

TECHNICAL DATA		AR1.82CF	AR2.80CF
GROSS LENGTH / WIDTH / HEIGHT	mm	2000*1000*95	2000*1500*95
GROSS AREA	m ²	2	3
OPENING LENGTH / WIDTH / NUMBER	mm	1951*949	1951*1449
OPENING AREA	m ²	1.85	2.826
ABSORBER LENGTH WIDTH / THICKNESS	mm	1951*949*0.4	1951*1449*0.4
ABSORBER AREA	m ²	1.85	2.826
NET WEIGHT	Kg	35	52
FLUID CONTENT	L	1.6	2.5
COVERAGE LENGTH / WIDTH / THICKNESS	mm	1976*976*3.2	1976*1474*3.2
CONVERSION FACTOR BASED ON ABSORBER AREA	(^{AA})	0.805	0.783
HEAT TRANSFER COEFFICIENT ^{A1A}	W/(m ² K)	3.555	3.716
TEMP. DEPENDENT HEAT TRANSFER COEFFICIENT ^{A2A}	W/(m ² K ²)	0.029	0.009
EFFICIENCY (η_0) BASED ON GROSS AREA		0.776	
COVERING MATERIAL		Ultra-white tempered glass with low iron content	
SOLAR TRANSMITTANCE OF GLASS ROOFING	%	≥91,5	
ABSORBER MATERIAL		Aluminium	
SOLAR ABSORPTION OF THE ABSORBER [%].	%	≥92	
HEMISPHERIC EMITTANCE OF THE ABSORBER [%].	%	≤10	
ABSORBER COATING		Blue coating	
HEADER PIPE MATERIAL		Copper tube TP2	
OUTER DIAMETER/HEADER PIPE THICKNESS	mm	φ22*0.6	
UPRIGHT TUBE MATERIAL		Copper tube TP2	
LENGTH / OUTER DIAMETER / THICKNESS OF UPRIGHT TUBE	mm	φ10*0.7	
NUMBER OF UPRIGHTS		9	14
DISTANCE BETWEEN POSTS	mm	93	95.5
CONNECTOR DIMENSIONS	mm	φ22	φ22
THERMAL INSULATION MATERIAL (REAR)		Glass wool and PUR	
THICKNESS THERMAL INSULATION (REAR)	mm	46	
THERMAL INSULATION MATERIAL (SIDE)		Glass wool	
THICKNESS THERMAL INSULATION (SIDE)	mm	20	
SIDE CASING MATERIAL		6063-T5	
REAR CASING MATERIAL		Aluminised zinc plate	
SEALING MATERIAL		Structural adhesive	
MAXIMUM OPERATING PRESSURE [KPA]		800	
MAXIMUM OPERATING TEMPERATURE (°C)		186	
RECOMMENDED HEAT TRANSFER MEDIUM		Deionised water/Antifreeze fluid	