

**FASTER Equipment Cycling, Less Downtime  
And Reduced Component Wear  
Means ADDED Productivity In:**

- **Construction**
- **Mining**
- **Logging**
- **Oil Well Service**
- **Trucking**
- **Utility Fleets**
- **Military**

Equipment in virtually all cold-weather applications can benefit from an Arctic Fox Heating System. Choose a complete fuel and fluid warming package or specify individual heaters from our complete line. We work with many OEMs who have discovered the value that an Arctic Fox Heating System adds to their customers cold weather operating experience. Distributors of heavy equipment are adding Arctic Fox heaters in cold climates as standard features to protect lubricated components and hydraulic systems. Contact us today for an analysis of your cold weather operation. Our broad experience means we can advise you of the right System for your application. "Spec Arctic Fox" Products on your next equipment purchase.



Fluid Warming Systems for various applications can include engine, hydraulic, fuel and battery heat for arctic operation.



Major oil well service and drilling companies have installed multiple Arctic Fox Heaters in their equipment. Heaters in the hydraulic tank, diesel fuel tank and an auxiliary tank for pump oil keep diesel fuel, hydraulic fluid, and lubricating oil flowing in extreme temperatures.

Covered by one or more of the following patents: US 5,611,392, US 5,423,373, US 5,135,044, US 5,029,634, US 4,964,376, US 4,748,960, and CA 1,314,850.

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**ARCTIC FOX® FLUID WARMING SYSTEMS**



**BECAUSE PRODUCTIVITY WON'T WAIT FOR A WARM DAY**



# The Arctic Fox System Is A Cure For The Common Problems Of Cold-Weather Operation

**ARCTIC FOX® CAN CUSTOM DESIGN AND PROVIDE COMPLETE "STAND ALONE" & SHORE POWER SYSTEMS FOR MOBILE AND STATIONARY EQUIPMENT, "STAND ALONE" SYSTEMS OPERATE OFF EXISTING DC BATTERY AND FUEL SUPPLY TO PRODUCE MAXIMUM HEAT OUTPUT.**

For more than a quarter century, Arctic Fox has produced stainless steel heat exchangers for diesel fuel and fluids. Both in-line and in-tank heaters utilize engine coolant in efficient heat exchangers to prevent fuel gelling. Hydraulic fluid warmers use the same principal to promote smooth operation. Other applications include: heat exchangers for various liquid to liquid and liquid to gas including reservoirs for grease, oil, water and other liquids. Further applications include paints, asphalt oil, waste products and perishable products for flow ability in the coldest weather.

Diesel engines and hydraulic systems are free to operate at maximum efficiency with the Arctic Fox System. Benefits include freedom from fuel blending and the added economy of using #2 diesel fuel year 'round. In hydraulic applications, Arctic Fox users extend pump life and cycle their equipment faster for true cost savings. Thermostatic options assure protection when overheating fuel or fluids is a concern.

The Arctic Fox reputation is earned through the use of 304 stainless steel in our heat exchangers. Millions of hours and countless miles of successful use verify our designs. Continuous product development means there is an Arctic Fox® for nearly every application and a complete line of plumbing and insulating accessories provides users with a total package.

In addition to stainless steel heat exchangers, Arctic Fox offers electric heating pads and other system options. While most applications are covered by our standard product line, custom designs are available. There is a cure for the common problems of cold-weather operation-fuel and fluid warming systems from Arctic Fox LLC.

