



Play it safe

Compabloc Free Flow – designed for patient safety,
operational reliability and production efficiency



Your first choice condenser ...

All pharmaceutical companies share a drive for patient safety and maximum efficiency. Good manufacturing practices are constantly being developed, putting ever higher demands on API manufacturers and their processes.

With decades of experience in the pharmaceutical industry we understand your requirements. We supply solutions that meet the highest manufacturing standards and help increase production efficiency to companies across the world.

The Compabloc Free Flow condenser is the result of our long experience from both heat exchanger design and the pharmaceutical industry. It offers a state-of-the-art hygienic design, high performance, low operating costs and easy installation in minimal space.

Our expertise in heat transfer and strong local presence make us a reliable partner when you want to improve plant operations. We can help you from initial design to continuous service, all with a focus on high quality and efficiency.





... offers many benefits

- State-of-the-art hygienic design, ensuring patient safety
- No contact points on the product side
- No dead spots or crevices
- Fully drainable
- Fast and easy cleaning
- Full access for inspections of product-wetted surfaces
- Compact – fits any space
- Low installation, operating and maintenance costs
- Available in corrosion resistant materials

Please visit www.alfalaval.com/compablocfreeflow for further information and technical specifications.



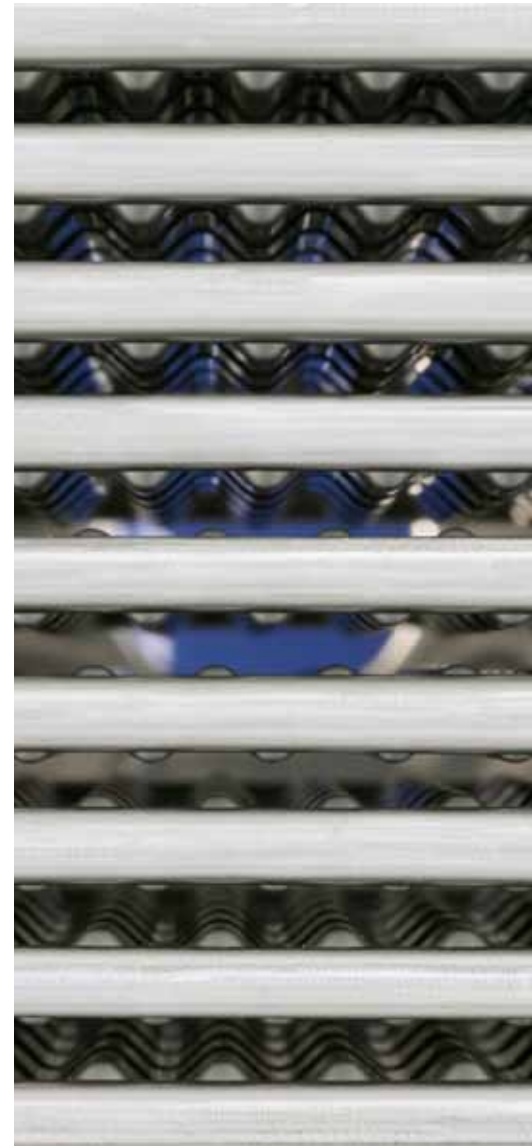
... for patient safety ...

Every detail in a Compabloc Free Flow is designed for patient safety. Compabloc Free Flow fully meets the requirements for installation in stringent cGMP processes.

Cleaning and validating a Compabloc Free Flow is quick and easy. It is fully drainable and the risk of cross-contamination between batches is minimal thanks to the absence of crevices, dead spots and contact points on the product side.

Inspections are easily performed by simply opening the panels, giving you full access to all product-wetted surfaces.

Since Compabloc Free Flow is available in highly corrosion-resistant materials, it is the perfect replacement for graphite blocks or shell-and-tubes.



No contact points on the product side

... and operational reliability

A Compabloc Free Flow condenser is built to last. The all-welded, robust design makes it insensitive to heat and cold shocks and you never have to worry about leaking gaskets.

Its high thermal efficiency makes Compabloc Free Flow exceptionally compact and easy to install in small spaces. This keeps installation costs to a minimum, both when retrofitting and installing new equipment. The compact size also leads to low investment costs when exotic materials are needed.

With Compabloc Free Flow you cut operating costs. Its high thermal efficiency means it requires less cooling medium than other types of condensers, alternatively you may use a less costly cooling medium at a higher temperature. The low pressure drop in a Compabloc Free Flow makes it very suitable for deep vacuum condensing duties.

Maintenance costs are minimal for a Compabloc Free Flow. The highly turbulent flow minimizes scaling on the cooling media side and makes cleaning highly efficient.



Compabloc Free Flow in a two-pass arrangement with outlet for non-condensable gases

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 to access the information.



www.alfalaval.com/compablocfreeflow