

Dane techniczne płaskich kolektorów słonecznych Ensol ES2V/2,65S i ES2V/2,65B do montażu pionowego

ES2V/2,65S AL-CU and ES2V/2,65B AL-CU – flat solar collector with meander absorber, made of copper and aluminum, designed for vertical mounting.

ENSOL Solar collector ES2V/2,65S AL-CU and ES2V/2,65B AL-CU is designed for changing energy of solar radiation into useful thermal energy used for providing warm service water, heating swimming pools or supporting a heat source in a heating system.

Collector's housing construction is based on a rigid frame bent from a special aluminum profile patented by ENSOL company. At the bottom the housing is closed with an aluminum sheet, whereas the cover is made of special, high-transmission solar glass. The manner of fixing the glass ensures tightness of housing and minimizes thermal tensions.

The main part of the collector is an absorber, the plate of which is made of aluminium sheet covered with the high selective coat in order to ensure high level of solar radiation absorption, which results in obtaining high efficiency of the energy conversion process. Absorber's plate is welded by means of laser welding with the system of copper tubes, in which the medium circulates. Meander absorber ensures steady heat removal through the circulating medium.

Heat losses were minimized by application of lower and lateral insulation. Specially designed assembly sets made of aluminium and stainless steel are used for trouble-free and secure mounting of collectors to roof constructions with different angles inclination.

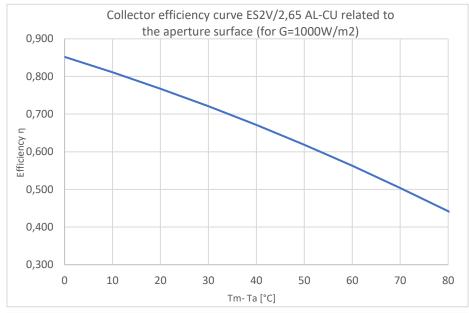
Flat collectors ES2V/2,65S AL-CU and ES2V/2,65B AL-CU B have certificate of compatibility with norm DIN EN 9806:2014-03 and DIN EN 12975-1:2011-01 conducted by TÜV Rheinland Immissionsschutz und Energiesysteme GmbH and Solar Keymark certificate.

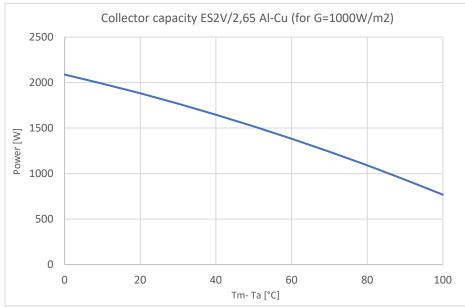


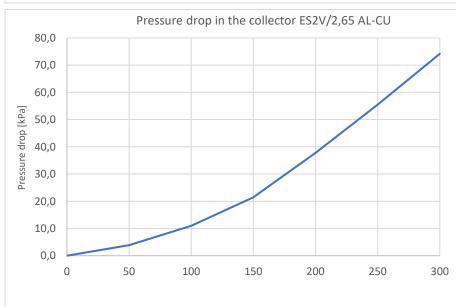
Flat collector:			Symbol		Unit		Value		
Width			A		mm		1120		
Height			В		mm		2356		
Depth			С		mm		85		
·							49		
Weight			m		kg				
Surface Collector efficiency I			S ES3V/2 GE AL Cu /for /		m ²		2,65		
Tm-Ta	0 K	10 I		30 K	G=10	50 K		70 K	
IIII-Id		-					-	1235	
Power					1515 W			W	
		rs rela		area of the		rture			
Optical efficiency			ηo,hem		%		85,2		
Coefficient			a1		W/(m²K)		3,922		
Coefficient			a2			W/(m ² K ²)		0,015	
		o the gross	area			- 0 :			
Optical efficiency			ηο,hem		%		79,1		
Coefficient			a1		W/(m ² K)		3,641		
Coefficient			A2		W/(m ² K ²)		0,014		
0 65 1 1				500)					
Coefficient of angle of incidence			IAM (K _d =50°)		-		0,87		
Connection: copper tube			Ø		mm		22		
Housing			Aluminum profile						
Cover			Tempered solar glass, 4mm thick						
Absorber:									
Absorber's type			Hydraulic system Cu - Al sheet						
Absorber sheet coating			High selective layer						
Technologia wykonania			Laser welding						
Absorption coefficient			α		%	%		95	
Emission coefficient			ε		%		5		
Width			а		mm		10	066	
Height			b		mm	mm 23		303	
Absorber's surface			S _b		m ²	m ² 2,45		45	
Aperture surface			S _a		m ²		2,45		
Liquid content			V		dm	3	2,2		
Stagnation temperature			T _s		°C		192		
Flow:		ok.							
Recommended			I/h 75-105						
Permissible Lower insulation :			I/h 50-150 Mineral wool 40 mm thick						
Lateral insulation			Melamine foam 8 mm thick						
Guarantee		10 years							
Solar Keymark		011-7S2637 F (do 2026-03-31)							



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The key:

tm - average liquid temperature;

ta - environment temperature;

G – intensity of solar radiation