

KEY

1. THIS LAYOUT SHALL BE READ IN CONJUNCTION WITH ALL OTHER LAYOUTS, MECHANICAL, ELECTRICAL, ARCHITECTURAL & STRUCTURAL.
2. THIS LAYOUT SHALL BE READ IN CONJUNCTION WITH THE MECHANICAL SPECIFICATION.
3. THE LAYOUT SHOWS AN INTENT/PROPOSAL, THE CONTRACTS OBLIGATION AND DESIGN RESPONSIBILITY ARE DEFINED IN THE SPECIFICATION.
4. ALLOW TO OFFSET DUCTWORK WHEREVER DUCTWORK PASSES THROUGH WALLS, CEILINGS OR FLOORS TO ALLOW FOR POSSIBLE STRUCTURAL OBSTRUCTIONS.
5. FIRE DAMPERS TO BE PROVIDED WHEREVER DUCTWORK PASSES THROUGH FIRE BARRIERS.
6. ALL FIRE DAMPERS TO BE PROVIDED WITH ACCESS DOORS TO BE ACCESSIBLE TO BE SITED IN DUCTWORK IN ACCESSIBLE LOCATIONS. ACCESS TO FIRE DAMPERS IN DUCTWORK 1500 AND LESS TO BE VIA REMOVABLE SECTIONS OF DUCTWORK.
7. BALANCE DAMPERS TO BE PROVIDED AT ALL BRANCH CONNECTIONS.
8. DUCTWORK TYPE MATERIALS, CONSTRUCTION, INSTALLATION ALL TO COMPLY WITH DW144 & ALL CURRENT AMENDMENTS.
9. ALL SUPPLY DUCTWORK TO BE THERMALLY INSULATED.
10. ALL EXTRACT DUCTWORK (WHERE SERVICE IS USED FOR HEAT RECOVERY) TO BE THERMALLY INSULATED.
11. CONTRACTOR TO INCLUDE FOR ALL STEELWORK & BRACKETS TO SUPPORT PLANT & DUCTWORK.
12. ALL DUCTWORK, DIFFUSERS, GRILLES & LOUVRES ETC. TO BE COORDINATED WITH ALL OTHER SERVICES, STRUCTURAL & ARCHITECTURAL LAYOUTS.
13. ALL DUCTWORK TO BE PROVIDED WITH IDENTIFICATION TO COMPLY WITH BS & CURRENT AMENDMENTS.
14. ALL DUCT SIZES, FLOW RATES, VELOCITIES AND PERFORMANCE CRITERIA BASED ON CIRCULAR. THE CONTRACTOR MAY RECONFIGURE THE DUCTS TO SUIT SITE CONDITIONS - HOWEVER THE CHANGES SHALL NOT ALTER THE PERFORMANCE CRITERIA.
15. UNITS AND PIPEWORK ARE ISOLATED FROM THE BUILDING WITH ANTI-VIBRATION MOUNTS / RESILIENT PIPE MOUNTS, AND FLEXIBLE COUPLINGS FITTED BETWEEN THE UNIT AND PIPEWORK.

Client

Project

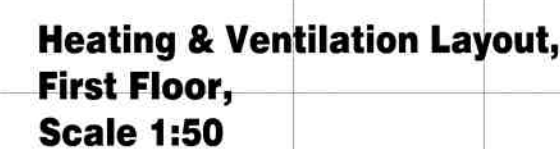
DESFORD
HIGH STREET, LE9 9JF

Drawing Title

FIRST FLOOR MECHANICAL SERVICES
AC & VENTILATION LAYOUT



Scale	Date	Drawn By	Checked
1:50 @ A1	SEP 2023	JK	DB
Project No.		Drawing No.	Revision
9824		M02	P5



CE COOP Desford – AIR CONDITIONING UNITS SCHEDULE										
Ref No	Location			Manufacturer	Model	Description	Cooling Capacity [kW]	Heating Capacity [kW]	SPL [dB(A)]	Power Supply
AC06	ROOF	PLANT	AREA	MITSUBISHI ELECTRIC	PUZ–M200YKA2	twín–split	4.32(input)	5.34(input)	60	380v, 50Hz
AC07	ROOF	PLANT	AREA	MITSUBISHI ELECTRIC	PUZ–M200YKA2	twín–split	4.32(input)	5.34(input)	60	380v, 50Hz
AC08	ROOF	PLANT	AREA	MITSUBISHI ELECTRIC	PUZ–M100VKA2	split	1.99(input)	2.41(input)	54	220v, 50Hz

The diagram illustrates the components of a mechanical extraction system. It includes a FAN/HEATER CONTROLLER, a SUPPLY DIFFUSER AND FLEXIBLE DUCT CONNECTION, an EXTRACT DIFFUSER AND FLEXIBLE DUCT CONNECTION, a BALANCE DAMPER, an ACCESS DOOR, a FIRE DAMPER, a FAN, a WALL MOUNTED EXTRACT FAN, and an ACCESS HATCH. Each component is represented by a specific symbol and labeled with its function.

DUCT SIZING KEY

VOLUME	VELOCITY
Pa/m	Ø Size