



Below is the result of a test done by bringing water to a boil using ARCA-14



12 liter pot filled with 10 liters of water	
Time	°C
11:16	17.3
11:59	43.3
12:30	74.7
12:51	89.3
13:00	94.7
13:04	96.0
13:16	16.2
14:06	66.9
14:24	81.7
14:37	91.7
14:44	97.0
14:49	98.0
14:52	17.3
15:24	38.8
15:34	49.7
15:47	60.1
16:43	82.0
16:48	94.0
16:51	95.1
16:54	96.8
16:55	97.1
Total quantity of water boiled is 30 liters.	

Technical Specification

Power availability at cooking pot : About 0.6 kW (with over 600 W/sq m Direct / 750 W/sq m Total solar insolation available on reflector)

Material of reflectors : Reflector made of complex magnesium with reflective Aluminium film. Anodized Aluminium reflector of 0.45 mm thickness

Reflectivity : 75% minimum

Size of focal spot : 100 mm approx.

Focal length : 280 mm

Dimension & shape : 1.4 m diameter parabolic

Surface area of reflector : 2.20 sq m

Aperture area of reflector : 1.54 sq m

Tracking of the sun : Manual

Weight : 18 kg

Max. temperature : 200°C

Production capacity : 600 W approx.

Thermal efficiency : Over 40 %

Other accessories : Cap, Hand gloves & Goggles.

Life

- Metallic structure : 20 years. Able to withstand high wind speeds.
- Reflecting mirrors : Minimum 5 years.