

HDT LWPS

*Lightweight Water
Purification System*



The LWPS (Lightweight Water Purification System) from HDT Global redefines scalability and is the foundation of our lightweight water purification systems. This reverse osmosis system produces up to 300 GPH of potable water in any field condition and can be scaled up to 900+ GPH. The LWPS reduces operator training requirements, eliminates the need for additional water assets, and provides the capability to change the product water output based on specific needs.

With the most unique power source versatility in the field, the LWPS can be operated with multi-fuel engines or electric motors. No other water purification system offers the true scalability, power source flexibility and reliability of the LWPS.

The Extended Capability Modules (ECMs) that are available for the LWPS expand the functionality of the system to adapt to ever-changing and demanding field environments.



HDT LWPS

Lightweight Water Purification System

LWPS SMALL



- 300 GPH (1,136LPH) maximum flow rate on freshwater sources
 - 150 GPH (568 LPH) maximum flow rate on saltwater sources
 - Lightweight design allows two-person portability of modules
 - Modular design provides adaptive layout to changing expeditionary environments
 - Rugged, open-frame design allows for ease of maintenance and element replacement
 - Minimal personnel requirement: two-person setup and only one-person operation
 - Raw water source to system up to 330 ft (100.6 m) and a maximum 25 ft (7.6 m) of lift
 - Transportable by HMMWV, M1102 trailer, single Quadcon, air, or 1-Ton pickup truck
- Operational flexibility can be achieved with the addition of Extended Capability Modules (ECMs)
 - Ocean Intake Structure System
 - Cold Weather Kit
 - Nuclear, Biological, and Chemical (NBC) Module
 - Contamination Avoidance Cover

LWPS Small Ordering Information

HDT Part Number

H044989

LWPS MEDIUM



- 600 GPH (2,270 LPH) maximum flow rate on freshwater sources
- 300 GPH (1,135 LPH) maximum flow rate on saltwater sources
- Addition of a high pressure Pump and RO Module to the LWPS base system
- Minimal increase in operational footprint
- Save fuel and produce twice the output

- Minimal training requirements due to the addition of like components
- Rugged container provided for transport of EPM items

LWPS Medium Ordering Information

HDT Part Number

H044990

LWPS LARGE



The HDT LWPS Large can produce up to 1,500 GPH of fresh water and over 750 GPH of salt water.

Because of the LWPS' unique scalability and flow configurations, production can be scaled up or down based on field water requirements and location. The entire system can fit into two quadcon containers or one 463L pallet. As an accessory, the available Enhanced Capabilities Modules (ECM) are Ocean Intake, Cold Weather Kit, Chemical Agent Covers (CAC), and CBRNE filter modules.

The LWPS Large is the 3rd generation Lightweight Water Purification System. All modules are currently provisioned and taught at both the Navy and Marine Corps Military Occupational Specialty Schools.

LWPS Large Ordering Information

HDT Part Number

H038357

HDT LWPS

Lightweight Water Purification System



LWPS EXTENDED CAPABILITY MODULES



Maximize the operational flexibility of the HDT LWPS with the addition of Extended Capability Modules (ECMs). ECMs expand the functionality of your system to adapt to ever-changing and demanding field environments.

OCEAN INTAKE STRUCTURE SYSTEM (OISS)

P/N: T00001-5083

NSN: 4730-01-589-7385

The OISS is designed for use in the ocean surf, just above the water's edge. The long intake screens are placed into the beach sand before drawing water, and will remove sand, silt, and other debris from the seawater.



NUCLEAR, BIOLOGICAL AND CHEMICAL MODULE (NBC)

P/N: T00008-5083

NSN: 4240-01-589-1789

The NBC module can be added to remove NBC agents from the product water. Decontamination is performed by resin and carbon canisters placed in the product water stream between RO modules and the chlorinator.



COLD WEATHER KIT (CWK)

P/N: T00012-5083

NSN: 4610-01-590-2242

The CWK allows operations in freezing temperatures without adversely affecting water production. The kit consists of thermal blankets, pump collars and module covers. Also included is a power distribution box which connects all thermal components to a power source.



NOTE: Minimum 3kW power supply and shelter required.

CONTAMINATION AVOIDANCE COVER (CAC)

P/N: T00420-5083

NSN: 5340-01-654-6280

The CAC's are designed to easily fit over each LWPS module to protect them from fallout contamination.



HDT Expeditionary Systems, Inc.

30500 Aurora Road, Suite 100, Solon, OH 44139 USA

P 800.969.8527 / 216.HDT.6111 / sales@hdtglobal.com

NON-EXPORT CONTROLLED INFORMATION

Revision 3 01-24 01-13-01-0535