

The SolarSpring UF 2.0

purification system is a compact and innovative water treatment plant. It guarantees a reliable and safe water supply from dirty and microbiological contaminated water sources without using chemicals. Automatic operation, low maintenance and easy plug & play setup are the features of this system.



| Specification – SolarSpring UF 2.0 | |
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| Application | Water purification from turbid and microbiological contaminated water |
| Raw water source | Rivers, lakes, wells, boreholes and contaminated tap water |
| Water quality | Up to 99.999 % retention of microorganisms, bacteria and viruses |
| Nominal flow capacity | 2,500 l/h (2,000 - 6,000 l/h possible) |
| Supply capacity | Up to 3,000 persons calculated with WHO standards (20 liters daily per person) |
| Filtration yield | 99% |
| Power consumption | 500 W |
| Dimensions | 1800 x 1400 x 400 mm (LxWxH) |
| Weight | 315 kg |
| Housing | Powder coated metal enclosure (lockable) |
| IP degree of protection | IP55 |
| Pre-treatment | Disk filter 100 µm (2") with automatic back flush system |
| Main-treatment | High quality UF-module with robust multi-bore membrane 60 m ² / 0.02µm and automatic back flush system |
| Post-treatment | UV disinfection (36W) 2x 20" big activated carbon filter |
| Operation | Automatic PLC controlled operation with display and data logger |
| Power source | Solar (48 VDC) or grid (100-240 VAC 50/60Hz) |
| Ambien temperature | 0-50°C |
| Water temperature | 2-40°C |
| Feed turbidity | Standard membrane <50 NTU / max. 100 NTU (short term peaks) Heavy membrane <200 NTU / max. 400 NTU (short term peaks) |
| Filtration pressure | 0.1 – 1.5 bar |
| System pressure | 1.0 – 2.5 bar |
| Backwash pressure | 3.0 bar |
| Energy demand | 0.2 kWh/m ³ |
| Feed pump flow range | 2,000 -2,500 l/h (PWM controlled) |
| Max. feed pump pressure | 4 bar |
| Max. system pressure | 6 bar |
| Optional accessories | <ul style="list-style-type: none"> • Submersible feed pump 30-300 V DC/AC (up to 120m) • Sand filter with automatic valves for back flush • Remote control system (3G) with alarm manager via SMS and email • Solar package including: <ul style="list-style-type: none"> • Solar panels 1,800 Wp, 48V • Solar charge controller 50A, 48V • High cycle AGM battery 150Ah, 48 V, 2500 cycles @ 50% discharge • Drinking water storage (different sizes - hard layer or flexible pillow type) • Anodic oxidation system (electro-chlorination) for post-treatment • Service cleaning package (pump and tanks for CIP) |