

# CHILLVENTA eSPECIAL

Refrigeration | AC & Ventilation | Heat Pumps

13.–15.10.2020

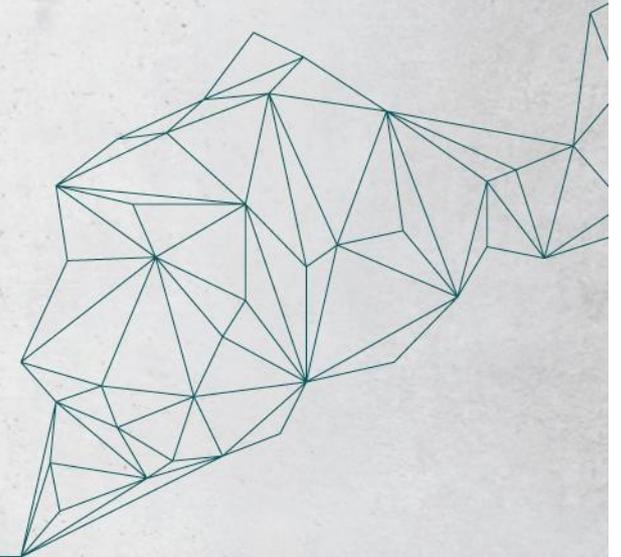
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NÜRNBERG MESSE

# GEA Blu-Red Fusion: Efficient Cooling and