



# APV Sirius®

## - the highest cooling capacity in the world

### Description

**The APV Sirius® is a new, high- capacity plate heat exchanger for large-scale process or seawater cooling, for example in large-scale power plants, oil & gas processing facilities, and petrochemical process plants.**

Extremely high cooling capacity, high thermal efficiency and flexible design options combine to deliver a highly efficient and cost effective solution with reduced capital investment and service costs.

The new APV Sirius® range is the first of a longer line of new high-capacity plate heat exchanger offerings to meet the need for high cooling capacity and thermal efficiency in large flow applications.

### Application

The APV Sirius® is designed for very large flow applications and is used for process handling and/or utility site cooling services, typically cooling of secondary circuit cooling water – both freshwater and seawater – from approx. 40°C to 30 °C (86°F to 104°F).

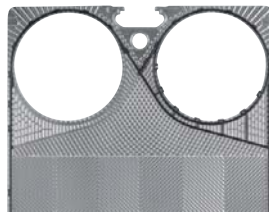
### Product features and benefits

The flexible design options include four plate sizes, one plate design and three plate

patterns and various plate widths, thus meeting most customer requirements for large flow and high cooling and heating capacity. APV Sirius® high-capacity plate heat exchangers offer a number of important benefits including:

### Highest cooling capacity

The APV Sirius® has the largest practically installed heat transfer area per m<sup>2</sup> for a given duty. High cooling capacity and a porthole size Ø>500 mm enabling high flow rates with minimum pressure loss mean that the APV Sirius® offers the highest cooling capacity on the market.



### Huge power, small footprints

High cooling capacity enables customers to reduce capital investment, installation and service and maintenance costs by employing fewer plate heat exchangers for a given cooling application.

### Flexible configuration

A flexible and cost-effective design with various combinations of plate sizes, design, and patterns means that the APV Sirius® can be optimized to meet the vast majority of

technical customer requirements with regard to flow, pressure and thermal parameters using a minimum of material.

### High thermal efficiency

High thermal efficiency is achieved by a combination of several features. Minimum pressure loss, as well as special plate and connection designs, ensures optimum distribution of media across the plate to provide high heat transfer efficiency and less fouling build-up, thus extending service frequency.

### Maximum service efficiency and workplace safety

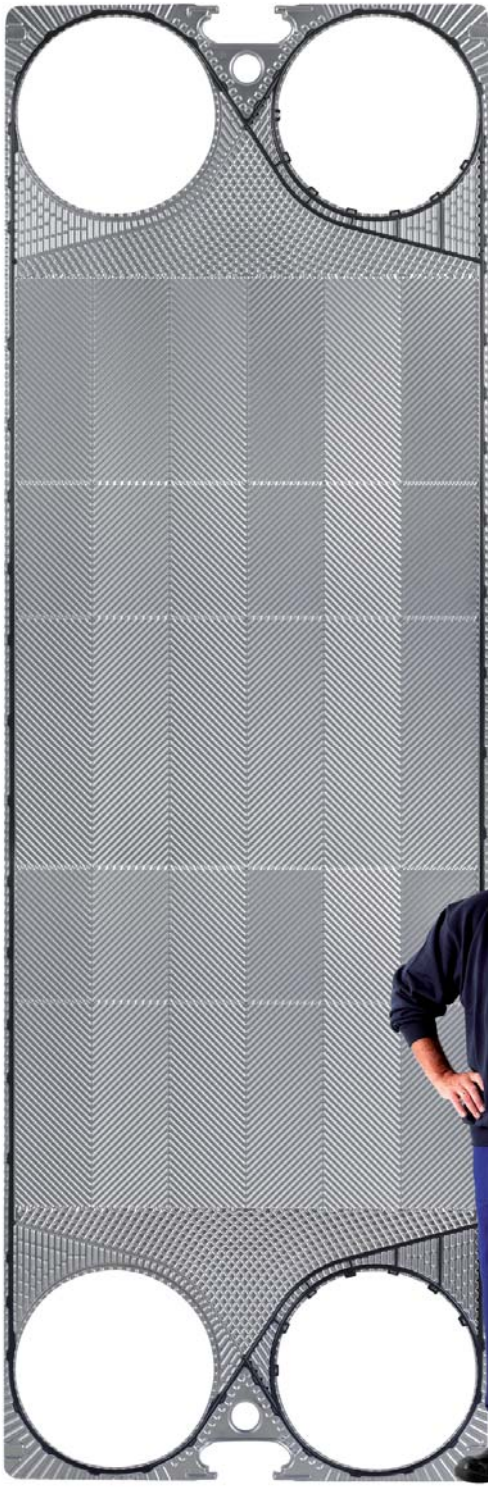
Service tools including compression tool and a specially designed hoist kit enable easy and safe dismantling of the APV Sirius® heat exchanger. This ensures maximum service efficiency and workplace safety.



The APV Sirius® also employs the special "Bubble lock" plate alignment system for easy and correct re-assembly of the plate pack.



# APV Sirius®



	S190	S280	S330	S380
Height (mm)	3081	3725	4070	4415
Width (mm)	1446 mm			
Porthole	500 mm			

## Technical specifications

Plate material:	AISI 316L, Titanium
Gasket material:	NBR Per, EPDM Per.
Design pressure:	10 bar, 16 bar, 150 psi
Design temperature:	Max. 150°C, 302F
Max. design pressure:	16 bar, 232 psi
Approvals:	PED, ASME

APV, An SPX Brand  
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](http://www.apv.com).

SPX Corporation reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing.

Issued: 08/2008 1011-02-08-2008-GB Copyright © 2006, 2008 SPX Corporation

**SPX**®  
WHERE IDEAS MEET INDUSTRY