



GOT WATER?

 **OTTER**  
HYDRAULIC SUBMERSIBLE PUMP SYSTEM **MINI**



- Portable “floating hydrant” with flows up to 2000 GPM (7571 LPM)
- Saltwater corrosion-proof carbon fiber pump casing and impeller
- No priming or drafting required
- Access more water, including remote impounded water sources
- Ultra-lightweight submersible pump (90 lbs / 41 kg)
- Improved water shuttle operations, eliminate the draft engine
- Lightweight power system is airliftable

**FIGHT FIRES & FLOODS**

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BRING YOUR OWN HYDRANT®



### About the Otter Mini



The Otter™ Mini is a hydraulically powered ultra-lightweight, high-volume, composite floating submersible pumping system capable of flows up to 2000 GPM (7571 LPM) used for remote water supply sourcing and emergency dewatering operations.

The power unit can be mounted on a vehicle or trailer with a minimum 2200 lb (998 kg) payload and a 5.5 ft (1.6 m) or longer bed. With its standard 100 ft (30 m) hydraulic umbilical, the Otter Mini has considerable versatility to access open water sources that a typical fire pumper or draft pump cannot reach.

The Otter system's SP1 floating submersible pump uses the latest advancements in structural composite technology to achieve an ultra-lightweight design that is physically manageable by a single emergency responder. The Otter Mini is well suited in supplying pressurized water to downstream apparatus, dewatering flooded infrastructure and pumping brine solutions and contaminated fluids such as chemical and oil spills.

- Simple push-button operation
- Saltwater Corrosion Proof Carbon Fiber Pump Components
- Power Unit Fits in Most Available Pickups
- Power Unit can be moved with a fork-lift or by hand with a standard pallet jack
- Toolless panel removal
- Lightweight Aluminum body

- **Water Supply (Floating Hydrant)**
- **Water Transfer**
- **Dewatering (Flood mitigation)**

# OTTER MINI PUMP SPECIFICATIONS



## SP1 Submersible Pump

The Otter MINI uses the SP1 submersible pump, a carbon fiber-reinforced polymer composite pump. With strength comparable to steel, the SP1 casing and impeller are corrosion-proof in saltwater and provide an ultra- lightweight design.

- 6" Outlet
- Weight (41cc motor):~90 lbs (41 kg)
- Formed fiberglass or aluminum suction screen/base
- Foam-filled pontoon flotation

## POWER UNIT

- Tier 3: 85 HP (63 kW) Hatz
- Tier 4/EuroV: 74 HP (55 kW) Hatz
- Diesel Cap.: 16 Gal (60 L) stainless steel tank
- 4-Hour run-time at 100% load

## ENCLOSURE SKID

- Dimensions
  - Length: 64" (1626 mm)
  - Width: 48" (1219 mm)
  - Height: 51" (1295 mm)
- Welded Aluminum skid with steel lifting bail
- Aluminum panels
- Longitudinal forklift pockets
- Total system weight: ~2200 lbs (998 kg)
- Interior and Exterior LED lighting
- Toolless Panel Removal

## HYDRAULIC POWER SYSTEM

- Closed loop system with variable displacement hydraulic pump
- Eco-friendly biodegradable hydraulic fluid
- 7.5 gallon (28 L) stainless steel hydraulic tank

## HYDRAULIC HOSE REEL

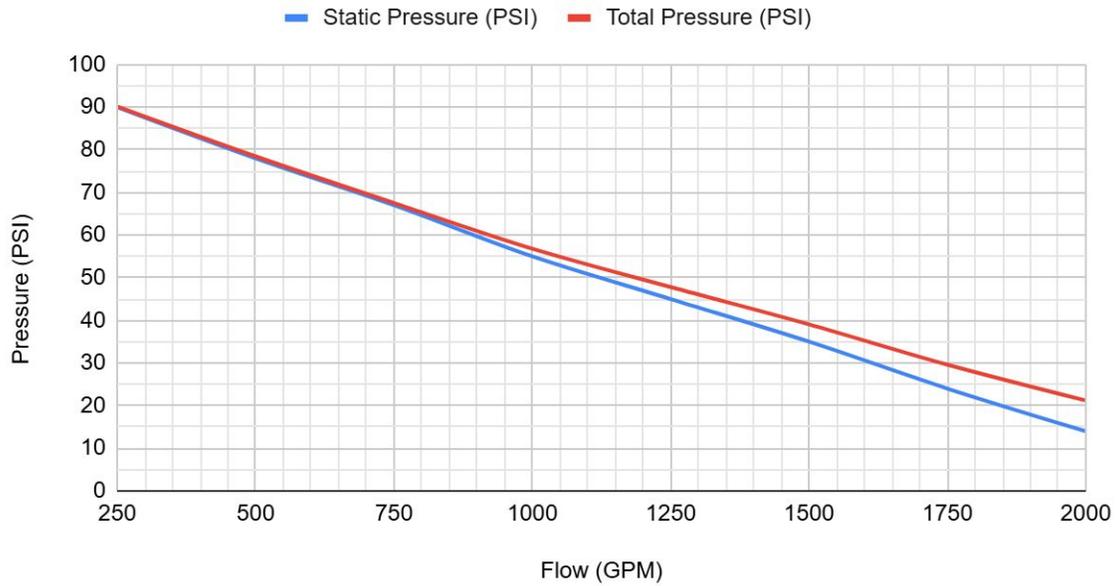
- Standard 100 ft (30 m) hydraulic umbilical
- Steel braided reinforced hydraulic line with Nylon abrasion resistant cover
- Quick connect hydraulic fittings for submersible pump

