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When tight rescue situations arise, you need a durable and compact vehicle to safely get you there. Alexis Fire Equipment introduces Polaris utility vehicles, a custom-built solution for navigating through crowded urban streets, climbing over rugged terrain, or maneuvering into areas unreachable for conventional apparatus. With a low center of gravity for stability and a rugged suspension for a smooth ride, these indispensable workhorses are built to handle any job.

Get exactly what you want with configurations designed around your specific needs. Whether you need a Fire Suppression Unit or 4x4 Utility Vehicle, your compact all-terrain fire/rescue vehicle is built with the same degree of passion and care you put into saving the lives of others every day.



Alexis Fire Equipment
109 East Broadway
Alexis, IL 61412
(800) 322-2284

DEMAND TO BE DIFFERENT.

ALEXIS FIRE EQUIPMENT



POLARIS VEHICLES

4x4 Utility Vehicles and
Low-Flow, High Pressure
Fire Suppression Units



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POLARIS 4X4 UTILITY VEHICLE

Polaris 4 x 4 EFI utility vehicle
 Capacity to carry two (2) people, side by side
 Maximum speed – 66 km/h (41mp/h)
 Operate loaded on 15% slope
 Color – Red
 Engine – Polaris 30-HP, 499 cc liquid cooled Gas engine
 Capacity coolant – 2 liter (2.1 quart)
 Lubrication shall be through pressurized wet sump
 Capacity oil – 1.9 liter (2 quart)
 Fuel system – electronic fuel injection
 Capacity Fuel – 34 liter (9 gallons)
 Fuel – Petrol (gasoline) 87 octane
 All connections throughout the fuel system are sealed and water resistant
 The transmission shall be an automatic PVT (Polaris Variable Transmission)
 The gear range shall be in-line, dual range forward and reverse
 The tires shall be 25 x 10-12 front and 25 x 11-12 rear
 Front suspension – MacPherson strut with 20 cm, (8") of travel
 Rear suspension – swing arm, dual shock with 23 cm, (9") of travel
 Turning radius - 376 cm, (148")
 Wheelbase – 193 cm (76")
 Brakes – foot activated 4-wheel hydraulic disc
 Park brake – mechanical
 Weight – chassis only – 537 kg, (1185 lb)
 Weight – with equipment – 966 kg, (2130 lb)
 Overall dimensions – approx. – 287 cm (113" l) x 152 cm (60" w) x 190 cm (75" h)
 Cargo box dimensions – approx. – 137 cm (54" l) x 93 cm (36.5" w) x 29.5 cm (11.5" d)
 Ground clearance – approx. (11")
 Towing capacity – 680 kg, (1500 lb)
 Payload capacity – 680kg, (1500 lb) (includes cargo box, driver and passenger)



FIRE SUPPRESSION UNIT

MODULE FRAME:

The fire suppression unit shall be mounted on a modular framework allowing complete removal from the bed of the unit.

WATER TANK:

The tank is to be constructed of 1.2 cm (1/2") thick polypropylene material.

It shall have the capacity of 45 gallons

The tank shall be equipped with a combination vent/overflow and manual fill tower.

TANK VALVE:

One (1) quarter turn valve shall be included for the tank to pump line

TANK FILL / RECYCLE:

One (1) quarter turn valve shall be included for the tank refill / recycle

CATS HIGH PRESSURE PUMP:

30 liter/minute (8 gpm), 55 bar (800 psi) Fire Fighting Foam System
 CAT PUMPS Model 7AG56G1.076120

This specification applies to an 8 HP gas engine driven fire fighting foam system consisting of:

- triplex plunger pump
- foam injection system with foam tank
- dual action spray gun
- high pressure hose reel

The specified system consists of the following elements:

1. A high-pressure, low-flow triplex plunger pump, model 56G1, with brass manifold, that is rated at 30 liter/minute, (8 gpm) at 3600 RPM, with a system pressure of 55 bar (800 psi) at the pump outlet. The pump will self-prime from a tank of water, from flooded suction to a maximum of a 2.75 meter, (9 ft), lift for easy refill of tank. The pump

will have a main high pressure unloading safety valve, a secondary safety relief valve, at 60 C, (140° F) thermal relief valve, and a high-pressure 103 bar, (1500 psi) gauge. A water drain device will be included to allow for freeze protection. Pump will include a gearbox and mounting hardware for attachment to the gas engine. The pump will be attached to an 8 HP Honda gas engine with a standard-1 keyed shaft. The 8 HP Honda engine will have recoil start with cyclonic air cleaner.

2. An inlet foam injection system factory set at a 1% injection rate. The injection system will consist of a factory pre-set injector, which can be manually adjusted, an on-off ball valve on the foam tank, a 10 liter, (2.5 gallon) foam tank, and a main water on-off ball valve. A Schrader air valve will be included to allow for full water drainage for freeze protection.

3. A high-pressure spray gun, dual lance and nozzles matched to the flow and pressure of the system requirements, factory set to run within the horsepower of the engine. The spray gun will have two application modes, consisting of a straight stream with air injection and a 10° stream with air injection. The spray gun shall be rated for 206 bar (3000 psi) maximum pressure. The application mode, straight stream or 10° stream, shall be controlled with a mechanically actuated rollover valve.

4. Unit includes 26 meter (85 feet) of 1.2 cm (1/2") high-pressure, 206 bar (3000 psi) hose installed on a high pressure reel 990476. Included is a quick disconnect on the outlet of the pump, and a swivel at the spray gun.

PIPING:

The piping and valving shall be brass.

AUDIBLE WARNING:

- (1) Whelen Siren – WPA112 Waterproof Siren
- (1) Federal Dynamax MS100 - 100 Watt Speaker

VISUAL WARNING:

One (1), Whelen Super LED L31HRFN beacon shall be installed on top of the roll cage. The light shall be switched from the siren head

Two (2) PP-2, front mounted LED warning flashers shall be installed on the apparatus.

The lights shall be switched from the siren head.

