



CC-THERM

Typical applications of CC-THERM

- ➔ shell and tube, double pipe and plate heat exchangers
- ➔ air cooler
- ➔ calculation of the overall heat transfer coefficient (k or U) and the area

Advantages of CC-THERM

- ➔ vertical or horizontal condensation and evaporation (in case of shell and tube heat exchanger)
- ➔ choice of construction
- ➔ optimisation according to minimised area
- ➔ vibration analysis of pipes
- ➔ transfer of k or U -value and area to CHEMCAD
- ➔ heat curve compatible with other heat exchanger programmes
- ➔ TEMA sheet

CC-THERM is available as a stand-alone or as an add-on programme.

A heat exchanger in CHEMCAD is calculated thermally obtaining important parameters. CC-THERM is the tool to design this heat exchanger. As a result the heat transfer coefficient and the heat transfer area are calculated. Based on the heat exchanger construction data a comparison with the CHEMCAD calculation is obtained. It is possible to optimise the heat exchanger heat transfer area automatically by forcing design parameters such as tube length, tube passes, tube layout, shell diameter and baffle design and spacing.

The results can be combined with the CHEMCAD flow-sheet thus allowing an automatic calculation of the heat transfer coefficient with each CHEMCAD simulation.

