

A silver cylindrical tank with a blue solar collector panel attached to its side, mounted on a silver metal frame. The tank has the Alpak logo and 'PRISMA' written on it. The background is a bright blue sky with a sunburst effect.

**Alpak**

**Technology & Quality**  
through a new prism

**PRISMA**



## Calpak Prisma®

An innovative, high-tech collector that takes solar water heaters to a new era!

The creation of Prisma® collector makes all of us, at Calpak, very proud. It is an innovative collector that stands out for its technology and manufacturing qualities.

Prisma's smart production platform is fully automated with new robotic systems that are centrally controlled through 5G technology and AI algorithms. It is acknowledged as one of the most advanced solar thermal production platforms in Europe.

The truly resilient water tank combined with the high performing Prisma collector®, ensure an efficient solar water heater that will deliver ample hot water for many years.



## What is the Prisma® collector?

It's an innovative, high-tech collector.

## What makes it innovative?

The polymeric material Colofast® (BASF®) that is used in its production; a world first achievement.

## Where has the Colofast® material been applied to date?

It has been used by the biggest automobile manufacturers in the world for the manufacturing of the car sunroofs.

## What are its features and what value does it offer to the Prisma® collector?

- Perfect adhesion with glass and metal, which makes it ideal for their strong bonding
- Great torsional rigidity and, therefore, robustness throughout the structure
- Absolute waterproofing
- Perfect finish

## How is the Prisma® collector produced in the Calpak factory?

It is produced by a fully automated production line, which includes 5 robotic arms and high-tech machines.

## What are the benefits of an automated production line?

It ensures absolute standardization of the production process and, therefore, the assurance of high quality.

**Make the smart choice and enjoy excellent performance and high energy savings!**





## Prisma® Technical Features

	160/2.0	200/2.0	200/2.5	300/4.0
		3-4 people	4 people	5 people
<b>Collector</b>				
area (m <sup>2</sup> )	2 m <sup>2</sup>	2 m <sup>2</sup>	2,5 m <sup>2</sup>	4 m <sup>2</sup>
efficiency / heat loss coefficient	no,b= 78% / α1= 2,99 W/m <sup>2</sup> K			
maximum output	1524W	1524W	1905W	3048W
absorber	high selective - full plate - laser welded			
frame	colofast® (BASF® patented) & zinc coated alloy steel by Arcelor-Mittal			
insulation	glass wool 30mm			
glass	tempered 3.2mm (safety), low-iron (transparency > 91.5%)			
<b>Tank</b>				
capacity (lt)	155,9	201,7	201,7	275,1
tank material	steel DC-03 2.5mm by Arcelor-Mittal (according to DIN 10130)			
welding method / test	robotics using artificial intelligence / double test at 15bar			
anti-corrosion / cathodic protection	direct enameling (according to DIN 4753/3) / magnesium rod (according to DIN 4753/6)			
antifreeze protection	Calpak Nox (pharmaceutical polypropylene glycol)			
insulation	Injected ecological polyurethane foam (43 kg/m <sup>3</sup> density and 50mm thickness)			
electrical resistance	3,5 KW inox (or less)			
connection to boiler	in triple energy models (trien)			
<b>Certifications</b>				
Quality		Test Labs		
    		 		  

