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Quotation

Specifications for a 100 gallon Off Road Fire Suppression Body/Funnel Tank for a Polaris Ranger 6x6 Revolution Model

This unit shall be pre-engineered to accept modular options.

A – Tank/Body

100 Gallon minimum capacity polypropylene integral body/funnel water tank with cargo basket. The Tank top, sides and base shall be constructed of ½” thick black, textured, UV resistant Polypropylene material. It shall be baffled with a minimum of 3/8” transverse and longitudinal baffles to meet NFPA standards. It shall include a full lifetime factory warranty. The tank floor shall be constructed with a minimum **20 degree slope** on each side, front and rear as well. The use of this **Funnel Floor Technology** allows the flow of virtually 100% of the water to the pump off-road, regardless of the angle on which the vehicle is parked.

The tank shall be approximately 51 in. Long x 60 in Wide x 13 in High.

The tank, as a minimum shall include the following:

- 1) The tank top shall form an open storage area for loose gear, with 4” integral sides formed in polypropylene, and will include 2 ½” diameter lashing loops around the entire perimeter.
- 2) 1 ½” wide rub rail on 2 sides and rear
- 3) Driver side tank top constructed with ½” x 18” x 40” polypropylene mounting plate.
- 4) Passenger side tank top constructed with ½” x 14” x 46” polypropylene mounting plate
- 5) 45° center gussets to support modular options
- 6) 2 White plastic sight gauges (1 on funnel portion, 1 on rear wall)
- 7) Minimum 4” x 4” x 8” tall fill tower with lid and mesh screen
- 8) Mushroom Vent/overflow
- 9) 1” Diameter Fill Port in FPT
- 10) Min. 4 gal. Draft Sump
- 11) 1 ½” Diameter FPT Suction Port in sump elbowed down to sump floor.
- 12) 2” Diameter FPT Drain/Cleanout in sump
- 13) The body/funnel tank shall be mounted to the chassis in two spring loaded cradles to prevent fatigue of the body/tank off road.

B – Pump Mounting

1. There shall be a 2-sided plus floor aluminum diamond plate cradle attached directly to the tank/body bottom at the rear to house/support the pump assembly. The box shall have adequate ventilation for the pump.
2. The Wick water pump shall be mounted on the aluminum diamond plate box floor at the rear of the tank in such a way that it is **quickly removable** using only a spanner wrench for optimal use in remote draft sites.

C – Pump

Option A _____

A Mercedes Textiles/Wick 100-4H: Single Stage pressure pump. Powered by a 2.5 HP Honda Engine.
Max Weight: 21 lbs.

- 1) Engine: **2.5 HP, 4 Stroke**, Air-cooled.
Recoil start. Honda
Integral Fuel tank
- 2) Pump: Single Stage, High-Pressure driven with **centrifugal clutch** (so powerhead may be left at idle without pumping water, or losing prime)
1 ½” NPSH Suction, 1 ½” NPSH Discharge
Max PSI: 100, Max GPM: 70
- 3) Primer – A hand primer shall be supplied and mounted

Option B _____

Mercedes Textiles/Wick 80-4H

Max Weight: 18 lbs.

- 1) Engine: **1.5 HP, 4 Stroke**, Air-cooled.
Recoil start. Honda
Integral Fuel tank
- 2) Pump: Single Stage, High-Pressure driven with **centrifugal clutch** (so powerhead may be left at idle without pumping water, or losing prime)
1 ½” NPSH Suction, 1 ½” NPSH Discharge
Max PSI: 72, Max GPM: 55
- 3) Primer – A hand primer shall be supplied and mounted

NOTE: This 4 stroke Honda has a pressurized crank case and is approved by Honda to run on extreme angles.

Option C _____

Mercedes Textiles/Wickman 100

Max Weight: 17 lbs.

- 1) Engine: **2.3 HP, 2 Stroke**, Air-cooled.
Recoil start. Solo
Integral Fuel tank
- 2) Pump: Single Stage, High-Pressure driven with **centrifugal clutch** (so powerhead may be left at idle without pumping water, or losing prime)
1 ½” NPSH Suction, 1 ½” NPSH Discharge
Max PSI: 100, Max GPM: 65
- 3) Primer – A hand primer shall be supplied and mounted.

