

SolarRoofs.com. "Fireball 2001"

PRICE LIST Jan. 2003

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Note: This price list supercedes all previous price lists - Check Web Site for Updates.

There are a great variety of needs by different customers and we have attempted to give you the greatest flexibility with the following systems and pricing. All systems are designed to be installed with existing or added standard water heating tanks and no tanks are included with these system prices. In general systems should be sized to have a min. of 1 gallon of storage per sq. / ft. of collector area. **Note: Call for New Tank Options**

New 24' long "Skyline" (2CSL) joiner kit collector is available for 2 collector systems at \$ 100.00 additional.

"Split Kits" for the 12' collector are now \$60.00 additional and UPS shipping of the Split Kit in the 48 is \$75.00

Crating Charge (covers our costs only): 1st collector \$35.00 additional collectors @ \$20.00

Motor Freight Delivery to the Continental 48 States (includes crating), System 1, 2 & 3, \$125.00; System 4 and 5 \$165.00

Above Motor Freight shipping cost includes 1 collector - add \$55 per additional collector.

NOTE: Due to rising shipping costs, the above prices may need to be modified.

System 1 12 Volt DC with 110°F Snap Switch and Transformer. Complete 20 Square Foot, 20" x 12", Solar Thermal Collector with Flush Mounting Kit / 12volt ElSid or Hartel Circulator / "Easy Connect" Kit with shut off and drain valves (bottom connect is standard, top connect is available at no extra charge) / Collector Pressure Relief Valve / Owners Manual. A larger 12V Electronic Circulator is used for 4 collectors included @ \$100.

System 1 is for use in completely non-freeze areas. Can be used in freeze areas when collector is fully drained before freeze.

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| One Collector | (1C): \$ 995.00 |
| Two Collector | (2C): \$1,475.00 |
| Three Collector | (3C): \$1,955.00 |
| Four Collector | (4C): \$2,535.00 |

FV01, Freeze Valve Option For Light Passive freeze protection to 30F, FULLY DRAIN BEFORE HARD FREEZE

(FV01): \$65.00

FS02, 40F Freeze Snap Switch (closes at 40F to turn on El Sid Pump for Recirculation* **LIGHT** freeze protection)

(FS02): \$30.00

For Photovoltaic Power to replace transformer (includes special PV Panel Mounting kit)

1C, 2C and 3C Retail: 11 Watt Panel Retail (PV11): \$160.00

4C Retail: 21 Watt Panel Retail (PV21): \$220.00

FS03, For PV Panel Recirculation* Freeze protection, includes 40F Freeze Snap Switch with 25' wire and 110V to 12VDC Transformer for a higher level of Freeze Protection in light freeze areas

(FS03): \$ 95.00

DT02, Deletes FS03 Transformer when 12V power or a PV system with batteries is already available \$(15.00)

System 2 110 Volt AC Circulator with Line Cord, Recirculation* Differential Control including line cord and 2 high quality sensors (deletes 12 Volt Pump, snap switch and transformer) **This system is recommended for a higher level of efficiency in variable weather conditions** / "Easy Connect" Kit with shut off and drain valves (bottom connect is standard, top connect is available at no extra charge) / Collector Pressure Relief Valve / Owners Manual.

System 2 For use in completely non freeze or light freeze areas. Can be used in freeze areas when collector is fully drained before freeze.

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| One Collector | (1C): \$1,070.00 |
| Two Collector | (2C): \$1,550.00 |
| Three Collector | (3C): \$2,030.00 |
| Four Collector | (4C): \$2,510.00 |

NOTE: *Recirculation freeze protection is used extensively in mild weather conditions where temperatures occasionally dips below freezing to as low as 20F for a few hours. FULLY DRAIN BEFORE HARD FREEZE (below 30F for 24 hrs)

FV01, Freeze Valve Option For Light Passive freeze protection to 30F, FULLY DRAIN BEFORE HARD FREEZE

(FV01): \$65.00

SRCC OG300 Rated System 3 Fireball 20013; 1C50, 2C50, 3C50 and 3C80

(SRCC = Solar Rating and Certification Corporation) **TANK NOT INCLUDED**

These systems are Performance Certified when installed to SRCC OG300 Specifications and tank sizes. When properly installed and maintained, these systems meet the minimum standards established by SRCC. The SRCC certification does not imply endorsement or Warranty of this product by SRCC.

Includes 12 Volt DC EISid or Hartel Circulator, 11 or 21 Watt PV Panel Including mounting hardware. Two Collector maximum for 11 Watt PV Panel. 3 collector system use a 21 watt PV panel / "Easy Connect" Kit with shut off, drain valves, 2 thermometers, pump switch (bottom connect is standard, top connect is available at no extra charge) / Collector Pressure Relief Valve with splash guard / Mixing Valve / Tempering Valve / Installation Manual, Owners Manual and labels.

