

*HT-309 Hydrostatic Tester*Operation Manual

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> Operating Instructions

1. Firstly, make sure that the water tank is at least 75% full (otherwise unsteady water flow may occur).

Caution!!! Water pump may damage if the water level is too low.

2. With the locking ring in the upward position, place a sealed seam on the silicon pad and make sure that the sealing tape is facing upward. You can place a transparent PVC sheet over the targeted sealed seam for safety pre-examine or for rough general check beforehand. In general, it is a normal practice in the waterproof industrial field to place the transparent PVC sheet or something similar when testing for elastic cloth or the water test requirement for the cloth is over 5 psi. A transparent PVC sheet will peg and delivery with the hydrostatic tester as accessory.
3. Lower the locking ring into position so that the fabric being tested is clamped tightly.
4. Start the water pump by switch on the main power switch on the control panel and activate it by the knee pedal (right under the work table) with a nudge once.
5. A timer is installed at the panel and you can preset the running time of the water pump between 0-999 (sec/min/hour).
6. Stop / cancel button (at the middle of the panel) is also available when you want to stop the pump at any time.
7. Adjusting both the inlet and outlet water valves in the fully open position (vertical); gradually decrease the water flow from the water pump by turning the water inlet valve so that the water pressure is at about 1.5 psi.
8. Gradually decrease the water flow by closing the water outlet valve. The water pressure will build up under the fabric accordingly. Closing the water outlet valve further, in order to increase the water pressure until the desired pressure is reached.
9. Observe the coating side of the fabric sample for any sign of leakage, use a piece of tissue for examination if desired.
10. When testing is done, open the water outlet valve fully to release water back to the water tank.
11. Stop the water pump or wait until the auto-run cycle to complete.
12. Allow enough time for the water underneath the fabric to escape before opening the clamp.
13. Switch off the main power of the water pump or continue with another hydrostatic test.

> Specifications

Model	:	HT-309
Voltage	:	220 V, single phase
Frequency	:	50/60 Hz
Water Pressure Range	:	0~6 psi
Timer range	:	1~999 (Sec/Min/Hour)
Overall Dimensions	:	1000mm(L) x 500mm(W) x 1350mm(H)
Overall Weight	:	40 kg

Note : due to continuous improvement, specifications are subjected to change without prior notification

> Appendix A : Pressure conversion table

	Mpa	psi	kg/cm ²	bar	atm
1 Mpa	1	145	10.2	10	9.869
1 psi	0.006895	1	0.0703	0.0689	0.068
1 kg/cm ²	0.09804	14.223	1	0.9804	0.9678
1 bar	0.1	14.5	1.0197	1	0.9872
1 atm	0.101325	14.696	1.02	1.0133	1