

# FLO

## Visualization Tunnel

*User Guide*



**PITSCO**  
EDUCATION

### Cautionary and Warning Statements

- This unit is designed and intended for educational purposes only.
- Use only under the direct supervision of an adult who has read and understood the instructions provided in this user guide.
- Read warnings on packaging and in manual carefully.
- Safety glasses are required.
- Always exercise caution when using sharp tools.

## Hazardous Chemical Warning

The included 50 ml bottle of fog fluid contains hazardous chemicals.

- **DO NOT SWALLOW** – This may cause lung damage if swallowed.
- **Eye contact** – Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.
- **Skin contact** – Flush with large amounts of water; use soap if available. Repeated exposure may cause skin dryness or cracking.
- **Inhalation** – Use in a well-ventilated area when generating smoke from fluid. If smoke causes irritation, remove individual from area.
- **Ingestion** – If swallowed, do not induce vomiting. Keep at rest. Get prompt medical attention.

## Materials Included

- 1 control box
- 1 fog generator
- 6 magnetic base mounts
- 3 dowel rods (1/8" x 18")
- 1 bottle of fog fluid (50 ml)
- 2 syringes
- 1 foam airfoil
- 1 power supply (12 V)
- 2 adapter cords
- 1 FLO Visualization Tunnel

## Items Required (not included)

- Scissors
- Glue

## Filling the Fog Generator

1. Fill a syringe with 0.5 ml of the fog fluid (Figure 1).
2. Empty the fluid into the black-and-gold hole at the top of the fog generator (Figure 2). **Note:** Do not press on the heating element in the middle of the hole. You could damage the heating element.
3. Place the nozzle on the fog generator (Figure 3).



Figure 1

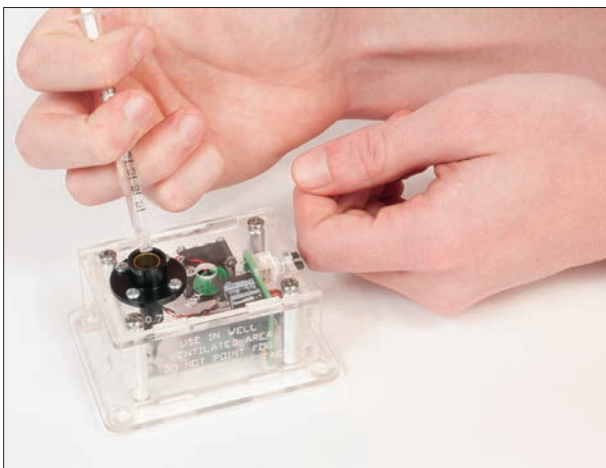


Figure 2

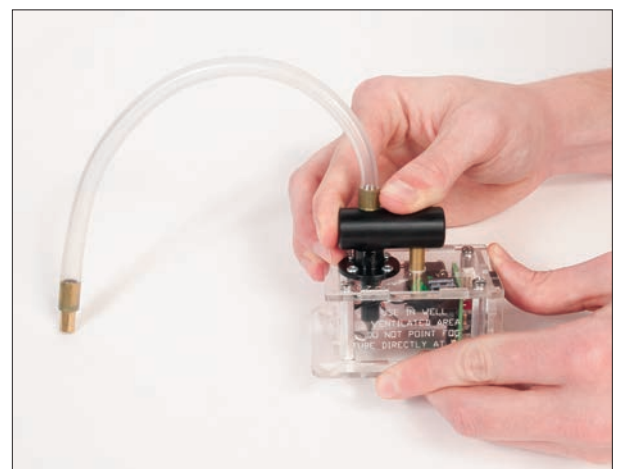


Figure 3

## Setting up the FLO Tunnel

1. Plug the 12 V power supply into the control box (Figure 4).
2. Plug both adapter cords into the control box in the corresponding color slots and run the wires to the FLO Tunnel and fog generator (Figure 5).

