

Fish Sweaters is a complete hot water heating system designed specifically for Aquaponics. It provides hot water from a gas heater, automatically firing on only when needed. In addition, it has integrated support for 2 additional hot water heating sources such as solar or wood fired boilers.

Fish Sweaters was designed with power outages and emergency backup systems in mind. Its low power requirements won't tax your generators or batteries. If you'd rather be off the grid completely, Fish Sweaters easily interfaces with PV battery systems and your alternative hot water sources.

Fish Sweaters offers an innovative new heating system with low operating cost and the flexibility to meet your needs, while providing critical heat even during utility outages.



> Powerful Plug and Play Hot Water Heating

- 6-7 Kilowatts heating (20-25k BTUs/hr)
- Natural Gas or Propane water heater
- Controller manages up to 3 sources of hot water
- Electrical usage < 20 watts/hr
- Keep fish warm without taxing generators or batteries during power outages
- Comes pressure tested and requires minimal assembly
- Typical payback for replacing electric with NG is 1-2 years

> Designed for Aquaponics

- Gas heater designed specifically for Fish Sweaters (standard instant hot water heaters are dangerous for this application!)
- Fish safe 316 stainless steel heat exchanger
- Seamless exchanger means no fittings in the tank
- Heat exchanger can be side or bottom mounted in tank
- Controller optimized for fish temperatures, not Domestic Hot Water
- Ruggedized controller for damp environments

> Off the Grid Ready

- Swap wall adapter with a 12V power harness for battery connection
- Uses gas only when other sources of heat are not enough
- All pumps, valves, and the controller are compatible with direct PV panel hookup
- 24/7 - 150W PV & battery, Daytime solar only - 20W PV



> System Includes:

- Fish Sweaters Gas Heater
- Natural Gas and Propane Burners
- 3/4" ribbed annealed stainless steel heat exchanger (28" x 36")
- 3 ft. of insulated flexible SS connecting pipe
- Pre-plumbed & pressure tested pump station w/ complete safety features and gauges
- Multi-source ruggedized controller for damp environments
- Waterproof temperature sensor
- Mounting Frame for easy installation

> Options:

- Additional heat source upgrade kit (includes diverter valve, check valves, fittings and sensor); each Fish Sweaters system will support up to 2 kits
- Longer insulated connecting pipe
- Flexible insulated dual SS connecting pipe for other hot water sources
- Country specific power adapters
- 12V Power harness for battery connection

> Available for purchase separately:

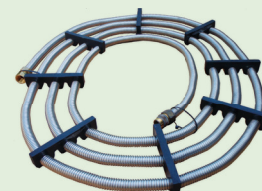
- SS Heat Exchanger
- Multi-source Ruggedized Controller for damp environments



Additional Heat Source Kit



Insulated Flexible Pipe



SS Heat Exchanger