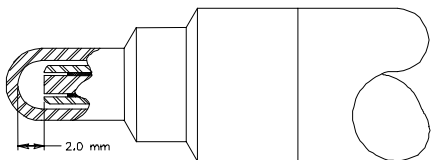


# EXRADIN MICROCHAMBER IONIZATION CHAMBERS

## Microchamber Model A14 or T14

Collecting Volume:  $0.009 \text{ cm}^3$   
Nominal Calibration Factor: 365 R/nC (TG-21)



**Centroid of Collecting Volume:** approx. 2.0 mm from tip of shell

**Outside Diameter of Shell Collecting Volume:** 6.0 mm

**Collector Diameter:** 1.5 mm x zero length

**Shell Wall Thickness:** 1.0 mm

**Shell, Collector and Guard Material:**

A14 – Shonka Air-Equivalent Plastic C552

T14 – Shonka Tissue-Equivalent Plastic A150

**Stem:** 12.7 mm OD black phenolic two-piece 10.0 cm + 12.7 cm long; removable; others available upon request

**Waterproof:** Yes, as furnished; no sheath required

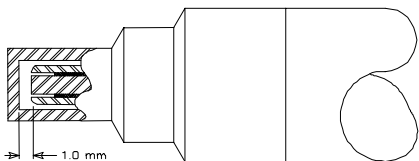
**Venting:** Through Tygon® PVC tubing secured to chamber body and running the full length of the triaxial cable; cable is inside tubing. (Gas-Flow provision is only available as an additional accessory.)

**Buildup Caps Available:** Co-60 thickness; same material as chamber shell; others available upon request

**Options:** CRS stem; RSVP Phantom adaptation; Gas-Flow ability

## Planar Microchamber Model A14P or T14P

Collecting Volume:  $0.002 \text{ cm}^3$   
Nominal Calibration Factor: 1430 R/nC (TG-21)



**Centroid of Collecting Volume:** 1.5 mm from tip of shell

**Outside Diameter of Shell Collecting Volume:** 6.0 mm

**Collector Diameter:** 1.5 mm x zero length

**Window Thickness:** 1.0 mm

**Window-Collector Gap:** 1.0 mm

**Shell, Collector and Guard Material:**

A14P – Shonka Air-Equivalent Plastic C552

T14P – Shonka Tissue-Equivalent Plastic A150

**Stem:** 12.7 mm OD black phenolic two-piece 10.0 cm + 12.7 cm long; removable; others available upon request

**Waterproof:** Yes, as furnished; no sheath required

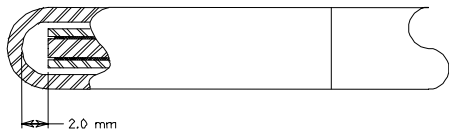
**Venting:** Through Tygon® PVC tubing secured to chamber body and running the full length of the triaxial cable; cable is inside tubing. (Gas-Flow provision is only available as an additional accessory.)

**Buildup Caps Available:** Co-60 thickness; same material as chamber shell; others available upon request

**Options:** CRS stem; RSVP Phantom adaptation; Gas-Flow ability

## Slimline Microchamber Model A14SL

Collecting Volume:  $0.009 \text{ cm}^3$   
Nominal Calibration Factor: 365 R/nC (TG-21)



**Centroid of Collecting Volume:** approx 2.1 mm from tip of shell

**Outside Diameter of Shell Collecting Volume:** 6.25 mm

**Collector Diameter:** 1.5 mm x zero length

**Shell Wall Thickness:** 1.1 mm

**Shell, Collector and Guard Material:**

A14SL – Shonka Air-Equivalent Plastic C552

**Stem:** 6.4 mm OD aluminum one-piece 10.1 cm long; not removable

**Waterproof:** Yes, as furnished; no sheath required

**Venting:** Through triaxial cable; no gas flow provision

**Buildup Caps Available:** Co-60 thickness of C552; others available upon request

**Options:** None available

## OPERATIONAL SPECIFICATIONS

**Connector:** Triaxial BNC Male and protective cap connected by chain (standard); others available upon request

**Triaxial Cable:** 1.5 m long; 50 ohms; 29 pF/ft

**Nominal Collection Efficiency:** 100%

**Nominal Inherent Leakage Currents:**  $10^{-15} \text{ A}$

**Maximum Polarizing Potential:** 1000 V

**Temperature Range:** -15 – 50 °C

**Humidity Range:** 10-80%, non-condensing

**Pressure:** 600 to 800 mm Hg