



APV Quasar Plate Heat Exchanger

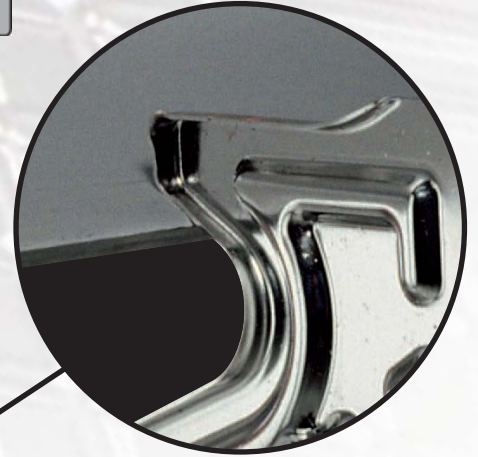


Quasar-Plate Heat Exchanger

~ EnergySaver ~

~ DuraFlow ~

~ DuraFlow Plus ~



Improved hanging area



High Performance Clamping System



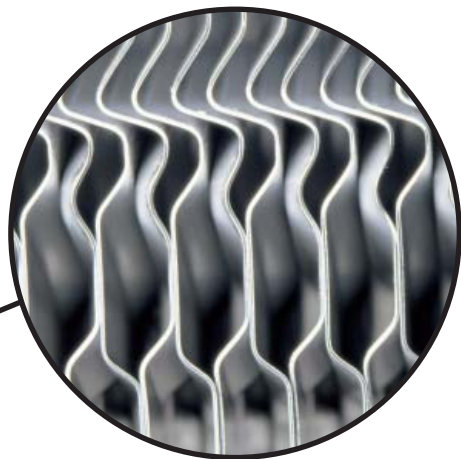
Reverse side of plate



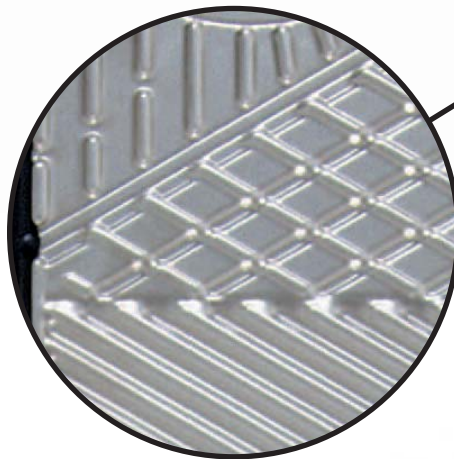
EasyClip Step 1

What's in it for you?

- Increased production time
- Reduced maintenance down time
- Reduced service personnel required
- Reduced spare parts consumption
- Longer life time
- Reduced cleaning time



