



ESS

HPL Range

ESS high pressure stand alone models utilise advanced heat pipe technology to give superb performance and durability. The heat pipes used in ESS solar collectors have a boiling point of only 25°C. So when the heat pipe is heated above 25°C (86F) the water contained in the copper pipe vaporizes.



This vapour rapidly rises to the top of the heat pipe and transfers heat. As the heat is transferred at the condenser (top), the vapour condenses to form a liquid (water) and returns to the bottom of the heat pipe to once again repeat the process.

Each heat pipe is tested for heat transfer performance and exposed to 250°C (482F) temperatures prior to being approved for use. For this reason the copper heat pipes are relatively soft.

Heat pipes that are very stiff have not been exposed to such stringent quality testing. Given this strict quality control and high copper purity, the life expectancy of the heat pipe is even longer than that of the solar tube.

The available tank sizes are 150L, 165L and 200L with the following features:

- ☀ Quick and simple installation
- ☀ Durable high quality build
- ☀ High pressure stainless steel storage tank
- ☀ Highly efficient heat pipe technology
- ☀ Fully sealed inner water tank

MODEL	Absorption Area (m ²)	Heat Pipe		
		Diameter	Length	No.
HPL150	1.44	Ø 58mm	1800mm	18
HPL165	1.60	Ø 58mm	1800mm	20
HPL200	1.92	Ø 58mm	1800mm	24



714, Cyberport 1, 100 Victoria Road, Pok Fu Lam, Hong Kong

Tel: +852 2989 9171 Fax: +852 2838 7654 Email: info@essearth.com

www.essearth.com

Specifications and technical data are subject to change.