

Alfa Laval in brief

Alfa Laval is a leading global provider of specialized products and engineered solutions.

Our equipment, systems and services are dedicated to helping customers to optimize the performance of their processes. Time and time again.

We help our customers to heat, cool, separate and transport products such as oil, water, chemicals, beverages, foodstuffs, starch and pharmaceuticals.

Our worldwide organization works closely with customers in almost 100 countries to help them stay ahead.

How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com

Hidden treasures in nickel processing

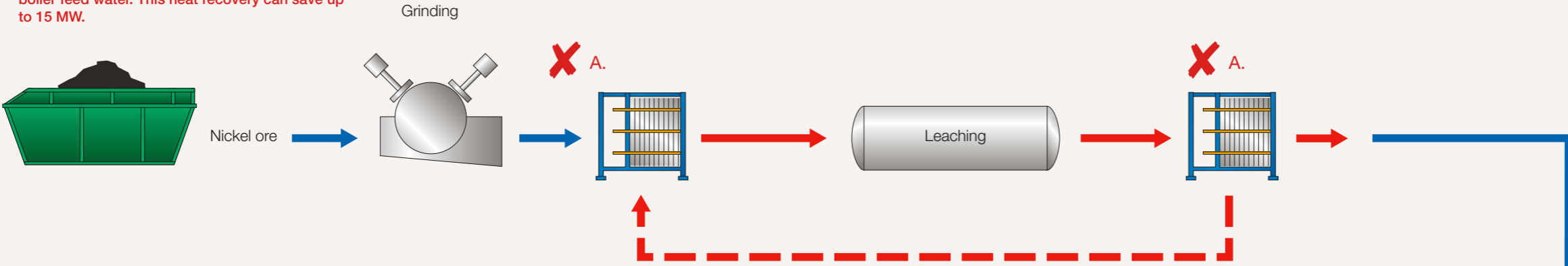


And how compact heat exchangers from Alfa Laval can help uncover them

Recovering heat from nickel processing

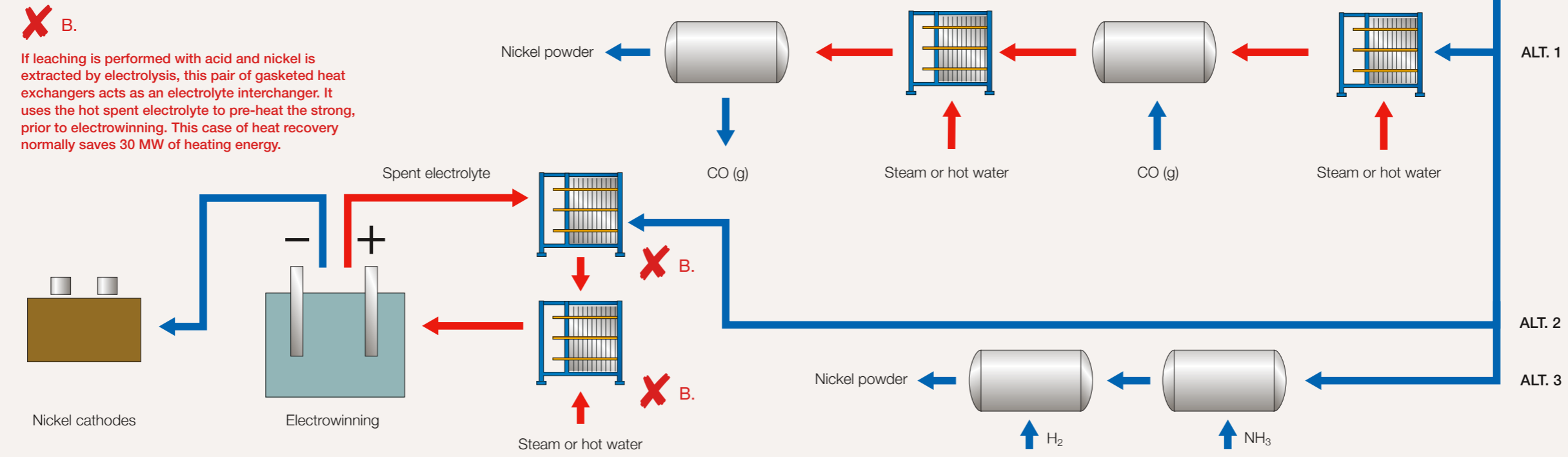
X A.

This plate heat exchanger uses the heat of the hot rich acid to pre-heat the incoming leach medium. At the same time, the rich acid is cooled prior to separating and extracting the leach medium. There is also possibilities to use the heat to pre-heat boiler feed water. This heat recovery can save up to 15 MW.



X B.

If leaching is performed with acid and nickel is extracted by electrolysis, this pair of gasketed heat exchangers acts as an electrolyte interchanger. It uses the hot spent electrolyte to pre-heat the strong, prior to electrowinning. This case of heat recovery normally saves 30 MW of heating energy.



In nickel production, acid leaching, electrowinning and other energy-intensive extraction processes can be tapped for vast amounts of heat. Heat that can be fed right back into the flow, with an unparalleled yield.

Compact heat exchangers – whether gasketed, welded or spiral – are the most efficient technology for heat transfer known to man. Their close temperature approach, high internal turbulence

and large heat-transfer areas combine to squeeze up to 30 percent more energy out of every heat flow than conventional shell & tube units.

By replacing those costly and bulky units with Alfa Laval's compact heat exchangers, nickel processing plants around the world are discovering (and saving) many megawatts of hidden energy each year.