

## **ARGO 8x8 RESPONDER FF CET Fire Fighting Skid Unit + Foam**

The ARGO 8x8 750 HDi CET Fire Fighting Skid Unit with Foam can be used instantly to deploy firefighters, complete with the spray and foaming equipment to suppress fires on the spot. Put the same system to work to protect vulnerable sites with fire retardants to help prevent fires before they start.

The 8-wheel drive amphibious off-road vehicle overcomes all terrain and weather conditions to transport personnel and equipment to and from remote fire sites, with a firefighting unit that can easily be removed and switched out for a Stretcher (Ferno #9), Basket (Ferno Traverse) or 80 gallon water tank without foam.

ARGO's load carrying capacity also gives emergency planners total flexibility to deliver the right personnel and supplies with every trip to the site – up to 6 passengers on land, 4 on water or as much as 1,150 lb. (521 kg) of payload.

Add ARGO to your rescue fleet for the response you need when the odds are stacked against you.



### **Standard Equipment (Drop-in Unit)**

- 6 hp Honda motor with CET two stage centrifugal fire pump
- Fully baffled 75 gallon water tank
- Bilge pump
- 5 gallon drop in foam cell (80 gallon total)
- Scotty foam system with hardware for foam cell
- 100 ft. (30.4 m) 5/8" (16 mm) booster hose and forestry nozzle
- Brushguard and WARN Power Winch
- Tow hook and Entry step
- 1.5" (38 mm) Suction inlet
- 1.5" (38 mm) Secondary outlet for soft hose

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### **Vehicle Features**

- Innovative triple-differential ADMIRAL transmission with independent steering brakes
- Optional high torque transmission for extreme terrain performance
- Increased steering efficiency for more and constant power to the wheels
- Electronic Fuel Injection provides:
  - Increased fuel efficiency
  - Reliable cold weather starting
  - Improved high altitude performance
  - On-board diagnostics
- Large rear cargo capacity
- Long wheel base for increased ride comfort over rough terrain
- Large triple-sealed outer axle bearings
- Front and rear bearing extensions
- Full skid plate for lower body protection
- 8-wheel traction with low centre of gravity for extra stability
- 25" (635 mm) ARGO tires with proprietary tread design
- Electronic ignition, brake lights, horn and back-up alarm
- Digital Gauge Cluster (speedometer, tachometer, odometer, voltmeter, hour meter, engine coolant temperature, low oil pressure, parking brake reminder lights and check engine light)
- Self-adjusting hydraulic brakes with vented discs
- Low emissions



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## **CET Fire Fighting Skid Unit + Foam**

### **Standard Equipment**

#### **ARGO CET Fire Fighting Skid Unit + Foam - 850-294**

Base 75 US gallon drop in tank, + 5 US gallon foam cell (80 US gallon total), 6 hp Honda engine with CET two stage centrifugal fire pump, 100 ft. (30.4 m) 5/8" (16 mm) booster hose and forestry nozzle, including Scotty foam system.

#### **Bilge Pump - 638-40**

Highly recommended for amphibious use of any ARGO. Operated by a dash mounted switch, the pump quickly removes water from the lower body.

#### **Brushguard - 642-49**

Installation of mounting assembly or power winch is required. Features an integrated tow hook and mounting tabs for fog light kit.

#### **WARN Power Winch - 622-142**

For vehicle recovery 3,500 lb. (1,588 kg) capacity, reversing with free wheeling out, 40' (12 m) cable with 30' (9 m) nylon strap. Safety switch disables winch unless ignition is on.

#### **Tow Hook - 642-00**

Easy to install. Allows winch cables or towing straps to be attached to your ARGO.

#### **Entry Step - 848-173**

Convenient and easy access to the vehicle. Can be mounted in four different positions.

### **Optional Accessories**

#### **Whelen Siren/Speaker – 850-308**

Heavy duty and compact, the Whelen high efficiency siren/speaker combination will cover you with distinct high impact sound at all levels.

