

## When Quxury meets Necessity

# Pergola Solar Heating System Model

The Pergola Solar Heating System is an innovative application from tube solar heaters. It combines performance as well as architectural objectives to enhance sustainability.

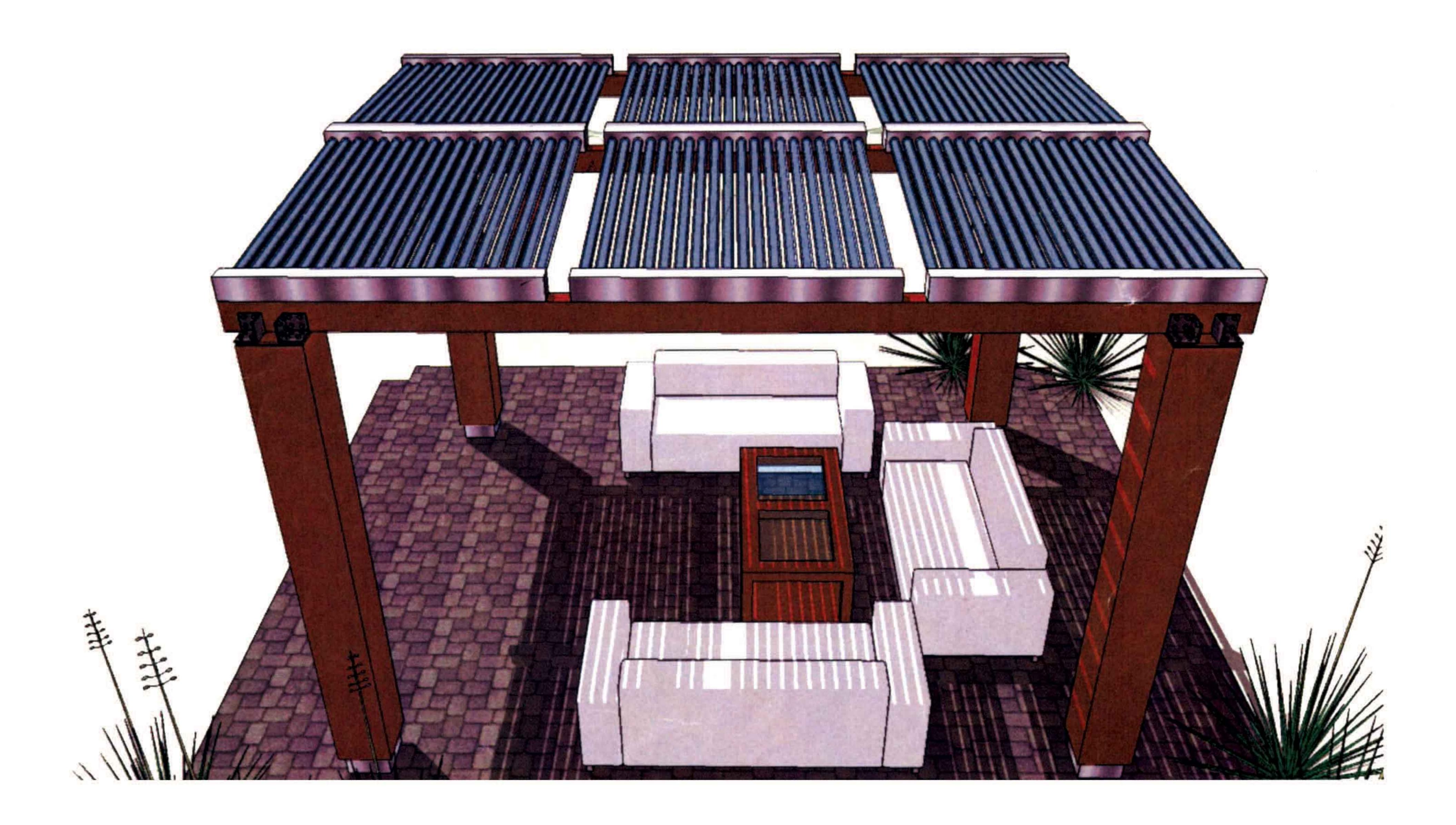
#### Advantages of System

- Dual objective: Pergola design and Solar Heating System
- · High efficiency with 0° degree angle of inclination
- Easy installation
- Flexibility of design and material
- Reduces cooling loads in summer
- Closed loop configuration
- Low mantainence and short return on investement
- Various applications including: Water heating, Space heating,
   Pool heating, Solar air conditioning, Process heat and others



