

04.01a CLEAN SAMPLE PREP
ROOM SYSTEM VENTILATION
ALL FUME CUPBOARDS CLOSED
SUPPLY - BASED ON BAC/HR - 0.300m³/s
EXTRACT - TO MATCH SUPPLY - 0.300m³/s
ALL FUME CUPBOARDS OPEN
SUPPLY - BASED ON BAC/HR - 0.300m³/s
FUME EXTRACT - 1 CUPBOARD - 0.240m³/s
EXTRACT - REDUCED TO BALANCE - 0.060m³/s

04.01 INORGANIC PREP AREA
ROOM SYSTEM VENTILATION
ALL FUME CUPBOARDS CLOSED
SUPPLY - BASED ON BAC/HR - 0.550m³/s
EXTRACT - TO MATCH SUPPLY - 0.550m³/s
ALL FUME CUPBOARDS OPEN
FUME EXTRACT - 1 CUPBOARD 1OVEN - 0.800m³/s
SUPPLY - INCREASED TO BALANCE - 0.800m³/s
EXTRACT - TURNED OFF - 0.000m³/s

ROOM SYSTEM VENTILATION
ALL FUME CUPBOARDS CLOSED
SUPPLY - BASED ON BAC/HR - 4.086m³/s
EXTRACT - TO MATCH SUPPLY - 4.086m³/s
ALL FUME CUPBOARDS OPEN
SUPPLY - BASED ON BAC/HR - 4.086m³/s
FUME EXTRACT - 8 CUPBOARDS - 2.400m³/s
EXTRACT - REDUCED TO BALANCE - 1.686m³/s



SAFETY, HEALTH & ENVIRONMENTAL INFORMATION

For details of site wide and general risks to be read in conjunction with these notes, refer to the following documents:

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:
Construction and Manufacture

Maintenance, Cleaning and Operation

Decommissioning and Demolition

It is assumed that all works associated with this drawing will be carried out by competent operatives working, where appropriate, to an approved method statement.

LEGEND

- ATTENUATOR
- EXTRACT GRILLE
- SUPPLY GRILLE
- FLOOR GRILLE
- FIRE DAMPER
- VCD
- HEATER BATTERY
- EXTRACT FAN

FLOW RATE (m³/s) | DUCT SIZE (mm)

VELOCITY (m/s) | PRESSURE (Pa/m)

NOTES

- SUPPLY & GENERAL EXTRACT DUCTWORK WILL BE INSTALLED IN ACCORDANCE WITH DW144.
- DUCTWORK ACCESS HATCHES WILL BE PROVIDED FOR INSPECTION/SERVICING & CLEANING IN ACCORDANCE WITH TR19, TABLE 3, BY THE DUCTWORK CONTRACTOR ONLY
- FINAL CONNECTIONS TO GRILLES MAY BE FLEXIBLE UP TO MAXIMUM LENGTH OF 500mm; FLEXIBLE DUCTWORK ON SUPPLY DUCTWORK SHALL BE PRE-INSULATED
- ALL GRILLES SHALL HAVE A POWDER COATED FINISH TO A STANDARD MANUFACTURERS COLOUR TO BE AGREED WITH THE ARCHITECT.
- FIRE DAMPERS WITH ACCESS DOORS SHALL BE PROVIDED WHERE DUCTWORK PASSES THROUGH FIRE RATED CONSTRUCTION. REFER TO ARCHITECTS FIRE STRATEGY DRAWING FOR DETAILS.
- ALL VENTILATION SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH CIBSE COMMISSIONING CODE A
- INTERNAL DIAMETER OF THE FLEXIBLE DIAMETER SHOULD BE EQUAL TO THE EXTERNAL DIAMETER OF THE RIGID DUCTWORK.
- ALL SUPPLY DUCTWORK SHALL BE INSULATED IN ACCORDANCE WITH BS 5422.
- EXTRACT AIR BELLMOUTHS TO INCLUDE WIRE MESH TO PREVENT DEBRIS ENTERING SYSTEM.
- DUCTWORK TO BE INSTALLED WITHIN 500mm OF FIRE PARTITIONS.
- MULTI-BLADE VCD'S TO BE USED ON DUCTWORK 500mm AND ABOVE.
- DUCTWORK TO BE INSTALLED IN LINE WITH DW144
- FUME CUPBOARD EXTRACT TO BE IN PLASTIC DUCTWORK.
- OVEN EXTRACT TO BE IN STAINLESS STEEL DUCTWORK.

Rev	Description	Date
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