

NZAC Ruapehu Hut Water Pump Instructions

Start Up

1. Turn the power on at the switchboard

Trapdoor in Toilet 1

2. Open the trapdoor and close the valve (has a red handle, perpendicular to pipe)



Pump Cupboard

3. Close valve B (has blue handle, perpendicular to pipe)
4. Open valve A (has blue handle, parallel to pipe)
5. Open the taps in the kitchen and bathroom
6. Fill the pump via funnel next to sink until its full
7. Close valve A (has blue handle, perpendicular to pipe)
8. Turn the pump on at the wall (D)
9. Prime the pump by gently pushing on the wooden lever for a couple of seconds (C)
10. The pump should make a whirring noise, water will come out of the taps and the pressure will rise to 700kPa
11. If the pump hums, it's frozen solid, switch the pump off and see troubleshooting below
12. Turn off the sink and bathroom taps
13. Flush both the toilets to get water into pipes
14. The pump should cut out & stay pressurised - **you're done!**



Troubleshooting

1. If the pump hums, it's frozen, open the trapdoor closest to you under the dining table, use an axe to break the ice, and a pot to get water, boil water to melt the ice inside the pump, pour it down the funnel, leave for 15 mins and try again.
2. If it fails again, or you can't turn a valve you need to warm the pump up: Leave a container of boiling water in the cupboard overnight and try again in the morning when the pump and hut is warm
3. Still not working? Make sure the pump is shut down and use the water from the tank under the floor, use a saucepan to collect water to avoid contamination.

Shutdown

If you don't shut the pump down and water freezes in the pipes, the pipes could burst

Pump Cupboard

1. Turn the pump off at the wall
2. Open the taps in the kitchen and the bathroom
3. Open valve B slowly to release pressure (has blue handle, parallel to pipe)
4. Open valve A only after valve B has been opened (has blue handle, parallel to pipe)

Trapdoor in Toilet 1

5. Open the trapdoor, and open the valve with a red handle (parallel to pipe)
6. Flush both the toilets to clear the lines