| HEAT PUMP |
|---|
| MAX HEATING PRESSURE: 3 Barg |
| MAX HEATING TEMPERATURE: 75 °C |
| MAX HEATING CAPACITY: 8 kW |
| MODEL: WPL-A 07 HK 230 PREMIUM |

| CIRCULATION PUMP |
|---|
| MAX FLOWRATE: 4.0 m3/h |
| HEAD: 8.4 m |
| POWER: 230 VAC / 50Hz |
| MODEL: UP 25/7.5 PCV |

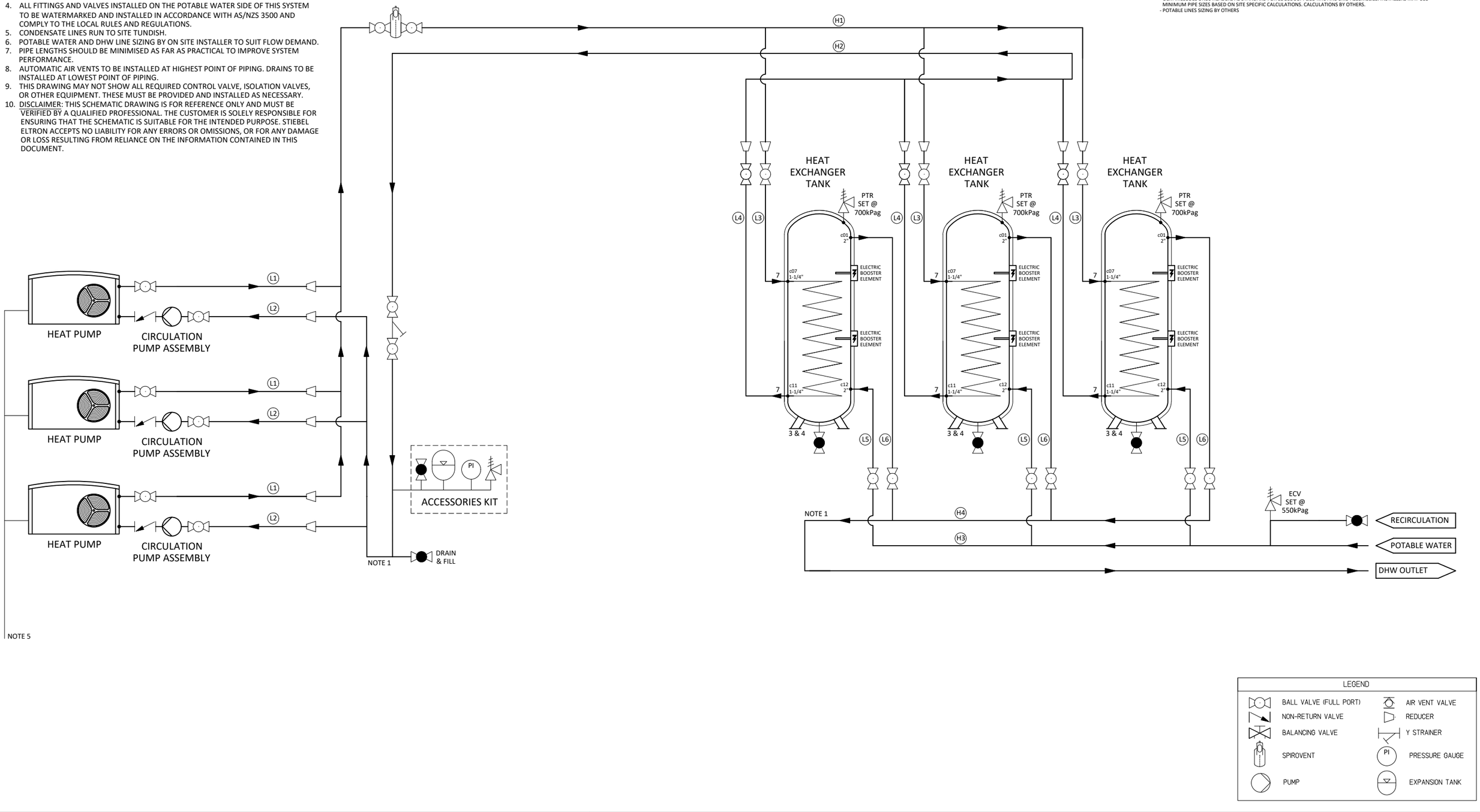
| HEAT EXCHANGER TANK |
|---|
| MAX OPERATING PRESSURE: 7.5 Barg |
| MAX OPERATING TEMPERATURE: 90 °C |
| VOLUME: 829 L NOMINAL |
| MODEL: SCE 800 WP |

