








TECHNICAL SPECIFICATION

SKC, SKW SOLAR COLLECTORS

COLLECTOR TYPE	SKC	SKW
		
	for combination with collectors (distance between panels is 3mm)	for combination with windows
I. APPLICATION		
Installation	Installation angle: 30° – 90°. Recommended installation angle: 30° – 60°.	Installation angle: 15° – 90°. Recommended installation angle: 30° – 60°.
Flashing	Installation with special flashings for collectors. - CZV-A is a module opening and closing each combination - MZV-A allows to expand combination with new collectors.	Installation with standard flashings as for roof windows. The basic criterion deciding on the choice of flashing type is applied roof covering material. It is also possible to use the flashing for combinations as for roof windows.
II. FEATURES		
Collector structure	<ul style="list-style-type: none"> - 4mm thick toughened glass resistant against hailstones - Absorber plate made of copper coated with a layer with high solar radiation absorption efficiency (95%) - Casing made of aluminium profiles guarantees strong and durable structure - Mineral wool insulation with a thickness: 20mm on side walls, 50mm beneath absorber - Special arrangement of copper pipes - Collector bottom made of aluminium sheet metal - Innovative system of sliding installation brackets 	
Control	automatic	
Warranty	5 years	
III. ADDITIONAL PRODUCTS TO BE USED		
Accessories for solar system	<ul style="list-style-type: none"> - SMK and SMB pipes - SBW boilers - SCB pump unit - SBV expansion vessel - SGL glycol - SPC pipe flashing - SBF manual pump for filling the system - SEH electric heater - STS temperature sensor - SAS air separator - SWM water mixer 	

IV. TECHNICAL PARAMETERS FOR SOLAR COLLECTORS IN PARTICULAR SIZES					
COLLECTOR TYPE	SKC	SKW			
size [cm]	114 x 206	78x140	114x118	114x140	114x206
window size symbol	44	07	10	11	44
					
Actual collector size [mm]	1137x2220	777x1400	1137x1180	1137x1400	1137x2060
Gross area [m ²]	2.54	1.09	1.35	1.61	2.54
Absorber area [m ²]	2.07	0.91	1.13	1.36	2.07
Absorber liquid area [l]	1.2	0.6	0.9	1	1.2
Optical efficiency η_0 [-]	0.775	0.747	0.764	0.780	0.775
Linear loss coefficient a_1 [W/m ² K]	3.82	4.44	4.42	4.37	3.82
Linear loss coefficient a_2 [W/m ² K ²]	0.0035	0.0023	0.0027	0.0059	0.0035

