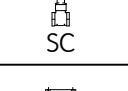
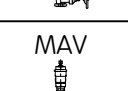
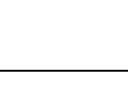
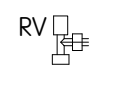
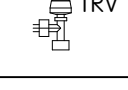
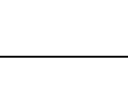
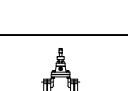
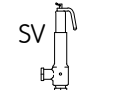
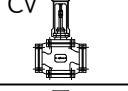
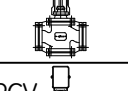
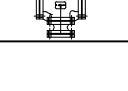
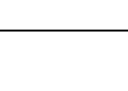
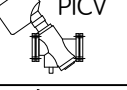
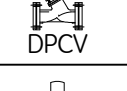
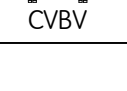
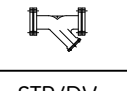
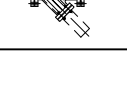
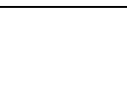
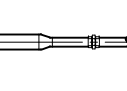
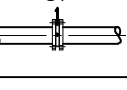
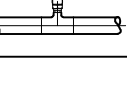
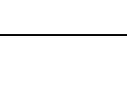
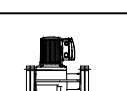
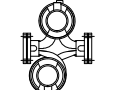
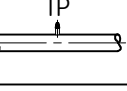
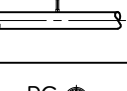
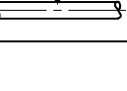
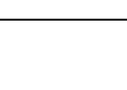
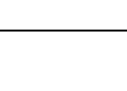


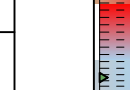
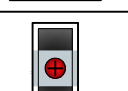
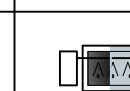
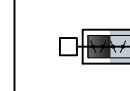
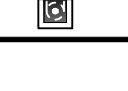
| Ductwork Layers                                                                   |                                   |
|-----------------------------------------------------------------------------------|-----------------------------------|
| Reference                                                                         | Description                       |
|  | Intake duct                       |
|  | Supply duct                       |
|  | Secondary supply duct             |
|  | Exhaust duct/Kitchen extract duct |
|  | Extract duct                      |
|  | Toilet extract duct               |
|  | Smoke extract duct                |
|  | Flue duct                         |

| Pipework Layers                                                                   |                                           |
|-----------------------------------------------------------------------------------|-------------------------------------------|
| Reference                                                                         | Description                               |
|  | Low temperature hot water flow pipe       |
|  | Low temperature hot water return pipe     |
|  | Chilled water / Refrigeration flow pipe   |
|  | Chilled water / Refrigeration return pipe |
|  | Condenser water flow pipe                 |
|  | Condenser water return pipe               |
|  | Gas pipe                                  |
|  | Condensate pipe                           |

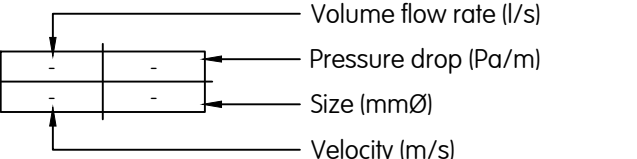
| Pipework & associated equipment                                                       |                                                |
|---------------------------------------------------------------------------------------|------------------------------------------------|
| Reference                                                                             | Description                                    |
|    | Isolating valve                                |
|    | Needle valve                                   |
|    | Stop cock                                      |
|    | Non-return valve                               |
|    | Double check valve                             |
|    | Manual air vent                                |
|    | Ball valve                                     |
|    | 3-Way gland cock                               |
|    | Blending valve                                 |
|    | Diverting valve                                |
|    | Regulating valve                               |
|   | Double regulating valve                        |
|  | Commissioning station                          |
|  | Radiator valve (handwheel) (Angle pattern)     |
|  | Thermostatic radiator valve (Angle pattern)    |
|  | Thermostatic radiator valve (Straight pattern) |
|  | Radiator valve (lockshield) (Angle pattern)    |
|  | Radiator valve (lockshield) (Straight pattern) |
|  | Pressure reducing valve                        |
|  | Spring type safety valve                       |
|  | Motorised butterfly valve                      |
|  | 2-Port motorised control valve                 |
|  | 3-Port motorised control valve                 |
|  | 4-Port motorised control valve                 |
|  | Gas cock                                       |
|  | Gas plug valve                                 |
|  | Gas solenoid valve                             |

| Pipework & associated equipment                                                       |                                                |
|---------------------------------------------------------------------------------------|------------------------------------------------|
| Reference                                                                             | Description                                    |
|    | Meter                                          |
|    | Pressure independent control valve             |
|    | Differential pressure control valve            |
|    | Constant volume bypass valve                   |
|    | Automatic flow measuring device                |
|    | Automatic balancing valve                      |
|    | Automatic flow valve                           |
|    | Drain off cock                                 |
|    | Strainer                                       |
|    | Strainer with drain valve                      |
|    | Hose union draincock                           |
|   | Flexible connection                            |
|  | Non-return valve (wafer type)                  |
|  | Union and reducer                              |
|  | Orifice plate (measuring station)              |
|  | Automatic air vent                             |
|  | Air bottle with manual vent                    |
|  | Air purger (separator) with automatic air vent |
|  | Circulator                                     |
|  | Twin head pump                                 |
|  | Universal test point                           |
|  | Temperature gauge                              |
|  | Pressure gauge                                 |
|  | Differential pressure gauge                    |
|  | Differential pressure switch                   |
|  | Pressure switch                                |

