



VTS U-pipe vacuum tube collector

Unprecedented performance and reliability

The VTS is a Calpak collector of unique design using ultrasonic welding of the copper fins on the copper u-pipe thereby providing outstanding performance and reliability.

Innovative characteristics

Ultrasonic welding of the copper fins on the copper U-pipe:

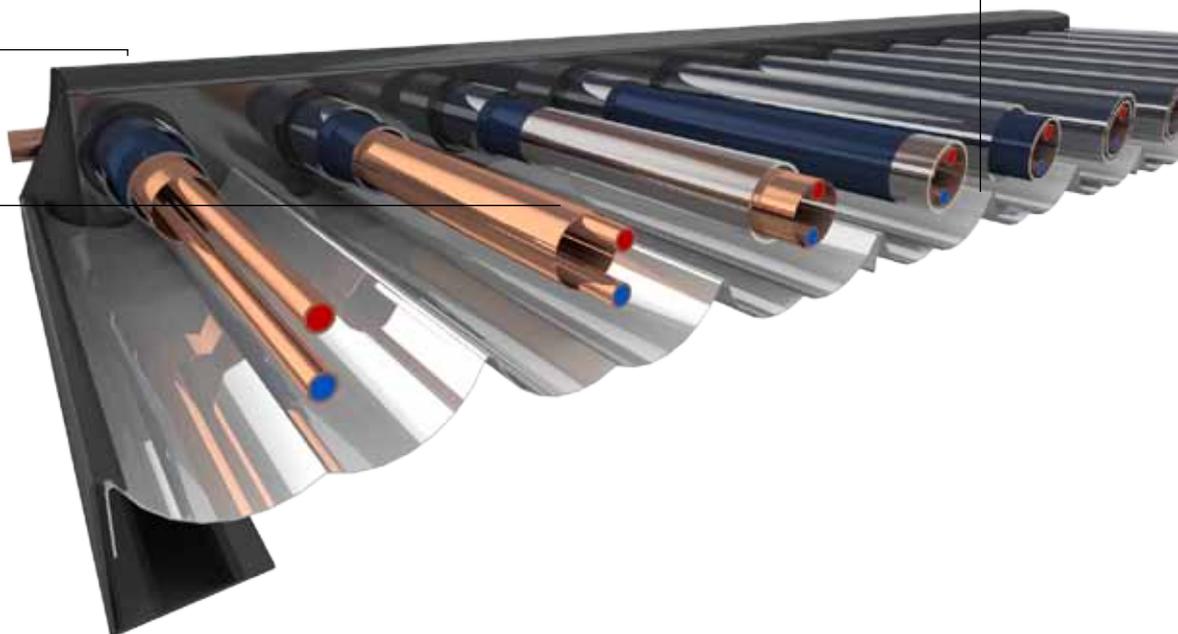
This contributes to the significant enhancement of thermal conductivity between the copper fins and the copper u-pipes. In addition, the use of copper fins considerably improves the resilience of the collectors to strong thermal shocks

Specially designed parabolic reflector (CPC):

The carefully calculated radius of the parabolic shape of our reflectors enhances the exploitation of diffused radiation

Aluminium header and side profiles:

The aluminium profiles used for the header and the side parts of the VTS collector contribute notably to the sturdiness of its structure



Technical Specifications

		VTS-12	VTS-14	VTS-16
Dimensions	Length (mm)	1600	1600	1600
	Width (mm)	1330	1550	1770
	Height (mm)	100	100	100
	Weight (kg)	35	41	45,5
Aperture Area (m ²)		1,93	2,26	2,61
Absorber surface treatment		High Selective		
Absorber material		Copper U-pipe Ø 8 mm / Copper Fin 0,12mm		
Absorber welding		Ultrasonic		
Absorption coefficient		a > 92%		
Emmission coefficient		e < 8%		
Operating pressure (bar)		10		
Casing material		Black Anodized Aluminium		
Header insulation		PU foam 45 kg/m ³ & Fiber glass		
U-pipe insulation		Vacuum p<0,005Pa		
Reflector		Mirror Finish Aluminium (CPC type)		