


<p>SOLAR COLLECTOR CERTIFICATION AND RATING</p>  <p>SRCC OG-100</p>	<p><u>CERTIFIED SOLAR COLLECTOR</u></p> <p>SUPPLIER: Heliodyne, Inc. 4910 Seaport Avenue Richmond, CA 94804 USA</p> <p>MODEL: Gobi 410 000 COLLECTOR TYPE: Glazed Flat-Plate CERTIFICATION #: 100-2007-027D</p>
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COLLECTOR THERMAL PERFORMANCE RATING							
Megajoules Per Panel Per Day				Thousands of Btu Per Panel Per Day			
CATEGORY (Ti-Ta)	CLEAR DAY 23 MJ/m ² ·d	MILDLY CLOUDY 17 MJ/m ² ·d	CLOUDY DAY 11 MJ/m ² ·d	CATEGORY (Ti-Ta)	CLEAR DAY 2000 Btu/ft ² ·d	MILDLY CLOUDY 1500 Btu/ft ² ·d	CLOUDY DAY 1000 Btu/ft ² ·d
A (-5°C)	58	44	30	A (-9°F)	55	42	28
B (5°C)	53	39	25	B (9°F)	50	37	23
C (20°C)	45	31	17	C (36°F)	43	30	17
D (50°C)	30	17	5	D (90°F)	29	16	5
E (80°C)	16	6		E (144°F)	16	5	

A-Pool Heating (Warm Climate) B-Pool Heating (Cool Climate) C-Water Heating (Warm Climate) D-Water Heating (Cool Climate) E-Air Conditioning

Original Certification Date: October 17, 2007

COLLECTOR SPECIFICATIONS

Gross Area:	3.730 m ²	40.15 ft ²	Net Aperture Area:	3.482 m ²	37.48 ft ²
Dry Weight:	69.4 kg	153 lb	Fluid Capacity:	5.1 l	1.3 gal
Test Pressure:	1103 kPa	160 psig			

COLLECTOR MATERIALS

Frame:	Aluminum Extrusion
Cover (Outer):	Low Iron Tempered Glass
Cover (Inner):	None
Absorber Material:	Tube - Copper / Plate - Aluminum
Absorber Coating:	Sputtered Selective
Insulation (Side):	Isocyanurate Foam
Insulation (Back):	Isocyanurate Foam & Fiberglass

PRESSURE DROP

Flow		Δ P	
ml/s	gpm	Pa	in H ₂ O

TECHNICAL INFORMATION

Efficiency Equation [NOTE: Based on gross area and (P) = Ti-Ta]				Y Intercept	Slope
SI Units:	$\eta = 0.733$	$-0.6002 (P)/I$	$-0.0010 (P)^2/I$	0.739	-4.213 W/m ² ·°C
IP Units:	$\eta = 0.733$	$-0.1058 (P)/I$	$-0.0001 (P)^2/I$	0.739	-0.742 Btu/hr·ft ² ·°F

Incident Angle Modifier [(S) = 1/cos θ - 1, 0° ≤ θ ≤ 60°]

K _{αr} = 1.0	+0.0581 (S)	-0.2744 (S) ²
K _{αr} = 1.0	-0.23 (S)	(Linear Fit)

Model Tested: Gobi 336 000

Test Fluid: Water

Test Flow Rate: 50 ml/s 0.79 gpm

REMARKS:

October, 2007

Certification must be renewed annually. For current status contact:

SOLAR RATING & CERTIFICATION CORPORATION

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