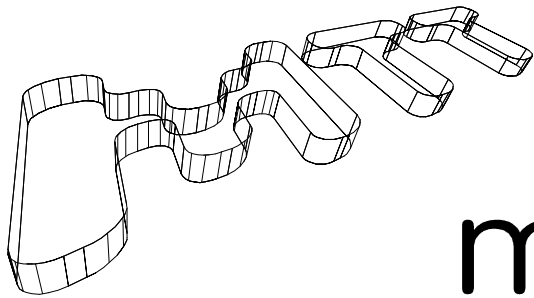
| Control elements                                                                    |                                                            |
|-------------------------------------------------------------------------------------|------------------------------------------------------------|
| Reference                                                                           | Description                                                |
|  | Controller                                                 |
|  | Meter                                                      |
|  | Temperature sensor or thermostat to suit control equipment |
|  | Control line/signal                                        |
|  | Pressure sensor                                            |
|  | Humidity sensor or humidistat to suit control equipment    |
|  | Flow switch                                                |
|  | Electro thermal link                                       |
|  | Manual emergency knock-off button                          |

| Schematic Air Handling Plant                                                          |                         |                                                                                       |                                |
|---------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------|--------------------------------|
|    | Moisture eliminator     |    | Centrifugal fan                |
|    | Bag filter              |    | Plate heat exchanger           |
|  | Panel filter            |  | Thermal wheel                  |
|  | Fan                     |  | Humidifier                     |
|  | Twin fan                |  | Motorised opposed blade damper |
|  | Heating coil            |  | Back draught damper            |
|  | Cooling coil            |  | Attenuator                     |
|  | DX heating/cooling coil |                                                                                       |                                |
|  | Access                  |                                                                                       |                                |
|  | Roll filter             |                                                                                       |                                |

| Abbreviation references |                            |      |                                           |
|-------------------------|----------------------------|------|-------------------------------------------|
| AAV                     | Automatic air vent         | IV   | Isolating valve                           |
| AHU                     | Air handling unit          | LL   | Low level                                 |
| AP                      | Access panel               | LSV  | Lockshield valve                          |
| ATT                     | Attenuator                 | LTHW | Low temperature hot water                 |
| BCB                     | BC Box                     | LV   | Louvre                                    |
| BCWS                    | Boosted cold water service | MCC  | Motor control centre                      |
| BDD                     | Back draught damper        | MD   | Motorised damper                          |
| BLR                     | Boiler                     | MEV  | Mechanical extract ventilation            |
| BOD                     | Bottom of duct             | ML   | Mid level                                 |
| C                       | Controller                 | MVHR | Mechanical ventilation with heat recovery |
| CAV                     | Constant air volume        | NC   | Normally closed                           |
| CC                      | Cooling coil               | NO   | Normally open                             |
| CHB                     | Chilled beam               | NRV  | Non return valve                          |
| CHC                     | Chilled ceiling            | OBD  | Opposed blade damper                      |
| CHP                     | Combined heat and power    | OV   | Open vent                                 |
| CH                      | Chiller                    | P    | Pump set                                  |
| CHW                     | Chilled water              | PRV  | Pressure reducing/regulating valve        |
| CON                     | Condenser                  | PU   | Pressurisation unit                       |
| CP                      | Control panel              | PHX  | Plate heat exchanger                      |
| CV                      | Control valve              | RAD  | Radiator                                  |
| CWS                     | Cold water supply          | SC   | Stop cock                                 |
| DC                      | Drain cock                 | SF   | Supply fan                                |
| DRV                     | Double regulating valve    | SG   | Supply grille                             |
| DFU                     | Downflow unit              | SSL  | Structural slab level                     |
| EF                      | Extract fan                | STR  | Strainer                                  |
| EG                      | Extract grille             | SV   | Safety valve                              |
| EH                      | Electric heater            | TA   | To above                                  |
| EHB                     | Electric heater battery    | TB   | To below                                  |
| EV                      | Expansion vessel           | TES  | Thermal energy store                      |
| FA                      | From above                 | TFR  | Transformer                               |
| FB                      | From below                 | TG   | Transfer grille                           |
| FCU                     | Fan coil unit              | TK   | Tank                                      |
| FD                      | Fire damper                | TS   | Temperature sensor                        |
| FFL                     | Finished floor level       | UFH  | Underfloor heating                        |
| FT                      | Fan tile                   | VAV  | Variable air volume                       |
| GEN                     | Generator                  | VCD  | Volume control damper                     |
| GC                      | Gas cock                   | WP   | Weatherproof                              |
| HC                      | Heating coil               |      |                                           |
| HIU                     | Heat interface unit        |      |                                           |
| HL                      | High level                 |      |                                           |
| HRU                     | Heat recovery unit         |      |                                           |
| HWC                     | Hot water cylinder         |      |                                           |
| HWS                     | Hot water service          |      |                                           |

| General                                                                               |                                                                                |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Reference                                                                             | Description                                                                    |
|  | Reference number                                                               |
|  | Section reference                                                              |
|  | Demarcation between drawings                                                   |
|  | Volume flow rate (l/s)<br>Pressure drop (Pa/m)<br>Size (mmØ)<br>Velocity (m/s) |

|                                                                                                                                                                                                                                                                                                                       |            |               |       |         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|-------|---------|--|
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Camden Goods Yard  
Mechanical Services  
Legend Of Symbols

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Revision P1