**Because Productivity Won't Wait For A Warm Day.**

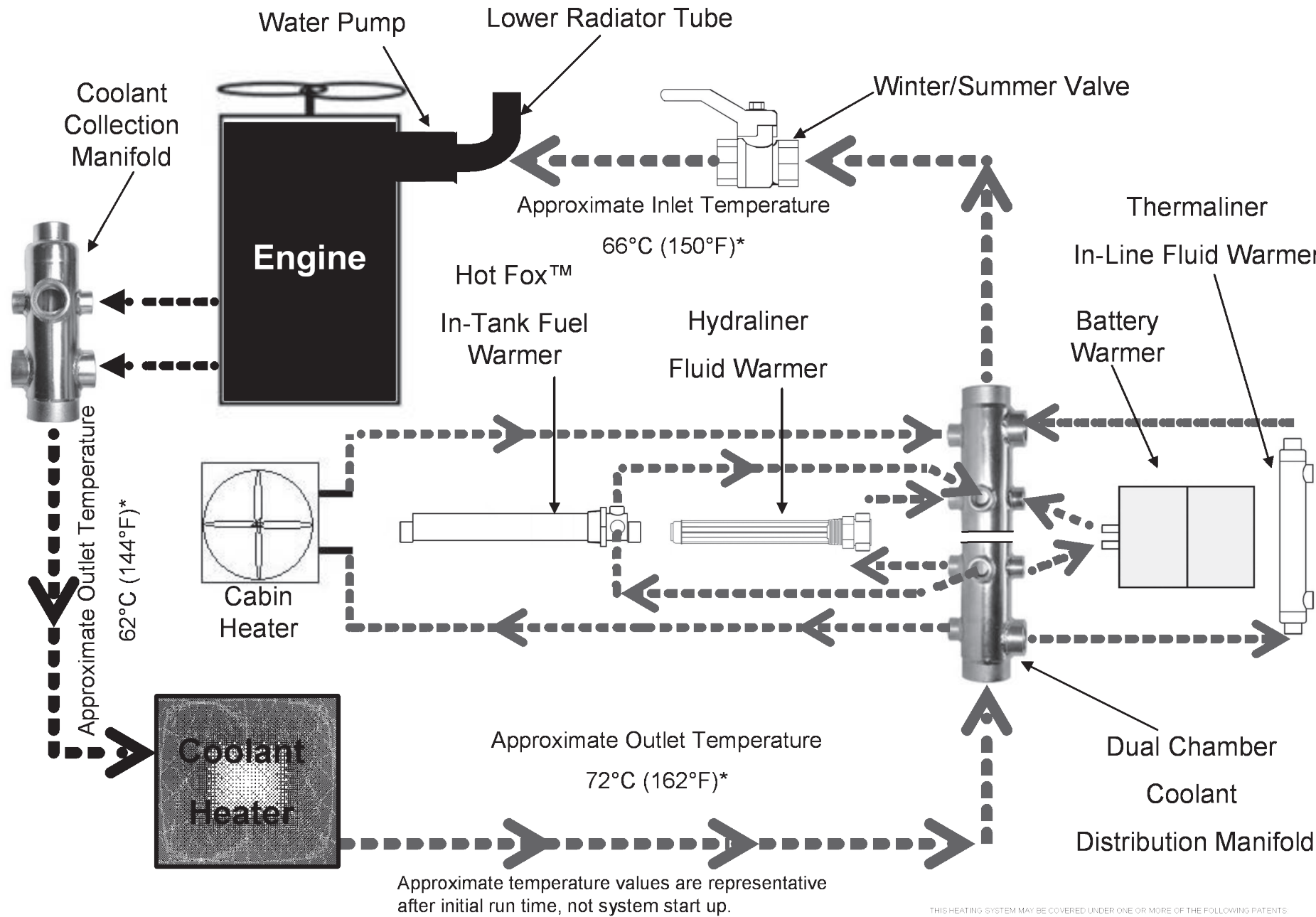
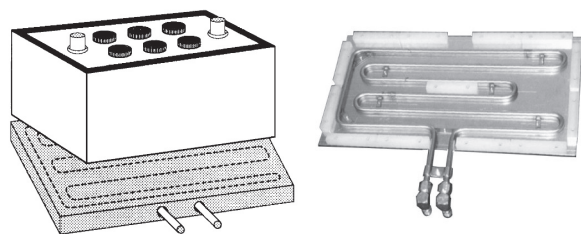
## DIESEL FIRED COOLANT HEATERS

Diesel fired coolant heaters available from Arctic Fox allow the engine to be preheated before starting without the use of external power. The hot coolant produced can also be routed through Arctic Fox Heat Exchangers to warm fuel, hydraulic reservoirs and batteries. Many models and installation accessories are available.

