



**EP.ROWPU**  
*water treatment for battle field*

up to 272 cubic meters  
.....(72'000 GPD) per day

# EP.ROWPU

## Reverse Osmosis Water Purification Systems for Battle Field



EP.ROWPU, the Reverse Osmosis Water Purification systems, designed to provide purified drinking water to soldiers in battle fields. EP.ROWPU can convert contaminated swamps, wells, rivers or oceans water into fresh drinking water within 2 hours from deployment.

Under almost any operating conditions including nuclear, chemical and microbiological attacks, the autonomous EP.ROWPU can produce, a constant flowing stream of pure water, ready for human consumption.

EP.ROWPU's dimensions & weights were modified to fit in the C-130, C-141 and C5 air carriers for high transportability and possibility of platform airdrop. EP.ROWPU is designed and tested for air drop with accelerations ranging from 17.5 to 30g.



EP.ROWPU's can be transported by as external or internal load by heavy lift helicopters.





EP.ROWPU's are manufactured at a wide capacity range (50-250 cubic meters per day). Standard EP.ROWPU's for land based operations are built for installation on a rough terrain military truck for full mobility. The basic EP.ROWPU skid can be easily detached for static installation.

As an alternative to the integrated trailer mounted, EP.ROWPU's, can be build in "skid mounted", "canopy enclosed" or "self autonomous" systems. This configuration will allow for multiple skids integration for larger capacities operations.



EP.ROWPU's, with Nuclear, Biological and Chemical decontaminators are built in totally enclosed canopy for full protection during operations.

Due to its light weight and reliable performance , EP.ROWPU, are installed on the board of a wide range of navy warships as small as frigates up to large air carriers.

Transport and logistics warships are also equipped with RP.ROWPUs for fresh water making.





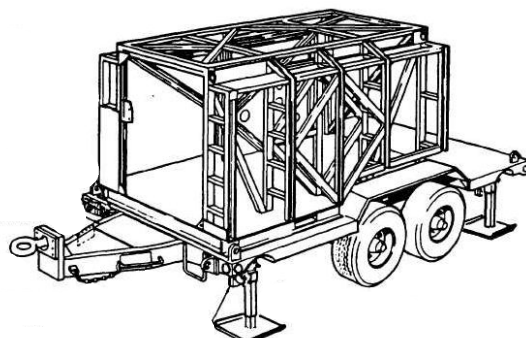
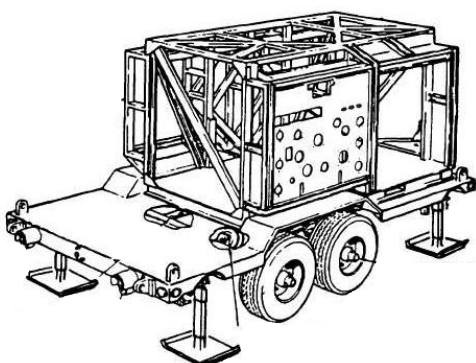
In 1990 EP.ROWPU 's, built for EPECO Saudi, were widely deployed in desert storm operations (August 2,1990-Feb 23,1991). EP.ROWPU's Gulf War II units were built on light weight Aluminum-Titanium alloy and heavy duty rough terrain trailers.



Each Gulf War II EP.ROWPU unit were capable of producing up to 272 cubic meters per day from brackish water or 160 cubic meters per day from seawater sources. **EP.ROWPU** units can be equipped with NBC (Nuclear, Biological and Chemical ) de-contaminators which can secure the production of pure water under the most difficult military operations conditions.



Saudi EP.ROWPU packages were fit with Bag Filling Machines which allowed soldiers to have fresh water supplies in standard 250, 500 and 1000 cc polyethylene bags. Water bags were manufactured for long lasting storage which met the most stringent fresh water supply requirements under battle conditions.



# EP.ROWPU ..... Navy & Marine Operations



Due to its light weight and reliable performance , EP.ROWPU, are installed on the board of a wide range of navy warships as small as frigates up to large air carriers.