D – Hose Reel

A Steel Eagle, manual rewind, lightweight, rust-free, stainless steel/nylon hose reel shall be supplied and mounted on top of the tank, directly behind the driver so as not to impede visibility. It shall have the capacity to hold a minimum of 100ft of ¾ in. reel hose with a 1” NH or 1” NPSH, or ¾” GHT male riser.
(Please circle preference.)

E –Hose/Nozzle

100 Ft. of ¾ in. Mercedes Textiles **Boostlite** lightweight (only 18lbs per 100 ft.) Reel Hose with Permatek abrasion resistant treatment in yellow and 400psi minimum working pressure, shall be supplied and installed. The couplings shall be **field repairable couplings** for quick repair in 1 in. NH or 1 in. NPSH or ¾ in. GHT thread and a dual range 10-23gpm Fog Nozzle shall be included.
(Please circle preference.)

F – Plumbing

All valves to be full port ¼ turn brass ball valves rated to 600 PSI. All plumbing to be only **stainless steel**. All suction side plumbing to be rated at 150 PSI minimum. All discharge side plumbing to be rated at 150 PSI minimum (overbuilt by a minimum of a 50% safety factor).

The pump shall be pre-plumbed as follows on the **suction** side:

- 1) 1 ½” Diameter T
- 2) A clear (to allow visibility of water) pvc suction hose shall be mounted via **stainless steel** band clamps between the “T” and pump suction to eliminate vibration.
- 3) 1 ½” ¼ turn brass ball valved leg into the tank draft sump
- 4) 1 ½” leg extended to the rear of the body to draft with, which shall have a cap w/ chain in 1 ½” NPSH.
- 5) 1- 1 ½” female NPSH x 1 ½” female NH swivel adapter shall be provided for direct fills or pumping.

On the **discharge** side the pump shall be plumbed using only **stainless steel** piping, via high pressure hose for vibration, directly to a minimum 3” x 3” x 6” long **stainless steel manifold**. Once fabricated, this manifold becomes a pressure vessel and shall be certified at 300 psi for 10 minutes by an independent testing firm. The certificate shall be enclosed in the owner’s manual. Manifold shall be mounted to the tank, with the following valved discharges:

- 1) 1” Tank fill/circulate (standard)
- 2) 1 Hose Reel (standard)
- 3) 1 x ¾” Discharge in GHT w/ cap and chain
- 4) 1 x 1” Discharge in NH or NPSH w/ cap and chain
NOTE: 1- ¾” or 1” discharge supplied as standard, second is available as an option.
- 5) 1 x 1 ½” Discharge in NH w/ cap and chain (standard)
- 6) Preset pressure relief valve
- 7) A pressure gauge shall be mounted directly to the top of the manifold at eye level.

All valves shall be labeled on the manifold.

G – Accessories

Two (2) Spanner Wrenches, supplied and mounted.

1 - 1 1/2" NPSH x 8' lightweight Suction Hose

1 - 1 1/2" NPSH plastic Foot Valve/Strainer

H – Hardware

All hardware not limited to bolts, screws, u-bolts, L-brackets, springs, hinges, etc. shall only be stainless steel.

I – Weight

The maximum weight of the entire unit, loaded with water, ready to fight fire shall not exceed the maximum cargo box payload capacity of 1250 lbs.

NOTE: Water must be drained prior to victim transportation.

BODY/FUNNEL TANK SUBTOTAL: \$10,995.00

J - Options

<u>QTY</u>	<u>DESCRIPTION</u>	<u>Price</u>	<u>Total</u>
<u> </u>	Victim Extraction Option (VEO)	1,500.00	<u> </u>

An aluminum diamond plate cradle shall be custom fabricated and attached to the tank top/cargo basket dead center which shall be designed to support this option. It shall be mounted using 4 pins and be of the quick detach modular design to offer maximum utilization of the body.

Hose Tray – with the Rescue Pad removed this cradle shall double as a hose tray and will allow the operator to deploy a minimum of 200ft. of 1" forestry hose off the rear while driving.

A 'rescue pad' (for victim comfort) spine board shall be supplied with the following options.

- Pro-lite Patient Strap System
- Integrated collapsible IV Pole

The system shall be designed to be multi-positional. With the pad slid to the rear it will allow three firefighters to ride in the cab; slid to the front it allows the passenger to perform patient assessment on the victim during extraction. The rescue pad shall be secured to the cradle via 6 H.D. Velcro straps with buckles.

NOTE: Water must be drained to transport victim.