100% inter-locking



Chocolate Box
distribution System



EasyClip
Step 3

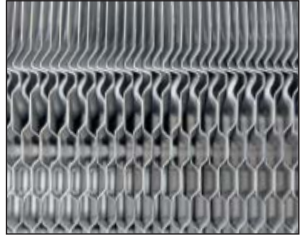


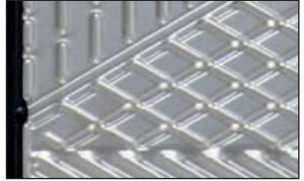


EasyClip
Step 2

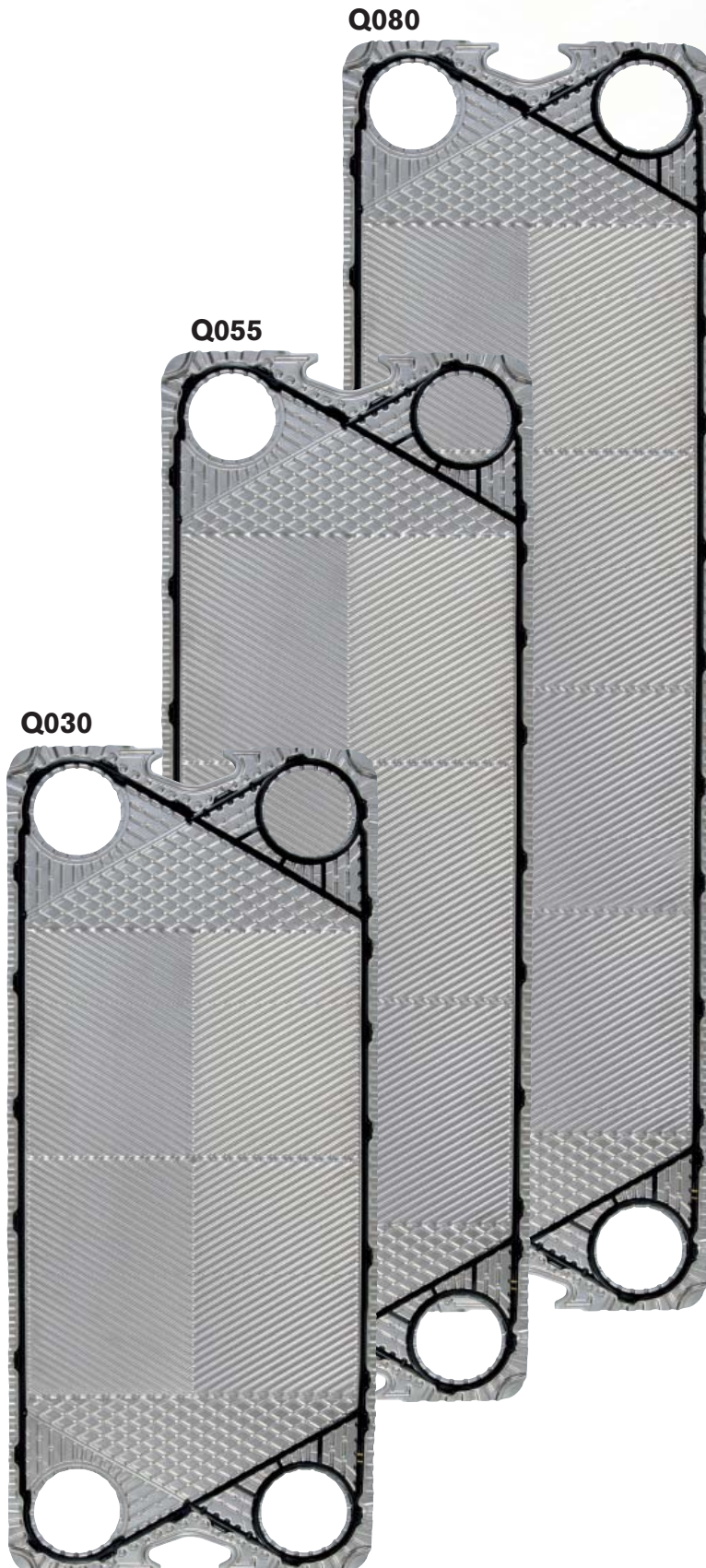


Front side of plate

Quasar advantages & benefits

You will achieve	You will avoid	Added features	
<ul style="list-style-type: none"> ▪ Increased production time ▪ Reduced service down time ▪ Reduced spare parts costs ▪ 100% correct location of the plate pack when re-assembling 	<ul style="list-style-type: none"> ▪ Misalignment of plate pack causing small leaks ▪ Leaks and unnecessary opening ▪ Waiting time ▪ Damages during repair resulting in reduced life time ▪ Leaking after pressure shocks 	<p>High Performance Clamping System</p> <ul style="list-style-type: none"> ▪ A system where the plates lock into each other automatically 	
<ul style="list-style-type: none"> ▪ Easy and rapid gasket change ▪ Reduced service down time ▪ Reduced spare parts costs 	<ul style="list-style-type: none"> ▪ Leaks ▪ Waiting time ▪ The plates moving during assembly ▪ Using chemicals when changing gaskets ▪ Chemicals and cleaning agents attacking the gasket attachment points from outside 	<p>EasyClip</p> <ul style="list-style-type: none"> ▪ Glue-free ▪ Gaskets "receive" the neighbouring plate 	
<ul style="list-style-type: none"> ▪ Quicker handling of plates when assembling or inspecting the plate pack 	<ul style="list-style-type: none"> ▪ Wear on plates resulting in reduced life time ▪ Misalignment of plate pack ▪ Using lubricants, which attracts dirt ▪ Using time to repair the hanging area on the plates 	<p>Improved hanging area and top bar</p> <ul style="list-style-type: none"> ▪ The contact area is increased by 500% to ensure smooth movements and strong construction 	
<ul style="list-style-type: none"> ▪ Increased production time ▪ Reduced cleaning time ▪ Increased production capacity ▪ Reduced pumping costs ▪ Improved product quality 	<ul style="list-style-type: none"> ▪ Maldistribution ▪ Low velocity areas sensitive to fouling build-up ▪ Dead areas 	<p>Chocolate Box Distribution System</p> <ul style="list-style-type: none"> ▪ An improved inlet and outlet area, where distribution of liquid is secured while maintaining a very low pressure drop 	

34 combinations - to meet your needs



- **3 Sizes**
 - Q030
 - Q055
 - Q080
- **3 Plate Types**
 - EnergySaver
 - DuraFlow
 - DuraFlow Plus
- **4 Patterns**
- **DuoSafety**
 - DuoSafety

A wide range of applications

The APV Quasar family of plate heat exchangers is designed to meet the widest possible range of applications from 25 to 200 m³/h. The combinations of sizes, plate types and patterns offer you a large flexibility to match actual needs as well as any adaptation to future changes in desired duty and capacity.

