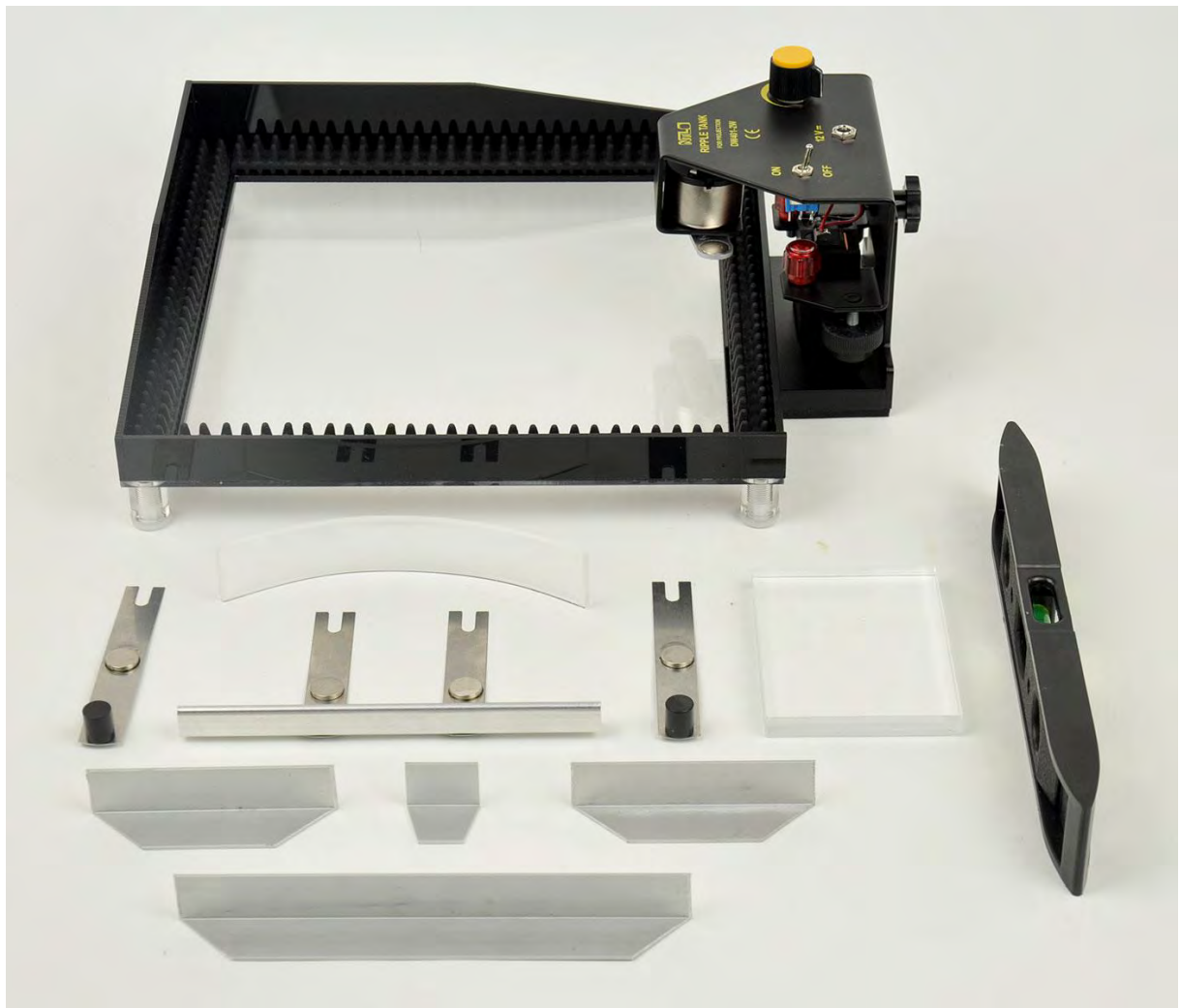


Ripple tank for projection

DW401-2W

Assembly Instructions

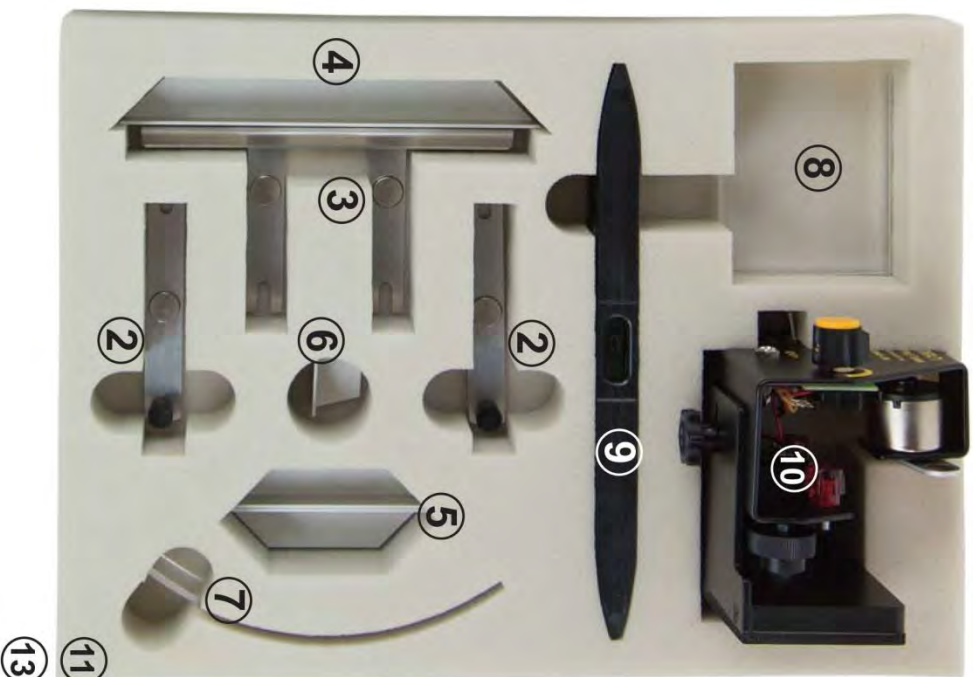




RIPPLE TANK FOR OVERHEAD PROJECTOR

DW401-2W

Included in delivery:



Pos. Item-no.	Qty.	Description
1 DW401-01	1	Water tank
2 DW401-11	2	Rippler generator for concentric waves
3 DW401-12	1	Ripple generator for plane waves
4 DW401-13	1	Reflection plate, 170 mm
5 DW401-14	2	Diffraction plate, 85 mm
6 DW401-15	1	Diffraction plate, 25 mm
7 DW401-16	1	Semi-circular reflection plate, 150 mm
8 DW401-17	1	Object for refraction, 90 x 70 mm
9 DM600-3W	1	Spirit level
10 DW401-20	1	Wave generator
Storage:		
