

PUMP SYSTEM

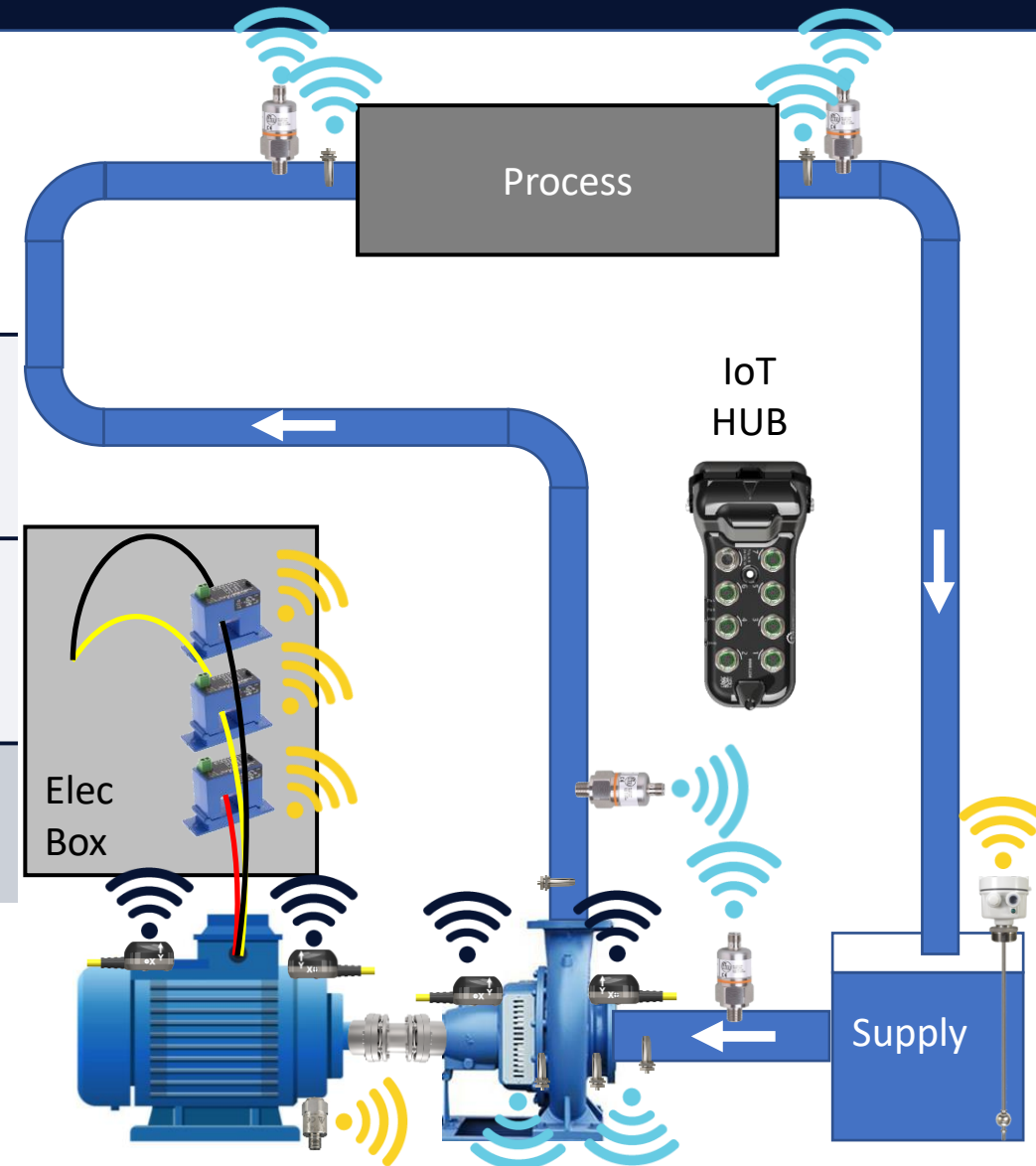
AVAILABLE TECHNOLOGY



BEST BETTER GOOD

SOLUTION	CONDITIONS DIAGNOSED
Vibration <u>MachineIQ</u> Analytics	Cavitation; Recirculation; Flow Obstruction; Turbulence; Bearing; Seal; Impeller/Piston; Coupling or Shaft Failure; Imbalance; Misalignment; Looseness; Pipe Strain; Resonance; Motor Faults
Pressure (Absolute) Temperature	Throttling; Pulsation; Insufficient NPSHA; Seal Failure; Filter Clogging Bearing/Seal Lube; Inefficiency
MCSA Level Vibe Trigger	Phase Imbalance, Amp Overload or Fluctuation, Inefficiency Level Fluctuation, Low NPSHA Data collection only when machine is on

APPLICATIONS: Pulp, Liquor, Supply Water, Wastewater, Boiler Feedwater, Condensate



PUMP EFFICIENCY

TECHNOLOGY DETAILS



INEFFICIENCY AND POOR RELIABILITY

THE SOLUTION:

KCF can use pressure, flow, and amperage to create a custom indicator that tracks efficiency in real time, showing you how your process affects your pumps.

Use this indicator to diagnose and correct:

- ✓ System inefficiency
- ✓ Filter clogging
- ✓ Flow restriction
- ✓ Flow turbulence
- ✓ Mechanical seal damage
- ✓ Lubrication failure
- ✓ Rotor instability
- ✓ Impeller/piston damage

THE PROOF:

Pump pressure, flow, amperage, and efficiency

