

G04-331A-Y01

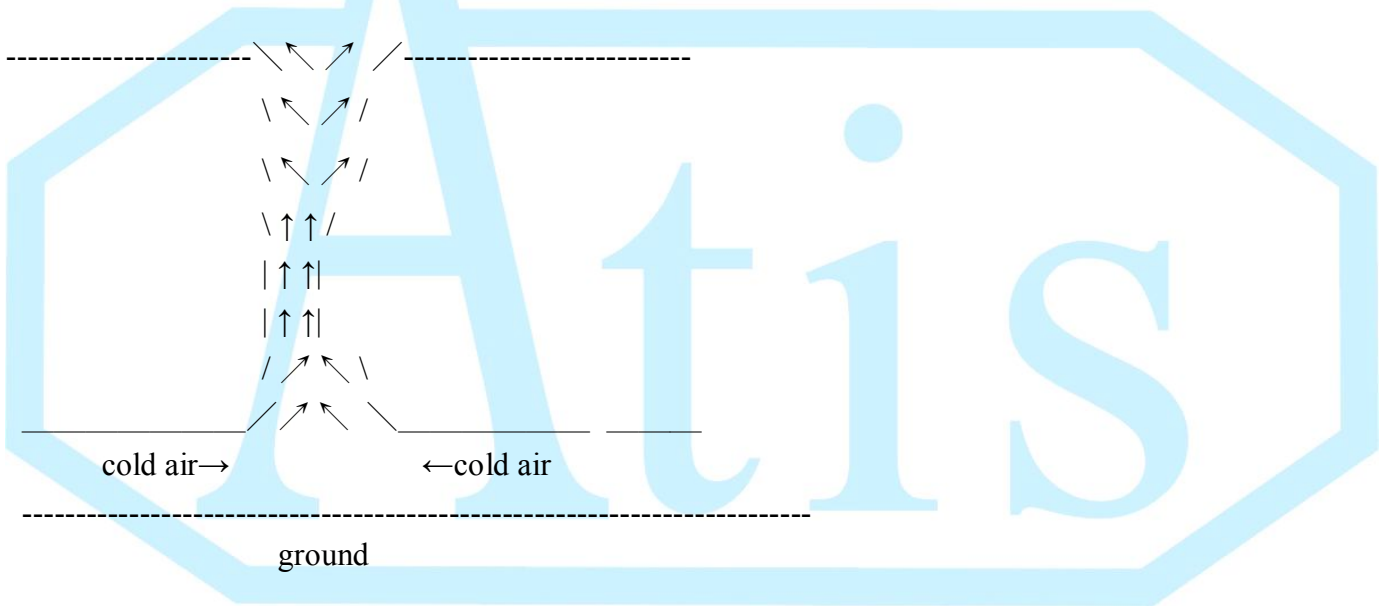
Tornado Demonstration Kit

Purpose

This device can be used to display the formation of tornado and the differences between northern and southern tornadoes.

