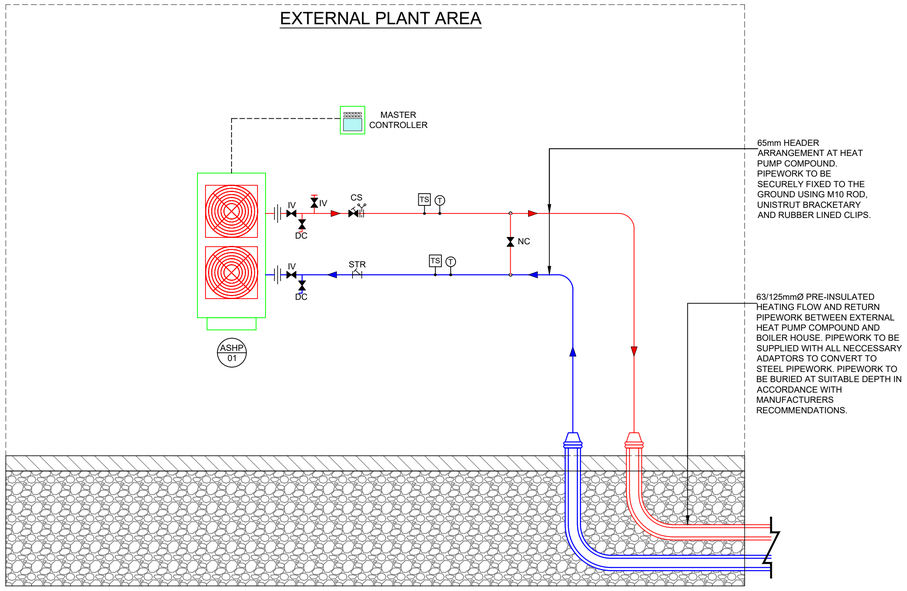
THIS DRAWING IS FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCING WORKING DRAWINGS




## AIR TO WATER HEAT PUMP SCHEDULE

| ITEM | MAKE/MODEL | NOMINAL HEATING CAPACITY (EN14511) | SIZE | SCOP @ NOMINAL OUTPUT | DESIGN TEMPERATURES | REFRIGERANT | COMPRESSOR TYPE | POWER SUPPLY | NOTES: |
|---|---|---|---|---|---|---|---|---|---|
| ASHP 01 | HIGH TEMPERATURE AIR SOURCE HEAT PUMP. | 32.8W | 2200X1130X2136 LXWXH | 3.95 | 55°C FLOW TEMPERATURE @ A7 / W55 | R290 | SCROLL | 400/3ph/50Hz | ASHP TO BE SUPPLIED WITH MASTER/SLAVE CONTROLLER TO ENABLE STEPPED PERFORMANCE c/w ALL PIPE FITTINGS, PUMPS AND FINAL CONNECTORS. HEAT PUMPS TO BE PROVIDED WITH INTEGRAL HYDRAULIC CONNECTOR KIT WITH FLANGED CONNECTION FOR HEATING FLOW AND RETURN. |

## BUFFER VESSEL SCHEDULE

| ITEM | MAKE/MODEL | CAPACITY: | PRESSURE RATING | SIZE: | NOTES: |
|---|---|---|---|---|---|
| BFF 01 | 600 LITRE BUFFER VESSEL SUITABLE FOR LARGE VOLUME STORAGE OF HOT WATER | 600 LITRES | 3 Bar | 2030mmH x 800mmØ | PRE INSULATED - FACTORY FITTED. SENSOR POCKETS TO BE PROVIDED ALONG THE VERTICAL FACE OF THE BUFFER VESSEL FOR TEMPERATURE MONITORING. |

PUMP SCHEDULE

| ITEM | CIRCUIT | DUTY | STATIC HEAD | TYPE | POWER | CONTROLS |
|---|---|---|---|---|---|---|
| PMP01 | HEATING PRIMARY CIRCUIT | 6.0 l/s | 50 KPa | TWIN HEAD INLINE | 230V/1ph/50Hz | VARIABLE SPEED PUMP c/w DIFFERENTIAL PRESSURE CONTROLS & BACNET BMS LINK |

