

## Heat Pumps: Layout & Piping P-301

Layout of large-scale Heat Pump Installations for e.g., Power Plants or Incineration Plants with detail Design of Process Installations.  
Design of e.g.

- PFD
- PID w. full KKS-numbering
- General Layout 3D
- Detail Layout 2D and 3D
- Pipe Layout and Detailed Design
- PED design and 3<sup>rd</sup> Party Design Approval if Applicable.
- Support Structures and Pipe Support Design

Design Package includes

- Piping Design acc. EN13480
- Vessels Design acc. EN13445
- Steel acc. Eurocode
- Platforms acc. Eurocode
- Access Stairs and Ladders
- Instrumentation
- Control System – Specification, Functional Descriptions, SCADA specification.
- Pumping Sizing and Selection
- Control Valve Sizing/Selection
- MCC's and Electrical Supply
- Cabling – Power, Signal & IT

P-Engineering uses e.g.

- [AVEVA PDMS](#) Software for 3D design
- [ROHR2](#) for Pipe Flexibility investigations
- [Pipeflo®](#) for Piping and Pump Sizing
- [CONVAL®](#) for Control Valve and SRV Sizing
- [DXT](#) Software EN13445 and EN13480

Contact Information:

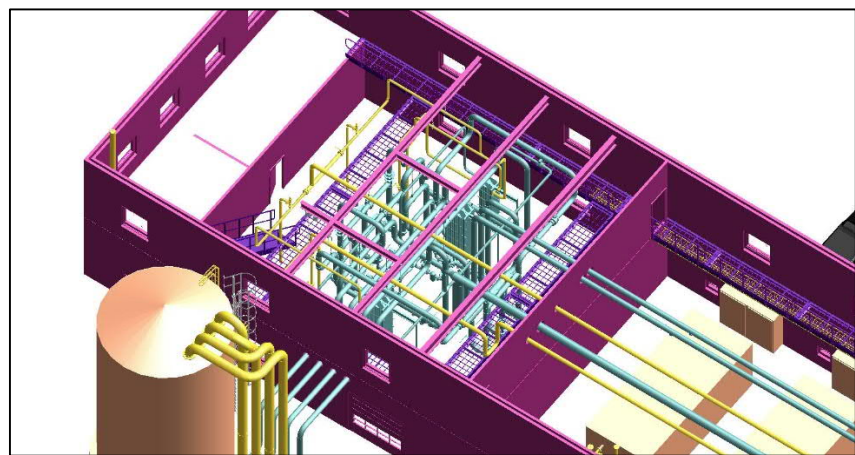
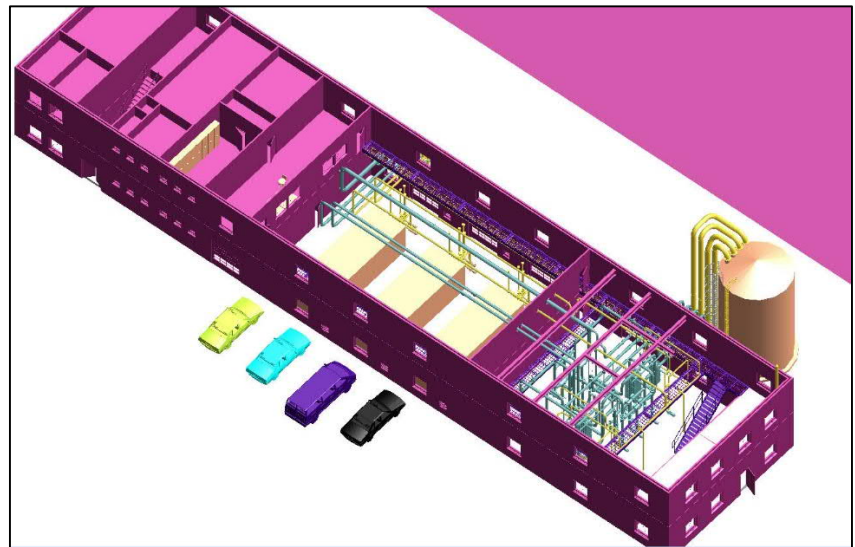
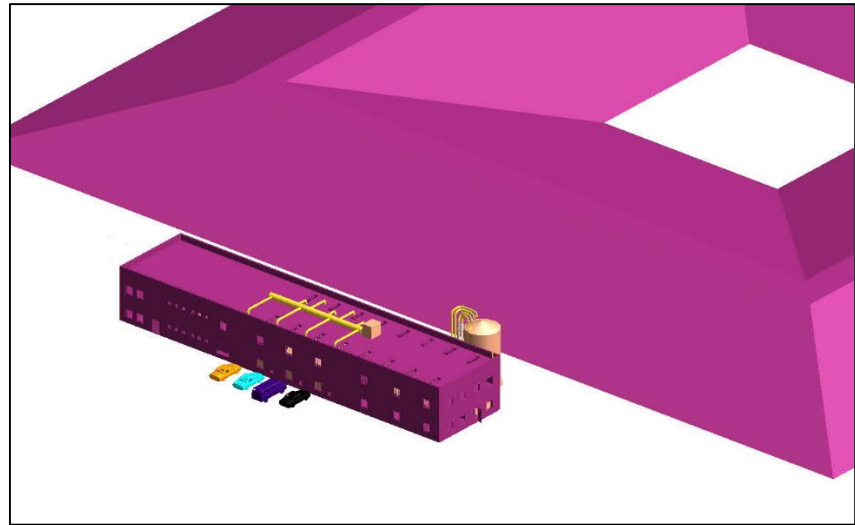
Christian Pallesen; +45 2526 8805; [cp@p-engineering.dk](mailto:cp@p-engineering.dk)



