



- EXTRACT VENTILATION DUCTWORK
— SUPPLY VENTILATION DUCTWORK
... REFRIGERANT PIPEWORK

EF01 - Inline Twin Extract Fan PIR Controlled c/w Attenuation
EF02 - Ceiling Mounted Extract Fan PIR Controlled c/w Attenuation
IU01 - Wall Mounted Internal Unit (DX/VRF)
IU02 - Soffit Mounted Cassette Internal Unit (DX/VRF)
MVHR 01 - 180 L/S Wall Mounted MVHR Unit with CO2 Control & Attenuation
MVHR 02 - 120 L/S Wall Mounted MVHR Unit with CO2 Control & Attenuation
EC01 - 3.0 kW R32 Split Cooling Condenser
EC02 - 25.0 kW R32 VRF Cooling Condenser c/w Heat Recovery

Abbreviations

- IU - Internal Unit (DX/VRF)
- EC - External Condenser (DX/VRF)
- BC - Branch Controller (VRF)
- DTG - Door Transfer Grille
- MVHR - Mechanical Ventilation with Heat Recovery
- EF - Extract Fan
- VCD - Volume Control Damper
- EG - Extract Grille
- SG - Supply Grille
- BM - Bell Mouth
- RTHL - Rise to High Level
- RTA - Rise to Above
- RFB - Rise from Below
- WH - Water Heater
- FCU - Fan Coil Unit
- EH - Electrical Panel Heater
- EL - Extract Louvre
- IL - Intake Louvre

CDM Regulations:

In addition to any information included in this drawing or the model from which it is derived, refer also to the project CDM Risk Register for information on residual risks.

General Notes:

- The drawing does not necessarily show all the information needed to interpret the design intent or the construction details.
- The drawing contains information from more than one source and must be read in conjunction with all relevant specifications.
- Any apparent drafting errors and differences between other drawings and specifications shall be brought to our attention.

Project Notes:

1. This drawing shows the design intent only and is subject to coordination by the Contractor and the preparation of developed design and installation detail drawing.
 2. Comfort cooling cannot be designed out for this building due to the constraints associated with the minimal thermal mass of modular buildings.
 3. Provide mechanical heat recovery units with integral electric heater batteries.
 4. All ductwork to be galvanised finish internally insulated.
 5. All metal ductwork to be in accordance with HVCA DW144.
 6. All services to be provided with suitable fire stopping where crossing between fire compartments. Fusible link fire dampers shall be provided to all supply and general extract ductwork where fire compartments are crossed.
 7. Wall mounted MVHR units to be housed in purpose built full height cupboards with adequately sized access doors.
 8. Air conditioning systems to be designed and installed in accordance with UoM Policy "EPM PM22 - Air Conditioning Policy".
- Office areas and meeting rooms
The activation set point for cooling should be at 26°C.
- IT Server/Communications Room
The operational set point for any approved cooling for IT / Communications rooms should be 26°C as per the University's structured cabling specification December 2017.
9. Heating shall be provided to maintain temperatures in accordance with CIBSE Guide A.
 10. Design and installation to be compliant with all relevant British Standard and Building Regulations documentation.
 11. VRF system control to be via central LCD panel at roof floor level (final location of panel to be agreed with University). Contractor to agree required interface with central BEMS network.
 12. Louvres will have 50% free area and insect mesh.

P02	Preliminary Issue	EG	RCM	RCM	07/2013
P01	Preliminary Issue	LW	RCM	RCM	03/2013

REVISIONS:

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PROJECT TITLE:
UoM NZC Decant Works - 5668

DRAWING TITLE:

MS2 Floor Plan
HVAC Systems Layout

PRELIMINARY ISSUE

PERSON RESPONSIBLE FOR:

Design:	Re
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LW	RO
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Project No:	Da
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DRAWING NUMBER:

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P02