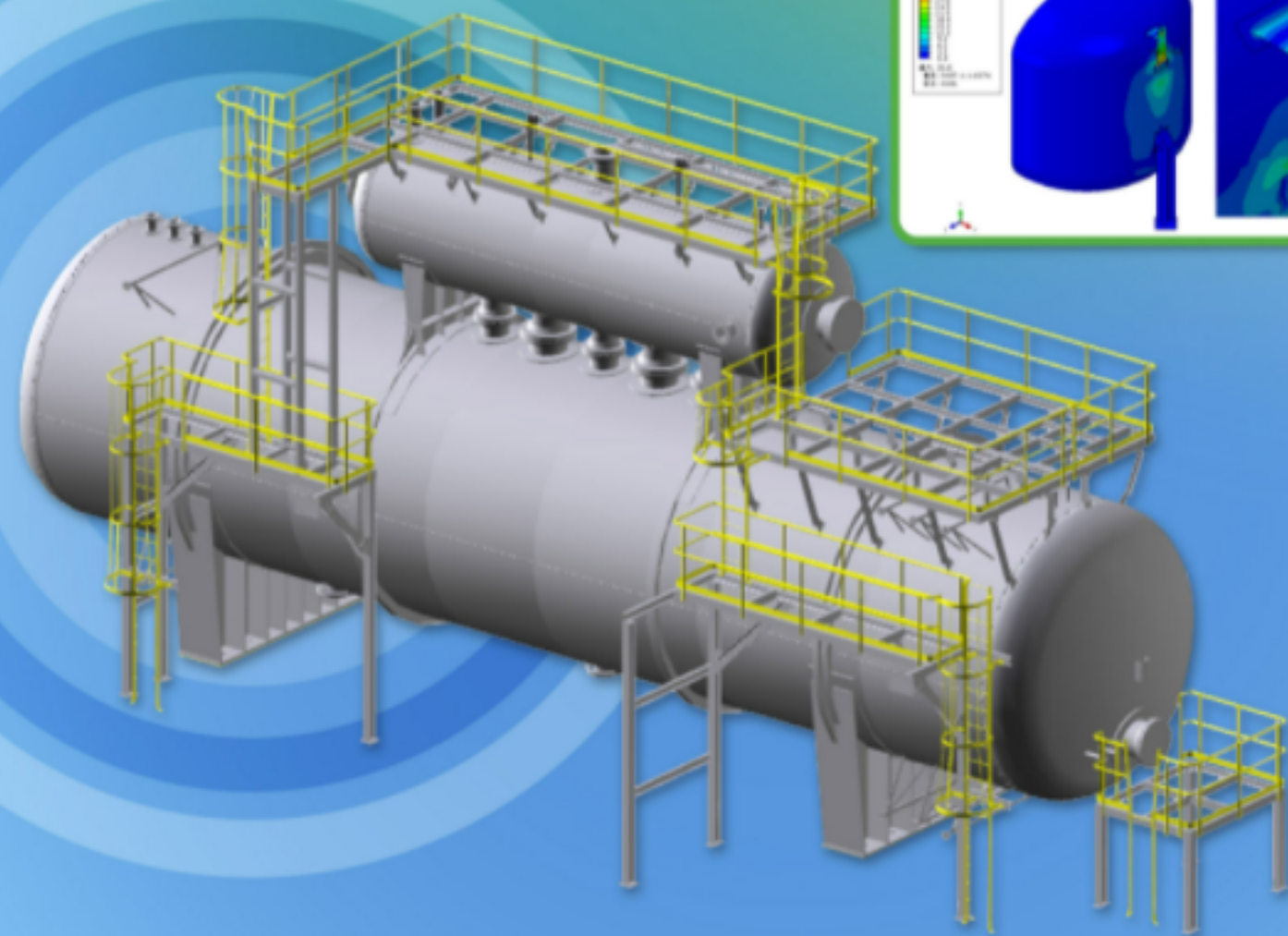
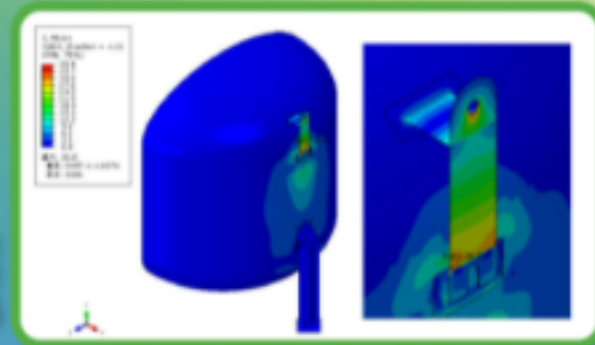
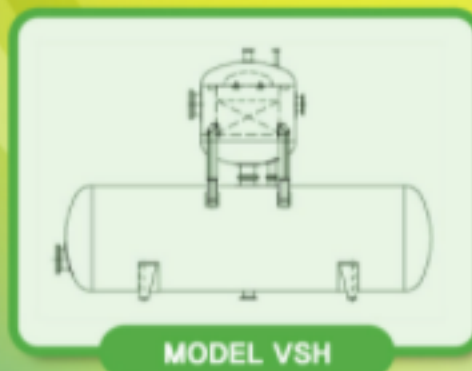
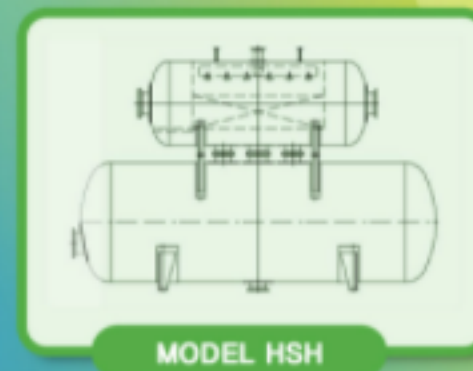
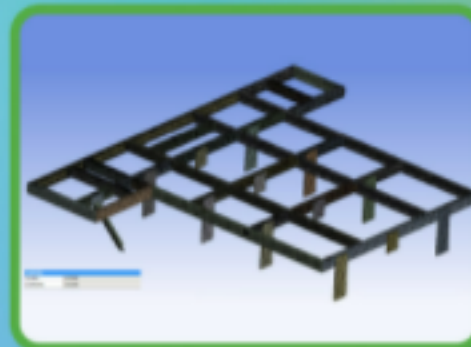
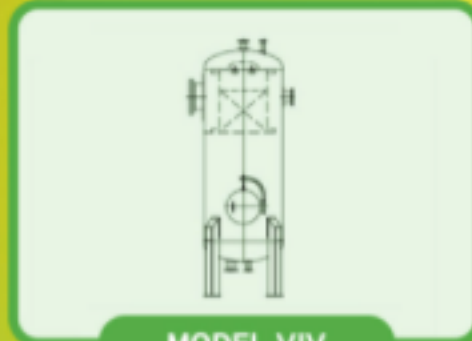


