

# LWPS and TACTICAL WATER

## Facts and Figures

- Water weighs 8.36 lbs per gallon
- LWPS System weighs 2,745 lbs and Quadcon weighs 1,764 lbs Total 4,509 lbs
- 4,500 lbs of water at 8.36 lbs per gallon is 538 gallons
- At 5.2 gallons per day per Marine, that would support 103 Marines for 1 day
- Once placed, LWPS water production of 2,500 per day supports 480 Marines for 1 day
- LWPS will use 25 gallons of fuel for 20 hr production run
- Resupply of 538 gallons will require (?) gallons of fuel – dependent on supply method
- Water for Marines in OEF costs DoD \$4.69 per gallon delivered
- Marine Corp Lightweight Water Purification System costs \$184,900.00
- LWPS Reliability testing was stopped at 1,700 hrs with no essential equipment failure
- LWPS water production for 1,700 hours at 150 gallons per hour is 255,000 gallons
- LWPS cost of \$184,900.00 divided by production of 255,000 gallons is \$0.72 per gallon\*
- LWPS cost of \$184,900.00 divided by \$4.69 per gallon is 39,424 gallons.
- LWPS water purification production capability is 2,500 gallons per day
- LWPS pays for itself in 15 days\*

\*Operational POLS not added to LWPS cost

NSN 4610-01-572-8283

## LWPS WEIGHT

	WEIGHT LBS
RAW WATER PUMP & ENGINE SET MODULE	170
PRODUCT WATER PUMP & ENGINE SET	169
STRAINER SEPERATOR MODULE	65
MEDIA CARTRIDGE FILTER MODULE #1	159
MEDIA CARTRIDGE FILTER MODULE #2	159
HIGH PRESSURE PUMP	66
HPP ENGINE SKID	185
RO MODULE (#1 SET OF 2 VESSELS)	96
RO MODULE (#2 SET OF 2 VESSELS)	96
MINIDOS CHLORINE INJECTOR W/WATER CAN	16
PALLET	70
<b>TOTAL SYSTEM WEIGHT</b>	<b>1,251</b>
1K BAG	57
3K BAG	98
HOSES (MINUS HOSES IN COEI CONTAINER)	403
ROPE (200FT X 2) & FLUKE ANCHOR	18
BII IN STORAGE BOX (INCLUDING WATER AND FUEL CANS)	97
COEI IN STORAGE BOX	104
ALL COVERS (MINUS CAC)	56
Mikee 15 GAL. BAG W/ COMPONENTS IN STORAGE BOX)	29
<b>TOTAL ACCESSORY WEIGHT</b>	<b>862</b>
<b>EXTENDED CAPABILITY MODULES</b>	
OISS (2 WELL POINTS PLUS TEE)	52
COLD WEATHER MODULE IN 4 STORAGE CONTAINERS	420
NBC WATER TREATMENT MODULE (IN STORAGE BOX)	70
CAC (7)	8
CARGO NET	14
RATCHET TIE DOWN STRAPS (2"X25 FT 8 STRAPS)	28
<b>TOTAL WEIGHT</b>	<b>592</b>
<b>LWPS TOTAL SYSTEM WEIGHT</b>	<b>2,705</b>
<b>QUADCON TARE WEIGHT</b>	<b>1,764</b>
<b>GRAND TOTAL LWPS SYSTEM</b>	<b>4,469</b>



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Contract GS-07F-144CA



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