

# WATEX MWTP TACTIX

## INSTALLATION AND OPERATING MANUAL

Mobile drinking-water purification system



**Read this document completely before installation and operation. Keep it with the unit.**

### Purpose and operating principle

WATEX MWTP Tactix is a portable four-stage reverse-osmosis system for treating fresh water when a fixed water connection and sewer are unavailable. The treatment stages are a mechanical screen, a 5 µm polypropylene cartridge, a coconut-shell activated-carbon cartridge and a reverse-osmosis membrane.

## Components and connections

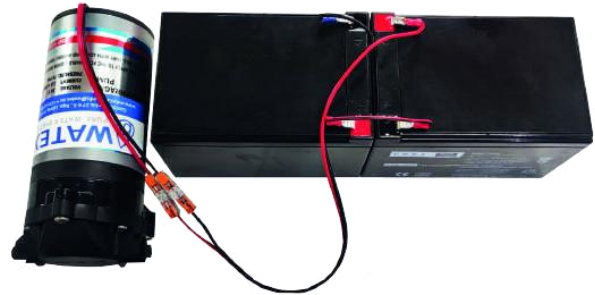


|                                    |                                                                              |
|------------------------------------|------------------------------------------------------------------------------|
| 1. Power converter (220 V → 24 V)  | 9. Raw-water hose                                                            |
| 2. Water pump                      | 10. Concentrate drain hose                                                   |
| 3. Battery (12 V)                  | 11. TDS meter (additional equipment; confirm inclusion in the delivered kit) |
| 4. Battery (12 V)                  | 12. Battery connection cables                                                |
| 5. Sediment cartridge (5 µm)       | 13. LEFT WHITE port - raw-water inlet                                        |
| 6. Activated-carbon cartridge      | 14. CENTRE WHITE port - concentrate outlet                                   |
| 7. Reverse-osmosis membrane module | 15. RIGHT BLUE port - purified-water outlet                                  |
| 8. Purified-water hose             | 16. Example: two 12 V batteries connected in series to the pump              |

## Installation and start-up

### PORT AND VESSEL ROUTING — FRONT VIEW

| 13 · LEFT WHITE<br>RAW-WATER INLET | 14 · CENTRE WHITE<br>CONCENTRATE OUTLET | 15 · RIGHT BLUE<br>PURIFIED-WATER OUTLET |
|------------------------------------|-----------------------------------------|------------------------------------------|
| RAW-WATER VESSEL → 13              | 14 → RAW-WATER VESSEL                   | 15 → SEPARATE CLEAN-WATER VESSEL         |



|   |                                                                                                                                                                                |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Open the transport case and place it on a dry, stable surface.                                                                                                                 |
| 2 | Facing the case, connect the raw-water hose to the left white port 13, the concentrate hose to the centre white port 14 and the purified-water hose to the right blue port 15. |
| 3 | Place the raw-water inlet hose and concentrate drain hose in the raw-water vessel. Keep the hose ends submerged and unobstructed.                                              |
| 4 | Route the purified-water hose to a separate clean vessel. Secure every hose so it cannot move between vessels.                                                                 |
| 5 | Use either 220 V through the 220 V → 24 V converter, or two 12 V batteries connected in series as shown.                                                                       |

#### Pre-start check

Connect power and confirm flow from both the concentrate and purified-water hoses. Stop immediately if the pump runs dry, a leak occurs or flow is blocked.

## Essential safety

|   |                                                                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Use only with fresh-water sources compatible with the delivered reverse-osmosis configuration; do not draw chemicals, fuels or seawater into the unit. |
| 2 | Keep the power converter, batteries, connectors and cables dry. Disconnect power before opening or servicing the system.                               |
| 3 | Never run the pump without water. Keep raw-water and purified-water vessels separate; never place the concentrate hose in the purified-water vessel.   |
| 4 | Treatment depends on the raw water and operating conditions. Verify the treated water by suitable analysis before using it as drinking water.          |

## Operation and shutdown

|   |                                                                                                                                                                                                                             |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | At 12 V, use 20 L/h as the nominal reference flow. With 24 V or the 220 V converter, the verified maximum is 60 L/h (1 L/min). Actual output varies with feed-water temperature, salinity, pressure and membrane condition. |
| 2 | If a TDS meter is included in the delivered configuration, use it as a process check, but do not determine potability from TDS alone.                                                                                       |
| 3 | After use, disconnect power, remove the hoses and allow them to drain. Clean external surfaces without immersing electrical parts. Store the dry unit protected from frost and damage.                                      |
| 4 | Cartridge and membrane replacement intervals depend on consumption and incoming-water quality. Use compatible elements and verify flow and treated-water quality after service.                                             |

### Performance qualification

The stated 90-95% filtration quality is a system-level reference, not a universal contaminant-removal or microbiological guarantee. Output and treated-water quality depend on raw water, temperature, pressure, power supply, element condition and correct hose routing. Confirm drinking-water suitability by appropriate analysis.

## Technical support

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