
2.1 Ceiling Mounting

- Remove unit from packaging and unscrew the outer locking bolts (two bolts on the left and right side of the unit) from the mounting bracket, storing them for later use (Figure 3).
- Loosen the inner mounting bolts and slide/lift the mounting bracket off the unit (Figure 4).
- Locate the mounting bracket into the desired position, with the arrows pointing in the direction of airflow. Use the bracket to mark the required drill holes.
- Using the appropriate fixings, secure the bracket to the ceiling.
- Check the orientation of the unit matches that of the mounting bracket by aligning the direction of the arrow on the bracket with the direction of the arrow on the units' airflow label.
- With the inner mounting bolts still protruding from the unit (5mm), offer the unit up to the mounting bracket, sliding up and across so that all four bolts rest in the bracket slots. Tighten all bolts.
- Lock the unit in position by refitting the outer locking bolts that were removed earlier.

3 Outer locking bolts.



4 Removing mounting bracket.



2.2 Limited Access

It is possible to fit this unit close to a wall/obstacle which prevents the locking bolts from being installed along one side. The two unused locking bolt holes should be plugged by screwing in the rubber plugs provided before installing. All four mounting bolts **MUST** be tightened and the remaining two locking bolts **MUST** be used.

3.0 Maintenance

Appropriate PPE (Personal Protective Equipment) should be worn during maintenance. Precautions may also be needed to protect the surrounding area from excess carbon residue.

To ensure the carbon filter maintains its high reduction of NO_2 the filter must be replaced once the end of its lifespan has been reached. The lifespan of the carbon filter in normal circumstances is shown in the table below.

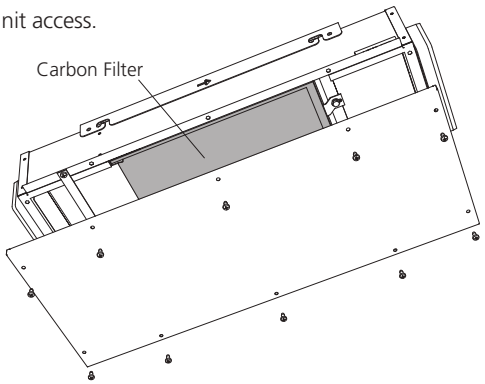
Unit Code	Carbon Filter	
	Lifespan	Weight (kg)
NOX-FILT	2 Years	6
NOX-FILT2.5	2 Years	6

IMPORTANT INFORMATION:
The carbon filter block is supported by a retaining clamp, loosening the clamp will result in the filter being freed. Be prepared to support the whole weight of the carbon filter block.

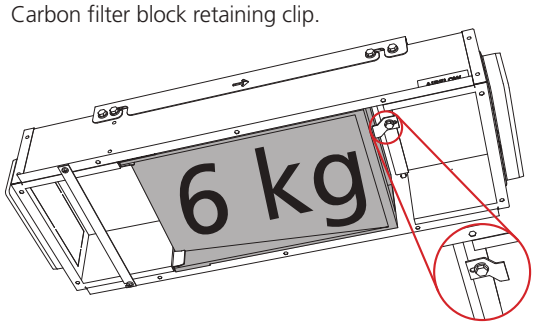
3.1 Replacing Single Carbon Filter - NOX-FILT/NOX-FILT2.5

- Unscrew the fixings securing the lid in place and remove lid from unit (Figure 5).
- Whilst supporting the back of the carbon filter block, loosen the retaining clamp bolt and rotate the clamp in order to release the block (Figure 6).
- Pulling firmly on the rear edge of the carbon filter block will lever the filter to approximately a 45° angle (A). At this position it can be removed from the unit (B) (Figure 7).
- Replace the carbon filter in the reverse operation to the above process. Ensure the filter is worked into position, the clamp rotated back and clamp bolt tightened prior to removing support from the replacement carbon filter block.
- Refit the unit lid.
- Wash hands thoroughly after handling.

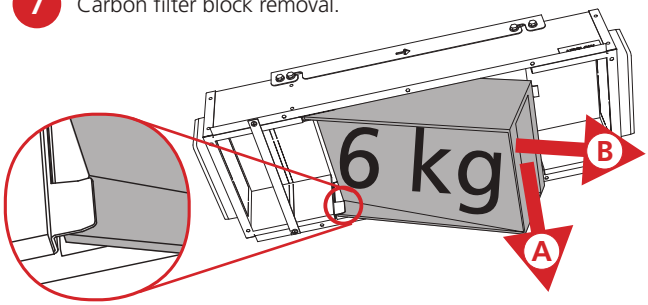
5 Unit access.



6 Carbon filter block retaining clip.



7 Carbon filter block removal.



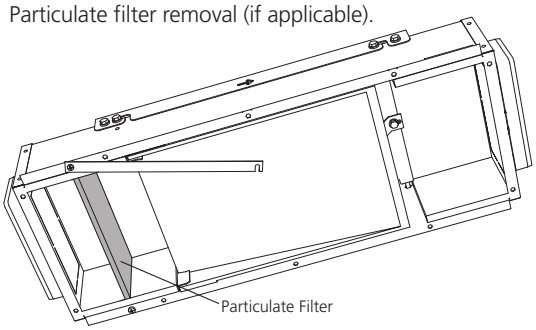
IMPORTANT INFORMATION:
Carbon filters / pellets are not to be ingested.

3.2 Replacing Particulate Filter (If Applicable)

To ensure effective particulate matter filtration and low system resistance, the optional PM2.5 air filters must be replaced every 12 months. Replacement filters are available for purchase direct from Domus Ventilation, with the relevant part codes shown in section 3.3 of this document.

- Unscrew the fixings securing the lid in place and remove lid from unit (Figure 5).
- Rotate the strap through 90° to allow removal of the filter, the fixing screw may need to be loosened to allow strap to rotate (Figure 8).
- Fit the replacement filter ensuring the airflow direction matches the air flow of the unit (if applicable).
- Rotate strap back into position and refit unit lid.

8 Particulate filter removal (if applicable).



Technical or commercial considerations may, from time to time, make it necessary to alter the design, performance and dimensions of equipment and the right is reserved to make such changes without prior notice.

Domus Ventilation

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3.3 Replacement Filters

Replacement filters can be purchased direct from Domus using codes provided in the table below.

Unit Code	Carbon Filter	Particulate Filter
NOX-FILT	NOX-CF	N/A
NOX-FILT2.5	NOX-CF	NOX-PM2.5

Please visit our spares website to purchase replacement filters
http://vent-spares.domusventilation.com/

4.0 Warranty

The 5 year warranty starts from the day of delivery and includes first year parts and labour, remaining years parts only. This warranty is void if the equipment is modified without authorisation, is incorrectly applied, misused, disassembled, or not installed, commissioned and maintained in accordance with the details contained in this manual and general good practice.