Heating With One Product

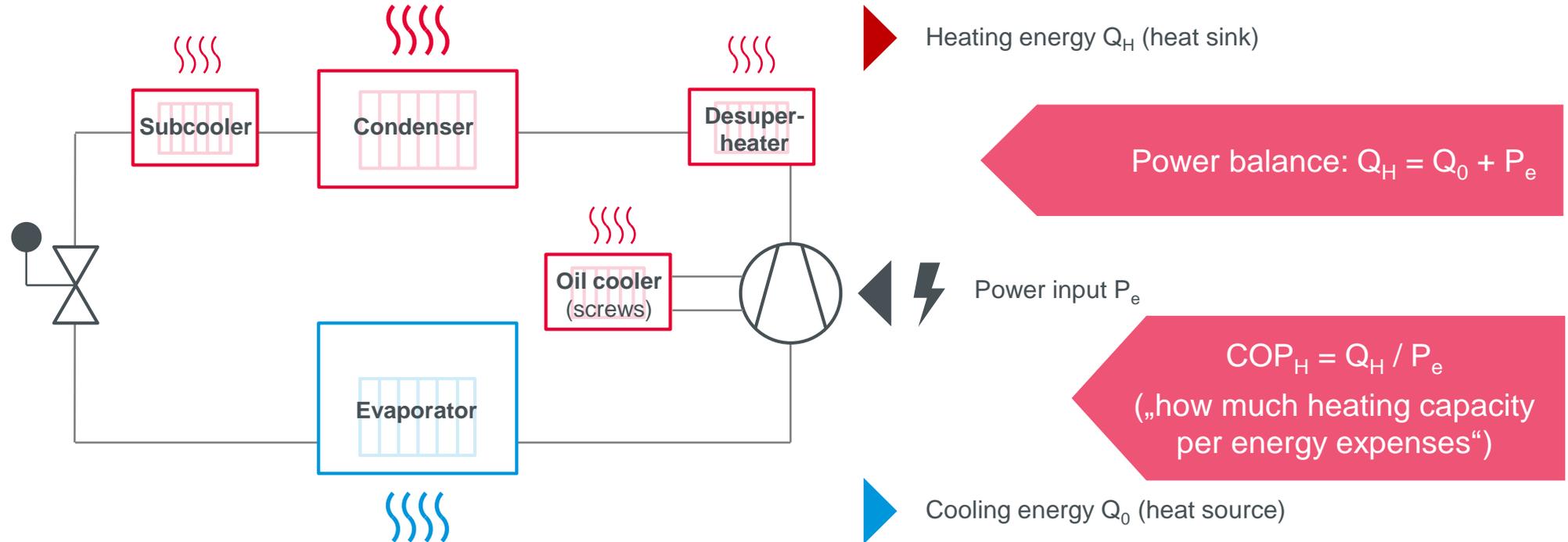
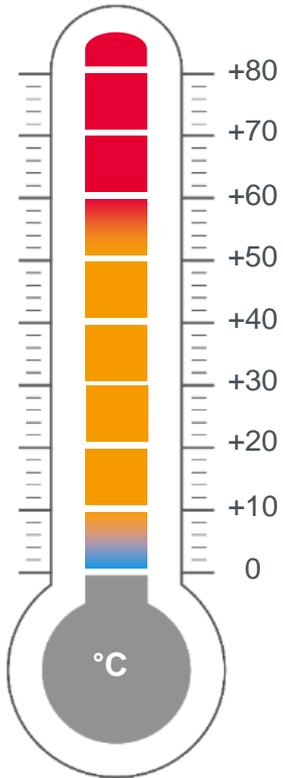
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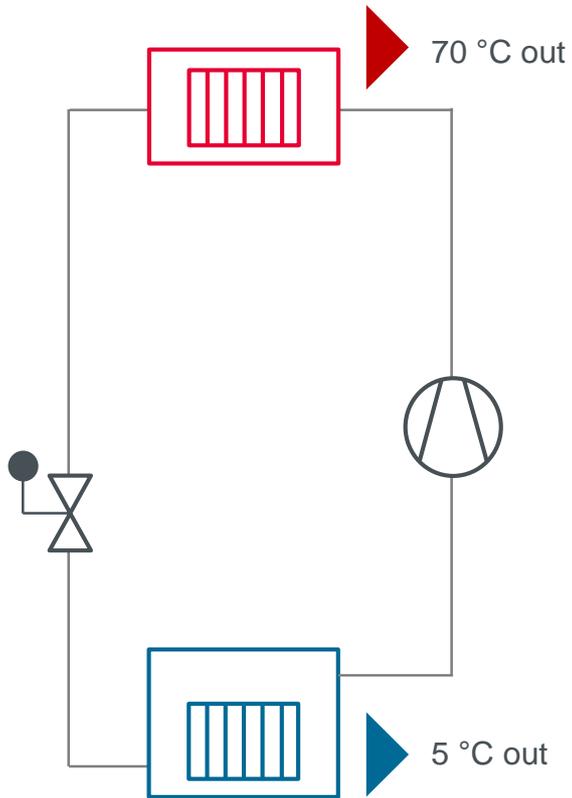
# Basics: Refrigeration/Heating Cycle