DW401-26	1	Insert for ripple tank, 5 mm floor (not shown)
11 DW401-27	1	Insert for ripple tank, lower position
12 DW401-28	1	Insert for ripple tank, upper position
13 P7806-1K	1	Plastic box small, with cover

Box insert plan, 2 labels and instructions

**Please proceed point by point
to ensure that the ripple tank is assembled correctly!**

1. Place the tank centrally on the projection surface of the overhead projector.



2. Place the spirit level on top of the two low walls and check that the tank is completely horizontal.



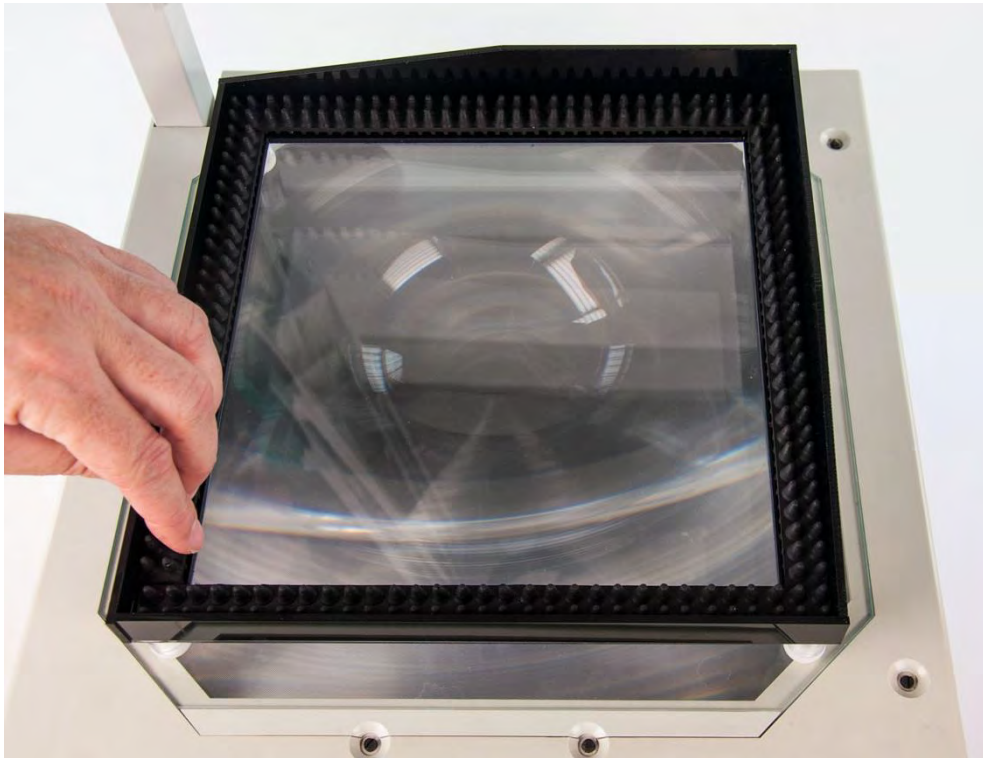
3. If the tank is not horizontal, turn the plastic screws on the feet to quickly move it into the correct position.



