

TCU Temperature Control Unit

Product & Technical Configuration



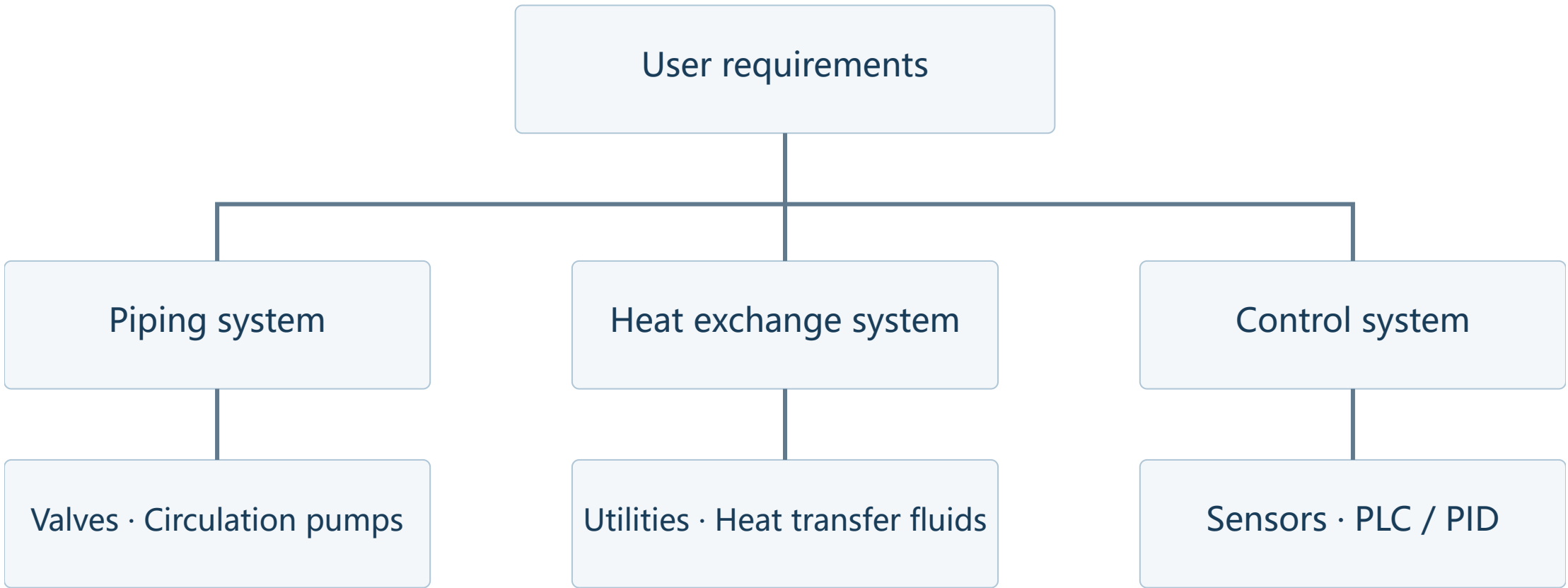
Overview

Electricity, steam, cooling water or chilled water supply heating and cooling through an intermediate heat transfer unit. The system controls process temperature in reactors, crystallizers and drying equipment.

Technical Configuration

Item	Configuration
Brand	IKUSE
Systems	Piping, heat exchange and control
Actuation and sensing	Automatic valves, circulation pumps and sensors
Control options	PLC, feedforward PID and operator interface, as configured
Temperature control accuracy	±0.5 °C; confirm for the operating conditions and control scheme
Process equipment	Reactors, crystallizers and dryers

System Architecture & Control



Functional block diagram

The primary heat transfer medium provides heating or cooling; the secondary medium transfers thermal energy to the process equipment.

The control system combines software, an operator interface, sensors and actuators such as automatic valves and pumps. PLC and feedforward PID are configured for the application.

Temperature control accuracy: $\pm 0.5\text{ }^{\circ}\text{C}$, subject to confirmation for the operating conditions and control scheme.