Single-stage principle

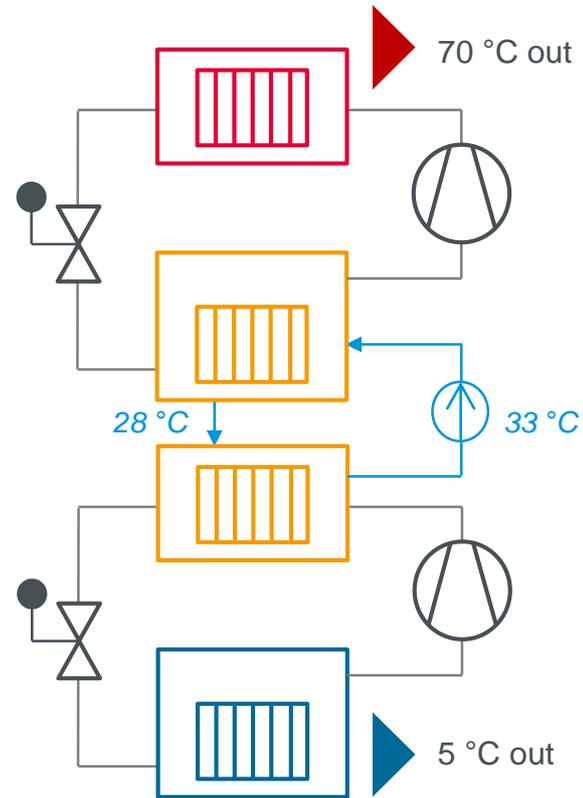


# Basics: Benefit of Efficient Two-Stage Systems

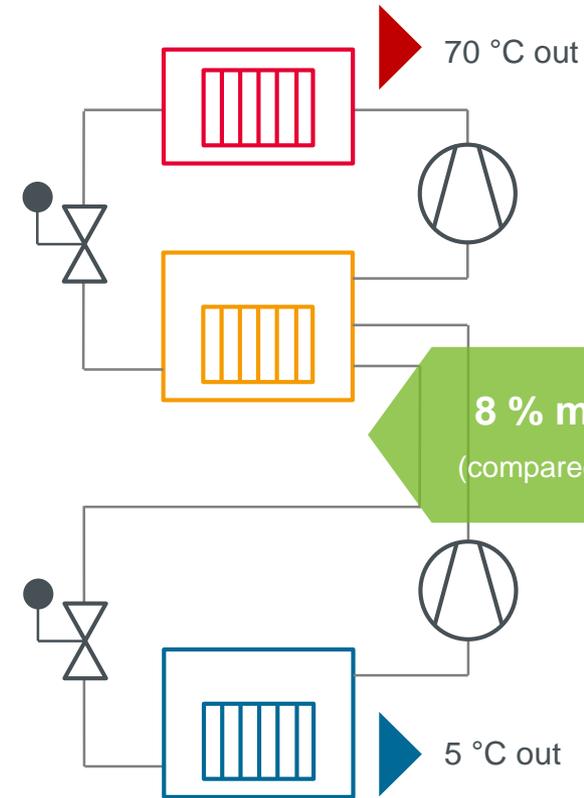
Real data efficiency comparison



Heating capacity	2 MW
Evaporation	3 °C
Condensation	68 °C
Power input	100 %
COP	100 %



Heating capacity	2 MW
Evaporation LS/HS	3/26 °C
Condensation LS/HS	35/68 °C
Power input	105 %
COP	95 %

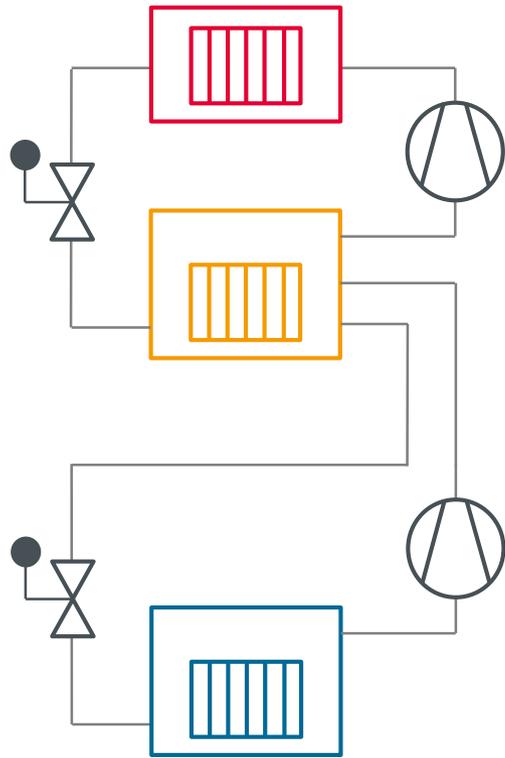


Heating capacity	2 MW
Evaporation LS/HS	3/26 °C
Condensation LS/HS	29/68 °C
Power input	92 %
COP	108 %