## CONTROL SYSTEM

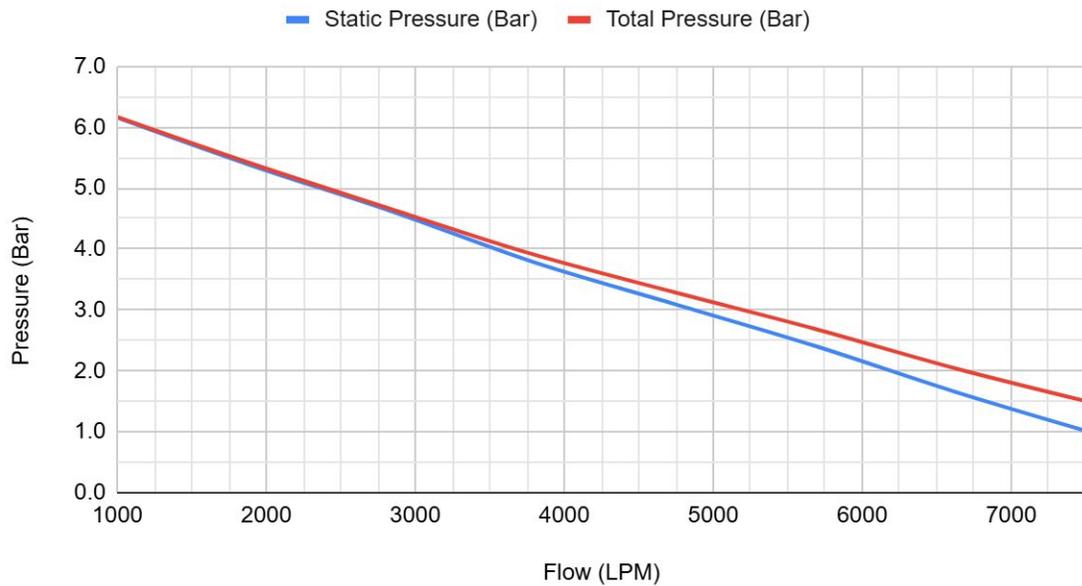
- Rugged Plus+1 Control screen
  - IP67 sealed physical buttons
  - Monitor and control engine and hydraulic power systems
- Emergency Stop
- IP65 Enclosure Rating
- "Smart Charger" Technology