| PIPE SIZING SCHEDULE | | | |
|---|---|---|---|
| LINE | DESCRIPTION | MIN SIZE Ø | OEM SIZE Ø |
| H1 | HEAT PUMP FLOW HEADER | DN40 | DN50 |
| H2 | HEAT PUMP RETURN HEADER | DN40 | DN50 |
| H3 | POTABLE WATER HEADER | - | - |
| H4 | DHW HEADER | - | - |
| L1 | HEAT PUMP FLOW LINE | DN25 | DN25 |
| L2 | HEAT PUMP RETURN LINE | DN25 | DN25 |
| L3 | HEAT PUMP TO TANK FLOW | DN32 | DN32 |
| L4 | TANK TO HEAT PUMP RETURN | DN32 | DN32 |
| L5 | POTABLE WATER TO TANK FLOW | - | - |
| L6 | DHW RETURN | - | - |

- ASSUMING SMOOTH COPPER/STAINLESS STEEL DRAWN PIPE
- OEM INCLUDES DN50 HEADERS AS STANDARD FOR LOOSE SUPPLIED KITS AND SKID ASSEMBLIES. INSTALLERS MAY USE MINIMUM PIPE SIZES BASED ON SITE SPECIFIC CALCULATIONS. CALCULATIONS BY OTHERS.
- POTABLE LINES SIZING BY OTHERS

NOTES:

1. PRIMARY AND SECONDARY HEADERS TO BE INSTALLED IN A TICHELLMANN CONFIGURATION FOR EQUAL FLOW THROUGH THE SYSTEM.
2. FOIL BACKED INSULATION TO AS/NZS 4426 TO BE INSTALLED ON ALL PIPING PER NATIONAL CONSTRUCTION CODE AND AS/NZS 3500.
3. ALL ISOLATION VALVES TO BE FULL PORT BALL VALVES TO MINIMISE PRESSURE DROP.
4. ALL FITTINGS AND VALVES INSTALLED ON THE POTABLE WATER SIDE OF THIS SYSTEM TO BE WATERMARKED AND INSTALLED IN ACCORDANCE WITH AS/NZS 3500 AND COMPLY TO THE LOCAL RULES AND REGULATIONS.
5. CONDENSATE LINES RUN TO SITE TUNDISH.
6. POTABLE WATER AND DHW LINE SIZING BY ON SITE INSTALLER TO SUIT FLOW DEMAND.
7. PIPE LENGTHS SHOULD BE MINIMISED AS FAR AS PRACTICAL TO IMPROVE SYSTEM PERFORMANCE.
8. AUTOMATIC AIR VENTS TO BE INSTALLED AT HIGHEST POINT OF PIPING. DRAINS TO BE INSTALLED AT LOWEST POINT OF PIPING.
9. THIS DRAWING MAY NOT SHOW ALL REQUIRED CONTROL VALVE, ISOLATION VALVES, OR OTHER EQUIPMENT. THESE MUST BE PROVIDED AND INSTALLED AS NECESSARY.
10. DISCLAIMER: THIS SCHEMATIC DRAWING IS FOR REFERENCE ONLY AND MUST BE VERIFIED BY A QUALIFIED PROFESSIONAL. THE CUSTOMER IS SOLELY RESPONSIBLE FOR ENSURING THAT THE SCHEMATIC IS SUITABLE FOR THE INTENDED PURPOSE. STIEBEL ELTRON ACCEPTS NO LIABILITY FOR ANY ERRORS OR OMISSIONS, OR FOR ANY DAMAGE OR LOSS RESULTING FROM RELIANCE ON THE INFORMATION CONTAINED IN THIS DOCUMENT.




| LEGEND | |
|---|---|
| BALL VALVE (FULL PORT) | AIR VENT VALVE |
| NON-RETURN VALVE | REDUCER |
| BALANCING VALVE | Y STRAINER |
| SPIROVENT | PRESSURE GAUGE |
| PUMP | EXPANSION TANK |

| REV | DATE | DESCRIPTION | DRN | CHK | APP |
|---|---|---|---|---|---|
| 0 | 5/11/2025 | ISSUED FOR USE | JM | BR | BR |

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETERS
THIRD ANGLE PROJECTION
FABRICATION TOLERANCE: ± 2.0mm
MACHINED TOLERANCE: ± 0.5mm

SIZE: A3 SCALE: N.T.S

TEMPLATE: B0099-DWG-ADM-G-0001



DO NOT SCALE DRAWING

STIEBEL ELTRON

# PIPING & INSTRUMENTATION DIAGRAM
# HOT WATER HEAT PUMP INSTALLATION
# WATER CIRCUIT CMT-33
# STIEBEL ELTRON

DWG No: B1140-DWG-PID-P-0001 | SHEET: 3/6 | REV: 0