**8 % more efficient**  
(compared with single-stage)

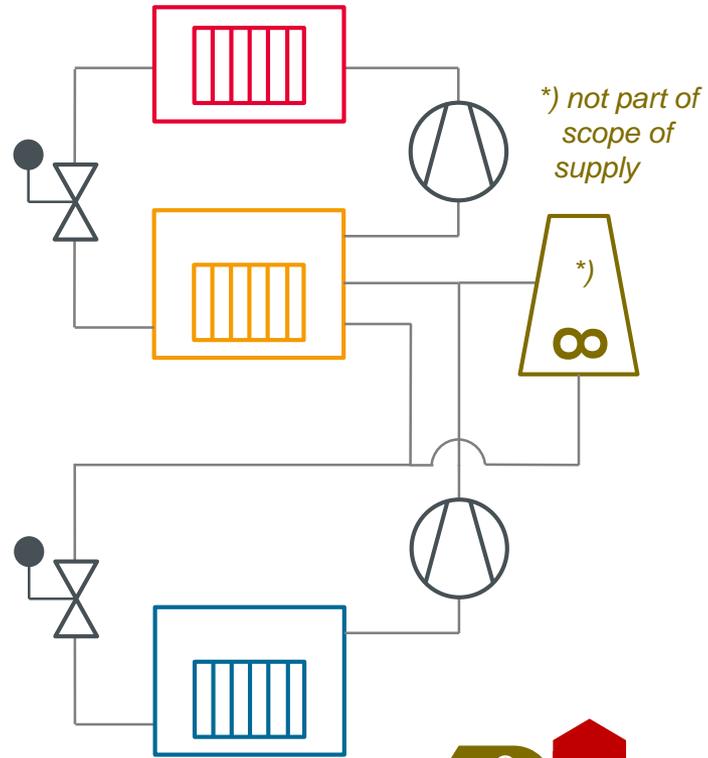
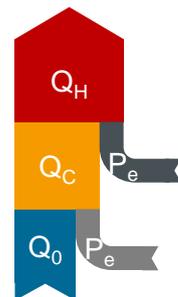
# Coming Soon: The New GEA Blu-Red Fusion

## Operational Principles



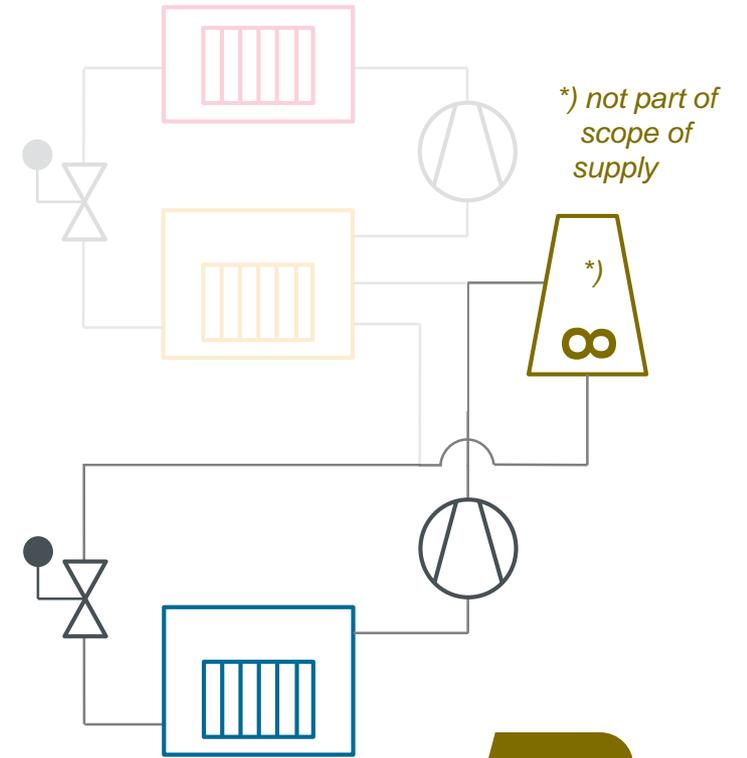
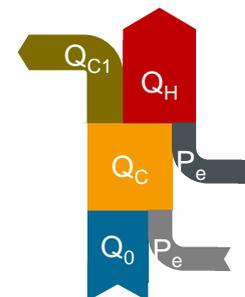
**Mode 1**

Refrigeration and heating capacity are matching



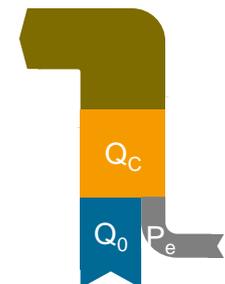
**Mode 2**

Less heating capacity required than available



**Mode 3**

No heating capacity required (heat pump off)