Transport and logistics warships are also equipped with R.P.ROWPUs for fresh water making.

# EP.ROWPU *Range I..... up to 9 u m.day*



# EP.ROWPU *Range I*

## Performance

model	capacity						motor HP
	seawater		brackish water		NBC water		
	GPD	CMD	GPD	CMD	GPD	CMD	
EP.ROWPU 60	380	1.40	608	2.24	76.90	6.6	4
EP.ROWPU 120	760	2.80	1216	4.50	153.80	13.2	5.5
EP.ROWPU 180	1140	4.20	1842	6.70	230.60	19.9	7.5
E.PROWPU 240	1520	5.60	2432	9.00	307.50	33.1	11.0

model	Wt*		LxWxH	
	kg	lb	mm	inch
EP.ROWPU 60	150	330	1500x900x1000	60x35x40
EP.ROWPU 120	190	419	1500x900x1000	60x35x40
EP.ROWPU 180	240	529	1500x1000x1200	60x40x53
E.PROWPU 240	280	617	1500x1000x1200	60x40x53

\* Dry or Wet Weight & Dimensions for Total Systems and/or individual Seawater, Brackish Water or NBC and Power Pack (GenSet/Batteries) packages to be advised upon request.

### Standard Equipment

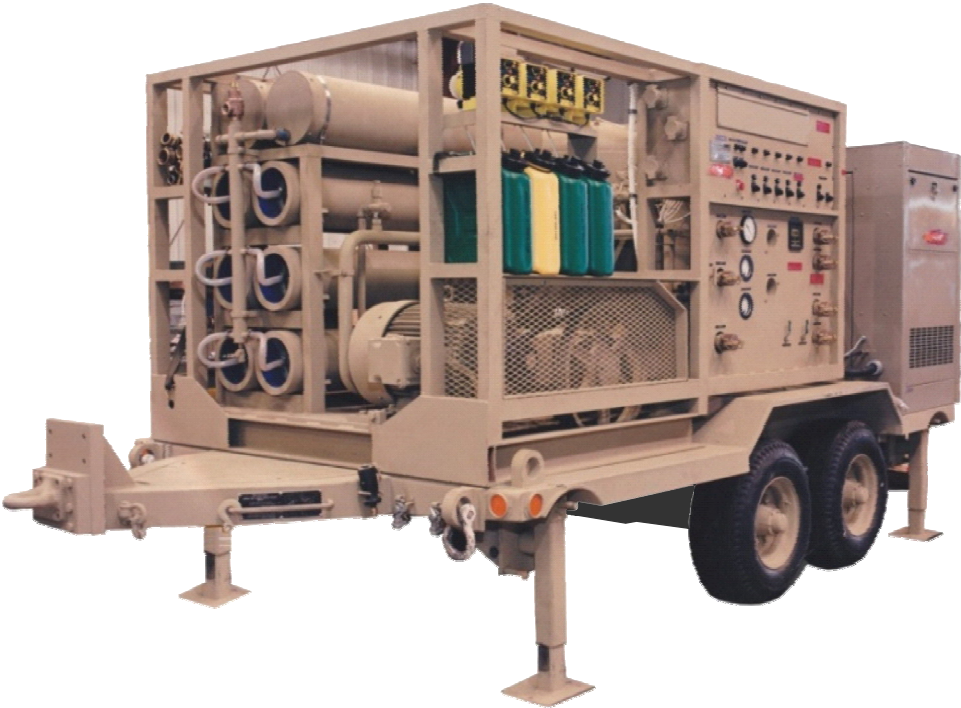
1. Skid mounted.
2. Titanium Aluminum Alloy Frame.
3. Noise Dampener.
4. Heat Emission Dampener.
5. Camouflage Cover.
6. Test Laboratory.

