

# Thermodynamic analysis of an industrial process integration of a reversed Brayton high-temperature heat pump: A case study of an industrial food process

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**Abstract.** Industry, as a major emitter of CO<sub>2</sub> in the process heat sector in Europe, needs to switch from fossil fuels to renewable energy for heat supply. High temperature heat pumps (HTHP) can electrify process heat and integrate renewable electricity into industrial processes. The Institute of Low-Carbon Industrial Processes of the German Aerospace Center (DLR) is developing HTHPs based on the reversed Brayton and Rankine cycles for delivery temperatures above 150 °C and is investigating the industrial process integration of this novel technology. The current study considers different integration strategies of a reversed Brayton HTHP in a food production process with a heat sink at 250 °C. A thermodynamic analysis evaluates the results. This study allows conclusions to be drawn about the process integration of Brayton HTHPs in industrial food processes or other industrial processes with heat sinks around 250 °C.

## 1 Introduction

In 2022, global greenhouse gas (GHG) emissions from energy combustion and industrial processes rose to a new all-time high of 36.8 gigatonnes (Gt), 9.2 Gt (25%) alone from the industrial sector [1]. The European Union (EU) has set targets to reduce GHG emissions by 55% from 1990 levels by 2030 and to achieve CO<sub>2</sub> neutrality by 2050 [2]. Fossil energy is the dominant energy carrier for heating and cooling in the EU industrial sector, accounting for the half of total final energy demand. This heat is consumed at different temperature levels, depending on the industrial branch [3]. Rehfeldt et al. [4] studied processes in the European industrial sector and found that the paper, food and chemical industries in particular have process heat requirements in the range of 100 °C to 500 °C. Previous research shows high potential for integration of HTHP in this temperature range [5–7]. Arpagaus et al. [8] provides an overview of HTHPs already on the market and the state of the art. The IEA HPT Annex 58 project is currently underway to provide an overview of the state of the art and ongoing developments for HTHP systems and components [9].

This study addresses two methods to connect a HTHP into an existing industrial process quickly and efficiently. A first approach is shown in the context of a preliminary design planning, comparing two different possibilities for process integration at the heat sink of a recuperated Brayton HTHP to provide dry air around 250 °C.

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# Handbook Of Thermodynamic High Temperature Process Data

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web hasilnya adalah f hitung sebesar 1 649 sedangkan nilai f tabel dilihat berdasarkan nilai df pada kolom ketiga baris pertama nilai df adalah 3 yaitu sama dengan jumlah variabel bebas sedangkan nilai df pada baris kedua adalah n var bebas 1 atau 40 3 1 36 jadi diperoleh df1 adalah sebesar 3 dan df2 sebesar 36

[analisis regresi linear berganda dengan software spss](#) - Feb 11 2023

web oct 12 2021 berikut merupakan langkah langkah dalam melakukan uji regresi linear berganda secara simultan dengan menggunakan software spss a pengolahan data membuka lembar kerja spss lalu klik variable view selanjutnya pada kolom name untuk baris pertama tulis x 1 baris kedua x 2 baris ketiga y