

HEAT CHECK



I – General Information

Information	
Company	
Location	
Contact person	
Process unit	



II – Information about heat source

Information heat source	Unit	Example value	Customer value
Medium (Excess)-Steam <i>wet, saturated, superheated, LP, MP</i> - Condensate Low- & Medium Pressure - Hydro-Carbon stream gaseous, liquid, two-phase - Exhaust gas dust content, sulfur content	-	<i>Saturated steam</i> <i>Demineral. water</i> <i>Diesel/Petrol/ ...</i> <i>FCC exhaust gas</i>	
Chemical composition	Vol. %	<i>60% H₂O, 30% CO₂,</i> <i>5% O₂, 5% NO_x / SO_x</i>	
Specific heat capacity cp (if known)	kJ/(kg K)	<i>2,1 kJ/(kg K)</i>	
Temperature of heat source, T _{in}	°C	<i>450 °C</i> <i>150 °C</i> <i>85 °C</i>	
Required exit temperature, T _{out}	°C	<i>150 °C</i> <i>not relevant</i> <i>as cold as possible</i>	
(Operational)-Pressure	bar (abs) bar (g)	<i>3 bar (abs)</i>	
Mass flow / Volume flow	Nm ³ /h, kg/s, l/s, t/h, m ³ /h	<i>20 000 Nm³/h</i>	
Previous heat reduction / usage	-	<i>Air cooler</i> <i>Cooling water</i> <i>None</i>	
Operating hours per year	h/year	<i>8 760 h</i>	
Next standstill of the process unit	-	<i>beginning 2026</i>	

III – General conditions

Information	Unit	Example vlaue	Customer value
Electricity price	€/MWh _{el}	150	
Expected payback time	years	< 4	

IV – Further relevant information

For example: dust decomposition, sulphuric content, acidic dew points, or other contamination.

If available, feel free to attach the following documents:

- Water specifications
- Process flow scheme
- P&ID
- Data sheets of existing air / water cooler
- Data sheets of existing heat exchangers
- Prozess-Flow Schema oder P&ID