APPLICATION TYPE OF DEAERATOR

Model	Deaerating capacity	Application
HSH	>350ton/hr	large storage capacity
VIV	<100ton/hr	limited floor space
VSH	<350ton/hr	restricted shipping height



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DEAERATOR

ENERGYEN's Spray and Tray Deaerator incorporates many special design features that assure the efficient and reliable deaeration and offer the cost saving and easy maintenance.

- Self-adjusting spring loaded spray valves to provide a uniform thin film spray pattern
- High turn-down ratio suitable to many varying operating load
- Adequate sized equalizer to protect the damages by flashing steam during abnormal and shut-down condition
- Installation of swing door to enclosure wall to prevent the tray upset by high steam velocity at tray bank
- Optimum space under tray bank to give low steam velocity and uniform distribution
- Stainless steel material of internal enclosure to protect the corrosion by non-deaerated water
- Good removal efficiency by counterflow between water and steam

Deaeration principle

Deaeration is based on two basic principles. The first principle can be described by Henry's law that the gas solubility in a solution decreases as the gas partial pressure decreases. The second principle is that the gas solubility in a solution decreases as the solution temperature rises and approaches the saturation temperature. A deaerator utilizes these natural processes to remove the dissolved oxygens, carbon dioxide and other non-condensable gases from boiler feedwater.

Purpose of Deaerator

Oxygen and Carbon Dioxide Removal	Corrosion Protection , Long Life Time
Power Plant Efficiency Increase	Greater Power Output
Heat transfer Efficiency Increase	BOP & Boiler Small Size



OVERALL CONFIGURATION OF HORIZONTAL DEAERATOR

