

Central Cooling: Expansion P-139

Design of Prefabricated Units for Expansion / Pressure Maintaining as well as Make-up Water for Central Cooling.

PED – Pressure Directive:

Design according to PED and detail design according EN13480.

Design:

P-Engineering designs District Heating and Heating Circulation System:

- PID
- Pipe Design including of Pipe Isometric for fabrication
- Support Structure
- Instrumentation – [E&H](#) and [Eilersen](#) Weighting Cells.
- MCC and Cabling Project
- BMS or LCP (Local Control Panel) – Functional Description and Specification of SCADA/HMI
- Cabling Project
- Equi-Potential Bonding

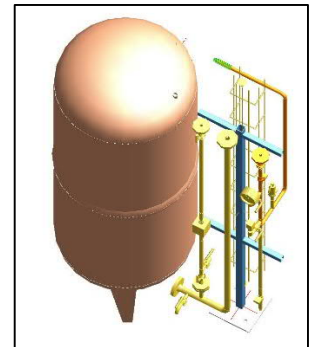
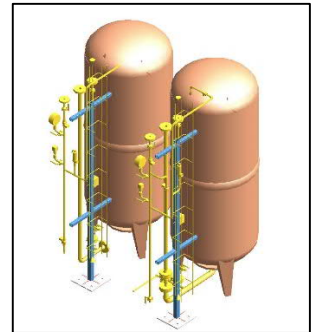
Why not a Commercial Unit? This bespoke Unit tailers well into a General BMS System with all data and controls signals available. Designed with Standard Equipment which makes Maintenance easy. Alarms for Leakage and Pipe Burst.

P-Engineering uses e.g.

- [AVEVA PDMS](#) Software for 3D design

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Pictures of 3D design of Expansion Unit with 700l Expansion Tank for a 12.000 m2 building.

The [E&H](#) Flow Transmitters does also measure Conductivity in the Make-up Water which enables alarms for any pollution of the water system.

Furthermore, the unit keeps track of Ethanol Solvent percentage and gives alarm if the fluid becomes to diluted.