

Cooling jacket

Thermal control of tanks and reactors



Heat-exchange system installed inside or outside a tank, allowing process fluids to be cooled or heated through the circulation of a thermal fluid —glycol water, cold water, steam or thermal oil—. It is mainly used in processes with critical and continuous thermal control: fermentations, chemical reactions, macerations, dissolutions or isothermal product maintenance.

It can be implemented with a submerged smooth-tube coil, a pillow or dimple plate integrated into the tank wall, or an external jacket. Each format has specific advantages depending on the pressure, temperature and type of process fluid. Compatible with dairy, wine, brewing, chemical —caustic soda, detergents, agrochemicals— products, sugar, gelatines and vegetable oils. Custom design to maximise the overall heat-transfer coefficient, reduce process time and adapt to the hygienic and sanitary requirements of each industrial sector.



TECHNICAL SPECIFICATIONS

Operating mode	Cooling or heating
Thermal fluid	Glycol water, steam, thermal oil
Implementation	Submerged coil / Pillow plate / Jacket
Chemical compatibility	Caustic soda, detergents, agrochemicals, etc.
Materials	Stainless steel / special alloys
Cleaning	CIP/SIP compatible
Design	Fully custom

CIP

automatic-cleaning compatible

Custom

each tank calculated

Control

precise temperature control