The product warranty applies to the UK mainland and in accordance with Clause 14 of our Conditions of Sale. Customers purchasing from outside of the UK should contact Domus Ventilation Sales office for further details.

5.0 After Sales

For technical assistance or further product information, including spare parts and replacement components, please contact the After Sales Department.

Telephone 03443 715 523

vent.technical@domusventilation.co.uk

The EMC Directive 2014/30/EU
The Low Voltage Directive 2014/35/EU

NOX-FILT

User Guide for Occupants

Models: NOX-FILT & NOX-FILT2.5

Domus Ventilation's NOX-FILT range works in conjunction with a mechanical ventilation system to reduce the levels of pollution that can enter the home; improving indoor air quality and ultimately your everyday health.

Legislations within the UK construction industry encourage homes to be built with minimal air leakage to ensure optimum energy efficiencies. This has highlighted the importance of ventilation systems and consequently the filtration of air brought in to the home to ensure acceptable indoor air quality. The unit may sit on the supply leg of the ducting system which serves the 'living' areas of your home, such as bedrooms and sitting rooms.

There are two units available in the range with the only difference being what filters are included at purchase. The **NOX-FILT** houses a carbon filter cell only whereas the **NOX-FILT2.5** includes the same carbon filter cell plus a PM2.5 filter for Particulate Matter equal or larger in size to 2.5 microns.

Should you wish to add a PM2.5 filter to your **NOX-FILT** this can be done at any time buy purchasing the filter separately. Please see following table for filter replacement codes.

The unit will have been installed by your housing provider in accordance with the latest building initiatives and as such should be maintained as per best practice recommendations.

How do I operate the unit?

There are no adjustable running functions. As such the unit will function continuously, in addition to the ventilation system that will also be installed.

Unit Code	Carbon Filter Replacement	PM2.5 Filter Replacement
NOX-FILT	NOX-CF	n/a
NOX-FILT2.5	NOX-CF	NOX-PM2.5

Is Maintenance Required?

NOX-FILT

The only maintenance required is filter replacement.

The life expectancy of the main carbon filter is 2 years, depending on installation environment. At this point replacement with a new cell is required.

NOX-FILT2.5

As well as the main carbon filter, there is an additional PM2.5 filter in this model. Domus Ventilation recommends replacement of this additional PM2.5 filter approximately every 12 months (dependent on installation environment).

Cardboard-framed pre-filters should be disposed of in your general waste for landfill/ incineration. Contact your local civic amenity site/ household waste recycling centre regarding metal/wire framed filters.

Visit **www.vent-spares.domusventilation.com** for filter replacements

Appropriate PPE (Personal Protective Equipment) should be worn during maintenance. Precautions may also be needed to protect the surrounding area from excess carbon residue.

Contact Details

In the first instance please contact your housing provider or house builder.

Domus Ventilation have a team of technical experts on hand to help. Our operating hours are 9-5 Monday to Thursday and 9-4.30 Fridays (excluding Bank Holidays)

Tel: 03443 715 523
Email: vent.info@domusventilation.co.uk
www.domusventilation.co.uk

When calling Domus Ventilation, if possible, please check your unit for the serial number located on the fan label.

NOTES

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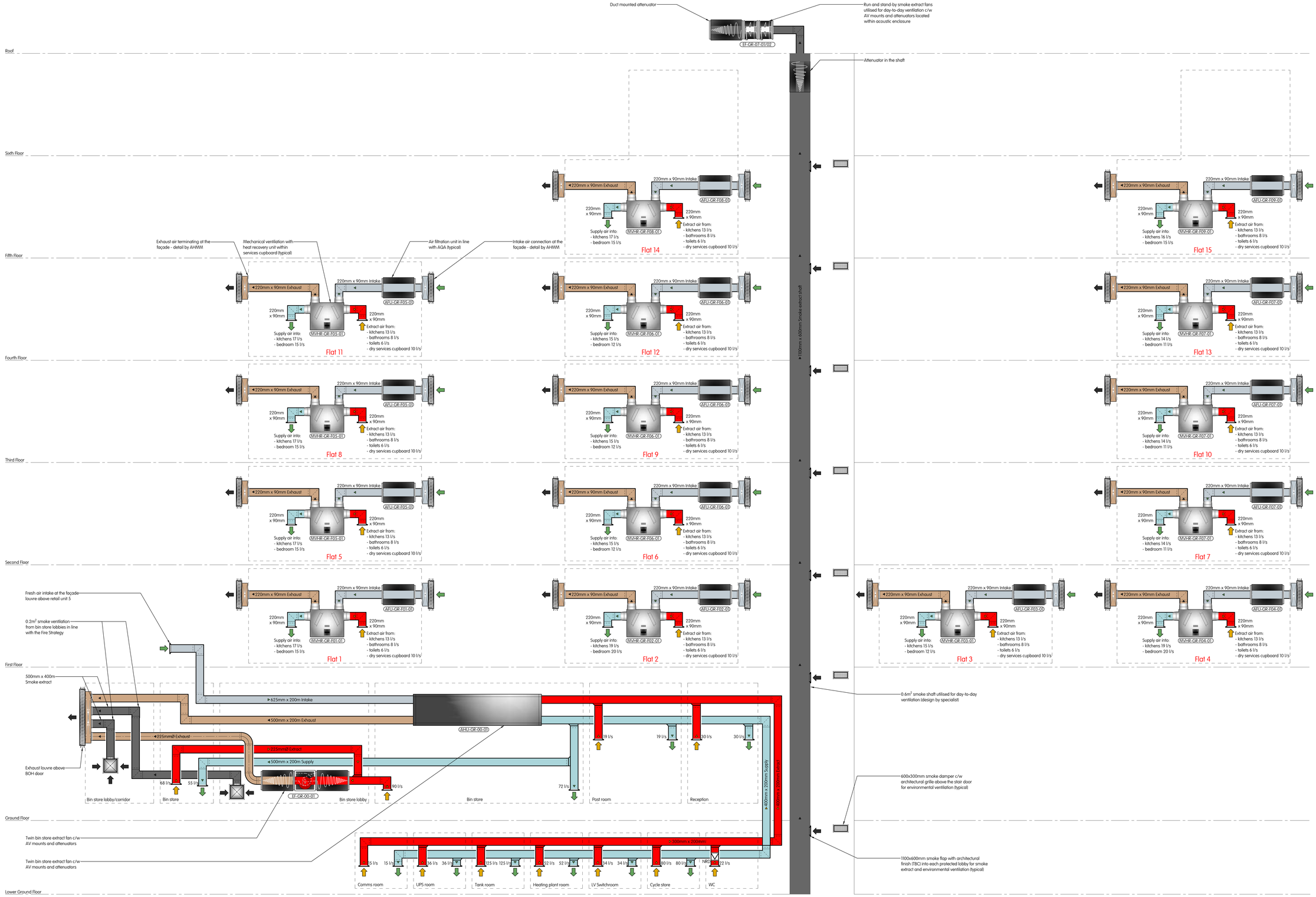
2. THIS IS NOT AN INSTALLATION DRAWING.
3. All services routes and equipment locations are indicative, actual location and configuration to be determined by contractor following completion of contractor design and coordination.
4. This drawing will only be issued in PDF format.
5. All MVHR system and kitchen extract system ductwork shall be of a flat plastic type. All secondary FCU ductwork shall be made of insulated galvanised steel. Flexible connections are allowed on final connections to the grilles/diffusers only and shall be limited to a 500mm max.
6. All MVHR ductwork branches to be provided with volume controls dampers. Allowance should be made for transforming the duct into a circular equivalent and back to flat duct to allow for circular VCD to be fitted.
7. All MVHR supply ductwork branches to be provided with 500mm flexible acoustic ductwork for final connections into the supply grilles.
8. Fresh and exhaust air ductwork shall be fully insulated between the fan unit and the facade. All connections to the facade shall be provided with an insulated plenum matching the size of the louvre.
9. All secondary ductwork from fan coil units shall be thermally insulated.
10. Intumescent fire brakes shall be provided were ductwork passes through a fire compartment wall as indicated on fire strategy drawings.
11. Condensate from all fan coil units shall be by gravity where possible. All condensate pipes shall connect to the closest SVP via HEPVO waterless trap. All traps shall be accessible.
12. All heated rooms (as indicated) are provided with wet (LTHW) underfloor heating system. Wall mounted temperature sensor shall be provided in each room except for bathrooms, which shall be controlled via floor sensor.
13. Setting out for all visible items of aesthetic importance such as sensors, grilles, access panels etc. shall be provided by the architect.
14. In line with Building regulation Part F, all internal doors shall be undercut to provide a minimum area of 7600mm² above the floor finish to ensure good transfer of air throughout the dwelling.
15. Refer to the following drawings: - 7127-XX-XX-DRM-0003 for Mechanical Symbols - 7127-MTT-GRZZ-DR-MEP-4100 for Services Cupboard Layout