System 3 is for use in completely non freeze areas. Can be used in freeze areas when collector is fully drained before freeze.

SRCC Reoriented Tilt systems require Parallel flow collectors, (PFL1 or PFR1) to facilitate drainage at an extra charge of \$40 per collector. Contact factory for help with this option.

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| One Collector for 50 Gallon Tank | (200131C50): | \$1,295.00 |
| Two Collectors for 50 Gallon Tank | (200132C50): | \$1,775.00 |
| Three Collectors for 50 Gallon Tank | (200133C50): | \$2,355.00 |
| Three Collectors for 80 Gallon Tank | (200133C80): | \$2,355.00 |

FV01, Freeze Valve Option For Light Passive freeze protection to 30F, FULLY DRAIN BEFORE HARD FREEZE

(FV01): \$65.00

FS03, For PV Panel Recirculation* Freeze protection use, includes 40F Freeze Snap Switch with 25' wire and 110V to 12VDC Transformer for a higher level of Freeze Protection in light freeze areas

(FS03): \$ 95.00

DT02, Deletes FS03 Transformer when 12V power or a PV system with batteries is already available \$(15.00)

System 4. (110 Volt AC) Complete Freeze Protection using "QUAD ROD" Pre soldered Thermosiphon Heat Exchanger with Expansion Tank, charging valves, Check valve, and all Connections (in place of "Quick Connect) Includes: 110V line cord Taco 006 Circulator, Line Cord Differential Control with 2 sensors, collector pressure relief valve, food grade antifreeze to be supplied by dealer. TANK NOT INCLUDED

NOTE: The NEW SolarRoofs "SUNSAVER" 20 Gallon Heat Exchanger Tank that goes under your existing tank and heats it by thermosiphon action is now available for an additional \$260.00. (20HE)

Note: 4 Collector system comes with 4' Quad Rod" and requires a minimum of an 80 Gallon side TPRV tank.

This system is for total collector freeze protection (-54F) in hard freeze areas. Requires that your existing storage tank have a side mounted pressure relief valve or that a storage tank with a side mounted pressure relief valve be added. Where a side TPRV tank is not available the tank can be raised 18" and the Quad Rod dropped to the floor to facilitate adequate thermosyphon action. If the electric elements are not needed, the Quad Rod can use the top element hole. Some soldering is required to connect the Quad Rod to the Tank, full instructions, food grade Propylene glycol antifreeze, modified hardware and Operations manual are included.

| A 2 collector minimum is recommended. | Quad Rod | 20HE Tank |
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| One Collector | (1C): \$1,535.00 | \$1,795.00 |
| Two Collector | (2C): \$2,015.00 | \$2,275.00 |
| Three Collector | (3C): \$2,495.00 | \$2,755.00 |
| Four Collector | (4C): \$2,975.00 | \$3,235.00 |

For Photovoltaic Power to replace 110 Volt circulator and Differential Controller with sensors (includes special PV Panel Mounting kit and 25' of 12 volt HD wire, EISid circulator for 1C and 2C and Hartel circulator for 3C and 4C)

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| 1C and 2C | Retail: 11 Watt Panel | (PV11): | \$110.00 |
| 3C and 4C | Retail: 21 Watt Panel | (PV21): | \$220.00 |

HE80 Option: Replaces Quad Rod, use with 80 Gallon Rheem / Rudd HE tank: (-\$300.00)

SRCC OG300 Rated System 5 Fireball 20015; 2C80EX, and 3C80EX

(SRCC = Solar Rating and Certification Corporation)

80 Gallon Rheem/Rudd Heat Exchanger Tank (81V080HE1) Not Included

81V080HE1 is available delivered in the 48 for \$795.00, Dealer or Retail

This system is for total collector freeze protection (to -54F) in hard freeze areas.

These systems are Performance Certified when installed to SRCC OG300 Specifications and tank sizes. When properly installed and maintained, these systems meet the minimum standards established by SRCC. The SRCC certification does not imply endorsement or Warranty of this product by SRCC.

Includes 12 Volt DC EISid Circulator with 11 Watt PV Panel for 2 collectors and 12 Volt DC Hartel Circulator with 21 Watt PV Panel for 3 and 4 collectors, including mounting hardware / Presoldered connections for Rheem 80 Gallon Double Wall Heat Exchanger Tank including two charging valves, check valve, isolation valve, 2 thermometers, pump switch, expansion tank and all connections. / Collector Pressure Relief Valve with splash guard / collector install kit / Food grade antifreeze / Tempering Valve / Installation Manual, Owners Manual and labels.