# The Upcoming GEA Blu-Red Fusion

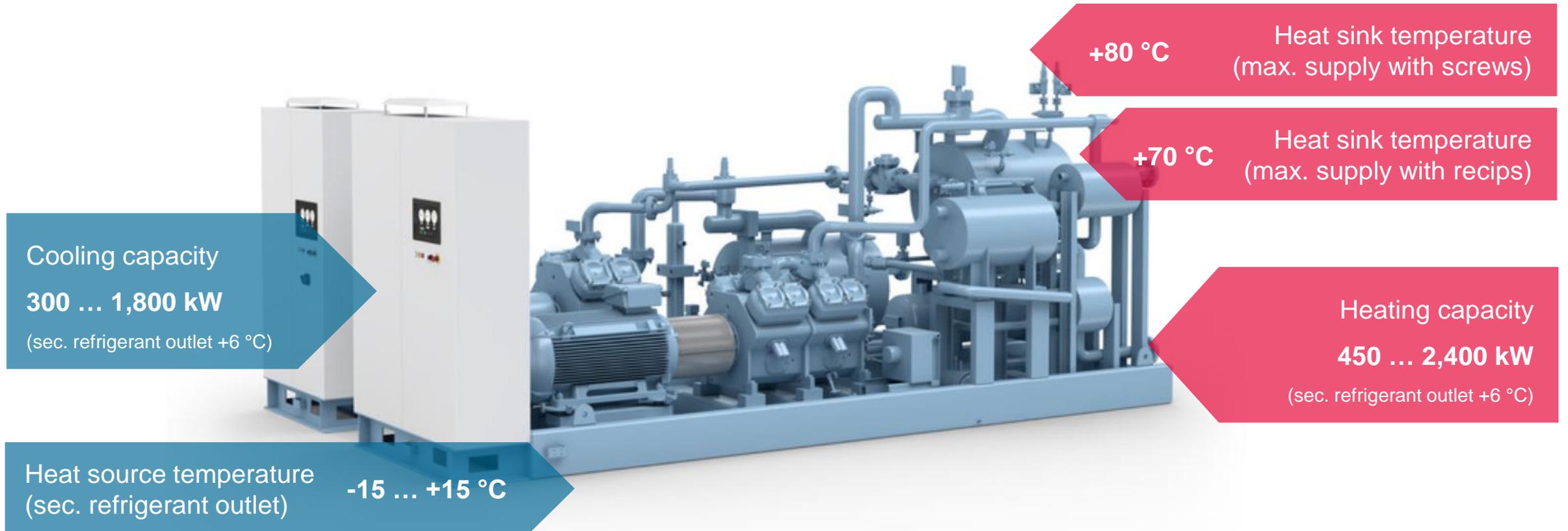
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## Coming Soon: The New GEA Blu-Red Fusion

A combination of our successful GEA Blu chillers and GEA Red heat pumps



## Coming Soon: The New GEA Blu-Red Fusion

Key features, advantages and benefits at a glance

### FEATURES

- Arbitrary **combination** of **Blu chiller** and **Red heat pumps**
- **Fully configured, optimized** intermediate **temperature**
- Based on **well-proven modules**
- Factory **tested**
- **3 operation modes** possible
- GEA Blu chiller and Red heat pump **know-how**

### ADVANTAGES & BENEFITS

- Selection of the **most suited combination** respecting the **project-specific needs**
- **Efficiency-optimized plug-and-play** solution
- Minimizes energy costs
- Complete, **risk-free** product **ready to use**
- **Meets individual, fluctuating heating requirements**, provides **flexibility**
- Rely on **state-of-the-art** products **successfully proven** in the field

