

全世界重量最轻的水源泵：Otter™（水獭）

推介世界首个全复合材料超轻漂浮水源泵



FIGURE 1: OTTER POWER UNIT

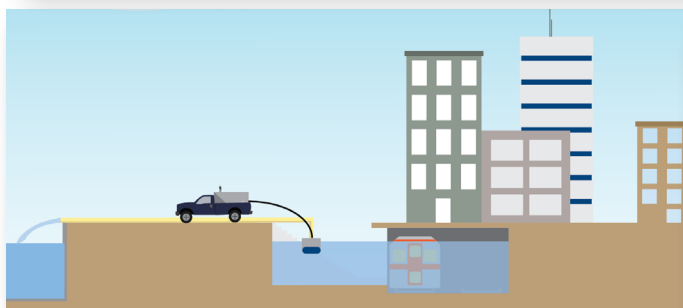
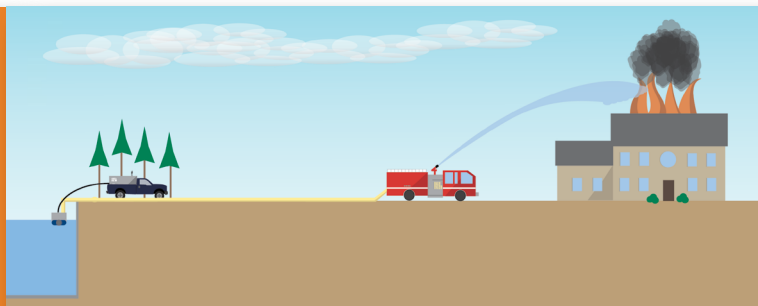
Otter™（水獭）是一种新型超轻大流量复合材料漂浮水源泵（专利申请待批），适用于 远程采水与应急排水作业。

动力单元（Figure 1）可用有效载荷不低于3200磅（1452公斤）且车斗长度不短于6.5英尺（2.0米）的车辆载运，从而让Otter（水獭）泵具有高度的通用性，可以利用 普通消防泵车难以进入的开放水源。

采用复合材料泵体技术的最新成就，Otter（水獭）泵仅重85磅（38.5公斤），因而极度灵活，可以适应各种独特的紧急情况。此泵机可由一名到两名应急救援人员人力搬运操控， 因而具有巨大的部署优势。

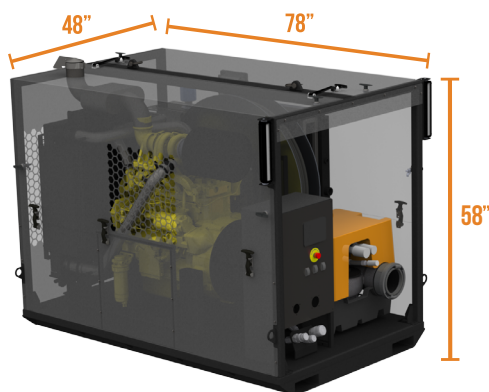
使用Otter（水獭）泵的常见场合

没有消防栓？您可以自带！
在此情境中，Otter（水獭）漂浮水源泵从远程开放水源直接取水，并输送给消防车或增压泵，后者可为扑灭城市或工业火灾提供补充高压水流。



在此情境中，Otter（水獭）液压驱动漂浮水源泵被用作抗洪抢险的应急排水措施，抽取地下道或其他基础设施内的积水，并排放到适当区域。

OTTER SYSTEM SPECIFICATIONS



ENGINE DRIVER SYSTEM

- John Deere 4.5 L PowerTech™ 140 hp Diesel Engine
- EPA Tier 3 Emission Standards
- 32 gallon (121 L) stainless steel fuel tank
- 4-hour run time at 100% engine load

HYDRAULIC POWER SYSTEM

- Closed Loop System with variable displacement Sauer Danfoss hydraulic pump
- Mobil EAL 224H non-toxic, biodegradable hydraulic fluid
- 12.5 gallon (47.3 L) stainless steel hydraulic tank