#### **Whelen Perimeter Lighting – 850-287**

Multi-purpose strobe lights designed for making the vehicle more visible. Super-LED lightheads provide reliable, bright light which will stand up to harsh environments and vibration.

- 2 x red/white ion (rear)
- 4 x Vertex red/white with flanges (corners)

#### **Whelen Dominator, Red/White (Front) – 850-286**

Small size and fully waterproof design make the red and white light Dominator the versatile answer to all your warning and signalling needs. This small but powerful light array is the solution to your unique warning light requirements. Note: Siren & Dominator mount onto optional brushguard.

#### **Fold Down Light Bar – 850-285**

Support structure that provides users with option of adding one revolving light (Whelen L31 red beacon - 850-305) and two spotlights (Whelen PAR23 LED spot lights - 850-307) in order to aid visibility due to rain, fog, dust or snow. **Note:** Requires mounting bracket 850-306.

**Note:** Firefighting skid unit can easily be exchanged with stretcher kit or basket. See website or Search & Rescue Unit sell sheet for more details.





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# **ARGO 8x8 RESPONDER FF**

## **CET Fire Fighting Skid Unit + Foam**

### **Detailed Specifications**

#### **Water Tank**

The water tank shall be constructed of 1/2" (12.7 mm) thick polypropylene sheet stock with PolymarCo-PP™ resin. Water tank shall be welded with Heavy Duty extruded joint. The material shall be of a certified, high quality, non-corrosive, stress relieved thermo plastic, black in color with a textured finish, and UV stabilized for maximum protection. The skid type water tank shall be of a standard configuration and shall be so designed to have complete modular slide in capability. The unit shall incorporate transverse partitions manufactured for 3/8" (9.5 mm) PT2E polypropylene which shall interlock with a series of longitudinal partitions constructed of 3/8" (9.5 mm) PT2E polypropylene. All swash partitions shall be so designed to allow for maximum water and air flow between compartments and are fully welded to each other as well as to the inside of the tank. The passenger side rear wall of the tank shall have a standard built in sight gauge 3" (76 mm) in width, and 70% transparent.

#### **Fill Tower & Tank Cover**

The tank shall be equipped with a combination manual fill tower. The fill tower shall have a 5" x 5" x 6" (127 mm x 127 mm x 152 mm) square hinged type cover. There shall be a vent /overflow installed inside. The tank cover shall be constructed of 1/2" (12.7 mm) thick PT2E polypropylene, black in color, UV stabilized.

#### **Tank Capacity**

The tank shall have a capacity of 75 U.S. gallons (284 litres) of water.

#### **Foam Cell**

A drop in style foam cell shall be provided in the tank. This foam cell shall be constructed using the same materials and methods as the skid tank. The foam tank shall be incorporated within the water tank and should be of a drop-in type integral to the water tank.

#### **Foam Cell Capacity**

The foam cell shall have a capacity of 5 gallons (19 litres).

#### **Sump**

The floor of the tank shall be manufactured from 3/4" (19 mm) PT2E polypropylene. There shall be one (1) sump as standard per tank. The sump shall be integral to the tank floor and be a minimum of 3/8" (9.5 mm) deep recessed into the floor. The sump shall not be visible from or protrude through the bottom of the tank.

#### **Tank Outlets**

There shall be two standard tank outlets located on the top of the tank. One (1) 1-1/2" (38 mm) female NPT tank to pump suction fitting and one (1) 1-1/2" (38 mm) female NPT tank fill fitting with flow deflector.

#### **1" (25 mm) Tank Drain**

There shall be a 1" (25 mm) tank drain to the rear side of the tank with a plastic plug.

#### **Tank Mounting Blocks**

The cover shall incorporate two (2) booster reel mounting blocks that shall accommodate two (2) each sliding nut fasteners. These 3" (76 mm) large mounting blocks shall be welded to the covers running from the rear edge of the tank forward to the front edge.

#### **Special Tank Configuration**

The water tank will be made to fit special dimensions provided by the fire department and accepted by the drop in manufacturer and tank manufacturer.