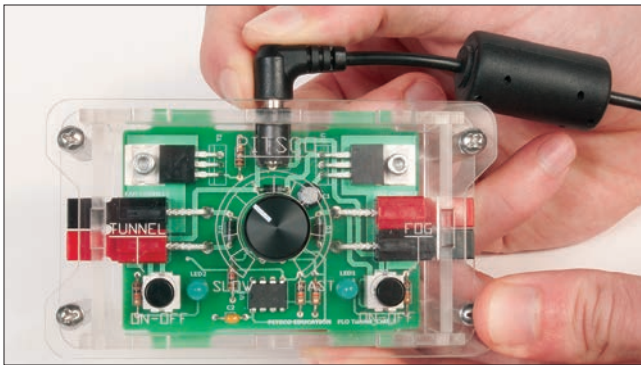


Figure 4

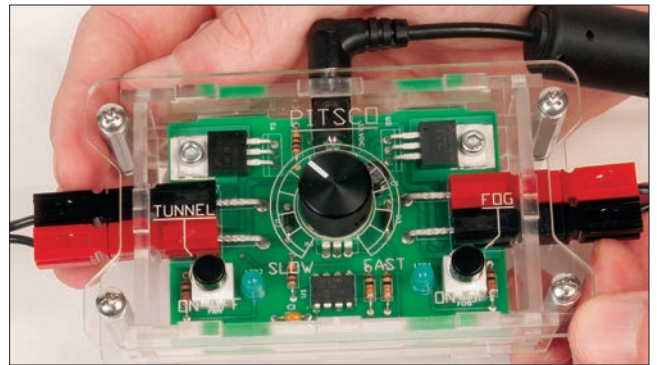


Figure 5

## Using the FLO Tunnel

**Note:** The FLO Tunnel comes with three 18" dowel rods that can be cut to your desired length for testing. Find an object you want to test, insert a dowel rod into it, cut the dowel rod to an appropriate length to fit in the FLO Tunnel, and insert the dowel rod into a magnetic base mount.

1. Pull the right side of the FLO Tunnel out (Figure 6). Take out the circle platform in the bottom of the FLO Tunnel (Figure 7).
2. Place the object you want to test on a dowel rod and insert the dowel rod into a magnetic base mount (Figure 8).
3. Attach the magnetic base mount onto the circle platform and place the platform back into the FLO Tunnel (Figure 9).

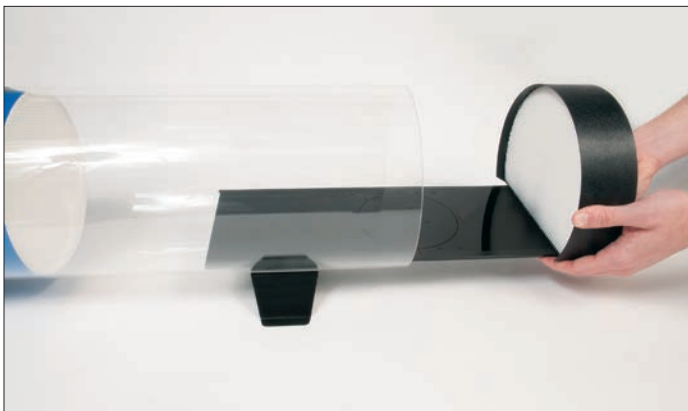


Figure 6

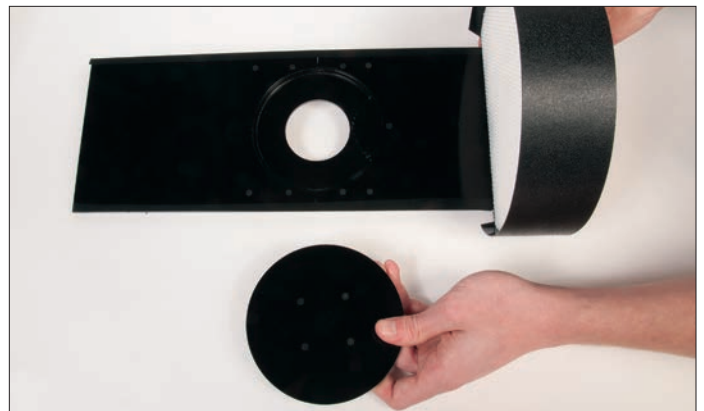


Figure 7



Figure 8

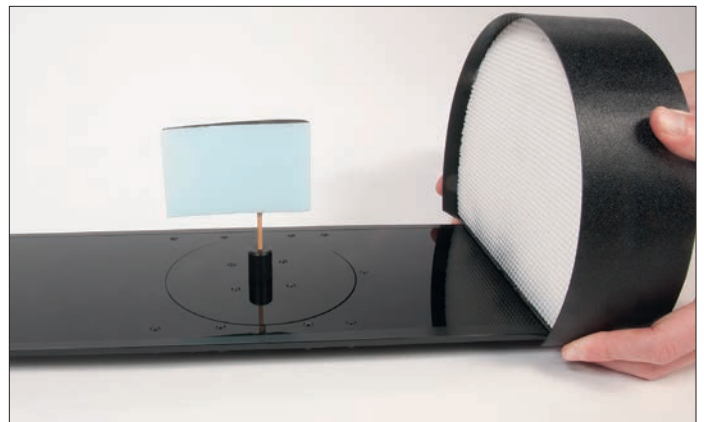


Figure 9

4. Push the On button for the FLO Tunnel and fog generator on the control box. Place the nozzle of the fog generator on the right side of the FLO Tunnel and press the On button on the fog generator. Test the flow of the air around the object by rotating the gear on the right side of the FLO Tunnel (Figures 10 and 11). Change the wind speed of the FLO Tunnel by twisting the knob in the middle of the control box (Figure 12).

