

Information needed for flue-gas heat exchanger request (HRE- Heat Recovery Exchanger)

On side of hot medium – air

1) Air mass flow	kg/s or Nm ³ /s	<input type="text"/>
2) Air temperature at heat exchanger inlet	°C (min. to max. range)	<input type="text"/>
3) Required or expected air temperature at heat exchanger outlet	°C	<input type="text"/>
4) Air pressure	bar.g	<input type="text"/>
5) Chemical composition of air defined by: concentration of individual elements / compounds or humid air with H ₂ O vapors or flue-gases of NG / LFO with excess air (λ)	% vol.	<input type="text"/>
6) Amount of substances that can condensate (for ex. specific humidity)	kg (H ₂ O)/kg dry air	<input type="text"/>
7) Amount of Suspended particulate matter (SPM)	mg/Nm ³	<input type="text"/>
8) Required or expected max. pressure drop	Pa	<input type="text"/>
9) Fouling factor	m ² K/W	<input type="text"/>

On side of cold medium (gas or liquid)

1) Medium type (gas / liquid), mixture of substances. For the non-usual liquid mixtures, define thermophysical properties depending on temperature (density, specific heat, dynamic viscosity, heat conductivity)		<input type="text"/>
2) Cold medium mass flow	kg/s	<input type="text"/>
3) Temperature at heat exchanger inlet	°C (min. to max. range)	<input type="text"/>
4) Pressure of cold medium	bar.g	<input type="text"/>
5) Chemical composition of cold medium by: concentration of individual elements / compounds or humid air with Suspended particulate matter (SPM) (in case of gas medium)	% vol.	<input type="text"/>
6) Amount of Suspended particulate matter (SPM) (in case of gas medium)	mg/Nm ³	<input type="text"/>
7) Required max. pressure drop	Pa (kPa)	<input type="text"/>
8) Fouling factor	m ² K/W	<input type="text"/>

Device power

Target efficient power (kW) of heat exchanger can be stated, if needed.

Disposition requirements

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| 1) Connecting dimensions for each medium. | <input type="text"/> |
| 2) Size of dedicated free area on construction site. | <input type="text"/> |

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