A minimum of 8 1/2" x 11" (216 mm x 279 mm) sized drawing will be provided for final approval.

#### **Pump UMP 6-M-TW**

The pump shall be a CET DI-PFP-6hpHND-M-Twin two (2) stage centrifugal fire pump, bolted directly to the engine, with a 1.5" (38 mm) NPT suction inlet, two (2) 1" (25 mm) NPT discharge outlets and one (1) 1.5" (38 mm) NPT outlet.

The pump piping shall be flexible to prevent any breakage caused by vibration.

The pump shall be capable of a maximum discharge volume of 70 GPM. at 10 PSI, and a maximum discharge pressure of 125 PSI while pumping 20 GPM. In the center of the performance curve, the pump shall be capable of pumping 40 GPM at 100 PSI.

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### **Detailed Specifications**

#### **Pump Engine**

The pump shall be driven by a 4-stroke Honda gasoline powered, 6.5 horsepower single cylinder engine. The engine shall be air cooled with recoil starting. The engine shall be fueled from a 1.5 gallon (5.67 litres) fuel tank which is to be mounted on the engine.

#### **Priming System**

A manual guzzler priming diaphragm pump shall be provided and installed on the pump for ease of use and priming capabilities. This pump can lift 20' (6.1 metres) of water.

#### **Suction Piping**

All piping on the suction side shall be made of steel (welded joints) schedule 40. The suction piping, the pump and the discharge shall be tested to 300 PSI.

The suction piping shall consist of a 1.5" (38 mm) tank to pump line with a 1.5" (38 mm) flexible rubber hump hose to minimize flex and vibration between the pump and the tank.

Between the tank and the pump there shall be a 1.5" (38 mm) industrial valve. This valve shall remain open to pump from the tank. The overboard suction connection shall have a 1.5" (38 mm) NST male adapter and a 1.5" (38 mm) NSTF cap with retaining cable.

#### **Other Valves**

Other openings will be utilized accordingly when pre-connects, booster reels and other accessories that require pressurized water are specified.

#### **Discharge Valves**

All valves shall be an Industrial type ball valve which shall have a rugged stainless steel ball, quarter turn handle and shall be painted red to match the plumbing.

The valves shall be capable of bi-directional flow with a minimum working pressure rating of 350 PSI.

#### **Discharge to Side of the Unit**

One (1) 1 1/2" (38 mm) industrial valve drop out style with handle and 1 1/2" (38 mm) NPSH threads shall be furnished with a cap and chain.

#### **Tank Fill**

There shall be one (1) 1" (38 mm) Industrial Ball valve plumbed via high pressure hose from the manifold to the Tank Fill inlet noted on the tank for the purpose of filling the tank and re-circulating water during stagnant pump operations.

#### **Booster Reel**

A manual, Rapid Reel rewind hose reel with 100' (30.4 metres) of 5/8" (16 mm) booster hose capacity shall be supplied and plumbed to the pump discharge.

#### **Booster Hose**

100' (30.4 metres) of 5/8" (16 mm) shall be supplied and installed on the hose reel prior to delivery.

#### **SCOTTY FOAM SYSTEM**

There shall be a Scotty model #4171 around the pump foam eductor / mixer installed integral to the pump. The eductor shall be plumbed from the foam cell with 1/2" (12.7 mm) flexible reinforced tubing to throughout the eductor to a suction fitting on the pump impeller housing.

The eductor shall be calibrated to educt foam concentrate at variable percentage into a discharge manifold flowing 15, 30, 50 and 70 gallons (56.78, 114, 189, 265 litres) per minute.

The eductor shall be capable of a discharge of a .01% to 1% foam solution in .01% increments at specified flows.

The foam system shall have a strainer easy to clean without tools to prevent blockage inside the foam system.

**\*Note:** 80 gallon tank does not include Scotty Foam system.

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# ARGO 8x8 RESPONDER FF

## Tracks

### 13" (330 mm) Standard Tracks – 815-42K

13" (330 mm) wide thermoplastic rubber segments go over 24" (609 mm) ARGO tires, reducing ground pressure for travel over snow or flooded areas. Standard Tracks require the use of ARGO 24" (609 mm) tires.

