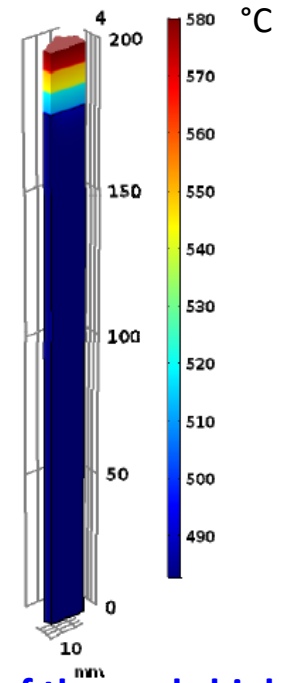
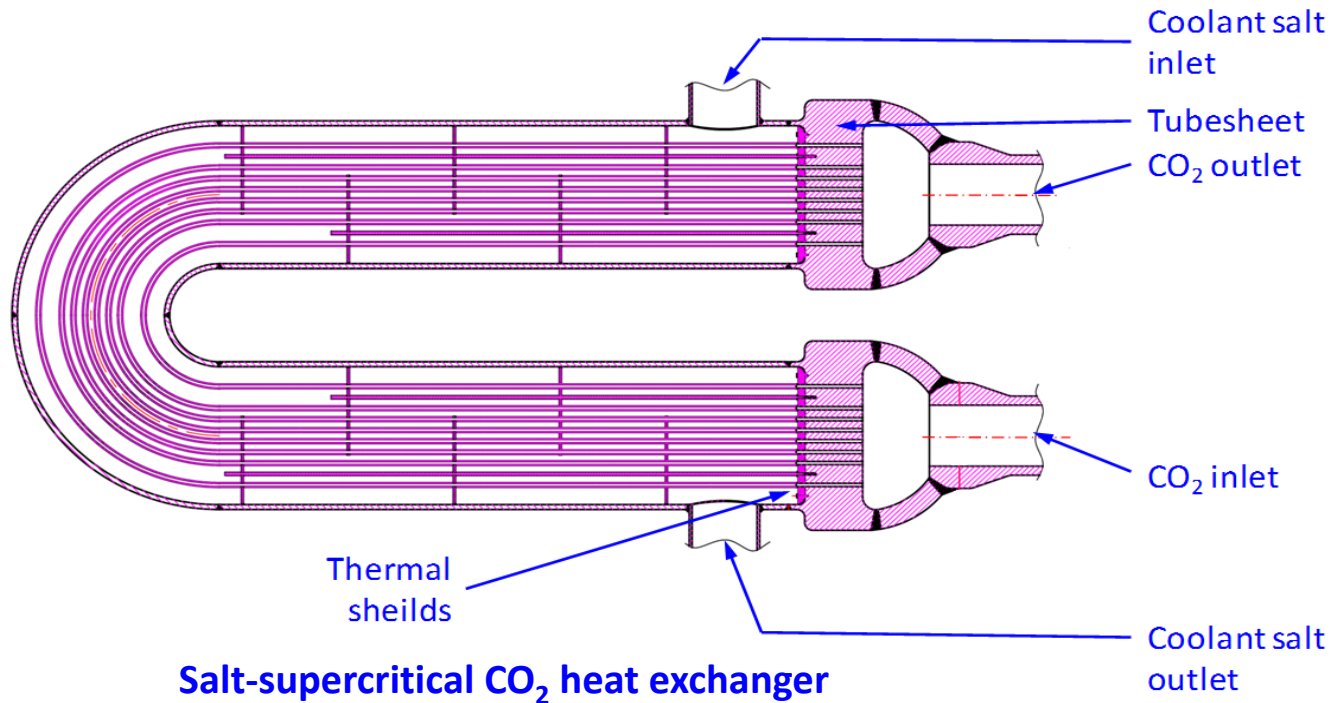


Salt-supercritical CO₂ heat exchanger for 5 MWth IMSBR



Analysis of thermal shields

- ❖ Supercritical CO₂ based Brayton cycle has been chosen as power conversion cycle for 5 MWth IMSBR
- ❖ PO design has been completed considering Level-A loadings using guidelines of ASME BPVC Section III Division 5 and TEMA code.
- ❖ After examining various configuration, a fully welded construction of Hairpin type configuration chosen.
- ❖ Thermal shields provided to avoid the high thermal gradients across the tubesheet.
- ❖ R&D areas required for fabrication identified.