Beta and Gamma Radiation Shielding

- Choice of construction/shielding types
  - — clear optical acrylic, minimum 10mm thick, for shielding against beta particles
  - — clear lead acrylic*, minimum 12mm thick, for shielding against gamma particles

*Note: Lead acrylic has a slight yellowish tint.

Safety shields

Fixed angle pattern with stable, curved base and single face angled at 15°. Dimensions stated are H x W x D.

For beta radiation

RA600-20 450 x 300 x 150mm
RA600-30 530 x 350 x 150mm

For gamma radiation

RA604-20 450 x 300 x 150mm
RA604-30 530 x 350 x 150mm

Hourglass and dual angled patterns are also available on request.

Storage boxes

A range of benchtop storage boxes with hinged lids to accept accessory inserts as indicated. Dimensions stated are H x W x D.

For beta radiation

RA612-15 Mini-box, 75 x 105 x 105mm
RA612-25 Midi-box, 80 x 185 x 105mm
RA612-35 Maxi-box, 160 x 300 x 185mm

For gamma radiation

RA615-25 Midi-box, 84 x 189 x 109mm
RA615-35 Maxi-box, 164 x 304 x 189mm

Accessory racks

To fit storage boxes and hold tubes as indicated.

For Mini-boxes

RA623-15 16 x 1.5ml Eppendorf tubes
RA624-15 20 x 0.5ml Eppendorf tubes

For Midi-boxes

RA626-25 32 x 1.5ml Eppendorf tubes
RA627-25 40 x 0.5ml Eppendorf tubes
RA628-25 16 x 0.5ml and 1.5ml Eppendorf tubes
RA629-25 32 x 2ml cryotubes

For Maxi-boxes

RA632-35 15 x 15ml centrifuge tubes
RA633-35 8 x 50ml centrifuge tubes
RA634-35 3 x Falcon tubes, 8 x 1.5ml tubes
RA635-35 8 x 20ml scintillation vials
RA636-35 15 x 5ml scintillation vials
RA637-35 8 x 30ml universals

Tip boxes

With hinged lid and pipette tip port which is itself covered by a small hinged lid. For single channel pipettors. Overall 150 x 150 x 150mm H x W x D, capacity 2 litres. Accessory heavy duty plastic liner bags are also available.

RA640-10 For beta radiation shielding
RA645-20 For gamma radiation shielding
RA662-05 Accessory liner bags for RA640-10 and RA645-20, pack of 25

Disposal bins

With hinged lid and anti-slip feet. Capacities and dimensions (H x W x D) in mm as indicated.

For beta radiation

RA650-20 3.3L, 170 x 180 x 170
RA650-40 10L, 270 x 220 x 220
RA650-60 47L*, 600 x 305 x 290
RA650-80 50L, 420 x 510 x 290

*Mounted on castors for easy manoeuvrability.

For gamma radiation

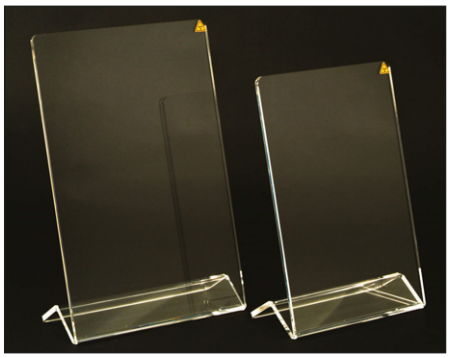
RA657-20 3.3L, 174 x 174 x 174
RA657-40 10L, 274 x 224 x 224
RA657-60 50L, 424 x 514 x 294

SAFETY NOTES

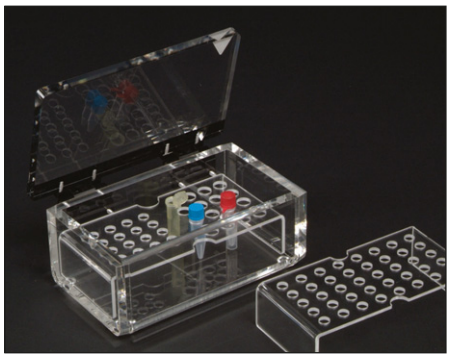
1) Beta radiation shields are unsuitable for use against secondary x-rays (Bremsstrahlung) or gamma radiation.

2) Gamma radiation shields will block emissions effectively from ^{125}I and any low energy gamma emitters. They are not suitable for more energetic isotopes of iodine. Heavier-walled shields are available for use with these isotopes - details on request. Gamma shields must not be used with beta isotopes since Bremsstrahlung will be produced.

3) Radioactive waste must never be stored on the benchtop for long periods and must be disposed of properly. Proper handling and storage of isotopes minimises unnecessary exposure to radiation.

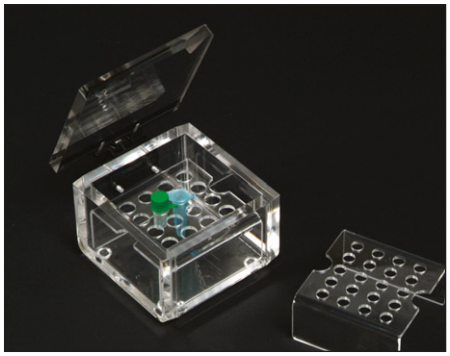


RA600, RA604 are similar

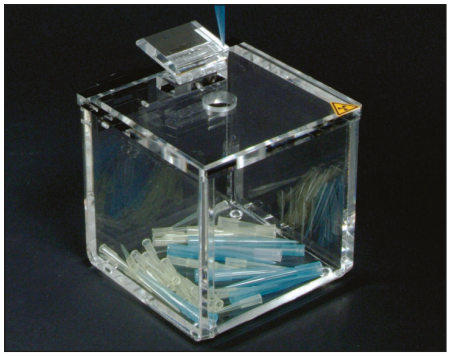


RA612-25 with accessories, RA615-25 is similar

RA650-60



RA612-15 in use with accessories



RA640 in use, RA645 is similar