



www.accclimatcontrol.com

ACC Climate Control is a growing and dynamic designer, manufacturer and installer of mobile air conditioning and heating systems supplying OEM and aftermarket customers in the ambulance, truck, bus, van, emergency vehicle, specialty truck, off highway and small cab markets. The headquarters, technical center and manufacturing facilities of ACC Climate Control are strategically located at the "Crossroads of America" in Elkhart, Northern Indiana. Offering custom engineered and design capability of mobile climate control systems, we service customers on a nationwide basis. With quick access to major markets through primary interstates, rail lines and regional airports, delivery anywhere is never a problem.

Founded in 1948, Truck and Coach Heater Manufacturing was a custom manufacturer of vehicle heaters. Through the years, our name has changed but our business principal and attitude toward superior customer service have not. This principal, coupled with our drive toward constant research and development for new and improved products keeps us and our customers growing in a very competitive marketplace. ACC is the leading supplier of auxiliary units to the ambulance and bus market. ACC Climate Control supplies a huge number of different auxiliary heater and air conditioning units for sleeper cabs of class 7 and 8 trucks throughout the USA and Canada.

Thanks to our aggressive attitude toward research, development and product improvement as well as our proactive participation in worldwide idle reduction programs, we developed systems that eliminate the necessity of vehicle idling during harsh weather conditions. These systems are the secondary loop, 110 volt **TropiCool** heating and air-conditioning unit and the fuel fired *Comfort HD* heater models.

TropiCool No-Idle, Heating and Cooling systems and *Comfort HD* Fuel Fired Heaters are the solution to the ever-increasing no-idle regulations being enacted throughout the country. Besides getting vehicle operators compliant with existing and future regulations, these two products offer long term savings in both fuel consumption costs and truck engine maintenance costs. There are a number of surveys that reflect the idling hours and quantity of fuel consumed during those non-revenue periods. An average truck idles approximately 2,400 hours per year, burning about 2,400 gallons of fuel during that period. Assuming that a gallon of fuel costs \$2.25 per gallon, the cost of one truck idling engine is about \$5,400 per year. Because of not idling, the engine regular service intervals will be significantly increased and the engine oil breakdown will be reduced. Major savings will also be realized as the time between scheduled major preventative maintenance tear-downs will be increased.

The revolutionary technology **TropiCool** system was developed per ambulance industry request to keep patient compartment at the same environment while driving or parking. **TropiCool** secondary loop, hermetic system does not require refrigerant certification to install. The system includes one box containing condenser coil, 110 VAC compressor, and heat exchanger, another box consists an antifreeze reservoir with electrical water heaters and a 110 VAC water pump. A digital thermostat and PC relay board round out the system. Cooling capacity of the system is up to 17,000 BTU/Hr and heating capacity is up to 9,000 BTU/Hr. Delta T between air in/out in cooling and heating modes is up to 29°F. The beauty of this system is the installation connection process. Once the components are installed on the tractor and wiring is complete, heater hoses need to be spliced into the heater lines running from the engine to the auxiliary heater coil using vacuum or electric water flow valves included in the installation kit. A harness is run from the PC board panel to the control (digital thermostat) box and a temperature probe is installed in the return air plenum of the bunk unit. When power is turned on and the temperature set, the thermostat will automatically cycle between the heating and air-conditioning modes as the control dictates giving an automatic temperature control feature to the sleeper bunk environmental system. Another beauty of **TropiCool** is that aftermarket retrofit of existing fleets does not require any additional units to be installed inside the cab. System will be connected to the bunk heater already in the truck.

TropiCool allows installing at low cost an extra heat exchanger(s) in the coolant line if additional air-conditioning or heating points are required. This will eliminate the necessity for less efficient air ducting system

The **TropiCool** does require a 110 volt power source, either from shore power or an auxiliary power unit on the truck. Once the engine is shut down and the system connected to the 110 volt power source, the thermostat automatically takes over and keeps the system operating at the same comfort level as when the truck engine was running. ACC is currently working toward complete batteries powered system that will include above-mentioned **TropiCool** components, batteries package and inverter/charger.

For those vehicles operating the far northern corridors of the country, Canada, or Alaska our *Comfort HD 2* is the answer for winter comfort. The powerful 2 kilowatt unit (6,800 BTU/Hr) consumes a gallon of fuel when operated at average capacity for a 24 hour time period. Drawing 1.5 amps @12 volts DC, at a maximum of 50CFM, this 7 pound unit will fit almost anywhere and because it is an air-to-air device, doesn't require cumbersome hoses. A truck kit includes an optional hour meter, 40" of duct hose, 2 louvers, 2 collars and 4 clamps. The base unit includes a fuel pump, a manual or automatic temperature control / programmable timer, fuel pickup needle, wire harness along with

all fuel line and clamps. For the expanded sleeper cab ACC Climate Control offers *Comfort HD 4* that is twice more powerful 4 kW (13,000 BTU/Hr) fuel fired heater.

Both systems were successfully exhibited at the Mid-America Trucking Show in Louisville, KY as well as at number of Rescue Vehicles and Ambulance Shows being installed in actual ambulance vehicles.

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Enclosed: Detailed information on TropiCool systems for Ambulances