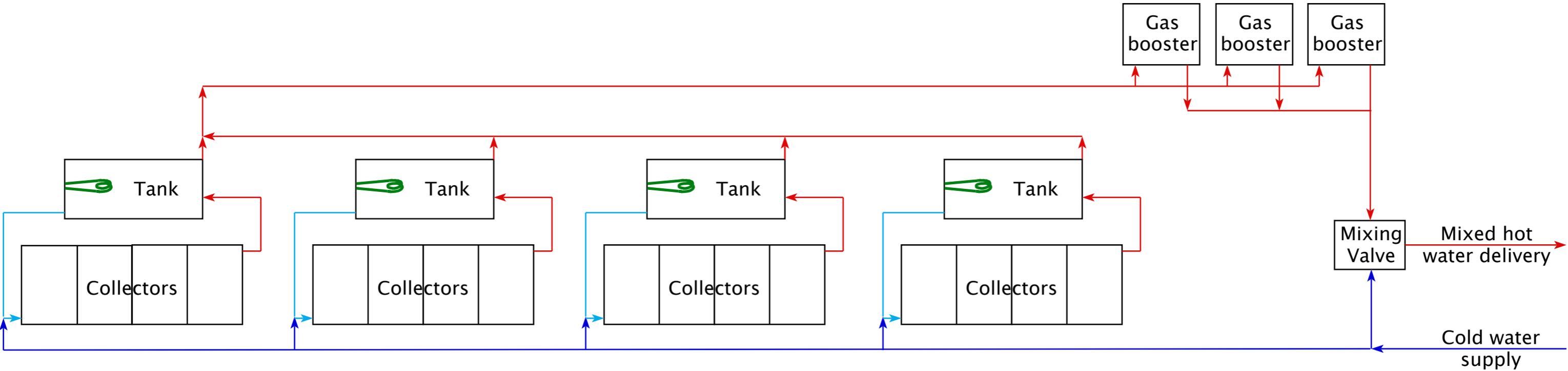


8) Thermosiphon instantaneous gas heater boosted commercial solar system



The thermosiphon system may be defined as a sub-unit of a larger system that are integer multiples of the sub-units (i.e. a family of systems that are integer multiples of the sub-unit).

The system is modelled with a single collector inlet & outlet pipe and a mixing valve.

The flow through the banks of collectors and tanks is assumed to be split equally (note the reverse plumbing in the schematic diagram).

Note the position of the mixing valve in the deck is not as shown below, but at the cold T-junction for numeric stability.