Narika product name:

Cloud Chamber (Cold Plate Type) KK-01

# Product Description:

# Easy-setup & Cold-plate type Cloud Chamber

Catalog Number: B10-7764-W1



### Overall advantages to users:

- Safe and affordable Cloud Chamber requires no dry ice, no liquid nitrogen or no power source.
- Comes with specially designed "Cold Plate" capable of retaining a low temperature for about 1 hour by freezing in a standard freezer for at least 24 hours whose temparature can be set to -20°C (-68° F), as well as, of being used repeatedly by freezing it again.
- Radiation tracks can be observed for about 20 minutes (until ethanol is vaporized) in a room at 25°C (77° F).
- The only consumables required to observe radiation tracks are ethanol (99.5%) and hot water (50~80° C).



### Benefits to users:

- To all users:
  - > Students' observation by group is possible because the effective observation areas are 95 x 95mm times 4 sides.
  - Radiation tracks from a natural radioactive rock can be observed if putting such rock inside the chamber.

#### • To teachers:

- ➤ Affordable and portable enough to observe radiation tracks within a class time.
- ➤ Shorter time and lower cost required for preparation because no dry ice and liquid N2 are needed.

### • To students:

Easy set up by just putting observation chamber and hot water bath on the cold plate.

# Keywords:

• (Natural) radiation

### **Specifications**

• Cold plate: 1 unit (Size: 150 mm x 150 mm x 35 mm) • Chamber (Observation Dome): 1 unit (Material: Transparent PVC, Size: 100 m x 100mm x 110 mm), • Tank of hot water: 1 unit: - Material: PVC; - Felt fabric on the bottom back surface; - Charging metal of intermediate layer: Aluminum; - Size: 130 mm x 130 mm x 70 mm, • High power LED Light: 1 pc; Substituted radioactive source: 1 pc; PVC rod: 1pc (Size: 24mm)