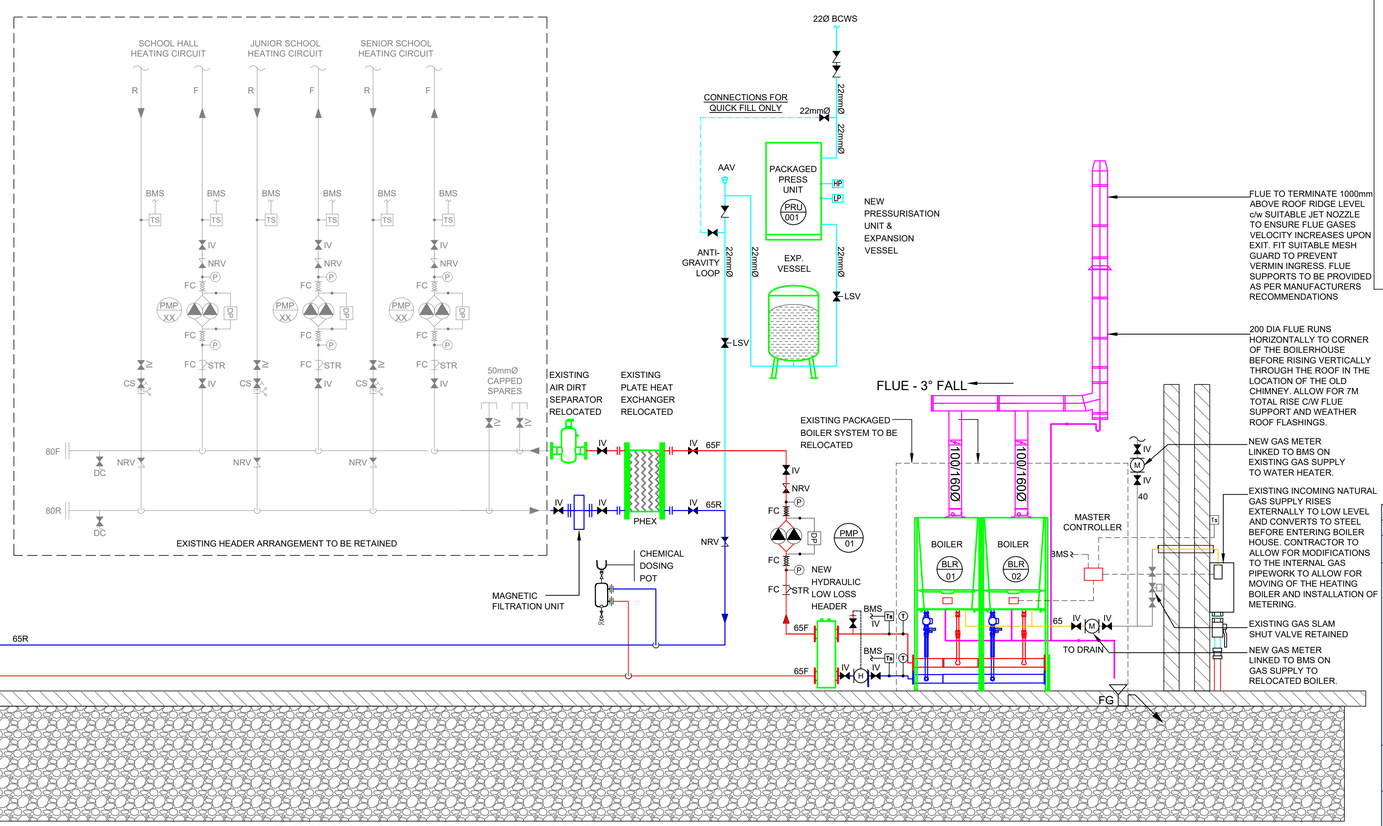
PRESSURISATION UNIT & EXPANSION SCHEDULE

| ITEM | TYPE | VESSEL CAPACITY | VESSEL DIAMETER |
|---|---|---|---|
| PRU001 | WALL MOUNTED MICRO FILL UNIT WITH FLOOR STANDING EXPANSION VESSEL | 250 LITRE | 600MM MAX |

LTHW HEATING LEGEND

- ISOLATION VALVE
- NON RETURN CHECK VALVE
- DOUBLE REGULATING VALVE
- COMMISSIONING VALVE
- COMMISSIONING SET
- THREE PORT CONTROL VALVE
- THREE PORT VALVE
- TWO PORT CONTROL VALVE
- ANGLE PRESSURE RELIEF SAFETY VALVE
- MEASURING STATION
- LOCKSHIELD VALVE
- DEADWEIGHT VALVE
- PRESSURE RELIEF SAFETY VALVE
- PRESSURE INDEPENDENT CONTROL VALVE
- DIFFERENTIAL PRESSURE VALVE
- DIFFERENTIAL PRESSURE VALVE C/W TWO PORT CONTROL
- ANGLE VALVE
- STRAINER
- FLEXIBLE CONNECTION
- ANCHOR POINT
- EXPANSION GUIDE
- EXPANSION BELLOWS
- DRAINCOCK C/W HOSE UNION
- HEAT METER
- METER
- SINGLE PUMP
- TWIN PUMP
- DIFFERENTIAL PRESSURE SENSOR
- TEMPERATURE GAUGE
- TEMPERATURE SENSOR
- PRESSURE GAUGE
- PRESSURE SENSOR
- ROOM SENSOR
- AUTOMATIC AIR VENT
- MANUAL AIR VENT
- PIPEWORK AT LOW LEVEL
- PIPEWORK AT HIGH LEVEL
- PIPEWORK IN CEILING VOID
- PIPEWORK UNDER FLOOR
- HEATING FLOW PIPEWORK SERVING GF
- HEATING RETURN PIPEWORK SERVING GF
- HEATING FLOW PIPEWORK SERVING FF
- HEATING RETURN PIPEWORK SERVING FF
- HEATING FLOW/RETURN PIPEWORK SERVING CIRCULATION
- HEATING FLOW/RETURN PIPEWORK CONSTANT TEMP

| | |
|---|---|
| LPHW | LOW PRESSURE HOT WATER |
| MPHW | MEDIUM PRESSURE HOT WATER |
| HPHW | HIGH PRESSURE HOT WATER |
| VTC | VARIABLE TEMPERATURE CIRCUIT |
| CTC | CONSTANT TEMPERATURE CIRCUIT |
| DTA | DROPS TO ABOVE |
| DTB | DROPS TO BELOW |
| RTA | RISES TO ABOVE |
| RFB | RISES FROM BELOW |
| C/V | CEILING VOID |
| H/L | HIGH LEVEL |
| L/L | LOW LEVEL |




# BOILERHOUSE SCHEMATIC

| REV | DESCRIPTION | DRN | CKD | DATE |
|---|---|---|---|---|
| T01 | TENDER ISSUE | SK | SF | 08-05-2026 |

ISSUE: TENDER STAGE


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PROJECT TITLE: SCHOOLS ENERGY PATHFINDER - 8.1 Scoil Na Rithe

DRAWING TITLE: BOILERHOUSE HEATING SCHEMATIC

| DRAWING REFERENCE | DRN | SCALE |
|---|---|---|
| 3232-SMK-8.1-ZZ-SC-M-5601 (Project / Originator / Volume / Level / Type / Role / Number) | SK | NTS @ A1 |