4. Lay the four studded strips on the inner edge of the tank.



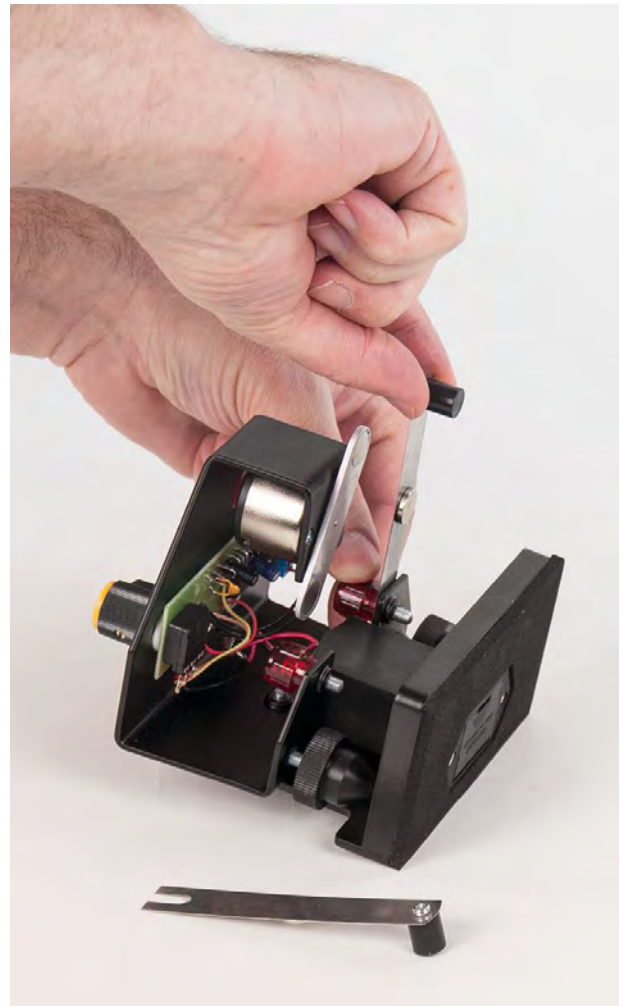
5. If the studded strips are already in the tank, press them lightly against the edge.



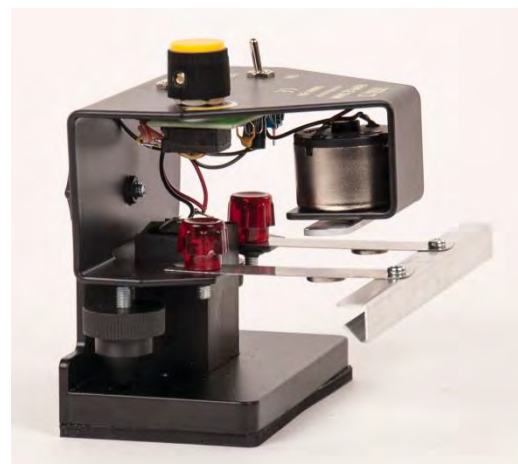
6. Carefully pour in about 600 ml of water.