# Pergola

### Solar Heating System Model







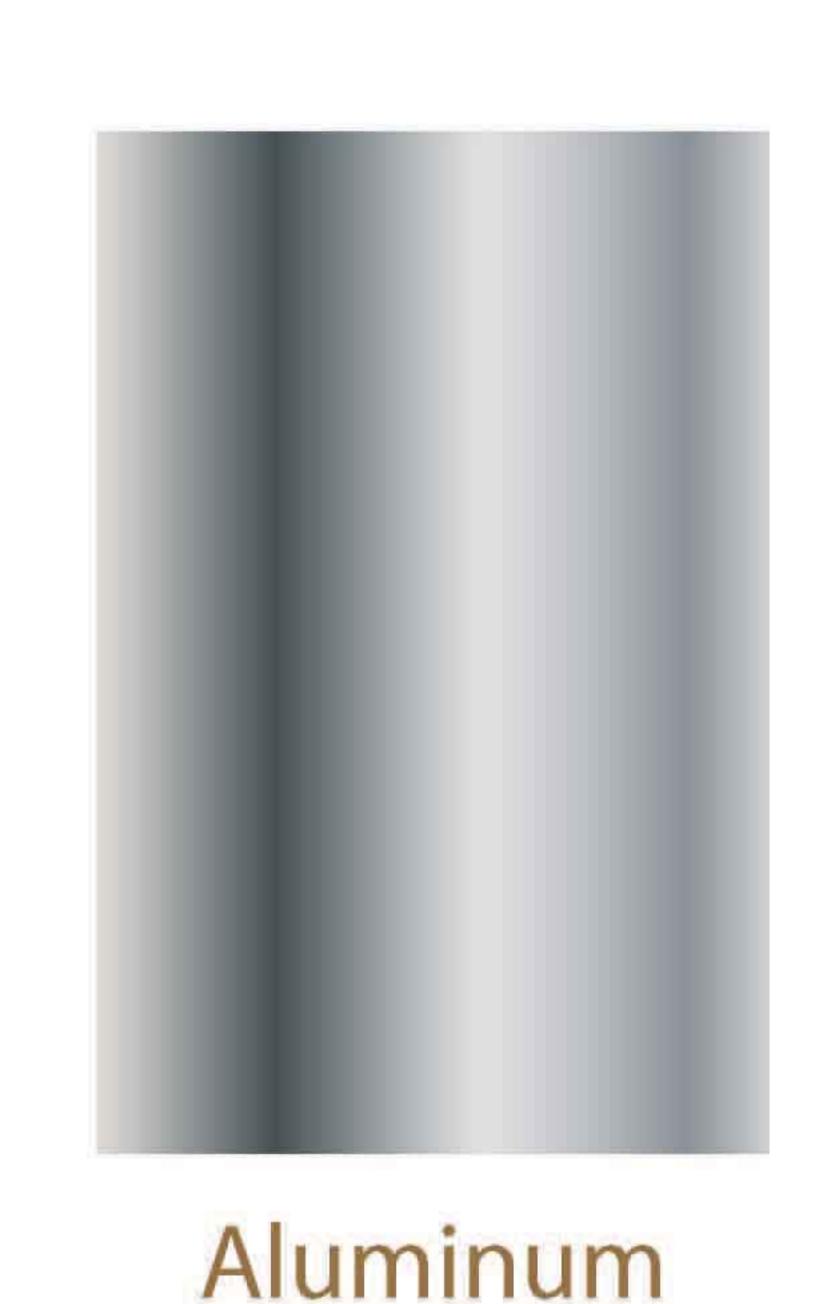