### Optional Equipment

1. Stationery/Canopy.
2. Rough Terrain Trailer.
3. Flexi-Rubber Tank(s).
4. Hoses.
5. Intake Pumps.
6. Power Pack/Baterries.
7. Power Pack/Gen Set.
8. Radar Scan Detector.
9. Remote Control.
10. Smart Wiring.



**ROWPU** *Range II..... up to 272 cu m.day*





# ROWPU *Range II*

## Performance

model	capacity						motor HP
	seawater		brackish water		NBC water		
	GPD	CMD	GPD	CMD	GPD	CMD	
EP.ROWPU 600	8700	33.0	14400	54.5	1750	6.6	45
EP.ROWPU 1200	17285	65.4	28800	110.0	3500	13.2	85
EP.ROWPU 1800	26100	98.8	43200	163.5	5250	19.9	125
E.PROWPU 3000	43200	163.5	72000	272.5	8750	33.1	235

model	Wt*		LxWxH	
	kg	lb	mm	inch
ROWPU 600	4500	9920	4500x2250x2250	177x89x89
ROWPU 1200	7500	16535	6000x2250x2250	236x89x89
ROWPU 1800	10000	22046	9000x2250x2250	394x89x89
ROWPU 3000	15000	33070	12000x2250x2250	472x89x89

\* Dry or Wet Weight & Dimensions for Total Systems and/or individual Seawater, Brackish Water or NBC and Power Pack (GenSet/Batteries) packages to be advised upon request.