## BATTERY HEATERS

(BH)

Increase available cold cranking amps and extends effective battery usage by reducing required battery recharge time.



THIS DRAWING IS INTENDED AS A GENERAL HEATING SYSTEM LAYOUT GUIDE. FINAL VERIFICATION & VALIDATION OF THE SYSTEM FOR A PARTICULAR SET OF PARAMETERS IS THE SOLE RESPONSIBILITY OF THE INSTALLER

## DIESEL FUEL WARMERS

(In-Tank—Hot Fox™ - HFG—TWHF Models)

Hot Fox™ In-Line/In-Tank fuel warmers are stainless steel units that install in a sending gauge size opening and surround the integrated fuel standpipe with coolant for maximum heat rise. In addition, heat radiates from the units' outside surface to warm fuel in the tank. Low 1-1/4 inch profile above the tanks surface is compatible with most applications. TWHF series Hot Fox™ includes auxiliary fuel draw for diesel fired coolant heaters. Optional coolant shut-off thermostat is available.



## DIESEL FUEL WARMERS

(In-Line)

Trendsetter—Midranger—Linehailer—Thermaliner

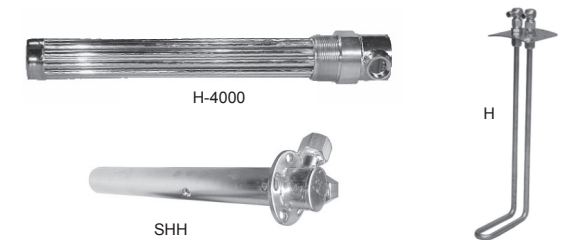
Choose from the many sizes of stainless steel In-Line fuel warmers for effective temperature rise. Units can be equipped with fuel by-pass or separate coolant shut-off thermostats.



## HYDRAULIC FLUID

(H-4000—SHH—H—HT Series)

These proven heaters route a stainless steel loop through the tank for effective fluid warming while reducing damaging hydraulic pump cavitation and blown seals. Standard and custom are available to fit the many hydraulic tank configurations. Weld-on flanges provide secure mounting and models with thermostats are available.



## ELECTRIC FLUID RESERVOIR HEATER

(EH)

Reservoir heaters are available in 12 and 24 volt DC and 120 and 240 volt AC. Some common applications include warming hydraulic rams, reservoirs, oil pans and diesel fuel tanks. Once applied, the all weather heating pad is permanent. The pad allows for faster cold weather starts, reduced engine wear, faster hydraulic cycling and reduced pump wear.



## COOLANT DISTRIBUTION MANIFOLDS

(ST)

Used in Arctic Fox® Fuel & Fluid Systems to help distribution of coolant through multiple heat exchangers. May also be used to eliminate the use of multiple wye and tee fittings and to reduce the number of connections.



## OTHER FLUIDS

Various styles of Arctic Fox® heaters are available. External pad, In-Tank, and In-Line can all be combined to achieve the desired heat rise for your application.

THIS HEATING SYSTEM MAY BE COVERED UNDER ONE OR MORE OF THE FOLLOWING PATENTS:  
 UNITED STATES PATENT: 5,611,392  
 CANADIAN PATENT: 2,115,118  
 FRANCE, GERMANY, UNITED KINGDOM, & THE NETHERLANDS PATENTS: PAT. BREV. / OCT. 001 / D. B. P. EP 068316783  
 RUSSIAN FEDERATION PATENT: 21201953