



## **Description of operations**

### **Air Handling Units Mezzanine floor**

#### **Job number 97359**

**AHU Type 1 drawing ref. no. 97359/011**  
**Software listed as DANTYPE4**

#### **1.0 Plant Description**

The plant consists of one Air Handling unit with one return air sensor. One 4 port heating valve and one 4 port cooling valve  
This description is typical for the following terminal units.  
FCU M-AHU-1-2 &3

#### **2.0 Start up**

The unit will be enabled from the floor zone optimum start routine resident in the NCU controlling the floor (NCU 11). Or via a manual start command from any of the workstations resident on the LAN. Any enable command will energise relay R1 within the AHU control box switching 240V onto the fan .

#### **3.0 Control**

Temperature will be controlled via the TC9102 Resident at the terminal unit. This will modulate the heating and cooling valves to achieve setpoint this setpoint is fully adjustable from any of the Workstations on the LAN. A temperature sensor type RS-9140-0000 is mounted within the AHU cupboard. As the return temperature within the AHU housing rises above the setpoint the cooling valve shall be driven open. As the temperature goes down the cooling valve shall close . Should the temperature go below the setpoint the heating valve is opened, as the temperature rises the valve shall close. Both valves will modulate to achieve setpoint.

#### **4.0 Fire Alarm**

On receipt of the fire signal all units will be disabled until a return to normal. Via a command sent over the network.