



## Performance at heart

Alfa Laval T35/TS35 gasketed plate heat exchanger





# The next generation heat exchanger

Alfa Laval's all-new T35/TS35 gasketed plate heat exchanger offers many advantages:

- High uptime
- Low maintenance costs
- Energy savings due to minimum fouling
- Low investment costs
- Easily expandable capacity
- Maximum operational reliability



## Broad range of applications

Alfa Laval T35/TS35 is a very versatile heat exchanger. A wide selection of available plate and gasket materials makes it suitable for use in many different positions – from basic water-to-water duties to tough applications with high temperatures, aggressive media and high pressures.

T35/TS35 is the perfect choice when you need a closed-loop cooler, utility or process heat exchanger in industries such as:

- Nuclear power
- Conventional power
- Renewable/clean power
- Steel
- Mineral processing
- Petrochemicals
- Ethanol
- Sugar
- Fertilizers

Contact your local Alfa Laval representative for more information on how you can benefit from Alfa Laval T35/TS35.





## High productivity and low lifecycle costs

Performance, reliability and lifecycle costs are critical factors when investing in a new heat exchanger and often impact on plant profitability. Alfa Laval T35/TS35 focuses on these factors and features several innovations that reduce maintenance costs, maximize heat transfer and increase uptime.

### Less fouling ...

The new, patented Alfa Laval CurveFlow heat transfer plates give Alfa Laval T35/TS35 a highly uniform flow distribution, which eliminates stagnant zones and reduces fouling.

CurveFlow plates have an exceptionally low pressure drop over the distribution area. This makes it possible to operate with a higher pressure drop over the main heat transfer area, which increases turbulence and prevents fouling.

### ... means higher profitability

Reduced fouling leads to longer intervals between cleaning and more uptime, as well as lower costs for labour, cleaning chemicals and spares.

Less fouling can also result in substantial energy savings when the heat exchanger is used in interchanger and heat recovery duties.

### Quick and easy maintenance

Servicing a T35/TS35 is simple and effortless thanks to:

- Alfa Laval's new, patented ClipGrip gaskets. These offer totally glue-free attachment and stay firmly in place during opening and closing.
- The Five Point Alignment System, making sure all plates hang straight and minimizing plate pack misalignment.
- Swing Foot and Bearing Box. Our unique solutions that make opening and closing a T35/TS35 easy.
- Securely attached glue type gaskets. Alfa Laval's oven-cured two-component epoxy glue makes certain our glue type gaskets do not detach when opening the T35/TS35 or during mechanical cleaning.
- Full access to all plates and gaskets.
- High mechanical strength of the plates, minimizing damage.



The new Alfa Laval ClipGrip glue-free gaskets make regasketing faster than ever. The attachments grip both sides of the plate and hold the gasket firmly in its groove.

### Lifelong support for high ROI

Alfa Laval offers many services that help maximize return on investment throughout the entire lifetime of your heat exchangers. Our global network of service centres and field service engineers makes sure your heat exchangers operate at optimum conditions and deliver peak performance.



# Maximum efficiency and flexibility

Each Alfa Laval T35/TS35 is custom built and optimized for its operating conditions. Our engineers help pick the perfect plate and gasket materials and tailor the unit to your specific needs.

## High thermal efficiency

Alfa Laval T35/TS35 has very high thermal efficiency. The counter-current flow allows it to operate with crossing temperatures and a temperature approach as small as 2°C (3.6°F).

The unique Alfa Laval CurveFlow distribution area gives T35/TS35 a

highly uniform flow across the plate, resulting in superior heat transfer and minimum required heat transfer area.

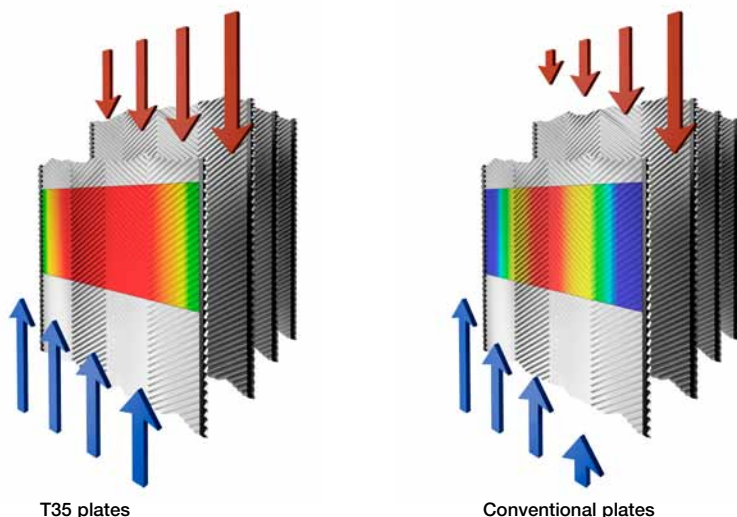
The high thermal efficiency makes T35/TS35 very suitable for interchanger and heat recovery duties.

## Compact size

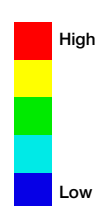
T35/TS35 is also an excellent utility heat exchanger and central cooler. Besides high reliability and low maintenance costs, high thermal efficiency makes T35/TS35 smaller than comparable units.

This makes T35/TS35 easy to fit into existing structures, keeping installation costs down, and making it possible to expand capacity in limited space.

The compact size minimizes investment costs when exotic materials such as titanium or special nickel alloys are needed.



Heat transfer efficiency



Flow velocity



The new CurveFlow distribution area gives T35/TS35 a highly uniform flow distribution. This eliminates stagnant zones and reduces fouling. It also improves heat transfer efficiency since heat transfer is at its peak when the hot and cold streams flow evenly over the plates.

## Alfa Laval in brief

Alfa Laval is a leading global provider of specialized products and engineering 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

Contact details for all countries are continually updated on our web site. Please visit [www.alfalaval.com](http://www.alfalaval.com) to access the information.

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