#### Materials and Colours

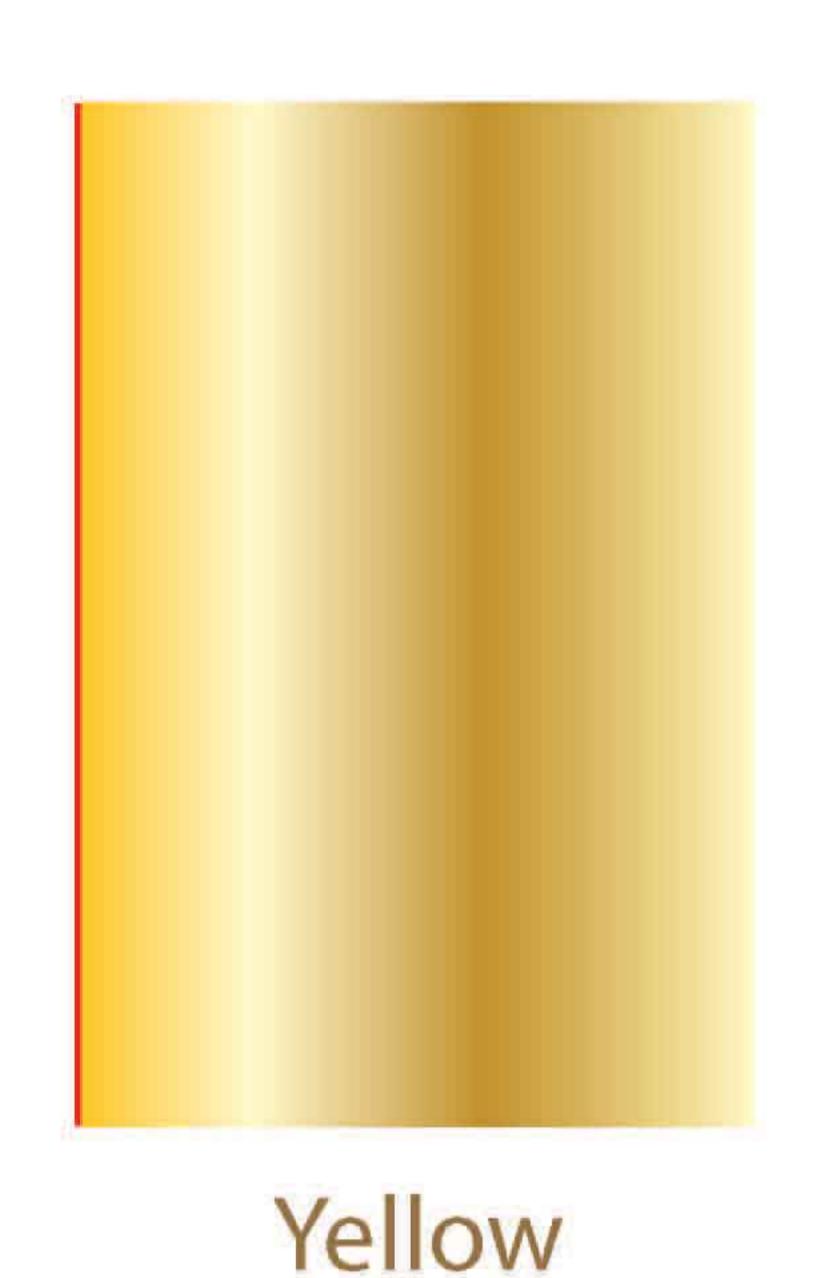
(Others materials and colours upon request)

