



BLOCK 14 B CENTRAL UPPER.

EQUIPMENT SCHEDULE - Hide Away Units							
Symbols: MCA: Minimum Circuit Amps; FLA: Full Load Amps; IFM: Indoor Fan Motor; Output: Fan Motor Rated Output							
ITEM	DESCRIPTION	AREA / LOCATION	QTY	COOLING CAPACITY (kW)	POWER SUPPLY	SIZE - Indoor Unit (HWD) (mm)	WEIGHT (kg)
HW-01	Hide Away Unit (Ceiling Concealed)			2.8 kW	220-240V / 50Hz: Max 254V & Min 198V, MCA = 0.59A, IFM: Output = 0.098kW, FLA = 0.47A	292x790x700	19
HW-02	Hide Away Unit (Ceiling Concealed)			3.6 kW	220-240V / 50Hz: Max 254V & Min 198V, MCA = 0.59A, IFM: Output = 0.098kW, FLA = 0.47A	292x790x700	20
HW-03	Hide Away Unit (Ceiling Concealed)			4.5 kW	220-240V / 50Hz: Max 254V & Min 198V, MCA = 1.21A, IFM: Output = 0.098kW, FLA = 0.97A	380x690x600	44
HW-04	Hide Away Unit (Ceiling Concealed)			5.6 kW	220-240V / 50Hz: Max 254V & Min 198V, MCA = 1.21A, IFM: Output = 0.098kW, FLA = 0.97A	380x690x600	45
HW-05	Hide Away Unit (Ceiling Concealed)			7.1 kW	220-240V / 50Hz: Max 254V & Min 198V, MCA = 1.49A, IFM: Output = 0.12kW, FLA = 1.19A	380x690x600	45
HW-06	Hide Away Unit (Ceiling Concealed)			11.2 kW	220-240V / 50Hz: Max 254V & Min 198V, MCA = 0.48A, IFM: Output = 0.098kW, FLA = 0.37A	380x1200x900	70
Outdoor Units							

**Notes:**

This drawing is not to be used as a construction/installation drawing. Routes and zones have been allocated to this service, location dimensions are indicative of these.

To prepare his construction/installation drawing, the subcontractor must adhere to the co-ordination principle and must respect all the architect's drawings, including structural and other services' design drawings pertaining to the works shall occupy himself with the general arrangement of all other service and ensure that in doing his work it will not obstruct the fixing of future maintenance of other services.

The subcontractor is responsible for correct field dimensions, clearances and heights, quantities, fabrication processes and techniques of construction co-ordination of his work with that of all other trades, providing all services necessary for safe and satisfactory delivery of the system, typical weight including all typical details as well as the legend can be read off drawing number MA-105.

- All installation should be carried out as per Part IV of the tender specification.
- Duct sizes shown are sheet metal sizes.
- All ducting to be manufactured & installed in accordance with the SANP standards.
- All A/C ducts to be fitted with metal grid platform on floors with access door.
- All exposed ducting to be painted to an approved colour.
- All take-offs from supply & exhaust air ducting to be 45° boots.
- AC equipment to be fitted with anti-vibration mountings as per specification.
- HVAC contractor to ensure that all condensate drains are trapped and slope adequately. All drains to be tested for leaks and operation.
- All ducting to be flat on top and installed hard-up to the underside of the slab above.
- HVAC Contractor is responsible for connecting the condensate drain to the drain stack or the nearest drain. The connection must be a solid connection to prevent leakage.
- Thermistor positions are provisional. Final positions shall be determined on site in conjunction with Client/Engineer. Where full height partitioning is not available for mounting the thermistor, it must be mounted on the brick wall.
- All refrigerant piping, electrical and control wiring between indoor and units must run in trunking/on cable trays with cover plate securely fitted against wall.
- Condenser must be mounted on galvanneal cantilever frame.
- All supply air ducting must be externally insulated.
- All BMS wiring must be installed in PVC conduit by BMS contractor.

**DIVISION OF WORK**

Work by Main Contractor

- Openings in doors for door grilles.
- Openings in ceiling for air terminals and/or fans.
- Working in structure complete with timber frames (in non-fire rating) and making good after installation of HVAC equipment.
- Concrete bases for fan sets, etc.
- Enclosure around intake openings.
- Metal grid platform in AC shafts.
- Building of grid service of fire dampers.

Work by Electrical Subcontractor

- Power supply terminating in Distribution boards.
- Heater interlocking solenoid with the air pressure switch.
- Stop/Start interlocking of exhaust fans.
- Fire interlocking signal to each A/CU.

Work by Plumbing Subcontractor

- Fulbore outlets on roof.
- Water outlet points for Chiller Units

Legend	
	Externally insulated supply ducting
	Externally insulated return ducting
	Uninsulated extract ducting
	Chilled extract ducting
	Fresh Air Duct
	600x600 Constant Volume Supply Air diffuser with flow rate.
	432 galvanneal condensate/drain piping
	Refrigerant piping
	Duct stop end
	Single phase isolator by electrician
	Three phase isolator by electrician
	Ceiling cassette with Cooling capacity
	Fire damper with fusible link
	Under Cut door (25mm)
	Door Grille with size and flow rate
	Disc valve with flow rate
	Return Air Grille (600x600) with flow rate
	Variable refrigerant Volume Condensers (VRV-2)
	Mid wall unit
	Hide Away (Concealed) Unit
	Axial Fan
	Sound Attenuator (1.50)
	Weather Louvre with size and flow rate
	Condenser
	Supply Air diffuser with
	Extract Air Grille

REVISIONS		
TD	03.10.25	ISSUED FOR TENDER
A	26.03.25	ISSUED FOR INFORMATION
Rev No.	DATE	DESCRIPTION

CLIENT

NATIONAL HEALTH LABORATORY SERVICE

CONSULTING

**POTENT**  
Engineering Projects

Project: **NHLS BLOCK 14**

Master plan reference: **BLOCK 14 B**

Drawing: **CENTRAL UPPER PLAN**

Status: **TENDER**

Drawn by:	T.M.	
Designed by:	J.M.	
Checked by:	M.M.	Pr no: 201900046
Signature	Date	
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