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TYPE S DIMPLED WELDED PLATE AND SHELL HEAT EXCHANGER





S type welded plate heat exchanger ingeniously combines the **efficiency** of the welded plate heat exchanger and the reliability of the shell and tubes. A dimpled plate pack is fitted into a cylindrical shell. Materials can be stainless steel and nickel alloys.

Thanks to the self pressure withstanding design of the dimpled plate, shellside offer a free gap channel, easy to clean (removable plate pack), low pressure chop for condensation.

Uique U plate design (as U tube) make S type plate and shell welded plate heat exchanger ideal for cycle use.

 \rightarrow Efficiency and reliability (one third of shell and tubes foot print) \rightarrow Ideal as a condenser (low pressure drop) \rightarrow Free thermal expansion (Uplates) (ideal for cyclic use)



An alternative solution to U-tube design

Type S-CFU

Entirely welded construction, very compact and extremely safe owing to being totally gasket-free

Type S-BFU

The plate side is entirely welded; the bundle being removable, the shell side can be mechanically cleaned

Type S-DFU

The bundle is extractable, and the front box can be removed. The shell side is perfectly cleanable by mechanical means. The plate side can be opened for inspection. Very rapid bundle or plate replacement is possible

The universal condenser solution

Some examples of applications :

- Olvent overhead condenser: hybrid construction, Ni alloy plate pack with glass shell
- 2 stages condenser with water at 1st stage and glycol at 2nd stage
- 3 Vapor top-column condenser
- Ocuble-stage condenser with integrated decanter (200 L)



Same performance as plate heat exchangers

Same reliability as shell and tube

Temperature resistance up to **350 C**

Pressure resistance up to **25 bars** (plate) and **40 bars** (frame)

Removable plates pack for inspection and cleaning

Free expansion due to unique innovative U-plates design



1



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