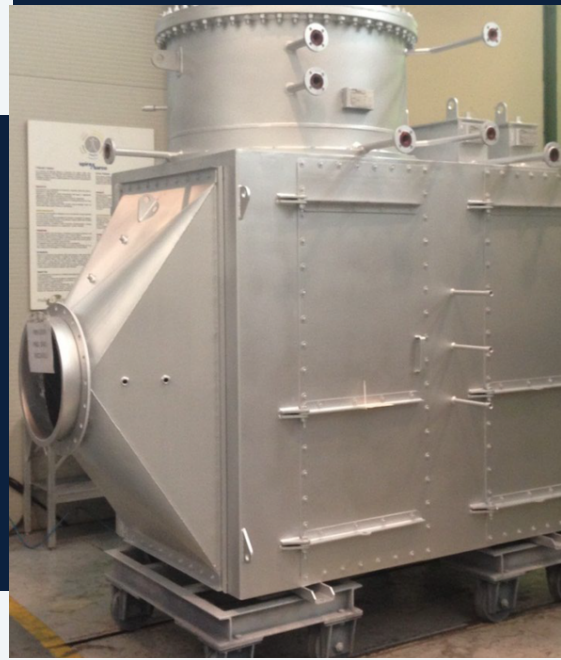


STEAM GENERATOR CASE STUDY

Spirax Sarco, multi-stage steam generator and water pre-heater, Italy



Overview

- Anaerobic digester genset in food industry
- One stage of 198°C/12 bar steam generation, left hand side
- Two stages of water heating delivered by two standard modules, visible on right of unit
- Pipes screwed in from underneath on standard modules; modules can be removed individually
- Hinged access doors for easy cleaning; sealing nuts will be replaced by latches on future units

Parameters

Exhaust temp in/out

420°C/160°C

Water temp in/out

160°C/198°C (12 bar)

Exhaust/water mass flow

11,484/900 kg/h

Exhaust pressure drop

700 Pa

Energy recovered

520 kW

Recovered energy value

\$24K USD/year (€22K/year)

Payback period

60 months

Price per kW recovered

\$45 USD (€42)