### 18" (457 mm) Super Tracks – 825-42K

18" (457 mm) wide thermoplastic rubber segments go over 24" (609 mm) ARGO tires, providing optimum floatation over deep snow. Super Tracks require the use of ARGO 24" (609 mm) tires.

### 18" (457 mm) Rubber Tracks – 825-50-1

Light weight and durable construction, combined with low rolling resistance to ensure smooth quiet operation in most difficult terrain conditions. The 18" (457 mm) track width ensures optimum floatation and minimal ground pressure while the tread design offers exceptional traction on various hard and soft surfaces.



Our partners:



#### Model Specifications

Model		8x8 HDi
Engine/Warranty		Kohler Aegis / Gas / 3
HP/Displacement/Runtime		30 / 748cc / 8 hrs <sup>5</sup>
Type		4 cycle-OHV V-Twin, electronic ignition
Cooling/Starting/Brakes		Liquid Cooled / Electric / Hydraulic
Steering		One piece, ergonomic handlebar. Steering control features hand brake. For safety and ease of handling, the ARGO steering transmission provides continuous torque to all axles.
Controls		Right-hand twist grip throttle. Light switch and ignition switch.
Clutch		Belt-driven, Continuously Variable Transmission (CVT) maximizes engine power to the transmission.
Transmission/Drive System		ADMIRAL <sup>8</sup> / Roller chains drive machined sprockets that are spline-fit onto the 1 1/4" diameter axles and are protected with triple sealed greaseable bearings.
Frame		Formed & welded steel channel construction polyester powder-coated.
Body/Skid Plate		Vacuum formed High Molecular Weight Polyethylene / Standard
Load Capacity <sup>1</sup>	On Land	1,150 lbs (521 kg) total
	On Water	1,000 lbs (454 kg) total
	Compartment	—
Towing Capacity <sup>3</sup>		1,800 lbs (816 kg)
Fuel Capacity <sup>5</sup>		7.1 US gallons (27 L) see-through Polyethylene tank.
Seating Capacity <sup>4</sup>		6 persons on land, 4 persons on water
Speed <sup>6</sup>	On Land	20 mph (32 km/h)
	On Water <sup>7</sup>	3 mph (5 km/h)
Axle Bearing Extensions		Front & Rear - Standard
Tires		ARGO AT189 25x12-00-9 NHS
Ground Pressure		1.7 psi (13.5 kPa) using tires / 0.67 psi (4.6 kPa) using tracks
Ground Clearance	Tires	9.5" (240 mm)
	Tracks	11" (279 mm)
Shipping Weight		1,260 lbs (572 kg)
Shipping Dimensions (LxWxH)		119" x 60" x 46" (3,020 mm x 1,525 mm x 1,170 mm)
Operating Conditions		All weather, all terrain, -40°F to +105°F (-40°C to +40°C)

<sup>1</sup> Capacity includes occupants, cargo, outboard motor and fuel, and installed accessories.

<sup>3</sup> Towing capacity is approximate and depends on type of surface, load on vehicle as well as incline.

Max. Hitch Tongue Load (when equipped with hitch) 100 lb. (45 kg) for all models

<sup>4</sup> Subject to rear compartment and load capacity limitations.

<sup>5</sup> Fuel consumption depends on load and operating conditions.

<sup>6</sup> All speeds are approximate and depend on conditions.

<sup>7</sup> Always wear approved Personal Flotation Device (PFD) when operating in water or on ice.

<sup>8</sup> ADMIRAL triple differential steering transmission with dedicated Hi and Low selector; Forward, Neutral, Reverse.



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...always in Season!

tread lightly!  
ON LAND AND WATER



Proud to be located in  
Canada's  
Technology  
Triangle

In all cases, vehicle load limits have been considered. For safety, always wear approved helmets and eye protection. When operating in water, always wear approved Personal Flotation Devices. Always remain seated while in the ARGO. 678-029 • Printed in Canada 08/2015