# OTTER MINI PUMP SPECIFICATIONS

## SP1: Otter MINI



## SP1: Otter MINI (Metric)

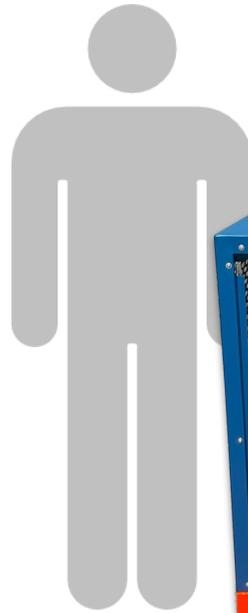


# OTTER MINI PUMP SPECIFICATIONS



Quick Release Engine Access Panel

Forklift Pockets



6' (1.8 m) tall person



Engine Maintenance Access

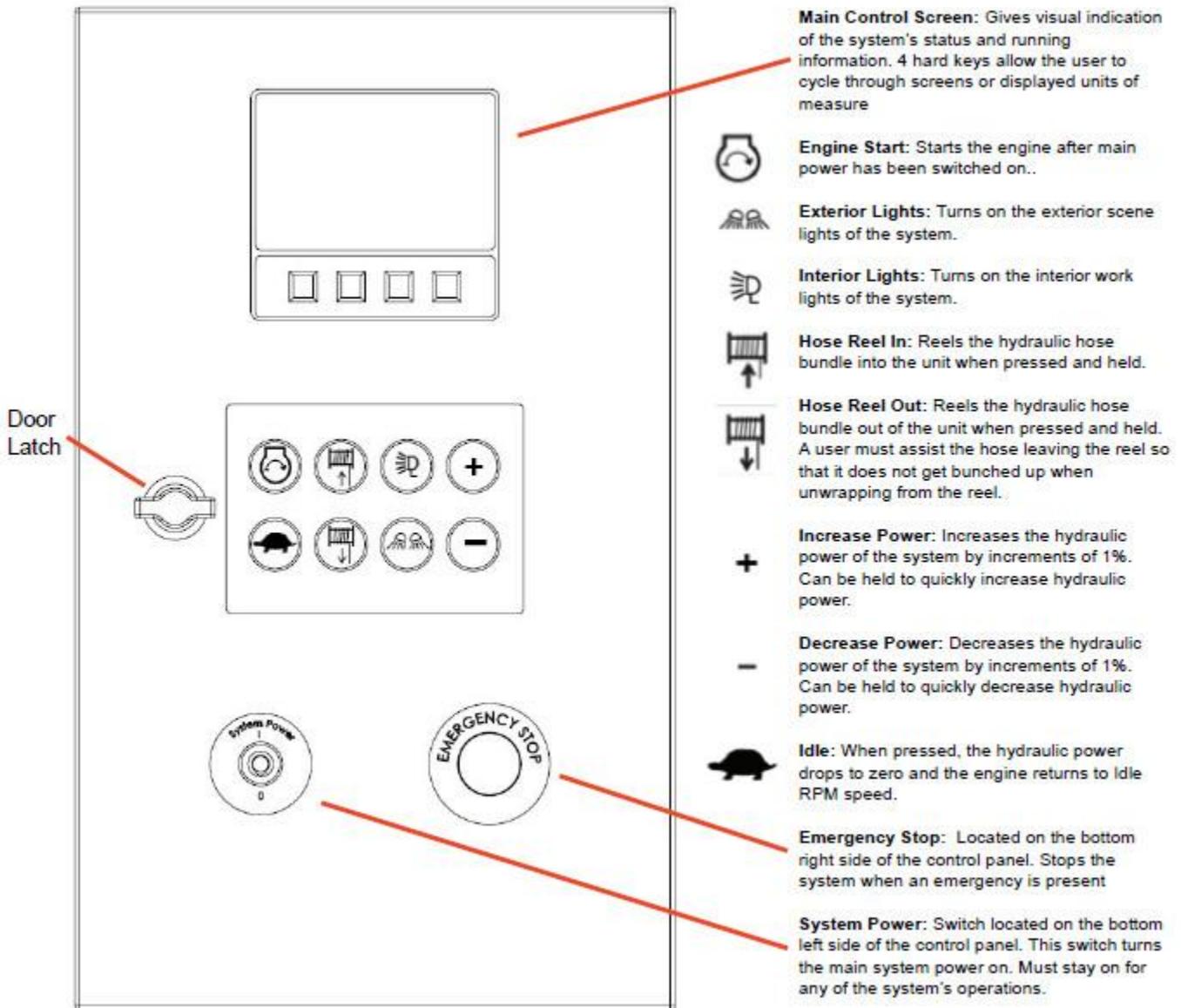


# OTTER MINI CONTROL SYSTEM

## SIMPLE TO DEPLOY & SIMPLE TO OPERATE

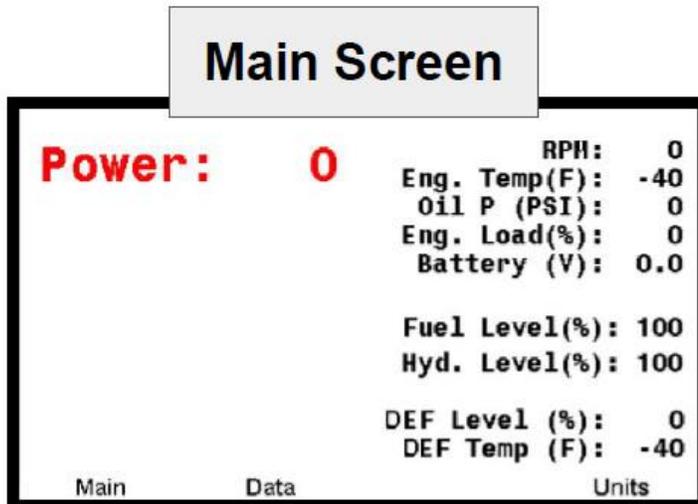
The Otter uses a modern rugged control system with simple up/down operation. The operator only needs to set the desired power level the control system handles the rest.

- IP65 Sealed Control Enclosure
- Day/Night High Visibility
- Single Button Operation



# OTTER MINI CONTROL SYSTEM

## MAIN SCREEN DISPLAY



**Power:** Indicates the current power level of the combined hydraulic and engine subsystem. 0-100

**RPM:** Keeps the user updated on the live RPM of the system.

**Temp:** Gives the user a live readout of the temperature of the engine.

**Oil:** Keeps the user updated on the psi of the Engine Oil

**Fuel level:** Keeps a live update on the fuel level of the system. This will blink red when the level falls below 25 percent

**Hyd. Level:** Keeps a live update on the Hydraulic fluid level of the system. This will blink red when the level falls below 70 percent as a warning to fill the tank when possible.

**Eng. Load:** Current engine load of the system.

**DEF Level:** Current level of Def Fluid (For Tier 4 Units Only)

**DEF Temp:** Current value of Def Temperature (For Tier 4 Units Only)

**Battery (V):** Battery voltage of the system.

**Engine Hours:** Accumulated hours of the system.

**Fuel Rate :** Fuel rate that the system is consuming.

**Oil Pressure :** Oil pressure of the system.

**Hyd. Pressures:**

- **Power:** Indicates the hydraulic pressure of the power loop of the system
- **Charge:** Indicates the hydraulic pressure of the charge loop of the system