Based on architectural drawing/s.

Rev	Date	Description	Drawn	Checked
T1	08.10.2021	Stage 4 Issue	SK	MR

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PM	M Ruzickova
Cad	M Castaldo
Date	March 2021
Scale	NTS@A1
Status	STAGE 4

Panther House

Mechanical Services
Gray's Inn Road
Ventilation Schematic

Drg No. 7127-MTT-GR-ZZ-DR-M-1000 Revision T1

NOTES

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12. All heated rooms (as indicated) are provided with wet (LTHW) underfloor heating system. Wall mounted temperature sensor shall be provided in each room except for bathrooms, which shall be controlled via floor sensor.
13. Setting out for all visible items of aesthetic importance such as sensors, grilles, access panels etc. shall be provided by the architect.
14. In line with Building regulation Part F, all internal doors shall be undercut to provide a minimum area of 7600mm² above the floor finish to ensure good transfer of air throughout the dwelling.
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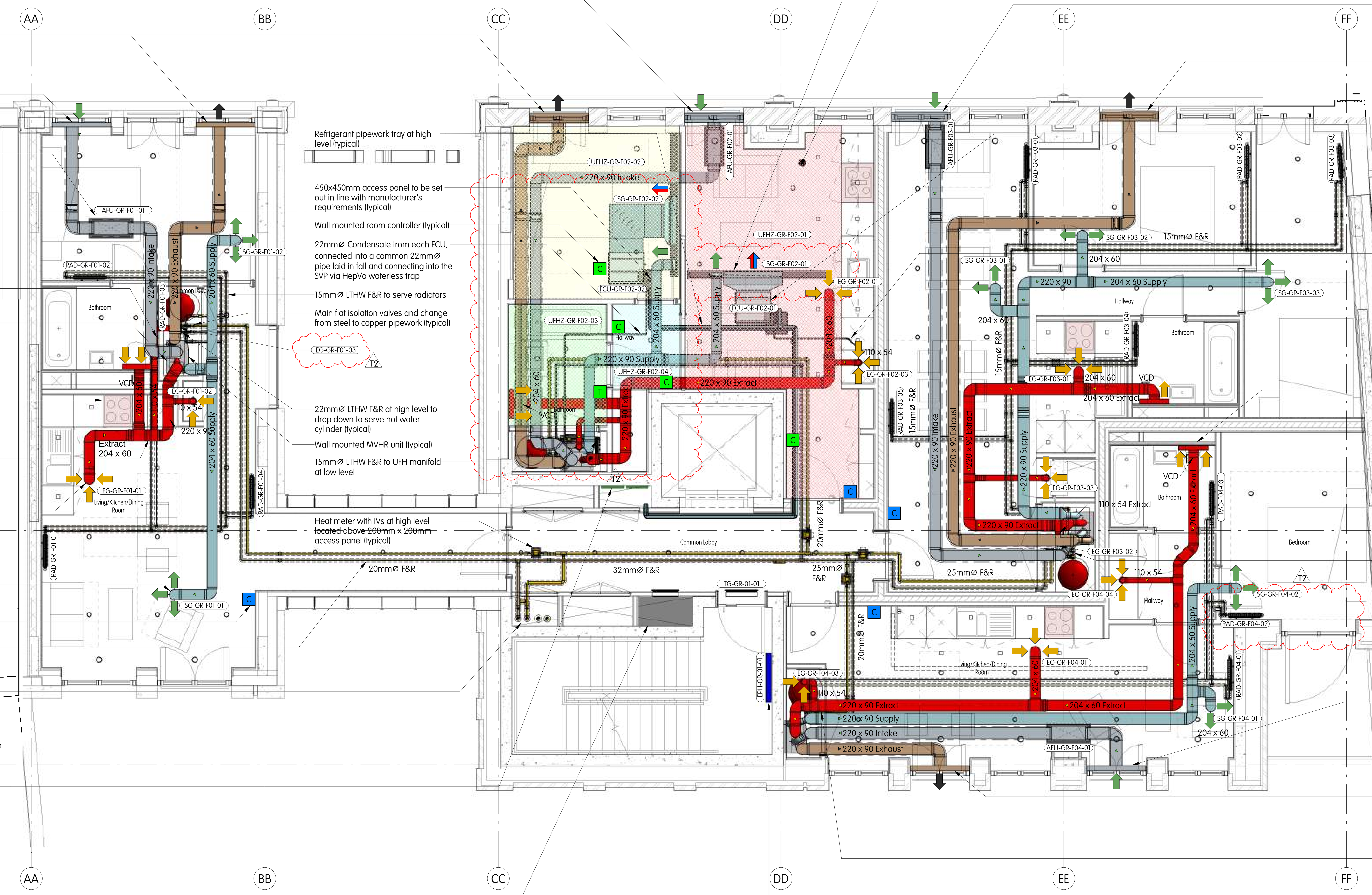