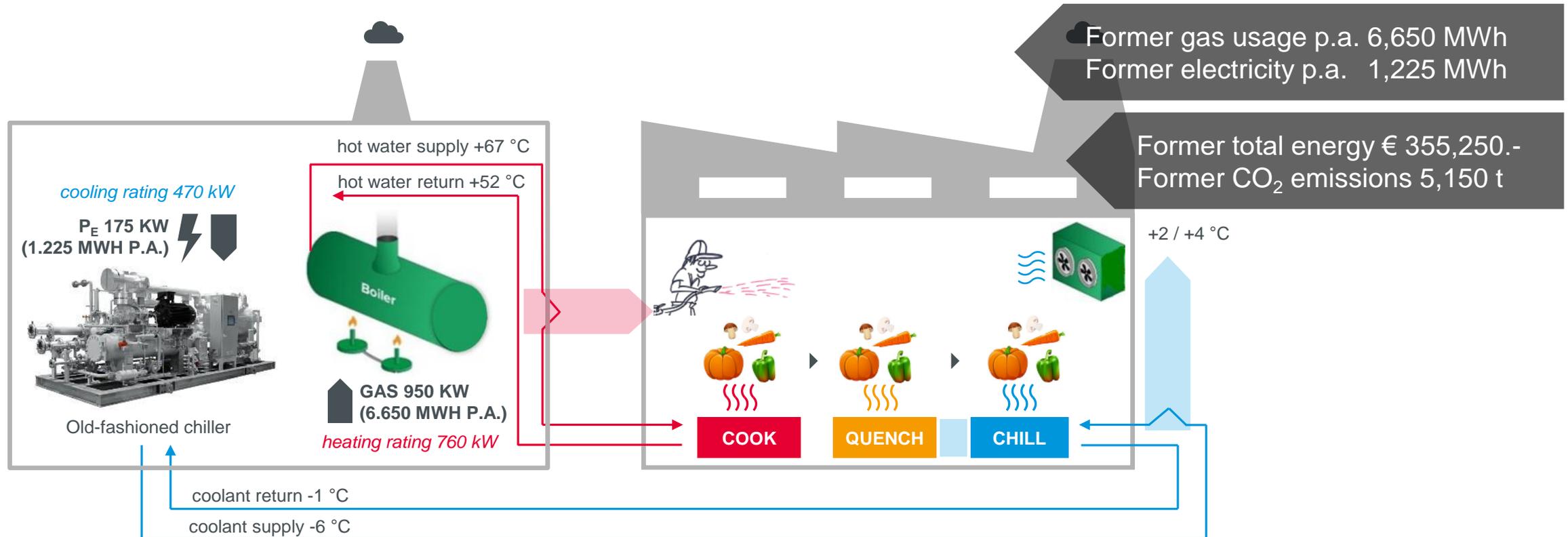




**CONNECTING  
HEAT PUMP  
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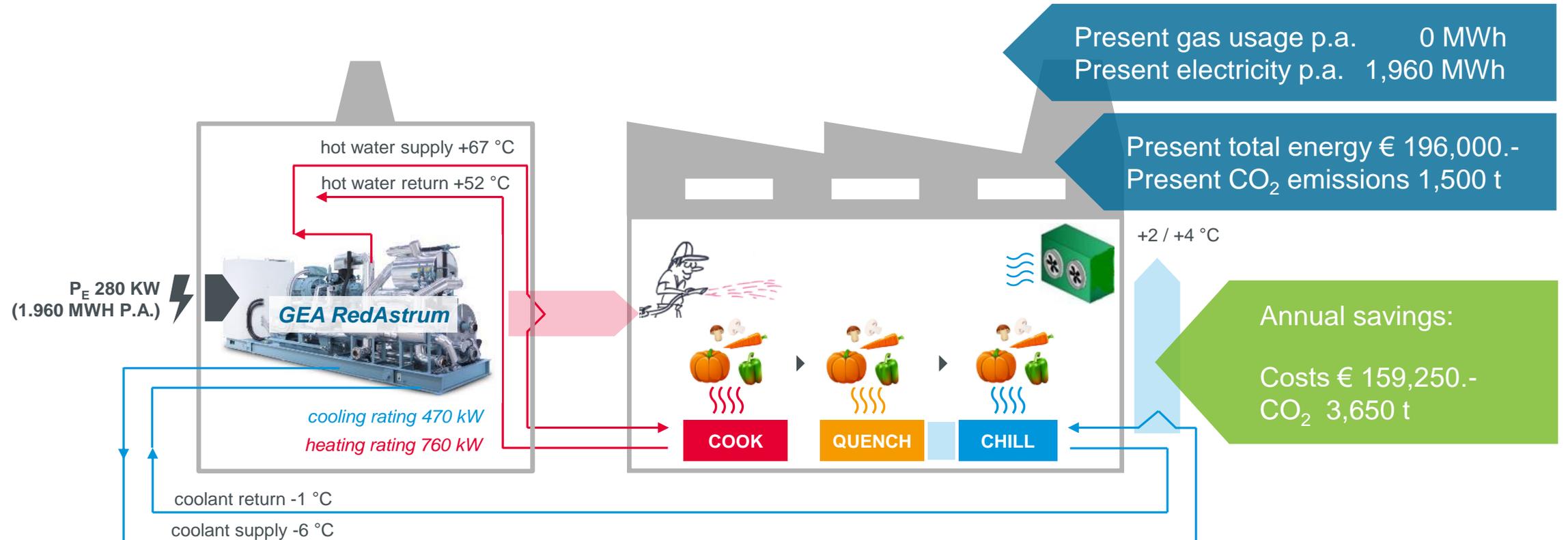
# Project Reference: „Cook-Quench-Chill“

