

Technical Data

Certifications, Approvals and Testing

The RS Tech solar pool heating system meets or exceeds the criteria for approvals from the following accredited independent laboratories and approval agencies.

- International Association of Plumbing and Mechanical Officials (IAPMO)
- Florida Solar Energy Center
- Date County
- City of Los Angeles
- Solar Rating and Certification Corp. (SRCC)
- Testing: DSET Exposure Test, New River, Arizona



The Association of Pool & Spa Professionals

Available in 1 1/2" low profile design or 2" for larger or commercial installations

DIMENSIONS

Model Number	R5-48	R5-40	R5-32	R5-48-2	R5-40-2	R5-32-2
Nominal Size-ft.	4 x 12	4 x 10	4 x 8	4 x 12	4 x 10	4 x 8
Overall Collector Length-in.	144.0	120.0	96.0	144.0	120.0	96.0
Collector Width-in.	47.0	47.0	47.0	47.0	47.0	47.0
Manifold Length-in.	50.5	50.5	50.5	50.5	50.5	50.5
Manifold O.D.-in.	1.9	1.9	1.9	2.4	2.4	2.4
Manifold I.D.-in.	1.5	1.5	1.5	2.0	2.0	2.0
Gross Collector Area-ft ²	47.3	39.3	31.4	47.3	39.3	31.4
Net Collector Area-ft ²	47.3	39.3	31.4	47.3	39.3	31.4

WEIGHTS

Dry-lbs.	21.3	17.1	14.3	22.3	18.1	15.3
Wet-lbs.	48.0	41.5	35.1	54.0	47.5	41.1
Wet-lbs./ft ²	1.01	1.06	1.12	1.14	1.20	1.31
Fluid Capacity-gal.	3.2	2.9	2.5	3.8	3.5	3.1

FLUID FLOW RATES

Maximum-GPM	10.0	10.0	10.0	10.0	10.0	10.0
Minimum-GPM	3.0	2.5	2.5	3.0	2.5	2.5
Recommended-GPM	5.0	4.0	3.3	5.0	4.0	3.3
Max. Collectors with Single Feed @ Recommended Flow Rate	10	12	12	12	14	14

PRESSURES

Pressure Drop 0.30 ft. head (0.13PSI) pressure loss @ recommended flow rate. 0.20 ft. head (0.09PSI) pressure loss @ minimum flow rate. Max. Fluid Pressure	Greater than 85 PSI @ 80°F
Recommended Max. Operating Pressure	35 PSI @ 140°F

Thermal Performance Ratings

Thermal Performance Equation - $n = 85.8 - 3.42$
 Incident Angle Modifier - $K_{qr} = 1.0 - 0.03$
 (Rated in accordance with ASHRAE standard 96-80)

Florida Solar Energy Center Certification
 (BTU's per standard day)
 4 X 12 - 47,200 / 4 X 10 - 39,000 / 4 X 8 - 31,500



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