<u>QTY</u>	<u>DESCRIPTION</u>	<u>Price</u>	<u>Total</u>
_____	<p>Integral Tool Box</p> <p>A passenger-side tool box, approximately 51”L x 18”D x 13”H, integral with the tank/body. Constructed out of black textured polypropylene, same as tank, with drop down door. It shall be designed to carry hand tools, bladder bags, hose, etc.</p>	900.00	_____
_____	<p>Replacement Ranger Tool Box with Cargo Basket</p> <p>The factory Ranger tool box shall be removed. A new approximately <u>18”W</u> x <u>60”L</u> x <u>17”H</u> tool box shall be installed in its place, mounted directly to the Ranger frame rails. It shall be constructed out of a minimum ½” thick black textured polypropylene. It shall match the tank/body in design including a 4” cargo basket on the top with lashing loops. There shall be a driver-side and passenger-side door mounted with only stainless steel hinges and catches. This box shall carry the tank manufacturer’s full lifetime warranty.</p>	950.00	_____
_____	<p>Hose Tray</p> <p>An approximately <u>6”H</u> x <u>20”W</u> x <u>48”L</u> Aluminum diamond plate hose tray shall be custom fabricated and attached to VEO Cradle over the Rescue Pad via 4 mounting pins and be of the quick detach modular design to offer maximum utilization of the body. (Note: Must be removed to carry patient) The hose tray shall store a minimum of 400ft. of 1” single jacket forestry hose and deploy the same off the rear while driving. (Hose not included.)</p>	750.00	_____
_____	<p>LED lighting package to include:</p> <ol style="list-style-type: none"> 1) Two Dash mounted illuminated rocker switches to operate 2) Whelen Lin 3 ROPS mounted LED warning lights in color of choice <ul style="list-style-type: none"> _____ 1 pr Front Facing _____ 1 pr Rear Facing _____ 1 each Side Facing 3) _____ Whelen 12” StripLite © mounted on a 45° bracket to ROPS to illuminate victim transport and work area. 	2,050.00	_____
_____	<p>Foam Induction System</p> <p>A <u>Scotty 4072 Mini</u> Around the Pump foam eductor/mixing system shall be supplied and installed. The eductor shall have a variable mix ratio for field adjustment. The system shall be hard plumbed into the suction line before the pump, and the manifold. The system shall draw from the <u>integral 5 gal. foam cell with sight gauge</u> and shall have a master shut off valve at the Foam cell. All discharges shall be foam capable.</p>	1,150.00	_____

<u>QTY</u>	<u>DESCRIPTION</u>	<u>Price</u>	<u>Total</u>
_____	636640 - Scotty Foam Fast with 8 gpm Nozzle utilizing 1" x 6" solid foam sticks in <u>3/4"</u> GHT thread.	130.00	_____
_____	636642 - 3-pack of "1 x 6" Scotty Foams Sticks	40.00	_____
_____	606605 - Scotty 3gpm Air Aspirating Foam Nozzle	17.00	_____
_____	606606 - Scotty 8gpm Air Aspirating Foam Nozzle	20.00	_____
_____	606704 - 1" 10-23gpm Adjustable Fog Nozzle Bumperless	69.00	_____
_____	606705 - 1" 10-23gpm Adjustable Fog Nozzle w/Bumper	75.00	_____
_____	606707 - 1" Rigid Inlet Ball Shutoff w/ 3/4" Waterway	125.00	_____
_____	606708 - 1" Swivel Inlet Ball Shutoff w/ 3/4" Waterway	145.00	_____
_____	606714 - Twin Tip Forestry Nozzle – NPSH or NH	175.00	_____
	<u>Fireboss</u> 1" Single Jacket Forestry Attack Line with Yellow Permatex Treatment with 1" NPSH or 1" NH Aluminum Forestry couplings (please circle preference)		
_____	1 x 25'	55.00	_____
_____	1 x 50'	85.00	_____
_____	1 x 100'	145.00	_____
	<u>MytiFlow</u> 3/4" Collapsible Garden Hose with Orange Permatex Treatment with 3/4" GHT Brass Couplings		
_____	3/4" x 25'	31.00	_____
_____	3/4" x 50'	51.00	_____
_____	3/4" x 100'	90.00	_____
		SUBTOTAL WITH OPTIONS:	_____

K – Transportation

Unit fully crated and shipped to the firehouse/cache via motor freight (forklift required).
Installation time is approximately 4 hours with simple hand tools.

Proudly built in New Jersey in the U.S.A.!