

Male WC's - HRU Section

1:50

Fresh air Intake ductwork shall penetrate through Female WC roof complete with roof cowl.

HRU01 located within CV of female WC's.

0300
Return Air

Female WC's - HRU Section

1:50

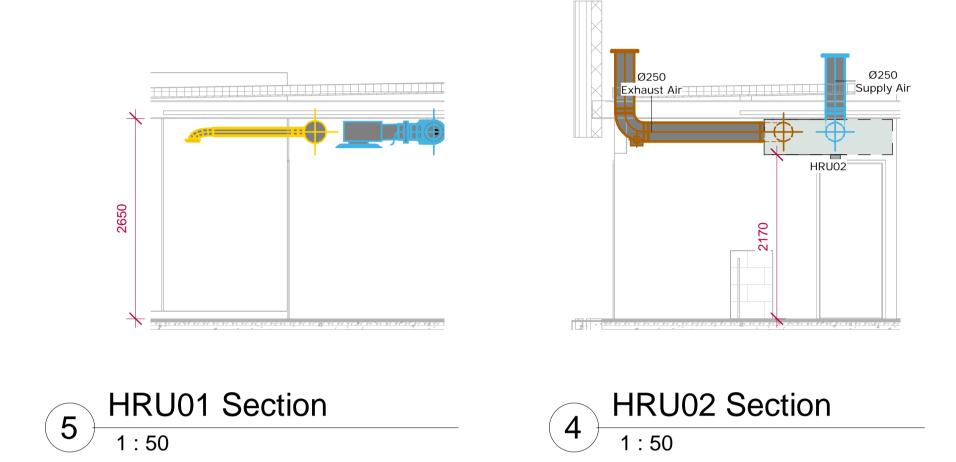
Manufacturer

Model

Systemair TSO-F-250-600-()+THOR-200-250

Systemair TSO-F-250-600-()+THOR-200-250

EFF-100-SW



Extract Fan Schedule - B7

Ref Manufacturer Model Flow Rate [I/s] External Static Pressure [Pa] Weight [kg] Controls

EF01 Vent Axia Silhouette 100 20 N/A 0.6 PIR

Ref	Manufacturer	Model	Supply Flow Rate [I/s]	Extract Flow Rate [I/s]	External Static Pressure [Pa]	Noise [dBa]	Weight [kg]	Dimensions [mm][Wx
HRU01	Mitsubishi Electric Corporation	LGH-100RVS-E	240	240	190	37	73	1185x1224x465
HRU02	Mitsubishi Electric Corporation	LGH-80RVS-E	160	165	96	36	63	1185x997x465
Air Terminal Schedule - B7								

15.0 L/s

120.0 L/s

Pressure Drop

28.4 Pa

20.0 Pa

Heat Recovery Unit Schedule - B7

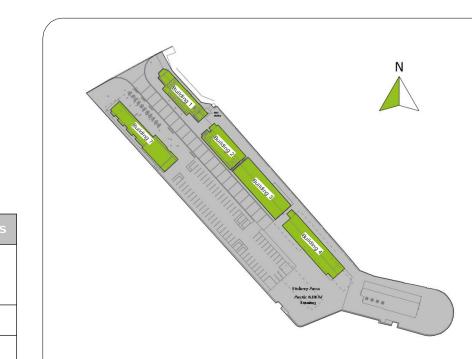
Roof Cowl
Apron/Flashing
Flat roof finish
Extract/Supply ductwork

2 - Concept Design

3 - Spatial Coordination

5 - Manufacturing and Construction

4 - Technical Design



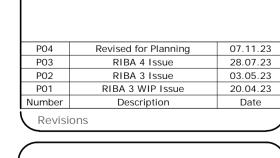
This drawing represents the design intent & strategy. It is neither an installation nor a co-ordination drawing. All ductwork, heat recovery units and fans shall be securely fixed to the building structure with the use of a proprietary bracketing system. Volume control dampers shall be provided to ductwork branches as indicated. All ductwork shall be galvanised mild steel and all legs shall be insulated in 25mm All ventilation systems shall be fully commissioned upon completion. Access doors shall be installed adjacent to every fire damper and serviceable component Fire stopping shall be provided where services penetrate through new and existing firewalls. The contractor shall refer to the fire strategy drawings and documents The contractor shall co-ordinate with the building fabric/structure and other trades. All ductwork shall be designed, manufactured in accordance with BESA (Building & Engineering Services Association.) Ductwork specification DW144. Fire dampers and smoke dampers shall be installed in all fire wall to suit the level of fire compartmentation requirements in line with the fire strategy drawings and documents. Access panels shall be installed in accordance with the damper manufacturer requirements for access and maintenance. All grilles and diffusers shall be installed c/w VCD's and plenum box. All grilles and diffusers shall be independently supported where necessary. All MVHR units shall be installed with adequate maintenance access. All positions of ceiling mounted equipment shall be co-ordinated to suit the architects ceiling layout & M&E <u>Legend:</u> VCD Volume Control Damper FD Fire Damper EG-- Extract Grille SG-- Supply Grille EV-- Extract Valve

The contractor shall examine the drawings and visit site before the works commence to ascertain all local conditions/restrictions likely to affect the execution of the works. No claims arising from failure to do so will be considered. This drawing is to be read in conjunction with all accompanying M&E services

drawings, specifications and schedules.
Do not scale from this drawing.
Dimensions are in millimetres unless

stated otherwise.

Legend:
VCD Volume Control Damper
FD Fire Damper
EG-- Extract Grille
SG-- Supply Grille
EV-- Extract Valve
EF-- Extract Fan
HRU-- Heat Recovery Unit
Supply Ductwork
Return Ductwork
Fresh Air Inlet Ductwork
Exhaust Ductwork
Natural Ventilation







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P04