**Note:** Other items such as model cars, model airplanes, and geometric shapes can be tested in the FLO Tunnel. The geometric shapes can be placed on the rotating platform to simulate a building layout and rotated to show the flow of air around structures.

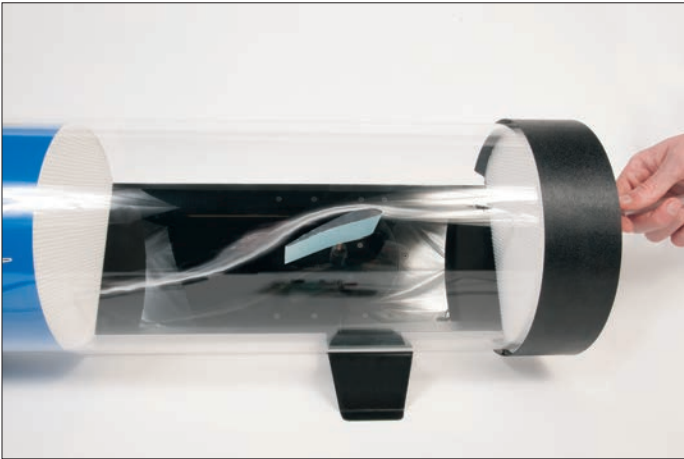


Figure 10

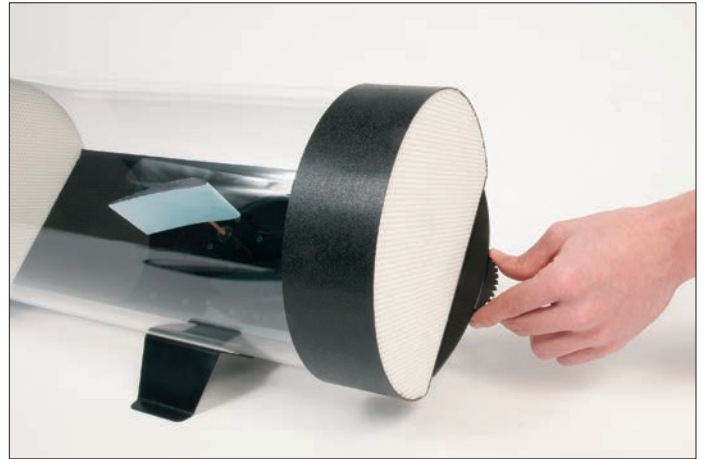


Figure 11

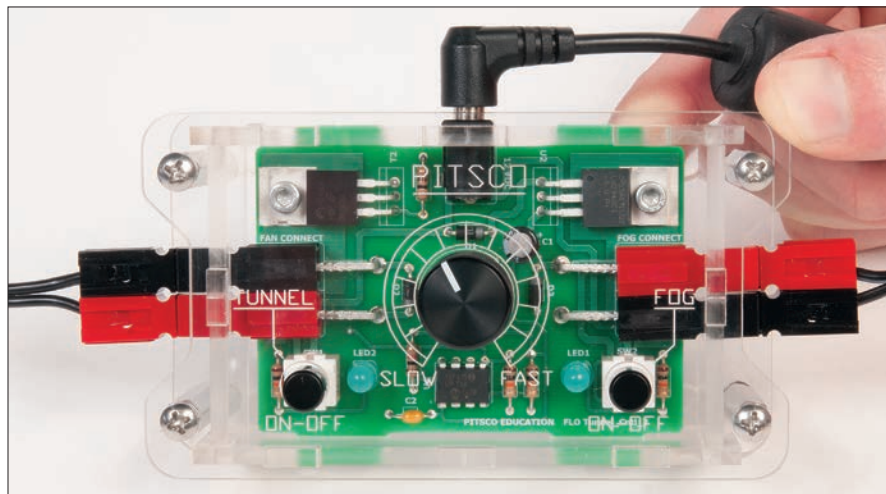


Figure 12

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