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| Two Collector for 80 Gallon EX Tank | (200152C80EX): | \$1,840.00 |
| Three Collector for 80 Gallon EX Tank | (200153C80EX): | \$2,540.00 |
| Four Collector for 80 Gallon EX Tank | (200154C80EX): | \$3,020.00 |

Fireball 2001" 20 Square Foot Collector 20" wide X 12' long (\$ 80.00 option for end to end connection: 24' long, 2 collector "Skyline kit": 2CSL For example, dealer cost on a 2 collector Skyline array would be: 2CSL = \$360 X 2 + \$80.00 = \$800.00 / System Example: 200152CSL80EX \$1,380.00 + \$80 = \$1,460.00

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| Single piece unit, includes 6 mounting ells (#C): | \$480.00 |
| 3 mounting rails: per collector (#C): | \$ 15.00 |

Custom Parallel Flow Drainback, Draindown or SRCC OG300 reoriented tilt Collector,
These collectors are required for the SRCC OG300 System 3 reoriented tilt kit. includes 6 mounting ells.

With bottom (through roof) or top and bottom side feed and return on one end, slope panel 1/4" per 2' (1.5" overall absolute rise per panel), with 3 mounting rails, **Order Left or Right feed and return outlets, back or side outlets.**

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| Call for details. (PFL1 or PFR1) | \$530.00 |
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Tilt Kit (option) tilts panels approximately 18 degrees or as specified from existing roof angle.

Tilt kits are used when a better winter angle is desired on a low pitch roof or to "reorientate" panels to face south by running the panels up and down an East or West facing roof.

Single Panel: 3 Modified 24" brackets with 6"*** legs and hardware (*modified tilt angles available)

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| (Option Code #TK01) 24" Single panel tilt kit: | \$45.00 |
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Double panels: 3 - 48" Heavy Aluminum channels with 12"*** legs and hardware.

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| (Option Code #TK02) 48" Double panel tilt kit: | \$65.00 |
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Collector COLOR Options:

Optional Colors Include: Colonial Gray (CO102), Tahoe Blue (CO103), Colonial Red (CO104), Forest Green (CO105), White (CO106) as well as other attractive colors - Call or E-mail us with your needs!

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| (Option Code CO###) Optional Colors - Each Collector: | \$45.00 |
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Major Fireball 2001 System Components:

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| RK01, Retail Kit (RK01) includes a 50' roll of 1/2" OD copper, compression unions, wires, lags, 6' of insulation and installation manual: | \$160.00 |
| QC01, "Quick Connect" assembly with floating check valve, isolation valves, drain hose bibs, 1/2" copper stub on return and feed side: | \$300.00 |
| QR01, "Quad Rod" Special assembly with 1 floating check valves, charging hose bib ports with isolation valve and expansion tank: | \$660.00 |
| HE80, Full connections for the 80 gallon Rheem / Rudd heat exchanger, pre-assembly with 1 floating check valve, charging hose bib ports with isolation valve, pressure gauge, expansion tank: | \$350.00 |
| TC01, Taco 006 110V Circulator: | \$160.00 |
| ES10, El Sid 10 Watt 12V Circulator: | \$235.00 |
| HC18, Hartel 18 Watt 12V Circulator: | \$345.00 |
| PV11, UniSolar 11 Watt 12V Panel: | \$160.00 |
| PV21, UniSolar 21 Watt 12V Panel: | \$240.00 |
| FV01, 45F Freeze (Dole) Valve (Starts to drip water at 45F): | \$ 65.00 |
| DC01, IE Differential Control with sensors & Recirculation option: | \$160.00 |
| PR15, 150 Pound Pressure Relief Valve: | \$ 32.00 |
| CV01, Floating Ball Check Valve: | \$ 36.00 |
| MV01, Mixing Valve: | \$ 68.00 |

OPTIONS (priced Retail / Dealer):

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| FS02, (1C) 40F Freeze Snap Switch (closes at 40F to turn on El Sid Pump for Recirculation* LIGHT freeze protection) | \$ 30.00 |
| DT01, Deletes DC01 Transformer when 12V power or a PV system with batteries is already available: | |
| FS03, (3B PV) 40F Freeze Snap Switch with 25' wire and 110V to 12VDC Transformer for PV Recirculation*: | \$ 95.00 |
| DT02, Deletes FS03 Transformer when 12V power or a PV system with batteries is already available: | |
| TR50, 50 foot roll of 3/8" ID, 1/2" OD soft copper tubing includes 2 compression unions: | \$ 60.00 |

Terms: Full payment upon order. Shipping is usually within 10 business days on standard orders.

Notes: -Special arrangements and discounts can be made for volume purchases with variations best suite your needs. Custom collectors, including especially attractive flush mount collectors including a full length flashing and mounting rail with the feed and return out of the bottom of the collector are available.

PLEASE Check Web Site for updates. "C" = collector(s)

While we will do all we can to notify dealers, all prices and specifications are subject to change without notice.