

ITS – EVACUATED TUBE SPECIFICATIONS



ITS - EVACUATED TUBE SPECIFICATIONS

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
APERTURE AREA (m ²)	0.93	1.39	1.86
ABSORBER AREA (m ²)	0.8	1.21	1.62
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		
STAGNATION TEMPERATURE (°C)	250°		
FLUID CONTENT (L)	0.67	0.98	1.28
TILE ANGLE LIMITED (°)	15 - 75		
HEAT TRANSFER MEDIUM	Water - Glycol Solution		
WARRANTY	5 years		
LIFE EXPECTANCY	> 25 Years		

South Africa's leading **heat pump & solar water heating** supplier

Tel: 021 854 5290 | Fax: 086 505 0707 | Email: info@itsolar.co.za | Web: www.itsheatpump.co.za

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	$\leq 3 \times 10^{-4} \text{ Pa}$
	Absorptive Coefficient	0.94-0.96
	Emissivity Coefficient	< 0.06 (0.04-0.06)
	Stagnation temperature	$> 200^\circ\text{C}$ (200-350 $^\circ\text{C}$)
	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

