A0

Services Left to Right
20Ø LTHW-F from H/L to L/L
20Ø LTHW-R from H/L to L/L
25Ø CHW-R from H/L to L/L
25Ø CHW-F from H/L to L/L

Wall to be routed around upflow units.
Access to units from Material Store.
Leak detection to be provided.

Jet nozzle diffusers

SG 00 28
FCU 00 12

400x200 SA
350x200 SA
250x200 SA
250Ø SA

Services Left to Right
25Ø CHW-F from H/L to L/L
25Ø CHW-R from H/L to L/L
20Ø LTHW-R from H/L to L/L
20Ø LTHW-F from H/L to L/L

Return air to upflow units via fire damper.

300x150 Supply duct
300 x150 Extract duct

400x200 Smoke Extract duct
150x100 Supply & Extract branch

MSD 00 09
MSD 00 10
MSD 00 11
MSD 00 12
MSD 00 13
MSD 00 14
MSD 00 15
MSD 00 07
MSD 00 08
MD

VCD
FD

150x100 Supply duct
300x150 Supply duct
100 x150 Extract duct
300 x150 Extract duct
150x100 Extract duct
250 x150 Extract duct
250 x150 Supply duct
160Ø Extract duct

EG 00 02
SG 00 29
SG 00 03
SG 00 05
ATF 00 03
ATF 00 02
FCU 00 11
FCU 00 08
FCU 00 06
FCU 00 07
PRD 01 02
PRD 01 03

Perforated Plate
Pressure relief damper
Pressure relief damper at H/L
Unit to be fitted with drip tray and leak detection

Smoke extract fans to be housed within fire rated enclosure
SEF 00 1
SEF 00 2

MEP contractor to coordinate with stonework package for grille location.
C1

L 01 12
2000x500 Exhaust louvre
Exhaust plenum to be acoustically lined.

600x300 Smoke Extract duct
600 x300

100Ø
50Ø
CCU 00 02

Services Top to Bottom
15Ø LTHW-R from H/L to L/L
15Ø LTHW-F from H/L to L/L
20Ø CHW-F from H/L to L/L
20Ø CHW-R from H/L to L/L

180Ø Flue
180Ø Flue at H/L

Services Left to Right
32Ø CHW-F
32Ø CHW-R
20Ø LTHW-R
20Ø LTHW-F

Make-up air opening through truck lift to loading bay extract system to be coordinated with architect

Services Top to Bottom
15Ø LTHW-F
15Ø LTHW-R
25Ø CHW-R
25Ø CHW-F

Services Left to Right
50Ø CHW-R
50Ø CHW-F

Services Top to Bottom
25Ø LTHW-F
32Ø CHW-R
25Ø LTHW-R
32Ø CHW-F

Services Left to Right
50Ø LTHW-F
50Ø LTHW-R

300x150 Extract branch

600x300 duct at H/L drops T/B with 600x400 branch at H/L

200Ø Flue at H/L for Nitrogen

150x100 Supply with 100x150 spigot into plantroom at H/L. 150x100 duct drops to supply Anoxia Room through perforated plate

250x150 Smoke extract from anoxia chamber

400x250 Smoke extract duct
450x250 Smoke extract branch
350x250 Extract duct
450x250 Smoke extract duct

300x100 Supply branch
350 x200 Supply duct
400 x200 Supply duct
300 x150 Supply duct
400 x250 Supply duct
400 x200 Extract duct
300 x200 Supply duct
315Ø

For continuation refer to drawing no. ARUP-50-DR-010B

For continuation refer to drawing no. ARUP-50-DR-010C

REFER TO DRAWING No.
ARUP-51-DR-010X
FOR SERVICES IN THIS AREA

1200 x450 Smoke extract duct

SITE BOUNDARY

Roller shutter

L 01 04
L 01 05
L 01 06
MD 01 01
MD 01 02

Notes:-

1. This drawing represents design intent but the final built layout is subject to coordination by the architect.
2. This drawing is to be read in conjunction with all Electrical, Mechanical, Public Health, Structural and Architectural drawings.
3. Refer to schematics for ductwork sizes, pipework sizes and volume flow rates.
4. All ductwork terminating in dampers or open ends must be finished with 60% free area insect mesh with maximum hole size 1mm unless otherwise specified.

Issue	Date	By	Chkd	Appd
C1	26/08/11	RW	AD	AS
	Construction			
T4	13/05/11	MO	AD	AS
	Tender Addendum			
T3	17/03/11	MO	AD	AS
	Tender			
T2	24/02/11	MO	AD	AS
	Tender			
T1	28/01/11	MO	AD	AS
	For Information			
01	20/08/10	TB	AD	AS
	Stage E			

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Client
The British Museum

Job Title
British Museum
World Conservation and Exhibitions Centre

Key Plan

Drawing Title
Mechanical Services
Level 1 Layout
Sheet A

Scale at A0 1:50
Discipline Mechanical
Job No 124020
Drawing Status Construction
Drawing No ARUP-50-DR-010A
Issue C1

Do not scale
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