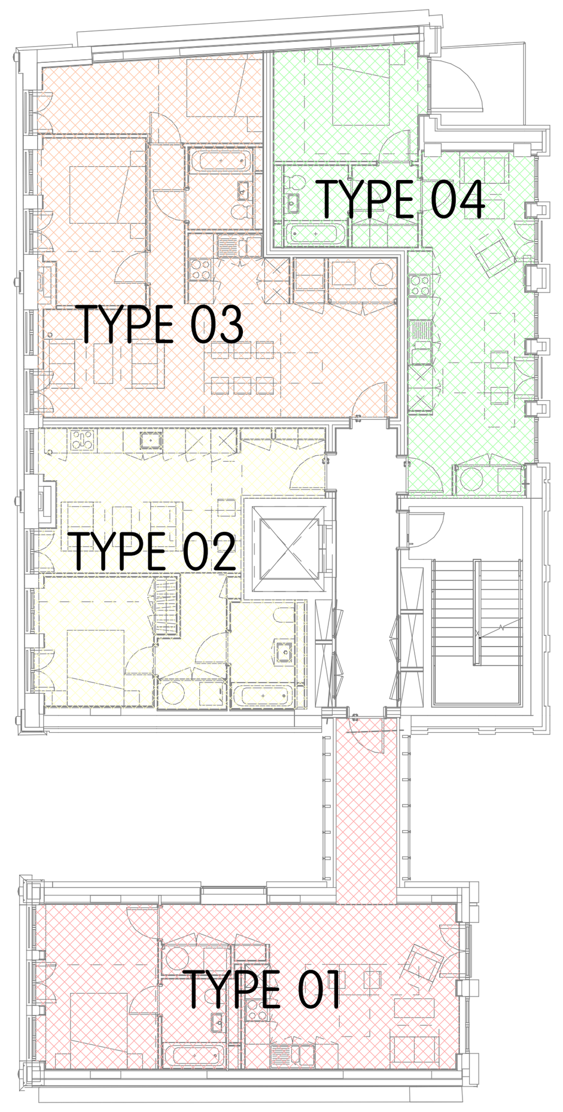

First Floor Apartment Keyplan
1 : 200

Rev.	Date	Description	Drawn	Checked
T2	29.07.2022	Stage 4 Refresh Issue	MC	MR
T1	08.10.2021	Stage 4 Issue.	MC	MR

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PM M Ruzickova
Cad M Castaldo
Date March 2021
Scale 1 : 50 @ A1
Status Stage 4

Panther House
Mechanical Services
Gray's Inn Road - First Floor
General Layout

Drg No. 7127-MTT-GR-01-DR-M-2000 Revision T2

NOTES

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11. Condensate from all fan coil units shall be by gravity where possible. All condensate pipes shall connect to the closest SVP via HEPVO waterless trap. All traps shall be accessible.
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13. Setting out for all visible items of aesthetic importance such as sensors, grilles, access panels etc. shall be provided by the architect.
14. In line with Building regulation Part F, all internal doors shall be undercut to provide a minimum area of 7600mm² above the floor finish to ensure good transfer of air throughout the dwelling.
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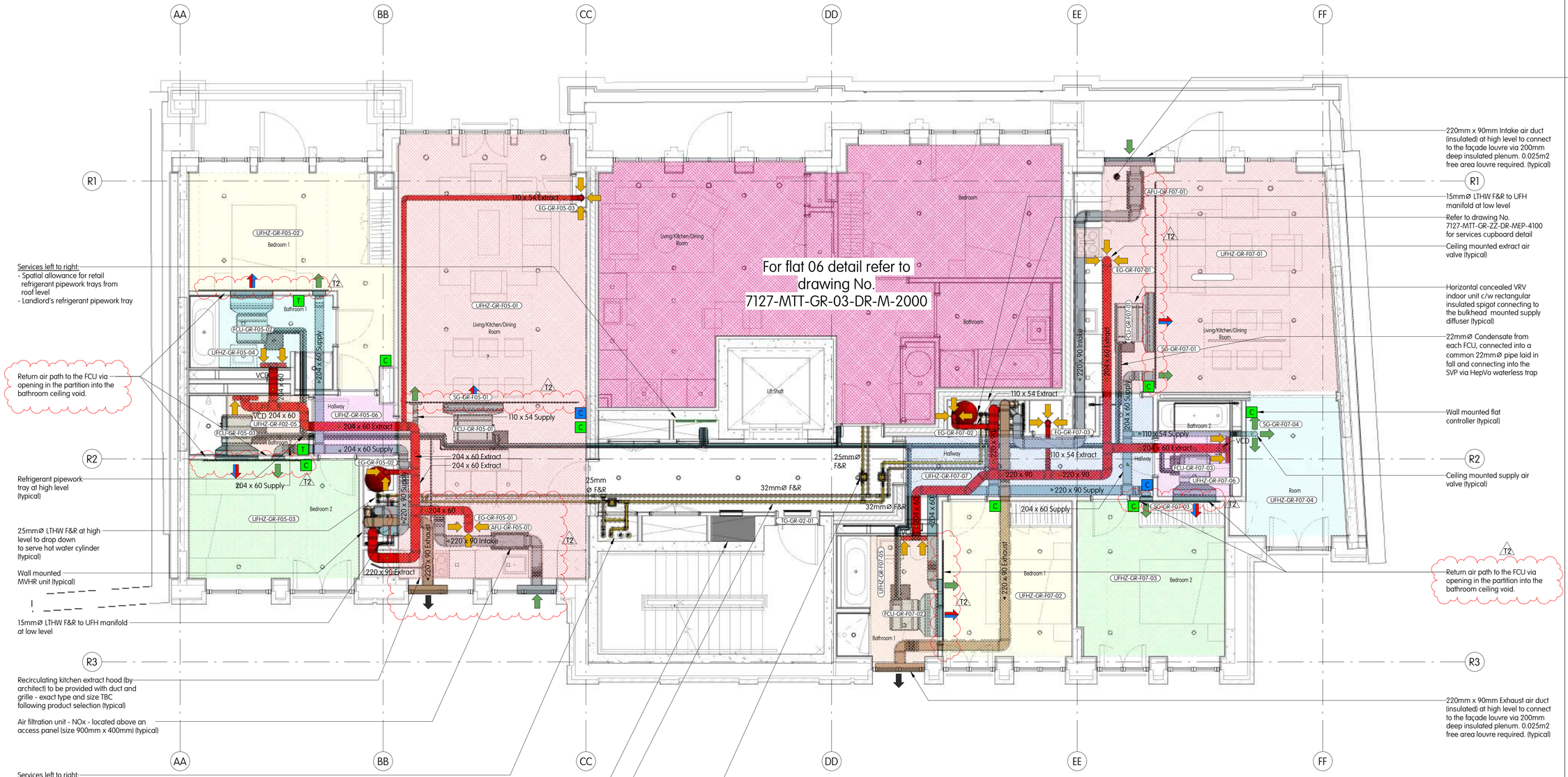