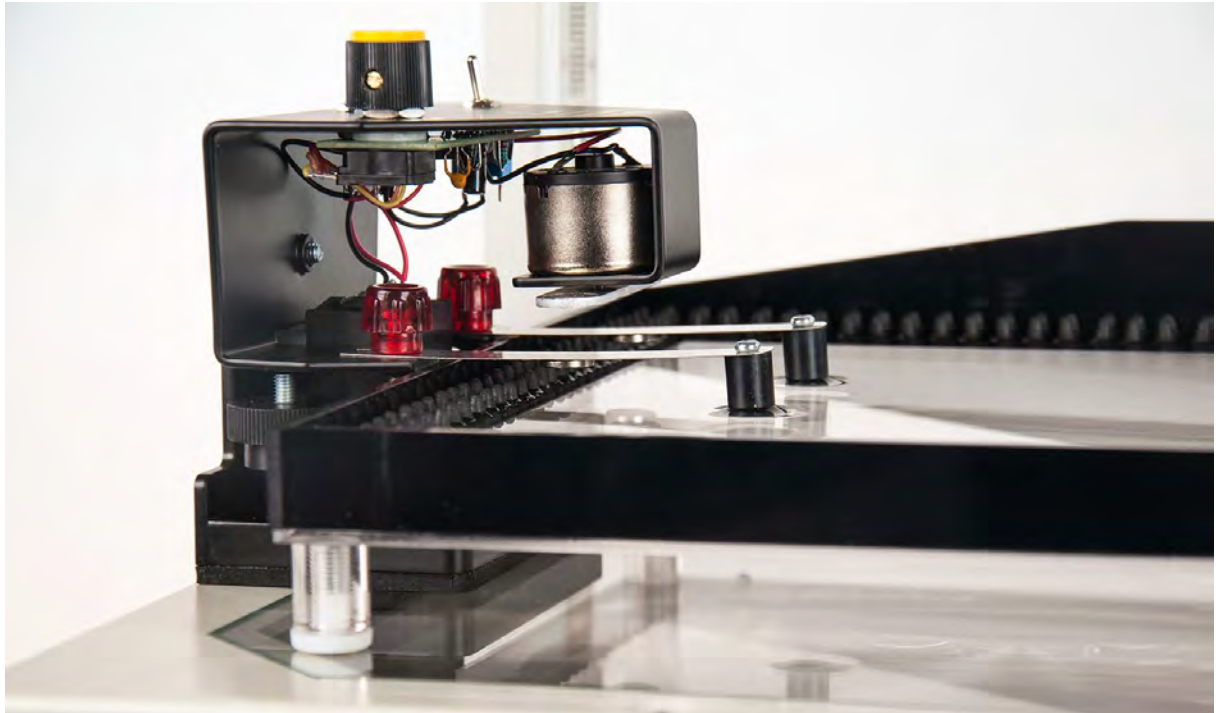
7. Insert the desired ripple generator into the rippler unit and fix it with the screw.



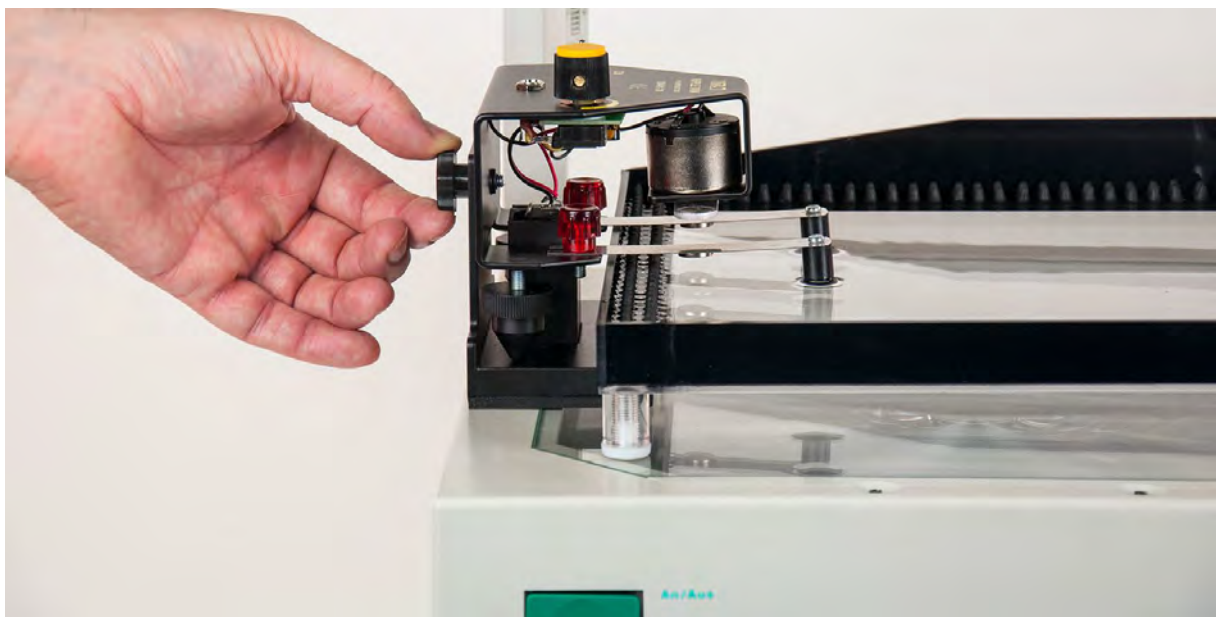
8. Completed assembly of the various ripple generators