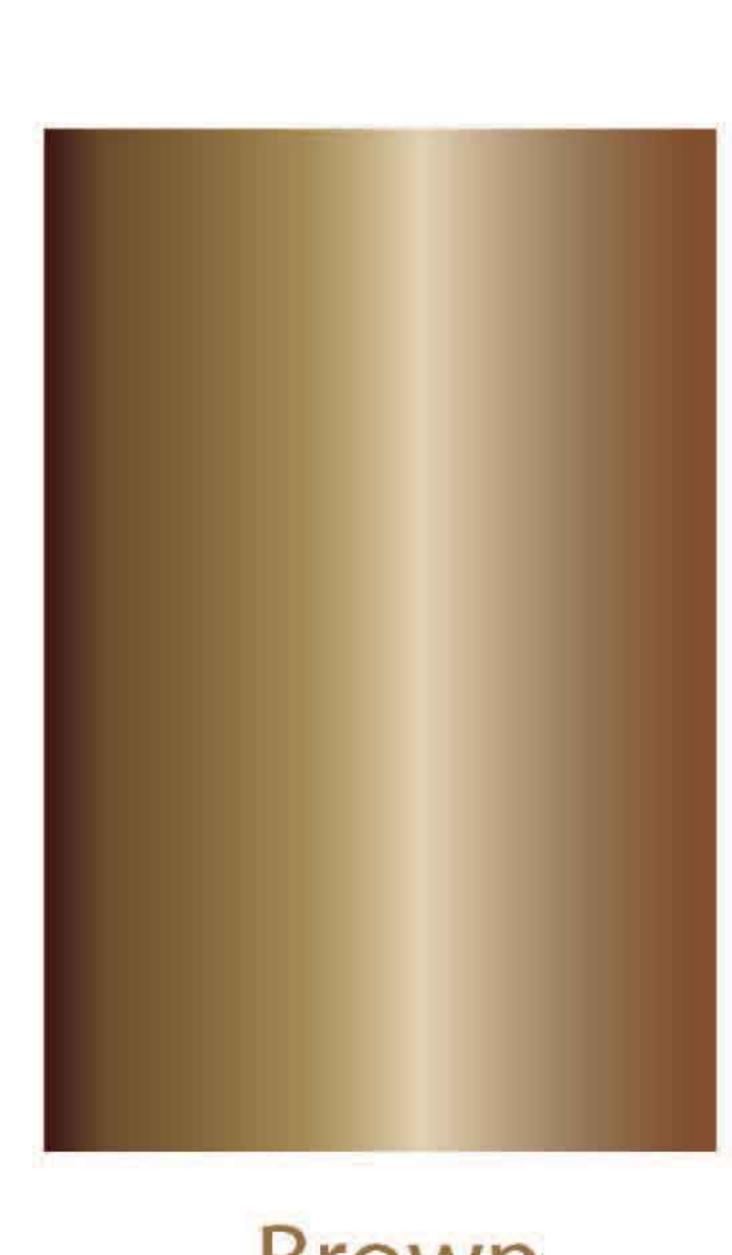












Yellow Brown Aluminum Aluminum

### Technical Specifications I

Alacaula Auroa A	Direct flour vacuum tuba
Absorber type A	Direct flow vacuum tube
Absorber type B	(P)-V- type copper pipe
Absorber material	Selective blue
Glass material	Treated borosilicate glass
Collector's thermal insulation	Polyurethane insulation
Heat Transfer fluid	Glycol 30% - water 70% mixture
Absorptivity	90%
Emissivity	6% at 70 °C
Efficiency	Up to 70%
Stagnation temperature	220 °C
System inclination	0° to 20°
Thermal liquids circulation	Natural or forced convection
Maximum power output	600 w/m2
Tube diameter	5 cm or 6 cm
Material and structure	Aluminum, Wood, Stainless Steel

