

# The Rower pump - seated and standing designs

The rower pump is a very simple type of suction pump. A piston has a valve on the end of a rod. The user pulls on the rod to suck water up the pipe. This can be hard work as there is no lever to assist with the motion, but even short strokes can lift some water, so it is suitable for people of differing strength and height.

A narrow piston reduces the force needed for drawing the water. A longer length of the piston will draw more water with each stroke. The distance pulled will depend how long the user's arms are – but each pull on the handle will deliver water. See Poster 44 for technical details.