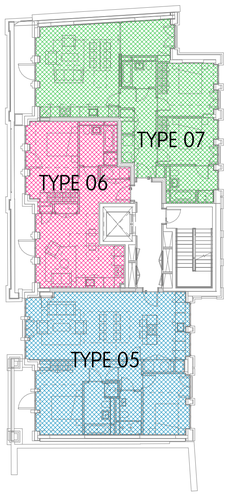

Second Floor Apartment Keyplan

1 : 200

Based on architectural model:
14093-AHMM-ZZ-ZZ-M3-A-0001 -Rev 15
Date: 2022-07-19
Based on structural model:
PAH-EOC-XX-ZZ-M3-S-1000
Date: 2022-07-19

Rev.	Date	Description	Drawn	Checked
T2	29.07.2022	Stage 4 Refresh Issue	MC	MR
T1	08.10.2021	Stage 4 Issue.	MC	MR

Plotted 29/07/2022 09:16:42 File Path: BIM 360://7127 - Panther House/7127-MTT-ZZ-ZZ-M3-M-0001.rvt

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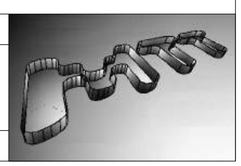
Cad M Castaldo
Date March 2021
Scale 1 : 50 @ A1
Status **Stage 4**

Panther House

Mechanical Services
Gray's Inn Road - Second Floor
General Layout

Drg No. 7127-MTT-GR-02-DR-M-2000
Revision T2



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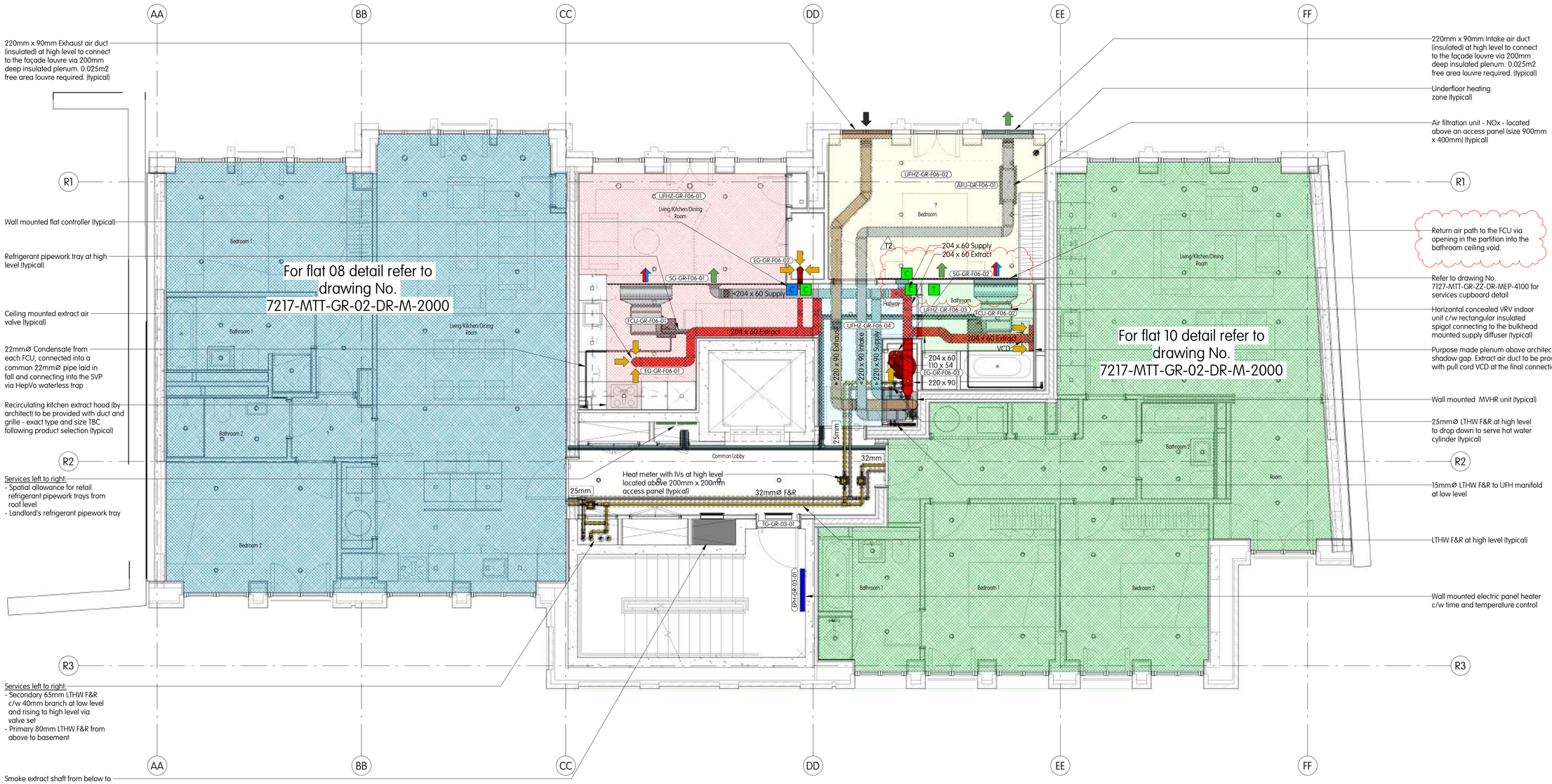
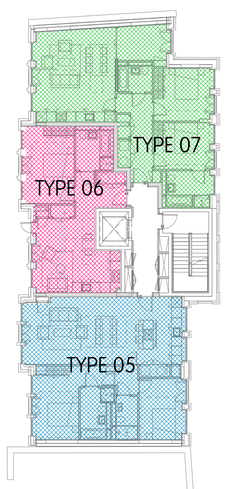
9. All secondary ductwork from fan coil units shall be thermally insulated.
10. Intumescent fire brakes shall be provided were ductwork passes through a fire compartment wall as indicated on fire strategy drawings.
11. Condensate from all fan coil units shall be by gravity where possible. All condensate pipes shall connect to the closest SVP via HEPVO waterless trap. All traps shall be accessible.
12. All heated rooms (as indicated) are provided with wet (LTHW) underfloor heating system. Wall mounted temperature sensor shall be provided in each room except for bathrooms, which shall be controlled via floor sensor.
13. Setting out for all visible items of aesthetic importance such as sensors, grilles, access panels etc. shall be provided by the architect.
14. In line with Building regulation Part F, all internal doors shall be undercut to provide a minimum area of 7600mm² above the floor finish to ensure good transfer of air throughout the dwelling.
15. Refer to the following drawings: - 7127-XX-XX-DR-M-0001 for Mechanical Symbols - 7127-MTT-GR-ZZ-DR-MEP-4100 for Services Cupboard Layout





