

CHAPTER 31

CLEANING INSTRUCTIONS – TANK MEDIUM FLEXIBLE

ASSEMBLY

- 31.1 This chapter provides basic and specific cleaning requirements for selected equipment. Where there is a specific requirement or need to highlight particular problem areas detailed cleaning guides are provided as tables and figures in this chapter.
- 31.2 Tank Medium Flexible Assemblies do appear to be quite innocuous but they are very complex pieces of equipment. While all contamination and BRM must be removed, the main areas of concern are:
- external/internal areas,
 - pump,
 - hoses, and
 - tarpaulins.
- 31.3 All points are not specific to all tank medium flexible assemblies.

External/Internal Areas

- 31.4 The cleaning instructions for the Tank Medium Flexible Assembly, as illustrated in Figure 31–1, include the point detailed in Table 31–1.



Figure 31–1: Tank Medium Flexible Assembly

Table 31–1: Cleaning Instructions for the Tank Medium Flexible Assembly

<i>Serial</i>	<i>Comments or Tasks</i>	<i>Technical Time (hours)</i>
1	The Tank assembly is to be washed with high-pressure water and then treated with chlorinated water and allowed to air dry.	
2	The bladder is to be sprayed internally with a chlorine solution (400 parts per million) and then allowed to air dry or fill the bladder to full and chlorinate the water as above and then drain and air dry.	
3	DA may require the inclusion of a super chlorinated sample to be sealed inside the tank after inspection to teat any residual water.	
4	All ground mats, assembly covers and hoses are to be treated as per the tank assembly.	
5	All packing container are to be wiped clean and are to be free of BRM.	

Pump

31.5 The cleaning instructions for the pump, as illustrated in Figure 31–2, include the points detailed in Table 31-2.

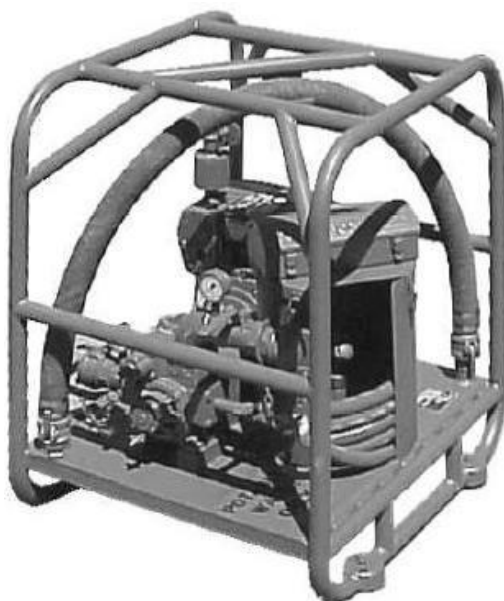


Figure 31–2: Pump

Table 311–2: Cleaning Instructions for the Pump

<i>Serial</i>	<i>Comments or Tasks</i>	<i>Technical Time (hours)</i>
1	Pump clean water through the system	
2	Ensure all internal areas are free of BRM	
3	Remove any plastic filters/seperators for cleaning	0.5
4	Open all valves for flushing action	
5	The pump is to be washed with high-pressure water and then treated with chlorinated water and allowed to air dry.	

<i>Serial</i>	<i>Comments or Tasks</i>	<i>Technical Time (hours)</i>
6	All ground mats, covers and hoses are to be washed with high-pressure water and then treated with chlorinated water and allowed to air dry.	
7	Packing containers are to be wiped clean.	1.0

Hoses

31.6 The cleaning instructions for water hoses include the points detailed in Table 31-3.

Table 31–3: Cleaning Instructions for the Water Hoses

<i>Serial</i>	<i>Comments or Tasks</i>	<i>Technical Time (hours)</i>
1	Unroll all hoses and clean all oil and grease material to ensure there is no soil, plant or insect matter. Clean hose assembly with a high-pressure water cleaner.	
2	Clean all hose couplings and hose coupling assembly with a high-pressure water cleaner.	
3	The inside of the hoses is to be flushed out and treated with chlorinated water with a chlorine solution (400 parts per million) and then allowed drain and air dry.	

Tarpaulins

31.7 The cleaning instructions for the tarpaulins include the point detailed in Table 31–4.

Table 311–4: Cleaning Instructions for tarpaulins

<i>Serial</i>	<i>Comments or Tasks</i>	<i>Technical Time (hours)</i>
1.	All tarpaulins are to be given a brush down, brush scrubbing and hose cleaning, paying particular attention to the seam areas and then hung so as not to contact the ground for drying.	
2.	All ropes and universal dispatch straps are to be extended to their full length and wiped or washed clean of all soil, plant and insect matter. Attention to attachment points and fixtures and tension devices is required. Personnel are to inspect and remove all twigs, foliage, and so on that has become embedded in the rope fibres.	
3.	Velcro panels and seams (where fitted) are to be brushed and washed to ensure all seed, plant and soil material is removed.	
4.	Canvas bags are to be turned inside out and checked for burrs, seeds and insects.	
5.	Where fitted, poles, knuckles and pegs are to be subject to a high-pressure water clean to remove all soil, plant and insect matter (ants, spiders and mud wasps are of particular concern).	
6.	If tarpaulins have not been used during the entire deployment, then the requirement is for all tarpaulins to be unrolled, brushed and swept clean to ensure no vermin or insect infestation and then subject to an inspection.	