

# Comparison

## Plate Heat Exchanger (PHE) VS Spiral Heat Exchanger (SHE)

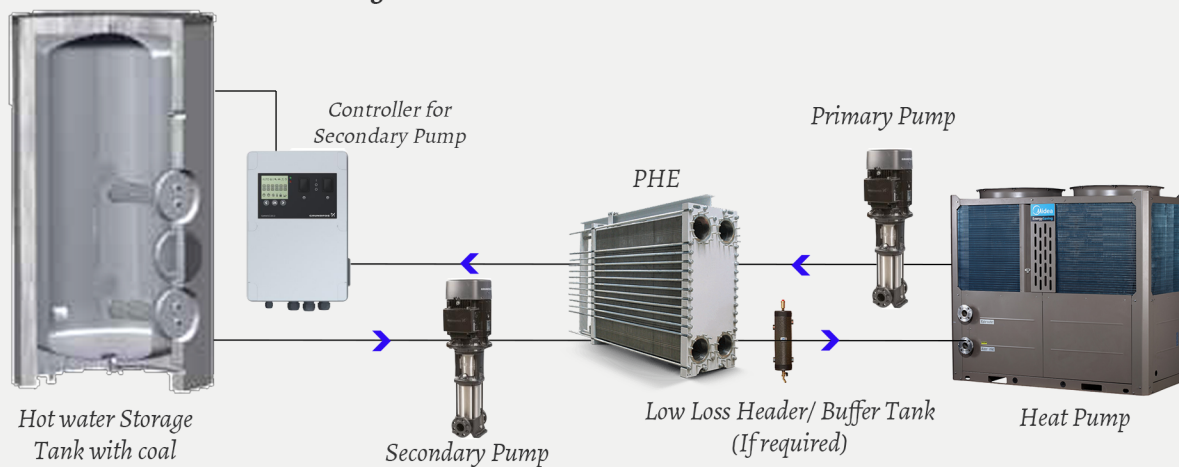
### Plate Heat Exchanger

1. Additional equipments/components required for secondary circulation loop like Secondary Circulation pump along with controller panel and extra pipping and valves required.
2. Extra Power Consumption for secondary circulation pump.
3. Heat loss via PHE which is generally not insulated and secondary circulation loop pipings, valves and fittings.

### Spiral Heat Exchanger

1. No secondary circulation loop is required.
2. Only one circulation pump power consumption.
3. No external HE and secondary circulation loop.

### Scheme - I with Plate Heat Exchanger



4. PHE requires maintance like replacemnt of gaskets and has limited life of appeox. 10 years.
5. Extra investment on secondary pump, control panel & secondary loop pipping, valves and fitting.
6. Larger footprints due to external PHE & Secondary Loop.

4. SHE requires zero maintance and life is more than 25 years.
5. Approx. 20-40% less captial cost
6. Less footprints due to no external HE & Secondary loop requiremnt and there is only primary pipings outside.

### Scheme - II with Spiral Heat Exchanger

