

## PROJECT REFERENCE

# Deaerator-Exhaust Steam ORC Reference

Chemical-process waste-heat recovery

A representative Boomtec Industry project record for chemical-process waste-heat recovery.

|                         |                                                              |
|-------------------------|--------------------------------------------------------------|
| Application             | Chemical-process waste-heat recovery                         |
| Customer / location     | Confidential industrial customer in China                    |
| Heat source             | Deaerator exhaust steam                                      |
| Inlet temperature       | 103 °C                                                       |
| Inlet pressure          | 1.26 MPa(g)                                                  |
| Flow rate               | 57.18 t/h                                                    |
| Reference output        | 400 kW                                                       |
| Expander / model        | Radial-inflow expander / OTG-0.4                             |
| Bearing / working fluid | Active magnetic bearing (maglev) / R245fa                    |
| Cooling / controls      | Water cooling / DCS control; grid interface project-specific |

## Project configuration and supply boundary

Maglev ORC unit, heat exchangers, working-fluid pump, condensate pump, power converter, load cabinet, DCS control system, instruments and spares

## Reference status

Project status recorded in source file: operating

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.