



SunEarth
 Quality Solar Energy Products
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	SunPlate Heat Exchanger Model			
Number of TRB/EP-40 Collectors	SP14(3/4")	SP31(1")	SP110(1.5")	
4	10			
5	20			
7	20	20		
8	30	20		
10	30	30		
11	40	30		Same for DW
12		30		Not Available in DW
13		40		
14-15		40	20	
16-19		50	30	
20-21		60	30	
22-23			30	
24-29			40	
30-31			40	
32-37			50	
38-40			60	

Heat Exchanger Pressure Drop

	SunEarth Heat Exchanger Model			
Number of Plates	SP14	SP31/DW	SP110	SP110DW
10	2.54, 2.69	2.51, 2.66	4.97, 5.27	6.11, 6.48
20	4.70, 4.91	5.38, 5.68	9.26, 9.80	11.47, 12.16
30	6.08, 6.29	7.07, 7.46	13.19, 13.94	16.54, 17.55
40	7.11, 7.27	9.05, 9.55	16.81, 17.72	21.30, 22.77
50	7.80, 7.92	10.83, 11.38	20.26, 21.15	26.25, 27.88
60	N/A	12.46, 13.04	23.21, 24.37	30.94, 32.45

C_v (Solar, Domestic), Solar taken to be 30% by volume Propylene Glycol

Heat Exchanger Fluid Volume, solar fluid side only

	Number of Plates					
SunPlate HX Model	10	20	30	40	50	60
SP14	0.03	0.05	0.08	0.10	0.13	0.15
SP31	0.07	0.14	0.21	0.28	0.35	0.42
SP110	0.26	0.52	0.78	1.04	1.30	1.56
SP31DW	0.06	0.12	0.18	0.24	0.30	0.36
SP110DW	0.22	0.43	0.65	0.86	1.08	1.29