

PROJECT REFERENCE

Chemical-Process Hot-Water ORC Reference

Industrial hot-water heat recovery

A representative Boomtec Industry project record for industrial hot-water heat recovery.

Application	Industrial hot-water heat recovery
Customer / location	Confidential industrial customer in China
Heat source	High-temperature process water
Inlet temperature	125.9 °C
Inlet pressure	1.87 MPa(g)
Flow rate	300 t/h
Reference output	600 kW
Expander / model	Radial-inflow expander / OTG-600
Bearing / working fluid	Active magnetic bearing (maglev) / R245fa
Cooling / controls	Water cooling / PLC control; grid interface project-specific

Project configuration and supply boundary

Maglev expander-generator, rectifier, inverter, isolation transformer, AMB control cabinet, chiller, working-fluid receiver, PLC cabinet, motor-temperature junction box and spares

Reference status

Project status recorded in source file: completed project

Scope note: This summary translates only clear information available in the project record. Final equipment selection, performance, certification, interfaces and supply scope remain application-specific and require confirmation against the customer's actual operating data and agreed project boundary.