



RC6 GENERAL PURPOSE X-RAY MEASUREMENTS

The RC6 is an unsealed cylindrical 6 cm³, general-purpose ion chamber, designed for general purpose x-ray measurements. It has excellent energy response throughout the diagnostic energy range and with an appropriate build-up cap (optional), the energy range can be extended to 60 Co.

EXPOSURE RATE DEPENDENCE: <5% to 150 mGy/s, up to 4 Gy/s for 10 ms pulses

ENERGY DEPENDENCE: ±5%, 30 keV to 1.33 MeV (with build-up material)

BIAS: Nominal +300 VDC (max +600 VDC)

ELECTRICAL LEAKAGE:* <5e-15 A with +300 VDC bias, using 2m triax cable extension

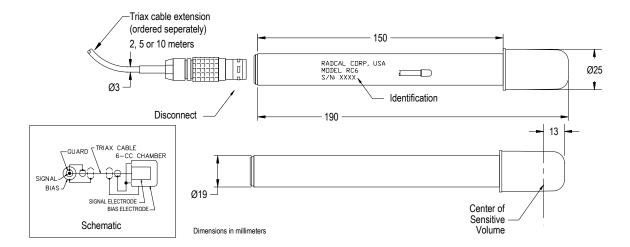
CONSTRUCTION: Guarded (3-terminal) concentric cylinder with polycarbonate walls

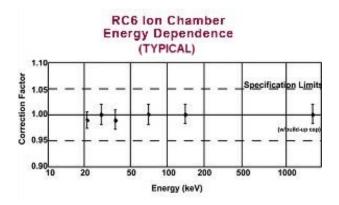
and conducting graphite interior coating. Nominal 6 cm³ active

volume; 0.05 kg

Nominal Chamber Volume and Sensitivity (±10%)

	Chamber	Volume	C/mGy	C/mGy	C/R	C/R
	Model	cm³	20 °C	22 °C	20 °C	22 °C
_	RC6	6	2 1F-10	2 1F-10	1 9F-09	1 9F-09





^{*} cable length dependent