Third Floor Apartment Keyplan

1 : 200

Based on architectural model: 14093-AHMM-ZZ-ZZ-M3-A-0001 -Rev 15 Date: 2022-07-19
Based on structural model: PAH-EOC-XX-ZZ-M3-S-1000 Date: 2022-07-19

Rev.	Date	Description	Drawn	Checked
T2	29.07.2022	Stage 4 Refresh Issue	IL	MR
T1	08.10.2021	Stage 4 Issue.	IL	MR

Plotted 28/07/2022 17:21:26 File Path: BIM 360://7127 - Panther House/7127-MTT-ZZ-ZZ-M3-M-0001.rvt

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PM M Ruzickova
Cad M Castaldo
Date March 2021
Scale 1 : 50 @ A1
Status **Stage 4**

Panther House

Mechanical Services
Gray's Inn Road - Third Floor
General Layout

Drg No. 7127-MTT-GR-03-DR-M-2000
Revision T2

NOTES

1. This drawing is for engineering services only and is to be read in conjunction with all relevant architectural, structural, mTT drawings and the Contract specification.
2. **THIS IS NOT AN INSTALLATION DRAWING.**
3. All services routes and equipment locations are indicative, actual location and configuration to be determined by contractor following completion of contractor design and coordination.
4. This drawing will only be issued in PDF format
5. All MVHR system and kitchen extract system ductwork shall be of a flat plastic type. All secondary FCU ductwork shall be made of insulated galvanised steel. Flexible connections are allowed on final connections to the grilles/diffusers only and shall be limited to a 500mm max.
6. All MVHR ductwork branches to be provided with volume controls dampers. Allowance should be made for transforming the duct into a circular equivalent and back to flat duct to allow for circular VCD to be fitted.
7. All MVHR supply ductwork branches to be provided with 500mm flexible acoustic ductwork for final connections into the supply grilles.
8. Fresh and exhaust air ductwork shall be fully insulated between the fan unit and the facade. All connections to the facade shall be provided with an insulated plenum matching the size of the louvre.
9. All secondary ductwork from fan coil units shall be thermally insulated.
10. Intumescent fire brakes shall be provided were ductwork passes through a fire compartment wall as indicated on fire strategy drawings.
11. Condensate from all fan coil units shall be by gravity where possible. All condensate pipes shall connect to the closest SVP via HEPVO waterless trap. All traps shall be accessible.
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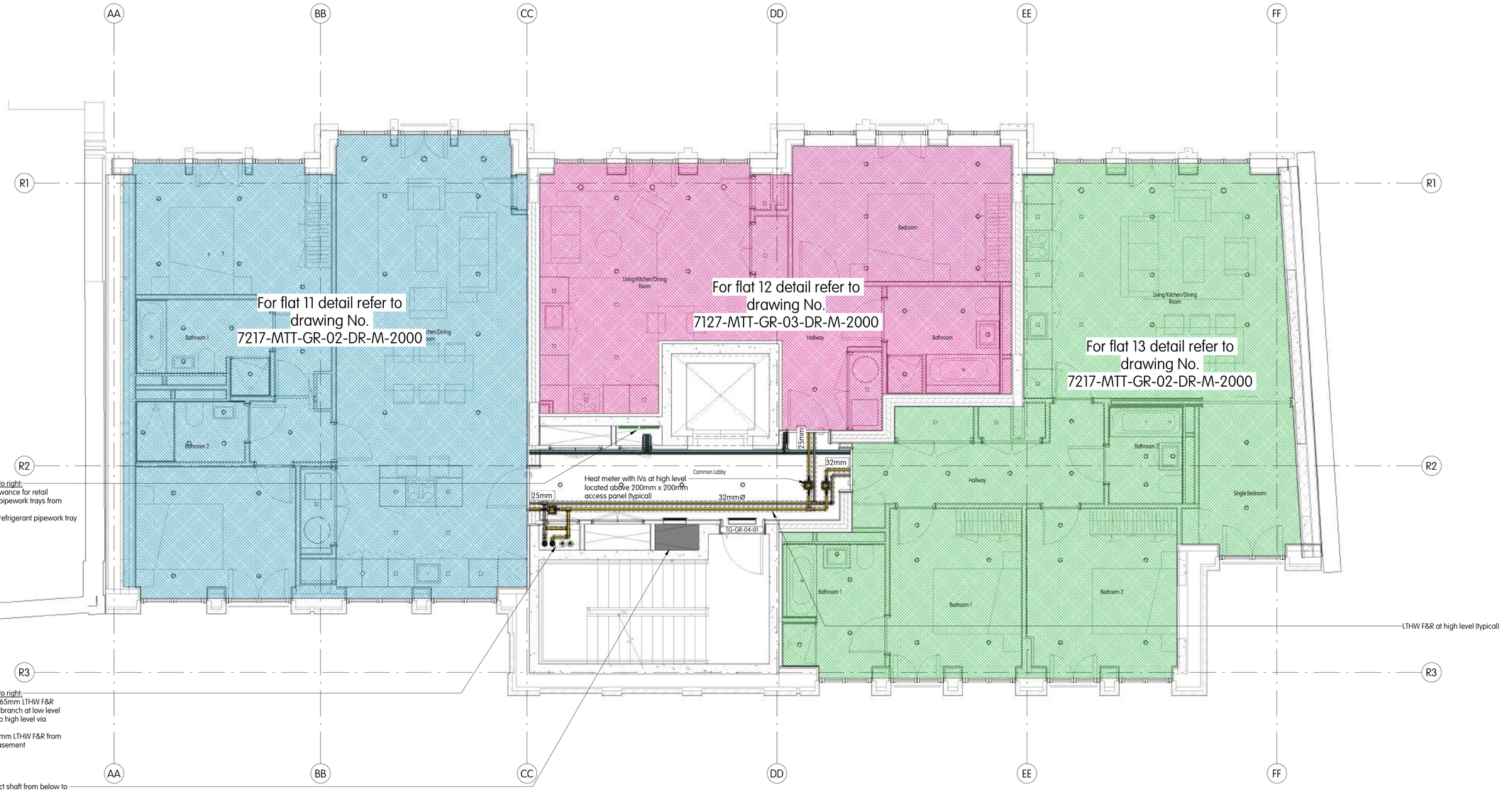
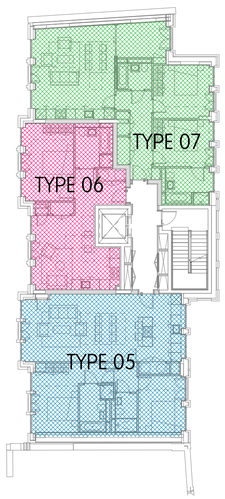
15. Refer to the following drawings: - 7127-XX-XX-DR-M-0001 for Mechanical Symbols - 7127-MTT-GR-ZZ-DR-MEP-4100 for Services Cupboard Layout