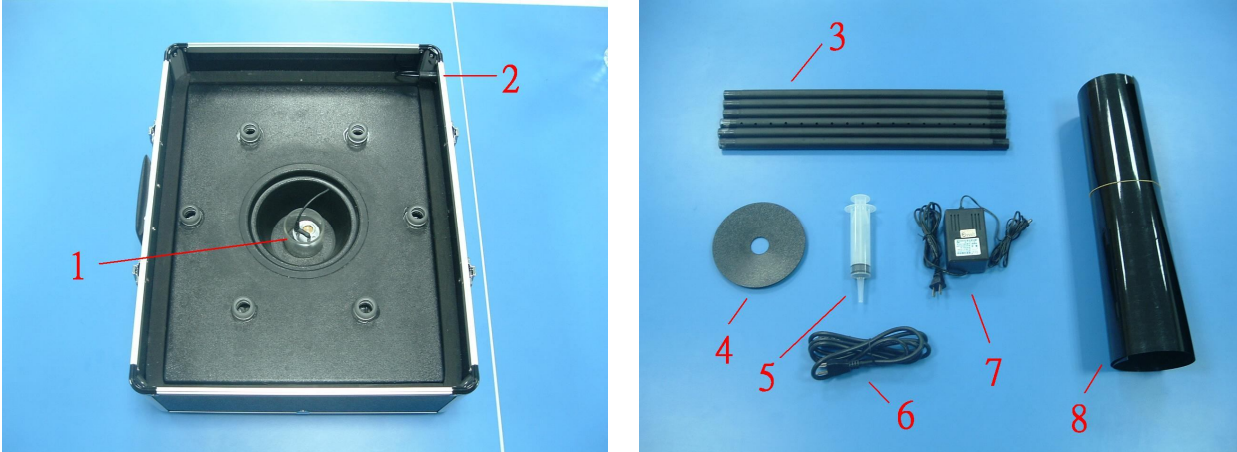
Theory

Tornadoes occur inside giant thunderstorms. These powerful storms form when warm, moist air along the ground rushes upward, meeting cooler, drier air. As the rising warm air cools, the moisture it carries condenses and forms a massive cumulonimbus cloud. These clouds grow to be 50,000 feet high forming into a thunderstorm, continued uplift must occur in an unstable atmosphere.

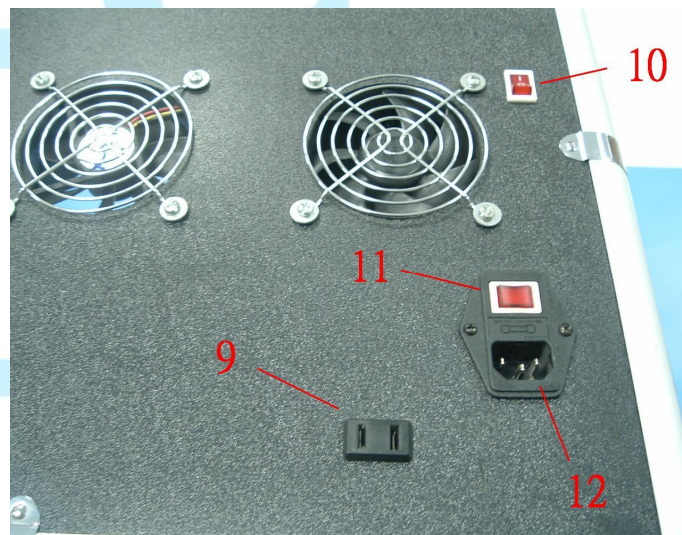


Variable winds of the atmosphere feed the updraft and cause the formation of the tornado's funnel shape.

Instrument



1	Fog Device	1	2	Fog Device Power Socket	1
3	Support Rod	6	4	Fog Device Lid	1
5	Syringe	1	6	Fog Device Power Cord	1
7	DC Power Supply Cord	1	8	Wind Deflector	1



9	Fog Power Socket	1	10	Fan Switch	1
11	Fog Device Switch	1	12	Power Socket	1

Instrument

1. Place the support rods and adjust the direction (counter clockwise rotation or clockwise rotation.) of the

wind outlet on the rod as shown in Figure 1.

2. Cover the lid as shown in Figure 2.

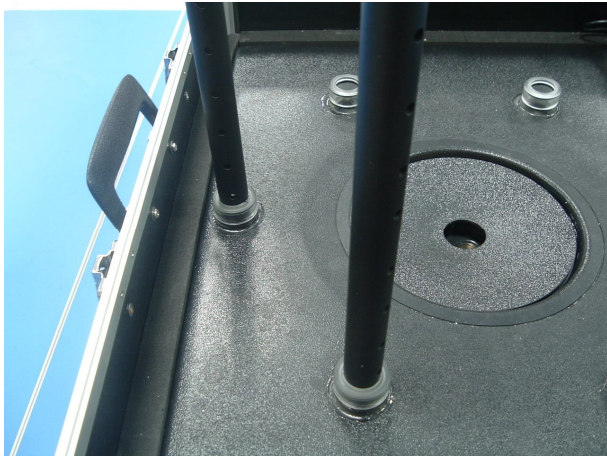


Figure 1



Figure 2

3. Pour water into the fog device sink, the fog device must be covered with water, then cover the sink lid.

4. Connect the power cords to the sockets as shown in Figure 3 and Figure 4.



Figure 3



Figure 4

5. Place the wind deflector in the back.

6. Turn on the fog device switch, the air will flow out from the sink, and then turn on the fan switch, the fog will become swirling mist.



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