

ITS – EVACUATED TUBE SPECIFICATIONS

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TECHNICAL DATA - EVACUATED TUBE HEAT PIPE COLLECTORS

MODEL	ITS -10 TUBE	ITS - 15 TUBE	ITS -20 TUBE
NUMBER OF TUBES	10	15	20
TUBES DISTANCE	75mm		
DIMENSIONS (mm)	875 x 2000 x 110	1250 x 2000 x 110	1625 x 2000 x 110
FOOT PRINT (m ²)	2.05	2.5	3.25
TOTAL ENERGY RATING	4.17KWhr / m ² /day		
WEIGHT (Empty) KG	34	52	71
PIPE CONNECTIONS (mm)	22		
PRESSURE RESISTANCE	6 Bar		
FREEZING TOLERANCE	Minus 35 Degrees		
FLUID CONTENT (L)	0.67	0.98	1.28
HEAT TRANSFER MEDIUM	Water - Glycol Solution		
WARRANTY	5 years		
LIFE EXPECTANCY	> 25 Years		
MATERIALS	Manifold	Aluminium Alloy	
	Insulation	Glass Wool	
	Header Pipe	Copper	
	Vacuum tube	Borosilicate Glass	
	Heat Pipe	Copper	
	Fin	Aluminium	
	Side Beams	Aluminium Alloy	

VACUUM TUBE	Material	Borosilicate Glass
	Thermal expansion	$3.3 \times 10^{-6} / ^\circ\text{C}$
	Diameter of cover tube	58 mm
	Diameter of absorber tube	47 mm
	Glass thickness	2.2 mm
	Length	1800 mm
	Material of coating	AIN/AIN-SS/Cu
	Vacuum	$\leq 3 \times 10^{-4} \text{ Pa}$
	Absorptivity Coefficient	0.94-0.96
	Emissivity Coefficient	< 0.06 (0.04-0.06)
	Stagnation temperature	> 200°C (200-350°C)
	Heat loss coefficient	$\leq 0.60 \text{ W}/(\text{m}^2\text{C})$
	Impact resistance	Withstand 25mm diameter hailstone
Lifetime	> 15 years	
EXTRA TESTING	CERTIFICATION	SOLAR KEY MARK En 12975-2:2006
	CERTIFICATION TEST	TUV Rheinland
	MANUFACTURING QA	ISO9001:2000

