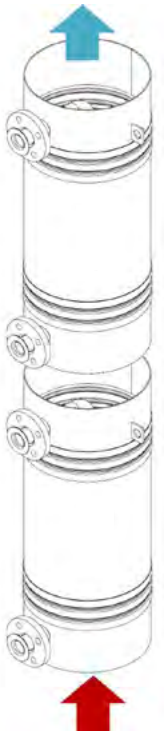
Exchangers in parallel:

If the drop in pressure on the fumes is too great, it is always possible to put two exchangers in parallel, which will have the effect of dividing the fume flow rate by two. The thermal power recovered then represents twice the power given by the graph. The liquid flow rate to be taken into account is also twice that given by the graph.

For instance: for a flow rate of 8000 Nm^3 per hour at 450°C, the graph indicates a pressure drop of 4500 Pa, which may be too high according to your specification. By putting two exchangers in parallel the fumes flow rate under consideration is then 4000 Nm^3 per hour with the result that the pressure drop is 1450 Pa.



Exchangers in line:

If the drop in pressure on the fumes, calculated from the graph, is lower than the acceptable value for your system, it is then possible to recover more heat by using a second exchanger in line with the first one.
The pressure drop on the fumes is then double the initial value. In this case, please contact us for an estimate of other values.

Notes:

1. The graphs shown above give the possibility of drawing up an initial technical validation from the values of your thermal energy source. Please note that you are welcome to contact us for further technical details.

2. For any sizing where hot gas is used to reheat the air or for generating steam, please contact us directly.

ACTE

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