*Pictures from Large Scale Heat Pump Installation at Vestforbrændingen (DK) – [www.vestfor.dk](http://www.vestfor.dk) with Salt Based Heat Pumps. P-Engineering also handles Ammonium Heat Pump Installations.*

## Heat Pumps: Layout & Piping

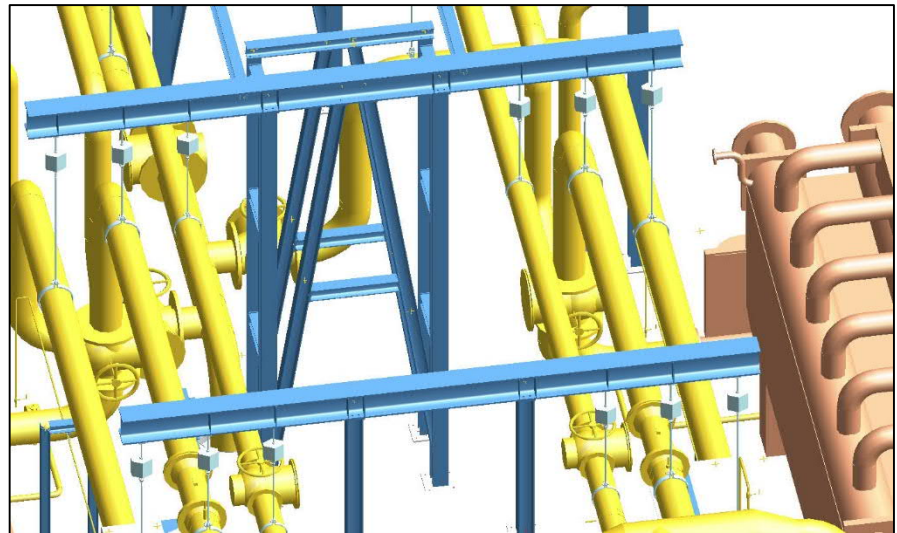
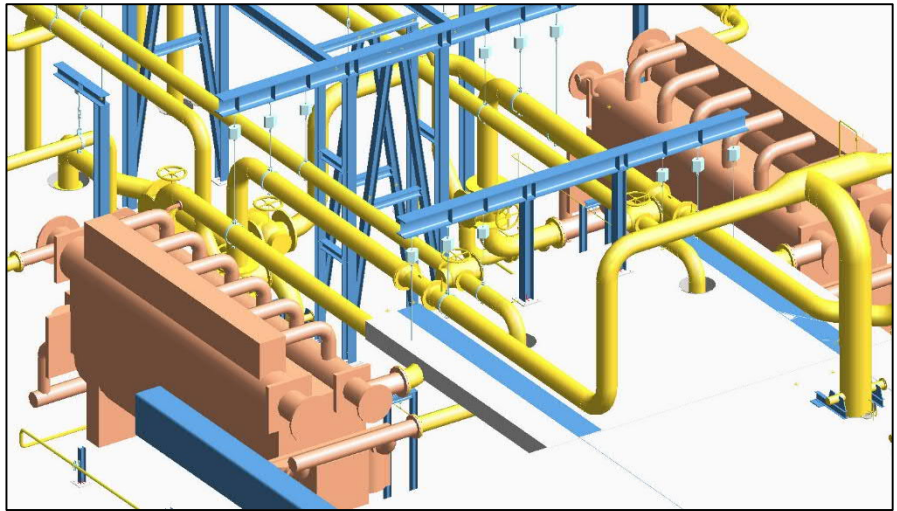
### P-301



Project for LH-Rørbyg A/S (Kemp & Lauritzen – <https://www.kemp-lauritzen.dk/> today) for Heat Pump Plant with 3 off Compressors for a Solar Panel Plant

## Heat Pumps: Layout & Piping

### P-301



Pictures of 3D Heat Pump Arrangement from Vestforbrændingen – [www.vestfor.dk](http://www.vestfor.dk).