ENCLOSURE SKID

- 78" L (1981 mm) x 48" W (1219 mm) x 58" H (1473 mm)
- Structural Steel Frame with Aluminum Enclosure
- Integral heavy duty forklift pockets and top lifting rings
- Total Weight (including Otter stored inside) 3200 lbs (1452 kg)
- Interior and exterior lighting

TRANSPORTATION MODE OPTIONS

- 4x4 Pickup Truck with minimum 3200 lb (1452 kg) payload capacity
- Tow-behind trailer
- Airlift Capable

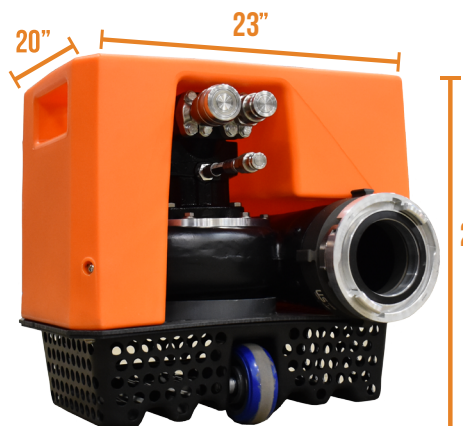
HOSE REEL

- Standard 75 ft (23 m) umbilical high pressure hydraulic lines
- > 100 ft (30.5 m) option available
- Lightweight, abrasion resistant thermoplastic Parflex bundle
- Stainless steel quick connect fittings

CONTROL SYSTEM

- Parker IQAN MD4-5
- > 5.7" (145 mm) Touchscreen LED display module for monitoring and controlling engine and hydraulic power systems
- Emergency Stop
- IP65 Enclosure Rating
- "Smart Charger" Technology

OTTER PUMP SPECIFICATIONS



DIMENSIONS

- 20" (508 mm) L
- 23" (584 mm) W
- 21" (533 mm) H

WEIGHT

- 85 lbs
- (38.5 kg)

PUMP TYPE

- Centrifugal

PERFORMANCE

- Minimum required operating depth - 20" (508 mm)
- "Floating Hydrant" operation concept
- Nominal flow capacity at constant speed
- > 2000 GPM (7571 LPM) @ 85 ft (37 psi)
- > Additional flow performance points at 100% load
 - 1000 GPM (3785 LPM) @ 158 ft (48 m) (68 psi)
 - 1250 GPM (4732 LPM) @ 148 ft (45 m) (64 psi)
 - 1500 GPM (5678 LPM) @ 129 ft (39 m) (56 psi)
 - 1750 GPM (6624 LPM) @ 106 ft (32 m) (46 psi)

HYDRAULIC MOTOR

- Parker-Hannafin F12-40 Motor with stainless steel quick connects

PUMP IMPELLER

- Corrosion-proof structural reinforced graphite polymer composite

SUCTION STRAINER

- Integral thermoplastic strainer and skid

FLOTATION PONTON

- Sealed Thermoplastic

PUMP CASING

- Corrosion-proof fiber reinforced polymer composite
- 6" (152 mm) discharge with 5" (127 mm) Storz adapter and connection (6" Storz optional)
- UV Resistant

Otter (水獭) 泵的十大功能与益处

1. 便携式“漂浮消防栓”为消防泵机提供可靠的大流量正压供水
2. 针对淡水和盐水均有优越的防腐和抗腐能力
3. 无需预灌注或负压抽水
4. 可以利用更多的开放水源。或许可以提高保险评级时的供水得分
5. 可由一名到两名应急救援人员人力搬运操控，因而易于部署和回收
6. 部署灵活，可用于各类地形与基础设施布局
7. 通过取消抽吸泵机和缩短罐车加水时间，可能改善穿梭供水作业
8. 长期作业时可在运转中便利地补充燃料
9. 动力单元机械可停放在易于出入但远离水源的位置
10. 使用可生物降解的无毒液压油，能够用于环境敏感区域

欲知更多详情：

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