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### MULTI-PHYSICS SIMULATION OF CO<sub>2</sub> GAS COOLERS USING EQUIVALENCE MODELING

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**Highlights**

- Equivalent approach can be used to simplify both the fluid and thermal problem
- Equivalent approach allows reducing the magnitude of the computational load
- Validation of the results demonstrated a good agreement
- Multi-physic approach highlighted the conduction effects on the tubes
- Measure errors arising placing probes on curves external surfaces were estimated

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