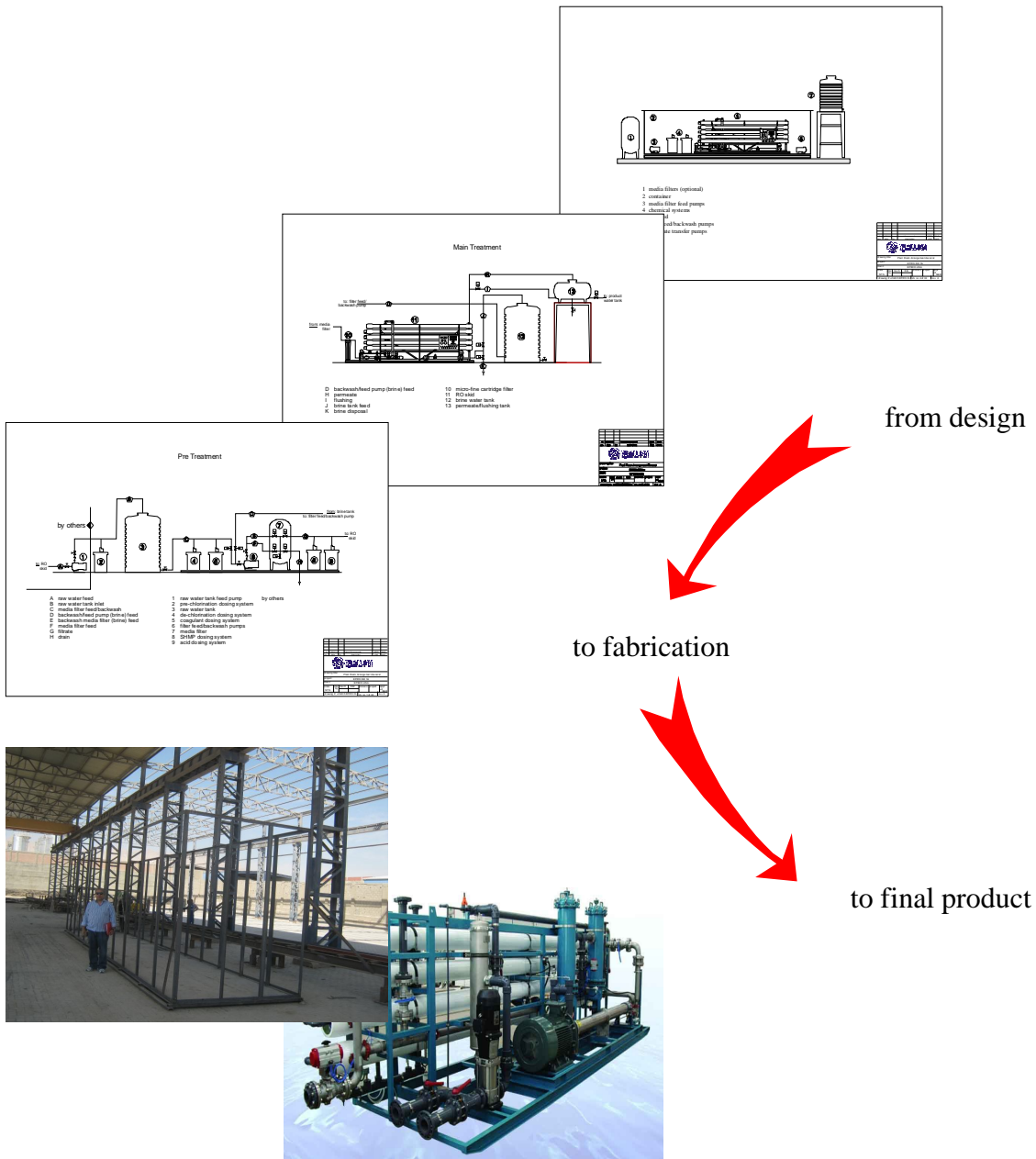
### Standard Equipment

1. Skid mounted.
2. Titanium Aluminum Alloy Frame.
3. Noise Dampener.
4. Heat Emission Dampener.
5. Camouflage Cover.
6. Test Laboratory.

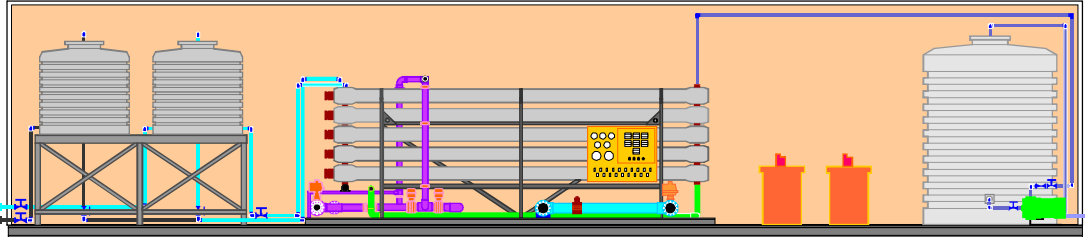
### Optional Equipment

1. Stationery/Canopy.
2. Rough Terrain Trailer.
3. Flexi-Rubber Tank(s).
4. Hoses.
5. Intake Pumps.
6. Power Pack/Baterries.
7. Power Pack/Gen Set.
8. Radar Scan Detector.
9. Remote Control.
10. Smart Wiring.

# EP.ROWPU ..... Total Capabilities



# EP.ROWPU ..... the Derivatives



E.PURE is a portable water treatment plant, capable of treating water supplies from virtually any surface water source and converting it to the highest quality product water for drinking and general use purposes. E.PURE plants are built to serve the most demanding rural areas where central municipality water supplies are missing.

E.PURE plants are designed and manufactured based on EPECO.USA experience with EP.ROWPU, the battle field water treatment systems.



# EP.ROWPU ..... the Derivatives

.....*contn'd*

## EP.ROs seawater desalination plants



The seawater desalination plants **EP.ROs** , are manufactured in modular packages and built on a standard skids. One **EP.ROs** module can desalinate up to 500 cubic meters per day of highly saline seawater and can be delivered to site fully assembled, tested and ready for quick

