

EQUIPMENT SCHEDULE							
ITEM	DESCRIPTION	AREA / LOCATION	QTY	COOLING CAPACITY (kW)	POWER SUPPLY	SIZE - Indoor Unit (LWH) (mm)	WEIGHT (kg)
AHU-01	Air Handling Unit		1	75	415/3/50+N-E	2590x2350x2020	2053

#### 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 process and must respect all the architect's drawings, including structural and other services' design drawings pertaining to the works shall occupy lowest with the general arrangement of all other services 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, installation processes and techniques of construction co-ordination of his work with that of all other trades, providing all devices necessary for safe and satisfactory completion of all other services, typical weight including all typical details as well as the legend can be read off drawing number MA-107.

- 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 SANS standards.
- All A/C units 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 drains to the drain stack or the nearest drain. The connection must be a solid connection to prevent leakage.
- Thermal insulation on pressure. Final positions shall be determined on site in conjunction with Client/Engineer. Where full height ceilinging is not suitable for mounting the thermostat, it must be mounted on the brick wall. Mounting the thermostat, it must be mounted on the brick wall. Mounting the thermostat, it must be mounted on the brick wall. Mounting the thermostat, it must be mounted on the brick wall.
- All refrigerant piping, electrical and control wiring between indoor and units must run in trunking/cable trays with cover plate securely fitted against wall.
- Condenser must be mounted on galvanised condenser 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.
  - Openings in mounting brackets with timber frames (in non-fire walls) and making good after installation of HVAC equipment.
  - Concrete bases for fan sets etc.
  - Enclosures around rmc openings.
  - Metal grid platform in AC shafts.
  - Building air sealant, of the dampers.
- Work by Electrical Subcontractor
- Power supply terminating in Distribution boards.
  - Heater interlocking safeties with the air pressure switch.
  - Stop/Start interlocking of toilet exhaust fans.
  - Fire interlocking signal to each AHU.
- Work by Plumbing Subcontractor
- Fulmore outlets on roof.
  - Water outlet points for Chiller Units.

#### Legend

- Externally insulated supply ducting
- Externally insulated return ducting
- Uninsulated extract ducting
- Cladded extract ducting
- Fresh Air Duct
- 600x600 Constant Volume Supply Air diffuser with flow rate
- 432 galvanised 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
- 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

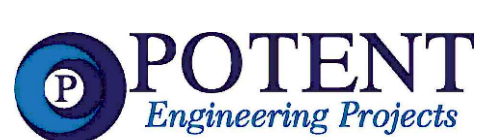
#### REVISIONS

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

#### CLIENT



#### CONSULTING



#### Project:

NHLS BLOCK 14

#### Master plan reference:

BLOCK 14 C

#### Drawing:

SOUTH ROOF PLAN

#### Status:

TENDER

#### Drawn by:

T.M.

#### Designed by:

J.M.

#### Checked by:

M.M.

Pr no: 201800046

#### Signature

Date

#### Scale:

1:50

#### Date:

FEB-2025

#### Drawing No:

P2407-MA-107

Revision No.:

TD