

HFD-PS40 Land Warfare Universal Watermaker

PRODUCT CHARACTERISTICS

Production / Day:	≤ 151 l (40 gal)
Production / Hour:	≤ 6.3 l (1.67 gal)
Power Requirement:	12v DC 4A/24v DC 8A - 8.5 Wh/1 liter 32 Wh/1 gal.
Weight:	22 kg (48.5 lbs)
Dimensions:	15.2 H x 44.5 L x 40.5 B cm 6 H x 17.5 L x 15.9 B inches
Pre Filters:	1 Micron prefilter (2 included)
Controls:	Fail-safe operation, unit starts when power is connected
Membranes:	High rejection spiral wound polyamide
Motor:	High efficiency brushed DC motor
Salt Rejection:	98.4% (96% minimum). The desalination degree depends on factors such as water temperature and salinity.
Water Temperature Range:	Max 35°C/95°F Min >1°C/>24°F
Storage range: (ambient temperature)	Max 60°C/140°F Min -29°C/-20°F in storage condition with preservative
Baseline Conditions:	33,000 PPM feed water at 25°C/77°C
Warranty:	1 year limited warranty
Article No.:	HFD-PS40-LAND



FACTS

The HFD is a portable water solution that can deliver purified drinking water from virtually any source, including fresh, brackish or seawater. Based on the proven PowerSurvivor 40E, this rugged watermaker operates with unprecedented energy efficiency using BB-2590 DC batteries, solar power, NATO slave power or common battery voltages. The HFD was originally developed for the USAF Guardian Angel Program and has been adapted to meet the needs of land based forces.

FEATURES

- Capable of creating potable water immediately ready for consumption
- Housed in a rugged MILSPEC plastic case
- P-248 compliant with included post filter
- Runs on 4 Amps at 12 Volts DC, making 6 liters (1.67 gallons) per hour
- Includes connections for BB-2590 batteries, NATO slave cable, or 12v/24v power sources
- Rugged and reliable 316 stainless steel pump mechanism
- Lowest current draw of any electric watermaker
- Converts to hand operation with included backup handle
- Watertight - Unit floats with case closed in storage condition

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Optional BB-2590 Batteries

Durable Military-Grade Plastic Case

Wet Accessories Storage

Handheld TDS Meter



Reverse Osmosis Membrane

Energy Recovery Pump

P-248 Post Filtration Included

Adjustable Depth 1 Micron Prefilter

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INCLUDED COMPONENTS



Feed Hose



Manual Operation Handle



Manual Operation Toolkit



Brine Hose



2x 1 Micron Prefilters



HFD Unit



P248 Certified Post-Filter and Product Hose



Extension Cable



NATO Slave Cable



12V or 24V Connection



2590 Battery Connector

OPTIONAL POWER COMPONENTS



Bren-Tronics 2590 Battery
(2 will fit in HFD Case)



Folding Solar Panel
(Fits in Case Lid)

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TESTING AND CAPABILITIES

- Capable of creating potable water immediately ready for consumption
- Tested and accepted by 88th Test and Evaluation Squadron for inclusion into Guardian Angel gearset (USAF HFD)
- Converts to manual operation with included handle when no power source is available
- Designed to operate in austere environments with a temperature range of 1°C to 49°C (33°F to 120°F)
- Drop tested in accordance with MILSTD 810G
- Comprised of non-corroding material, subdued non-reflective color
- Watermaker operates up to 14ft above water source
- Consumable prefilters can filter at least 340 l (90gal) in extremely dirty (50NTU) water (110 hrs running time)
- Watertight - Unit floats with case closed in storage condition
- Can be powered by DC sources ranging from 12-35V. Power connectors include NATO slave cable, 2590 battery connector, alligator clips for standard batteries and optional solar panel.

HFD-PS40-LAND	HFD Land Warfare System with 3 power connectors, prefilter, P248 post-filter	Included
EL-SLP-C120PN	MIL SPEC Solar Kit - 120w	Optional
EL-LHON-PS-BT	Bren-Tronics 2590 Rechargeable Battery	Optional
KIT-HFD-ACC-SP	Service Parts Kit	Optional
FT-FTC-P248W1/4	P248 Purification Kit Replacement	Optional
KIT-HFD-1MFCA	1 Micron Prefilter Kit	Optional

Katadyn reserves the right to modify products

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