

Individual Water Purification System



Requirement

Statement of need (SON) for the individual water purifier, 10 May 2001. Change 1 to statement of need (SON) for the individual water purifier, 05 May 2003. Change 2 to statement of need (SON) for the individual water purifier, 03 February 2004. Change 3 to statement of need (SON) for the individual water purifier, 30 April 2007.

Overview

The Individual Water Purification System (IWPS) is a critical element of the Marine's individual load. It is intended to provide the war fighter with the capability to obtain potable water from any existing water source, to include fresh water and saltwater while operating in austere environments. It will remove viruses, bacteria, waterborne pathogens and protozoan cysts, remove sediment, reduce Toxic Industrial Chemicals/Toxic Industrial Materials (TIC/TIM), and minimize bad taste and aroma.

Features

Block I: Water Purification

Selected in 2004 for limited use, the MIOX purification Pen has the capability to disinfect water from all known forms of viruses, bacteria, waterborne diseases and protozoan cysts in compliant with USEPA standards for water consumption.

Block IA: Water Filtration

The Inline Micro-Filter has the capability to remove sediment, bad taste and aroma from turbid fresh water. It is designed to integrate with the Improved Load bearing Equipment (ILBE) hydration system between the drink tube and the bladder. It is to be employed in emergency situations in austere environments where potable water is not available.

Fielding Status

Complete

Block I: MIOX Purification Pen:

Issued 1 per two Marines

Unit	Acquisition Objective	Quantity Fielded	Percent Fielded
I MEF	11390	11390	100
II MEF	11390	11390	100
III MEF	1514	1514	100
MFR	598	598	100
MARSOC	2018	2018	100
Total	26,910	26,910	100

Block IA Inline Micro-Filter:

Issued 1 per ILBE Hydration System

Unit	Acquisition Objective	Quantity Fielded	Percent Fielded
I MEF	44,277	44,277	100
II MEF	52,938	52,938	100
III MEF	23,622	23,622	100
MFR	41,335	41,335	100
BPS	27,846	27,846	100
Total	190,018	190,018	100

Training

None required

Supply/Logistics

All IWPS components are COTS items

MIOX Purification Pen

TAMCN: C30612B

NSN: 4610-01-513-8498

ID No: 11025A

Inline Micro-Filter

SL3 to the component of the ILBE

TAMCN: C54402F

NSN: 8465-01-515-8615

ID No: 11003A

R-ILBE

TAMCN: C53312E

NSN: 8465-01-534-3594

ID No: 11511A

MIOX Purification Pen is fielded to the MEF Special Training Allowance Pools (STAP) to support MEB deployments.

Inline Micro-Filter will be fielded and maintained at the Central Issue Facility (CIF) and to units not supported by a CIF / CARDF.

Production

Cascade Designs, Inc., Seattle, WA – Inline Micro-Filter
MIOX Corporation – MIOX Purification Pen

Manuals

ULSS 000008-15A PCN: 13211025000

<https://pubs.ala.usmc.mil/pubs/13211025000.pdf>

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