Fourth Floor Apartment Keyplan

1 : 200

Based on architectural model:
14093-AHMM-ZZ-ZZ-M3-A-0001
Date: 2021-09-22
Based on structural model:
PAH-EOC-XX-ZZ-M3-S-1000
Date: 2021-09-20

Rev.	Date	Description	Drawn	Checked
T1	08.10.2021	Stage 4 Issue.	MC	MR

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Cad M Castaldo
Date March 2021
Scale 1 : 50 @ A1
Status **Stage 4**

Panther House

Mechanical Services
Gray's Inn Road - Fourth Floor
General Layout

Drg No. 7127-MTT-GR-04-DR-M-2000
Revision T1

Plotted: 15/10/2021 10:55:05 AM File Path: BIM 360://7127 - Panther House/7127-MTT-ZZ-ZZ-M3-M-0001.rvt

NOTES

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6. All MVHR ductwork branches to be provided with volume controls dampers. Allowance should be made for transforming the duct into a circular equivalent and back to flat duct to allow for circular VCD to be fitted.
7. All MVHR supply ductwork branches to be provided with 500mm flexible acoustic ductwork for final connections into the supply grilles.
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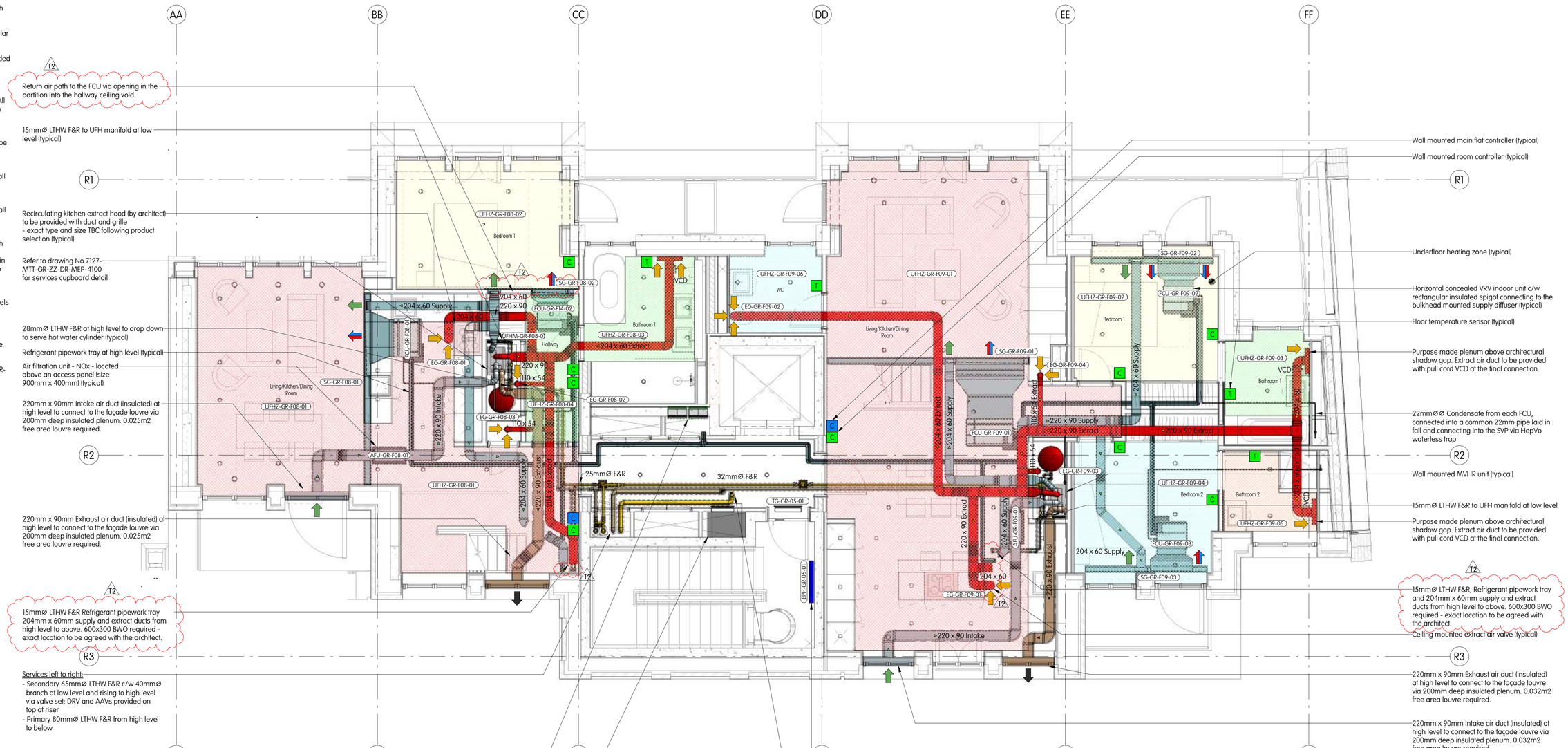

