



BER Assessor Data for Firebird Solar Collectors



CPK7210-N Flat Plate Collectors

Aperture area of solar collector	1.79	[m ²]
Zero-loss collector efficiency, η_0	81.8	%
Collector heat loss coefficient, a_1	3.2900	[W/m ² K]
Collector performance ratio, a_1/η_0	0.1340	[W/m ² K]



CVSKC-10 Vacuum Tube (U Pipe) Collectors

Aperture area of solar collector	1.59	[m ²]
Zero-loss collector efficiency, η_0	64.1	%
Collector heat loss coefficient, a_1	1.0590	[W/m ² K]
Collector performance ratio, a_1/η_0	0.0045	[W/m ² K]



TZ58-1800 Heat Pipes

	20 tubes	30 tubes	
Aperture area of solar collector	1.867	1.867	[m ²]
Zero-loss collector efficiency, η_0	73.4	73.4	%
Collector heat loss coefficient, a_1	1.529	1.529	[W/m ² K]
Collector performance ratio, a_1/η_0	0.0166	0.0166	[W/m ² K]