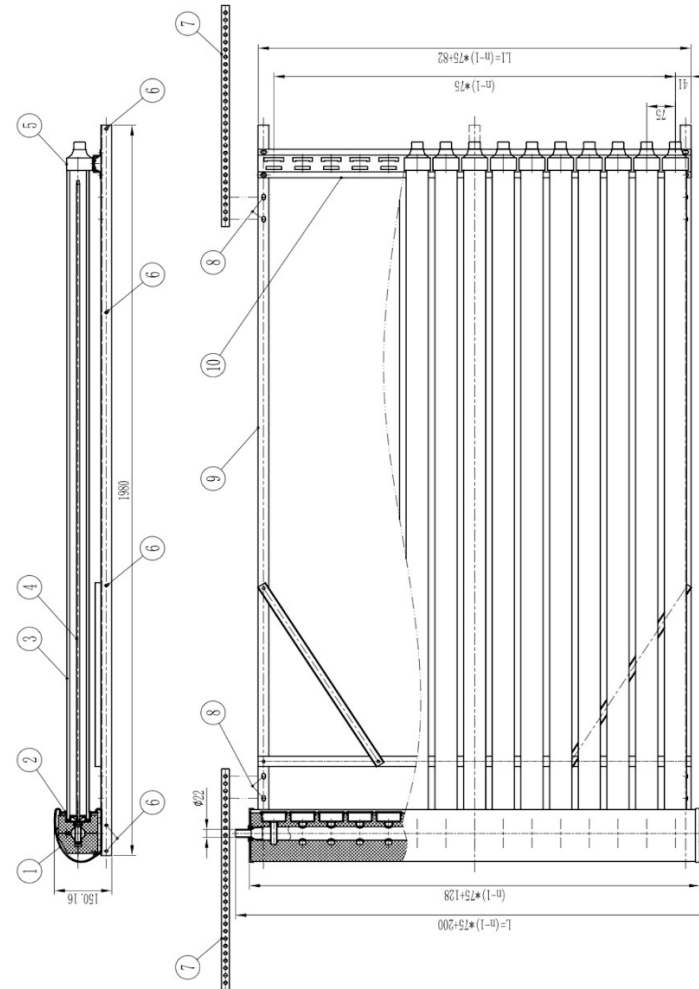


AQUAHEAT WESTERN CAPE
5 SENNA RD, KILLARNEY GARDENS
MILNERTON, 7441
TEL: 0861 50 35 50
EMAIL: heatpumps@aquahheat.com



AQUAHEAT GAUTENG
UNIT 3 LANDMARKS PARK, 17 UNIT LANDMARKS AVE
SAMRAND BUSINESS PARK, CENTURION, 0157
FAX: 0866 31 30 19
WEBSITE: www.aquahheat.com

AQUAHEAT VACUUM TUBE SOLAR COLLECTORS



- 1). Manifold
- 2). Rubber Seal
- 3). Vacuum tube
- 4). Heat pipe
- 5). Tail box
- 6). Prepared holes for flat roof frame
- 7). Fastening Strip
- 8). Holes for Fastening Strip
- 9). Side beams
- 10). Tail Stock

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<u>Technical Specifications</u>	<u>VTC10</u>	<u>VTC15</u>	<u>VTC20</u>	<u>VTC25</u>	<u>VTC30</u>
Number of tubes	10	15	20	25	30
Tubes Distance	75 mm				
Dimensions (mm)	875 * 2000 * 110	1250 * 2000 * 110	1625 * 2000 * 110	2000 * 2000 * 110	2375 * 2000 * 110
Aperture Area (m ³)	0.93	1.4	1.86	2.33	2.78
Absorber Area (m ³)	0.8	1.2	1.6	2	2.4
Total and Useful Energy Rating	4.17 Kw/hr/m ² /day				
Weight Empty (Kg)	34	53	72	90	109
Pipe Connection Size (mm)	22				
Max. Operation Pressure (Mpa)	0.6				
Stagnation Temperature (°C)	225.3				
Fluid Content (L)	0.95	1.33	1.7	2.1	2.4
Tile Angle Limited (°)	15 -- 75				
Heat Transfer Medium	Water-glycol Solution				

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MATERIALS

Manifold	Aluminium Alloy
Insulation	Glass Wall
Header Pipe	Copper
Vacuum tube	Borosilicate Glass
Heat Pipe	Copper
Fin	Aluminium
Side Beams	Aluminium Alloy
Fastening Strips	Stainless steel

VACUUM TUBES

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

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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	$> 200^{\circ}\text{C}$ (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