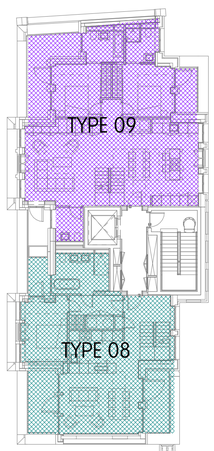

Fifth Floor Apartment Keyplan

1 : 200

Rev.	Date	Description	Drawn	Checked
T2	29.07.2022	Stage 4 Refresh Issue	MC	MR
T1	08.10.2021	Stage 4 Issue.	MC	MR

Based on architectural model: 14093-AHMM-ZZ-ZZ-M3-A-0001 -Rev 15 Date: 2022-07-19
Based on structural model: PAH-EOC-XX-ZZ-M3-S-1000 Date: 2022-07-19

Plotted: 29/07/2022 17:21:31 File Path: BIM 360://7127 - Panther House/7127-MTT-GZ-ZZ-M3-M-0001.rvt

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Date March 2021
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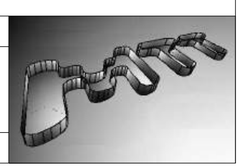
Status **Stage 4**

Panther House

Mechanical Services
Gray's Inn Road - Fifth Floor
General Layout

Drg No. 7127-MTT-GR-05-DR-M-2000
Revision T2



NOTES

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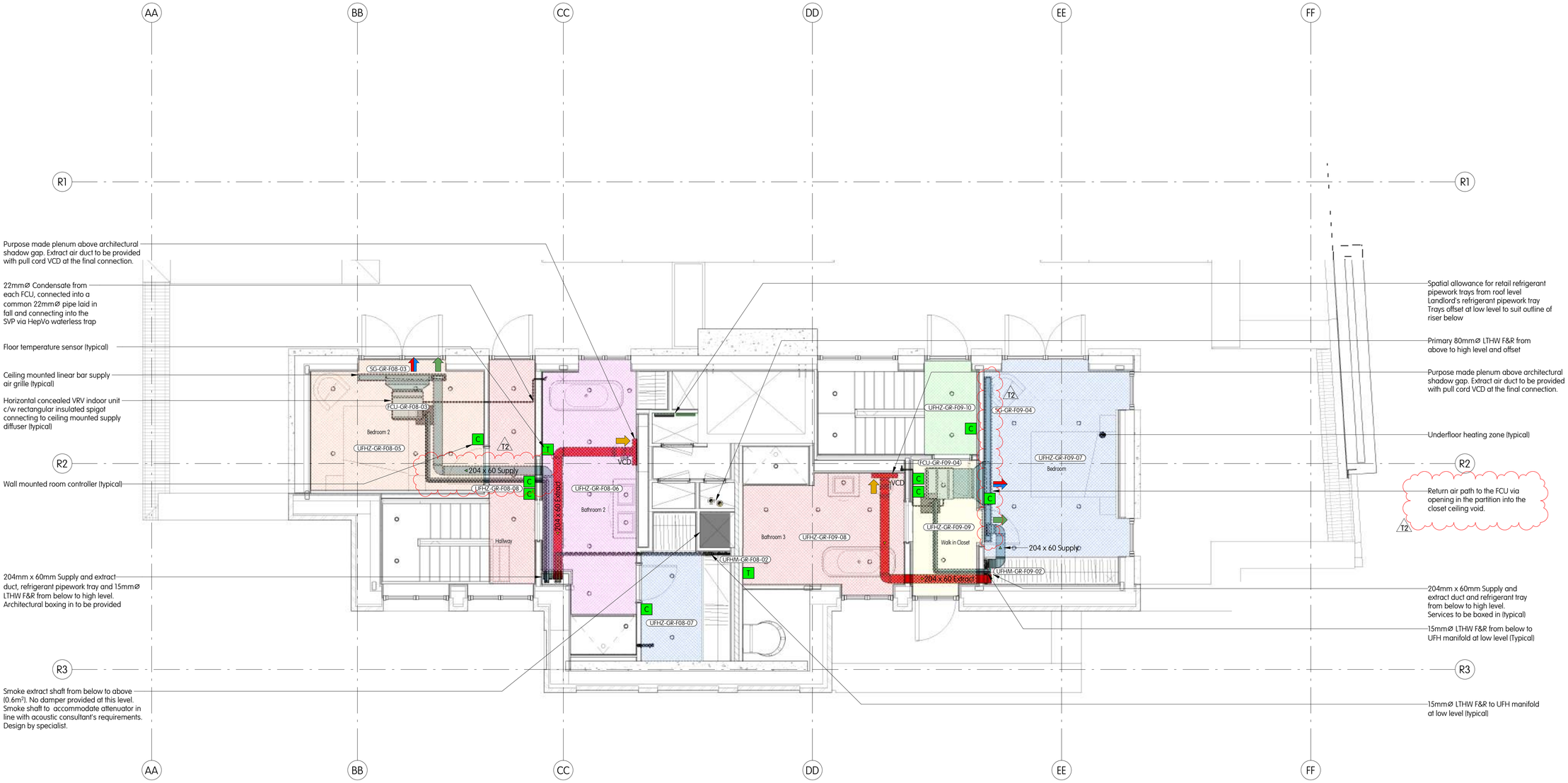
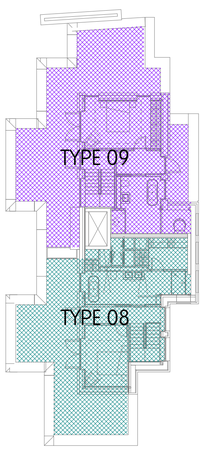
15. Refer to the following drawings: - 7127-XX-XX-DR-M-0001 for Mechanical Symbols - 7127-MTT-GR-ZZ-DR-MEP-4100 for Services Cupboard Layout





Sixth Floor Apartment Keyplan

1 : 200

Based on architectural model:
16093-AHMM-ZZ-ZZ-M3-A-0001 -Rev 15
Date: 2022-07-19
Based on structural model:
PAH-EOC-XX-ZZ-M3-S-1000
Date: 2022-07-19

Rev.	Date	Description	Drawn	Checked
T2	29.07.2022	Stage 4 Refresh Issue	MM	MR
T1	08.10.2021	Stage 4 Issue.	MM	MR

Plotted: 29/07/2022 09:17:08 File Path: BIM 360://7127 - Panther House/7127-MTT-ZZ-ZZ-M3-M-0001.rvt

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Panther House

Mechanical Services
Gray's Inn Road - Sixth Floor
General Layout

Drg No. 7127-MTT-GR-06-DR-M-2000
Revision T2