

Water Purification Technology

PFU-720V-CP Conventional Powered Systems

PFU-720V-SP Solar Powered Systems

*When safe water is a matter of life or death...
trust nothing but the best*



PFU-720V Features

The PFU-720V Series water treatment and purification systems are ideal for disaster preparedness, clean water for an entire community, and other applications in which a robust, fully reliable water source is absolutely essential. The PFU-720V features include:

- Ideal for disaster relief, military, rescue operations, missions, hospitals schools, and small communities
- Advanced robust design for emergency use and providing of drinking water to small villages and residential clusters
- Supports being positioned for centralized water distribution
- Supports shelters / residential communities housing several hundred people
- Units can be scaled up or used in tandem for larger applications to serve thousands of residents
- Easy to use, with minimal training and maintenance
- Technology includes proprietary combination of primary filtration, carbon block, and UV disinfection
- Best application is the purification of contaminated well water, city water, river and lake water, and other fresh water sources
- Very effective on waterborne pathogens and contaminants (e.g., parasites, bacteria, and viruses) and nominal chemical contamination (e.g., Arsenic and toxic metals)
- Produces drinking water that meets International Drinking Water Standards, and USEPA NSF P248 (2008) and P231 Biological Challenge Standards
- Can be used in conjunction with conventional AC power (110 / 220 VAC), vehicle batteries, or solar power systems
- Typical total treatment cost is about \$0.01-\$0.02 per gallon and \$0.03-\$0.05 per gallon using full solar power (includes: amortization of capital cost + operating cost + consumables)
- Easily adaptable to ice machines, kitchen facilities and food preparation, laundry support, dish washing machines, etc.
- Automatic switching between AC and solar power for optimal operation

Standard Models

- Model # PFU-720V-CP-3
- Model # PFU-720V-SP-8
- Model # PFU-720V-SP-16
- Model # PFU-720V-SP-20

* Other models can be custom designed to meet customer specifications



Model: PFU-720V-CP-3

The Model CP-3 can be powered by conventional 110/220 VAC, vehicle or other batteries, or by a solar powered trickle charger. This provides great flexibility in an emergency or other situation.

Battery Supply: AC/DC and Solar

Operational 110/220 VAC or Battery System = 24 hours/day

Operational Solar Powered Trickle Charger = 3 hours/day

Pumping Rate = 12 gallons/minute

Pumping Rate = 720 gallons/hour

Total Gallons/Day = 2,160 gallons/day (solar only)

Total Gallons/Day = 17,280 gallons/day

Solar Power Configuration

- 1 – 95 Watt Module
- 1 – 12 Volt Battery

PFU-720V-CP-3 Package

The PFU-720V-CP-3 package includes a treatment unit, pump, battery, solar power trickle charger, hoses and fittings, power cables for battery, pre-filtration screen, AC/DC power inverter, 2 UV bulbs, 2 quartz sleeves, 4 sediment filters, 4 carbon block filters, and 4 virus filters, and an instruction manual.



Model: PFU-720V-SP-8

The Model SP-8 can be powered by conventional 110/220 VAC, vehicle or other batteries, or by solar power only. This provides great flexibility in an emergency or other situation.

Battery Supply: AC/DC and Solar

Operational 110/220 VAC or Battery System = 24 hours/day

Operational Full Solar Power Only = 8 hours/day

Pumping Rate = 12 gallons/minute

Pumping Rate = 720 gallons/hour

Total Gallons/Day = 5,760 gallons/day (solar only)

Total Gallons/Day = 17,280 gallons/day

Solar Power Configuration

The solar power configuration is designed to run the PFU-720V-SP-8 unit for 8 hours/day using solar energy only. The solar power system includes 230 watt solar modules, 105 Amp hour AGM batteries, mounting kits, 60 Amp controller, cable kits, inverter, and battery enclosures. The solar power configuration for the PFU-720V-SP-8 is designed to include a water pump to transfer water from the source to the equipment. The cost of the solar system can be significantly reduced when using a gravity fed system that eliminates the need for a water pump.

PFU-720V-SP-8 Package

The PFU-720V-SP-8 package includes a treatment unit, pump, battery, full power solar system, hoses and fittings, power cables for battery, pre-filtration screen, AC/DC power inverter, 2 UV bulbs, 2 quartz sleeves, 4 sediment filters, 4 carbon block filters, and 4 virus filters, and an instruction manual.



Model: PFU-720V-SP-16

The Model SP-16 can be powered by conventional 110/220 VAC, vehicle or other batteries, or by solar power only. This provides great flexibility in an emergency or other situation.

Battery Supply: AC/DC and Solar

Operational 110-220 VAC or Battery System = 24 hours/day

Operational Full Solar Power Only = 16 hours/day

Pumping Rate = 12 gallons/minute

Pumping Rate = 720 gallons/hour

Total Gallons/Day = 11,520 gallons/day (solar only)

Total Gallons/Day = 17,280 gallons/day

Solar Power Configuration

The solar power configuration is designed to run the PFU-720V-SP-16 unit for 16 hours/day using solar energy only. The solar power system includes 230 watt solar modules, 105 Amp hour AGM batteries, mounting kits, 60 Amp controller, cable kits, inverter, and battery enclosures. The solar power configuration for the PFU-720V-SP-16 is designed to include a water pump to transfer water from the source to the equipment. The cost of the solar system can be significantly reduced when using a gravity fed system that eliminates the need for a water pump.

PFU-720V-SP-16 Package

The PFU-720V-SP-16 package includes a treatment unit, pump, battery, full power solar system, hoses and fittings, power cables for battery, pre-filtration screen, AC/DC power inverter, 2 UV bulbs, 2 quartz sleeves, 4 sediment filters, 4 carbon block filters, and 4 virus filters, and an instruction manual.



Model: PFU-720V-SP-20

The Model SP-20 can be powered by conventional 110/220 VAC, vehicle or other batteries, or by solar power only. This provides great flexibility in an emergency or other situation.

Battery Supply: AC/DC and Solar

Operational 110/220 VAC or Battery System = 24 hours/day

Operational Full Solar Power Only = 20 hours/day

Pumping Rate = 12 gallons/minute

Pumping Rate = 720 gallons/hour

Total Gallons/Day = 14,400 gallons/day (solar only)

Total Gallons/Day = 17,280 gallons/day

Solar Power Configuration

The solar power configuration is designed to run the PFU-720V-SP-20 unit for 20 hours/day using solar energy only. The solar power system includes 230 watt solar modules, 105 Amp hour AGM batteries, mounting kits, 60 Amp controller, cable kits, inverter, and battery enclosures. The solar power configuration for the PFU-720V-SP-20 is designed to include a water pump to transfer water from the source to the equipment. The cost of the solar system can be significantly reduced when using a gravity fed system that eliminates the need for a water pump.

PFU-720V-SP-20 package

The PFU-720V-SP-20 package includes a treatment unit, pump, battery, full power solar system, hoses and fittings, power cables for battery, pre-filtration screen, AC/DC power inverter, 2 UV bulbs, 2 quartz sleeves, 4 sediment filters, 4 carbon block filters, and 4 virus filters, and an instruction manual.

For further information and pricing, please contact:

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