GTA 43-01-022

3K Reverse Osmosis Water Purification Units (ROWPU) HOT WEATHER/DESERT OPERATION.

This abbreviated checklist is not to be used as a replacement for the -10 series Tech Manuals or any other PMCS guide.

TM 10-4610-232-12, OPERATION UNDER UNUSUAL CONDITIONS, Dated 13 May 1991 shown below:

1. Temperature Limits. Operation of the ROWPU changes when outside temperatures or source water temperatures exceed 85°F (29°C). The capability and reliability of the ROWPU may be reduced if temperatures exceed those listed below:
- Maximum deployment temperature: 110°F (43°C).
- Maximum storage temperature: 145°F (6
- Maximum RO element storage temperature: 110°F (43°C).
- Maximum source water temperature: 110°F (43°C).

2. Motors. Motors may overheat when the ROWPU is used in hot weather in direct sunlight. Shade netting should be used to protect raw water and distribution pump motors in extreme conditions.

3. Main Control/ Pane/. If temperatures inside the ROWPU reach 120°F (49°C) motor starter thermal overloads may trip. Keep ISO container (van) doors open. Push appropriate starter resets if overload trips occur.

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Starter Resets

4. High Pressure Pump Assembly. Open both access flaps to provide ventilation and cooling.

WARNING

To avoid unsafe work conditions do not allow the temperature inside the ROWPU to rise above 120°F (49°C). Keep doors open and water flowing to help cool the ROWPU.

5. Storage.

(a) The RO elements must not be stored where temperatures may rise above 110°F (43°C). If there is a possibility of higher temperatures, move RO elements to another storage site.

(b) The ROWPU itself maybe stored at up to 145°F (63°C) inside temperature.

CAUTION

Do not store the ROWPU where direct sunlight can cause the temperature inside the ROWPU to rise above 145°F (63°C).