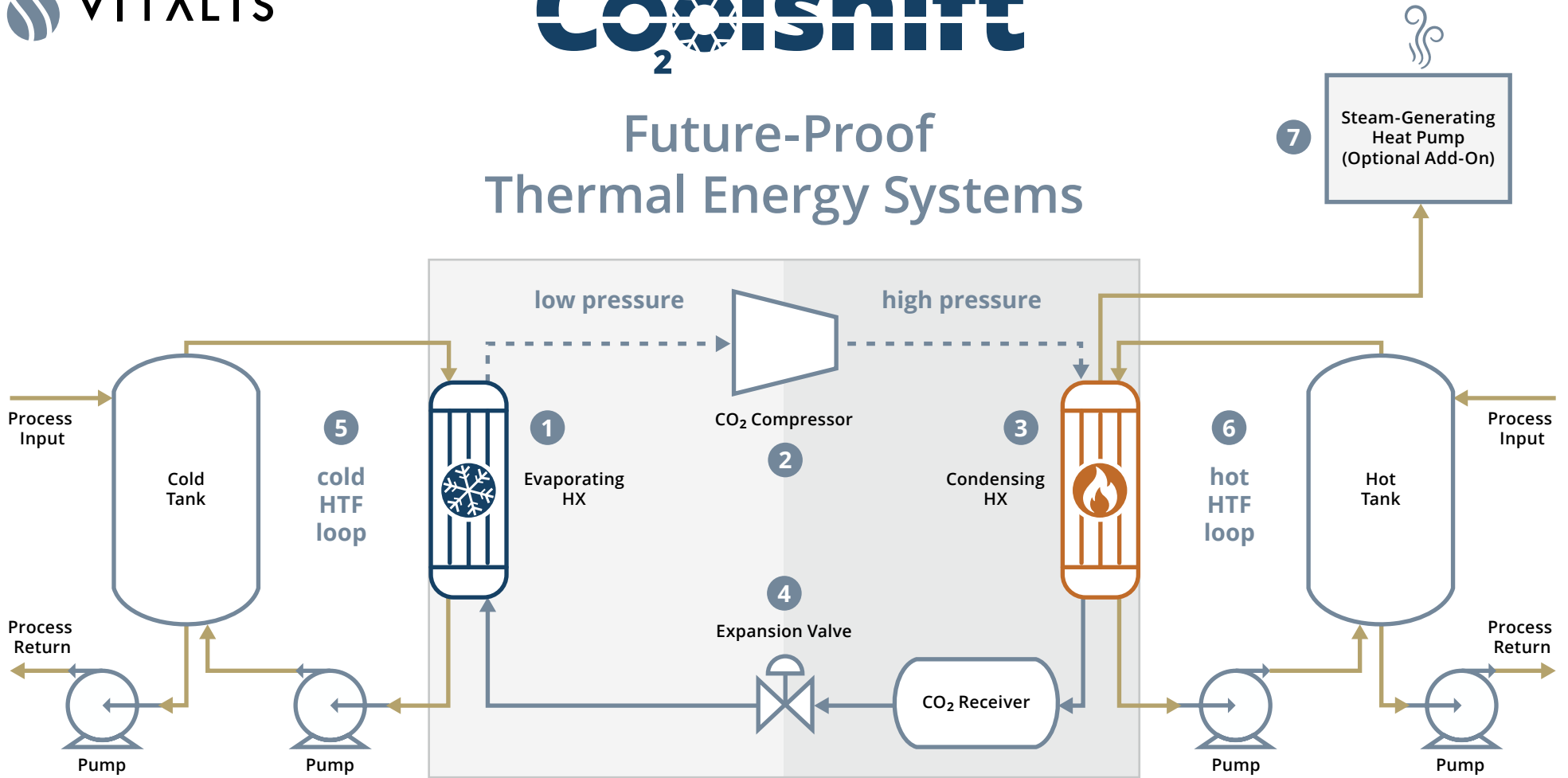
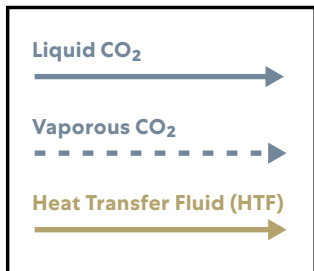


Future-Proof Thermal Energy Systems



Legend



- 1 Heat is absorbed in the Evaporating HX, where the CO₂ (R744) changes from liquid to vapor.
- 2 The CO₂ compressor increases the pressure and temperature of the vaporous CO₂.
- 3 Heat is rejected in the Condensing HX, where the CO₂ changes from vapor to liquid before moving into the high-pressure CO₂ Receiver.
- 4 The Expansion Valve lowers the pressure and temperature of the liquid CO₂.

- 5 Process cooling is achieved by circulating your heat transfer fluid through the Evaporating HX.
- 6 Process heating is achieved by circulating your heat transfer fluid through the Condensing HX.
- 7 An optional Steam-Generating Heat Pump can utilize waste heat from the hot HTF loop and increase the temperature of heated water from 90°C to 150°C.