Whether you need a power plant utility cooling solution, a lean/rich amine interchanger for gas sweetening, central coolers on board a ship or any one of hundreds of other application solutions, the APV XL Series will always offer a perfect fit.

APV created the XL Series in response to the need for a complete platform of gasketed plate heat exchangers that can be customised to specific, heavy-duty heating and cooling applications and performance requirements.

Complete range
APV is the strongest global supplier of a complete range of high-capacity, compact and cost-effective gasketed heat exchanger solutions. With scalable configurations featuring porthole sizes of Ø300, 350, 400 and 500 mm, a range of heat transfer areas up to 3,200 m² and flow rates up to 4,500 m³/h, the APV XL Series lets you configure the perfect solution for your needs – without compromise.

The APV XL Series of high-capacity gasketed plate heat exchangers comprises four families ranging from Sirius and Zephyr to the more compact P and B heat exchangers.

APV Sirius and APV Zephyr offer superior flow rates and high capacity. This means that fewer plate heat exchangers in parallel are required for the cooling job, thus providing for reduced capital investment in the form of lower foundation and installation costs with less piping. In the longer term, a smaller number of units also means lower service costs.

Full range from a single supplier
In addition to the APV XL Series, APV offers a wide range of other heat exchangers including both gasketed heat exchangers for various process applications as well as semi-welded and fully-welded (gasket free) units for use in high-temperature, high-pressure duties running aggressive media (fluid or gasses).
From the inventor of the plate heat exchanger

As the original plate heat exchanger pioneer, APV has accumulated almost a century of experience in technology development for a wide range of needs all over the world. We offer:

- State-of-the-art technology based on tried-and-tested methods
- Materials and techniques that vouch for excellent reliability
- Unmatched operator and maintenance friendliness

Everybody at APV – from engineers and designers to technicians and service personnel – takes pride in perfecting performance for our customers.
APV XL – the power to perform

Flexible design options for a perfect fit - always
APV XL Series of gasketed plate heat exchangers can be customised by type and size for any requirement. Based on an in-depth understanding of your needs, APV engineers can guide you in selecting the right plate design, plate length and corrugation pattern to match pressure drop, thermal performance, shear stress, and other performance requirements dictated by your application. The choice of different plate designs enables you to fully exploit pressure loss regardless of the application.

Convenience and versatility
All APV XL Series gasketed heat exchangers enable full and easy access for cleaning and inspection. Versatility in design means that they can be modified to fit changing or entirely new process conditions and applications, thus protecting your investment.

APV plate designs
- high performance with less steel, lower weight and lower costs

EnergySaver – best heat transfer value for money with less cooling or heating medium
For processing low-viscosity media. Narrow gap and numerous contact points for excellent thermal efficiency and a very close temperature approach. Excellent heat recovery capability.

DuraFlow – best choice for applications with limited thermal demand
Typically for medium- or high-viscosity media or for low-viscosity media with large temperature difference. Wider gap and reduced number of contact points to ease flow of viscous products.

ParaWeld – best choice for aggressive media and elevated pressure
Welded plate pairs design for single and two-phase heat transfer in refrigeration, petrochemical, chemical and other industrial sectors. Welded channels allow handling of aggressive fluids. Resistant to thermal stress. Compact and space-saving design providing high efficiency due to full counter current flow and reduced risk of leakage.

Zephyr
The most flexible gasketed heat exchanger for process heating and cooling and utility applications offering the largest variety of design options, high thermal efficiency and large flow capacity.
Wide plate gap especially suitable for soft duties such as condensing with moderate pressure and large temperature difference.
Performance perfection

Performance perfection is more than hardware. Equally important to performance and productivity are reliability of supply, convenience and safety, as well as lifetime service and support.

Project management supporting timely project delivery
Compliance with the project time schedule is critical to avoiding unnecessary costs. APV has a highly experienced and skilled project management organisation that understands customer needs and is committed to providing full customer support.

APV also appreciates the importance of providing strong and flexible project documentation to meet specific needs. From the first kick-off meeting through documentation and final inspection and delivery you will partner with a fully dedicated team of people who are passionate about your performance.

Global service network
APV offers various service concepts ranging from a »full-service contract« to »do-it-yourself« service supported by genuine spare parts availability throughout the world. APV service technicians are available at short notice to help customers avoid or reduce the impact of problems.

Lifetime partnership and performance
At APV we focus every necessary resource on finding the optimum solution every time. After commissioning, we continue to contribute with knowledge exchange, technology upgrades, spare parts, training, and optimisation services for the entire lifetime of the equipment.
Convenience and safety
APV provides compression tools and a specially designed hoist kit for safe and easy dismantling of XL-heat exchangers for maximum service efficiency.

Hoist kit for safe and easy dismantling
- Pre-installed dual-arm hoist carrying frame on the top bar
- Handles tie bars (up to 80 kg) and nut spinners
- Allows for serviceability all the way around the heat exchanger
- Enables maximum service efficiency and work safety

Reducing total lifetime costs
- Lower installation costs due to low weight (reduced foundation costs) and small footprint (less piping)
- Lower maintenance costs and higher run time due to minimized fouling, easy CIP and inspection accessibility, and no corrosion
- Lower energy requirement due to excellent thermal efficiency, high heat recovery and less cooling medium
- Flexible design options to match current and future requirements
- Lower capital investment requirement due to very high heating/cooling capacity and heat transfer area per unit
- Higher productivity with service tools for maximum service efficiency and work safety