

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

NSN 4610-01-572-8283

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

IK 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) COEI IN STORAGE BOX	97
COEI 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

