

# LWPS and TACTICAL WATER

## Facts and Figures

- Water weighs 8.36 lbs per gallon
- 4,469 lbs of water at 8.36 lbs per gallon is 535 gallons
- LWPS System weighs 2,705 lbs and Quadcon weighs 1,764 lbs Total 4,469 lbs
- At 5.2 gallons per day per service member, that would support 103 service members for 1 day
- Once placed, LWPS water production of 2,500 per day supports 480 service members for 1 day
- LWPS will use 25 gallons of fuel for 20 hr. production
- Resupply of 538 gallons will require (?) gallons of fuel – dependent on supply method
- Water for service members in OEF costs DoD \$4.69 per gallon delivered
- 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 hrs. 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 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

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**LWPS WEIGHTS**

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

**TOTAL SYSTEM WEIGHT 1,251**

1K BAG	57
3K BAG	98
HOSES (MINUS HOSES IN SI3-2 CONTAINER)	403
ROPE (200FT X 2) & FLUKE ANCHOR	18
SL3-1 IN STORAGE BOX (INCLUDING WATER AND FUEL CANS)	97
SL3-2 IN STORAGE BOX	104
ALL COVERS (MINUS CAC)	56
MIKEE 15 GAL BAG W/ COMPONENTS IN STORAGE BOX	29

**TOTAL ACCESSORY WEIGHT 862**

**EXTENDED CAPABILITY MODULES**

OISS (2 WELL POINTS PLUS TEE)	52
COLD WEATHER MODULE IN 4 STORAGE CONTAINERS	420
NBC WATER TR EATMENT MODULE (IN STORAGE BOX)	70
CAC (7)	8
CARGO NET	14
RATCHET TIE DOWN STRAPS (2"X25 FT 8 STRAPS)	28

**TOTAL WEIGHT 592**

**LWPS TOTAL SYSTEM WEIGHT 2,705**

**QUADCON TARE WEIGHT 1,764**

**GRAND TOTAL LWPS SYSTEM 4,469**