9. Push the rippler unit against one of the two low walls.
The point dippers should be about one millimetre above the surface of the water.
The water is “sucked in” by gently pressing down on the rippers.



10. If the rippler is not at the correct height, loosen the screw on the back.



11. The height of the ripple generators can be precisely adjusted using the two large adjusting screws on the side. Once the height has been adjusted, tighten the screw on the back again.



12. Set the oscillation controller to a low oscillation rate. (Turn it about 20° to the right from the left stop).



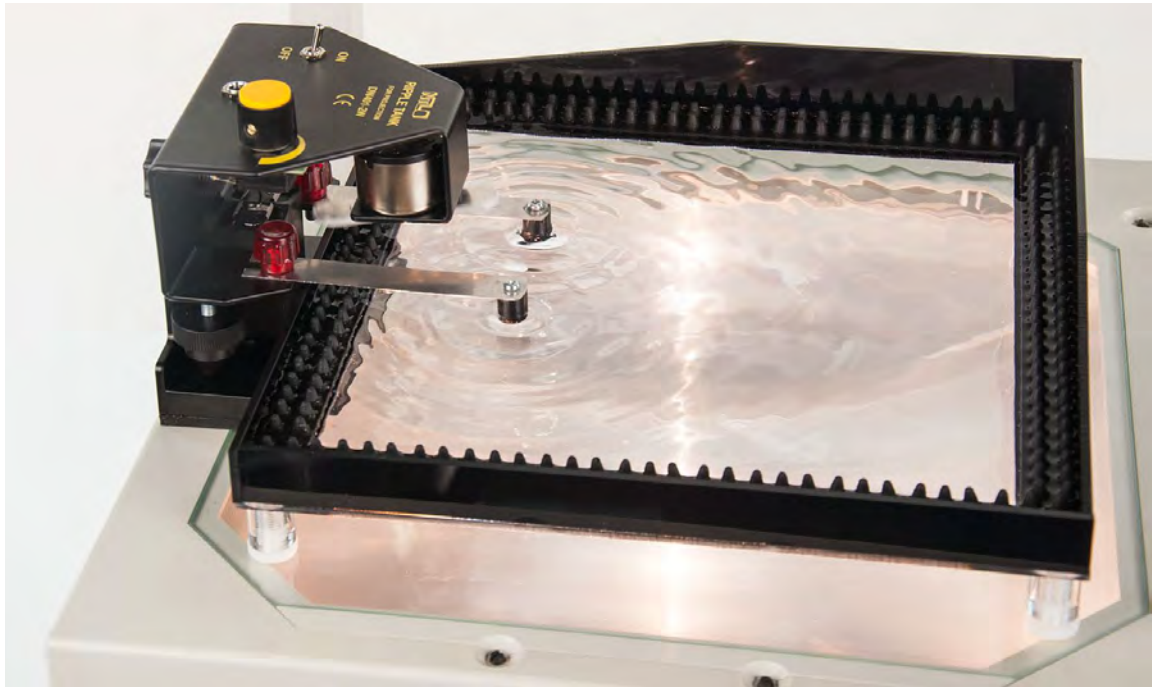
13. Switch on the rippler unit



14. If the motor does not start on its own, nudge the oscillating bar with your finger in the direction of oscillation.



15. Turn on the projector and start the experiments



16. The tank should be emptied via the raised corner of the tank. In this way you can use greater control when pouring out the water, thus facilitating the process.



17. If the rippler unit battery is empty, tip the rippler onto its back. The battery compartment can easily be opened with a screwdriver. Once the battery has been changed, push the compartment back in until it clicks into place.



Motor:

- 1) ON/OFF switch
- 2) Oscillation controller
- 3) Hollow jack, 5.5/2.5 mm for external power supply
- 4) Setting screw for rough height setting
- 5) Adjustment screw for fine height setting