There is simply always a fit

The Quasar family will meet the widest possible range of applications from 25 - 200 m³/h

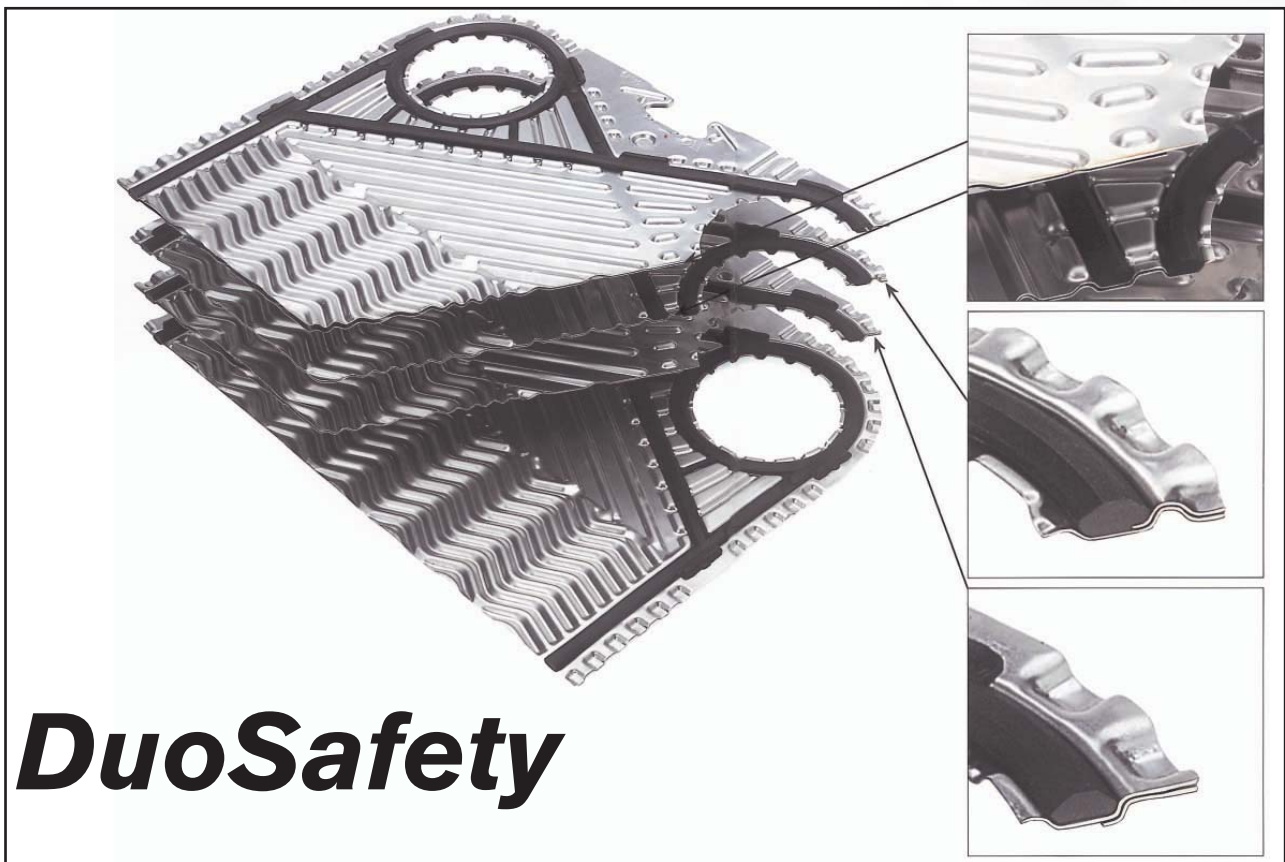
Applications	EnergySaver	DuraFlow	DuraFlow Plus
Low/medium viscosity (<50cP), low-fouling solutions	★	★	★
High viscosity (>50cP), low-fouling solutions	■	★	●
High fouling solutions	■	●	★
Evaporation/condensing duties	★	★	●
Non-condensable gases	●	★	★
Solutions or applications critical for elastomers	■	■	■
Low pressure (<10 bar)	★	★	★
Medium pressure (<20 bar)	★	★	●
High pressure (>20 bar)	★	●	■
Solutions with particles (<1 mm)	■	●	★
Solutions with particles (<3 mm)	▲	■	●
Solutions with fibres (<2 mm)	■	●	★
Solutions with fibres (<10 mm)	▲	■	●
★ = Excellent ● = Suitable ■ = Within working range ▲ = Not recommended			

How much does safety in your process mean to you?



DuoSafety gives you:

- Early warning system to reduce risk of cross-contamination
- Approved alternative to pressure control system
- Improved product treatment*
- A simple, robust, and approved system



DuoSafety

* Your advantages in avoiding a booster pump

- No back pressure valve
- No additional pressure sensors
- No additional logging equipment
- Reduced product hold up
- Reduced power consumption
- Reduced maintenance
- Longer shelf life for food products
- No cavitation problems



Your local contact:



SPX Flow Technology
Platinvej 8, 6000 Kolding, Denmark
Phone: +45 70 278 444 Fax: +45 70 278 445

For more information about our worldwide locations, approvals, certifications, and local representatives, please visit www.apv.com.

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