Scheme 3: Multiple Boilers with Multiple Split Temperature Heating and Domestic Hot Water Circuit

- Varmax Boiler 1
- Varmax Boiler 2
- Common sensor
- Air separator
- SRV
- Strainer
- Burstock expansion vessel
- Anti-gravity loop
- Chesil pressurisation unit
- Quick fill
- Water meter
- Mains cold water
- Heating pump
- Mixing valve
- Horton dosing pot
- Room sensor
- Heating temp sensor
- NRV
- Primary isolation valve
- VT
- Powerstock calorifier
- Heating circuit 1
- Heating circuit 2
- Heating circuit 3
- High temp
- DHW pump

Legend:

- □: Room sensor
- ■: Heating circuit
- VT: Mixing valve
- ▲: Heating pump
- ○: NRV
- ●: Primary isolation valve
- △: Horton dosing pot
- □: Powerstock calorifier

System Description:

- The scheme depicts a multiple boiler system with split temperature heating and domestic hot water circuit.
- Two Varmax boilers are connected to a common sensor and air separator.
- The system includes anti-gravity loops, pressurisation units, and expansion vessels for leakage prevention.
- Water flow is controlled by valves and mixing valves to achieve desired temperature settings.
- The domestic hot water system is connected to the boilers through a DHW pump and NRV valve.
- A quick fill system is integrated for rapid water supply.
- The overall system is designed to monitor and control temperature and pressure effectively.