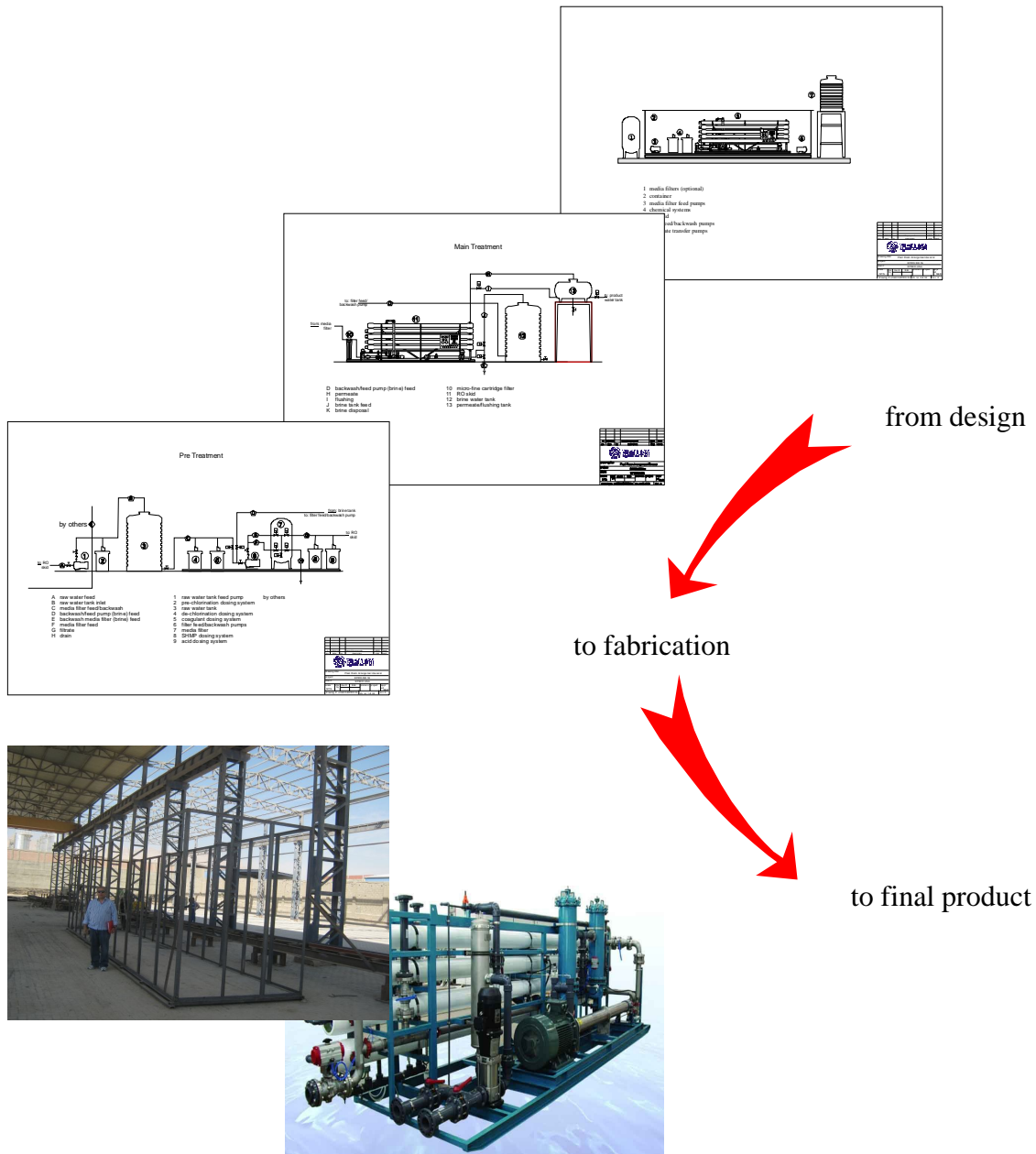
commissioning and start up. Multiple modules are available for large desalination capacity.

## RO.MARINE .....the Watermakers

**RO.MARINE** watermakers are designed for on-ship board seawater desalination. **RO.MARINE** capacity range is up to 20 cubic meters per day per unit. Special **RO.MARINE** Red Sea & Gulf packages are designed to serve 42'000 & 48'000 mg/l salinity.



# EPECO.USA ..... the Capabilities





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