The old factory layout



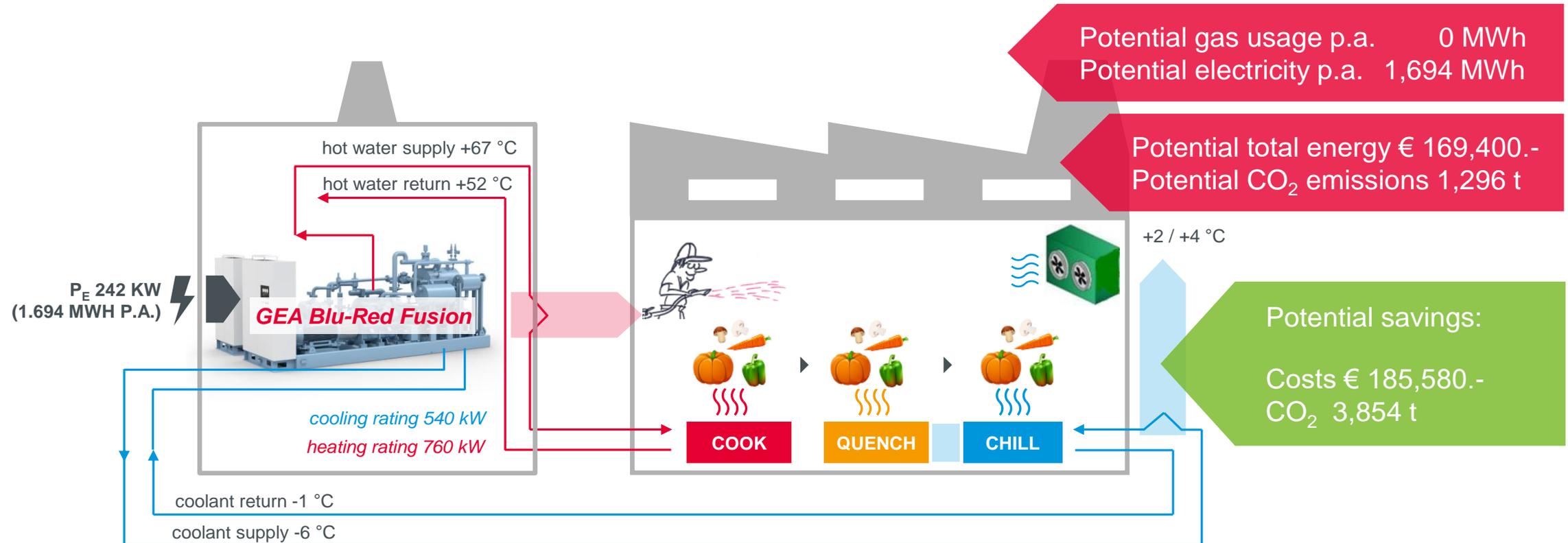
# Project Reference: „Cook-Quench-Chill“

The new factory layout



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## Potentials of the new GEA Blu-Red Fusion



**Thank you for your  
attention.**

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