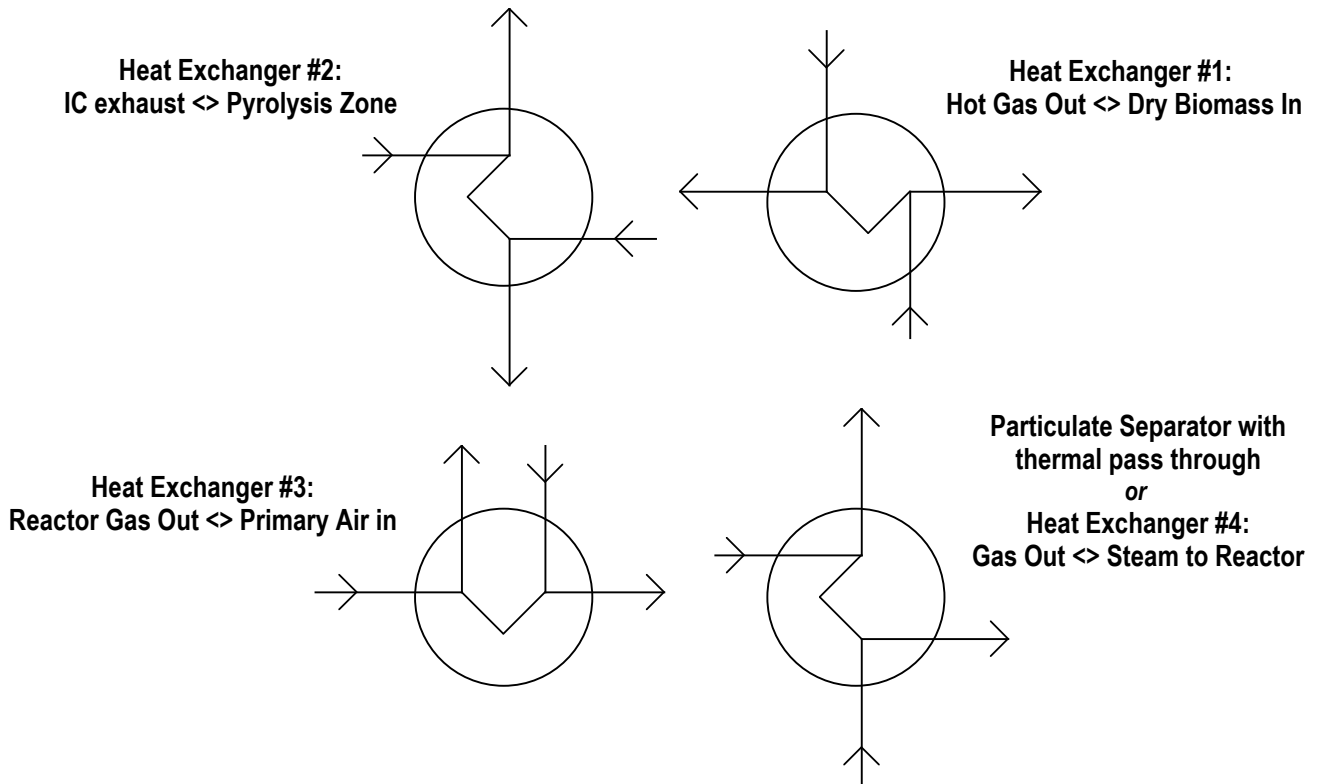


# GEK TOTTI Thermal Relationships and Flows Between System Components



## Order of Heat Exchange Steps to Maintain Proper Temp Relationships

### Gas Out from Reactor:

1. Air preheating
2. Particulate Separation (with optional steam generation)
3. Fuel Drying

### IC Engine Exhaust:

1. Pyrolysis  
(optional steam superheating exchange before or after IC exhaust gas flow to pyrolysis exchanger)

### Solid Fuel in

1. Drying via heat vaporizing water and removal through monorator hopper.
2. Pyrolysis in separate stage, separated from Drying

### Air In

1. Preheated with output gas, starting as soon after the reduction zone as possible.