



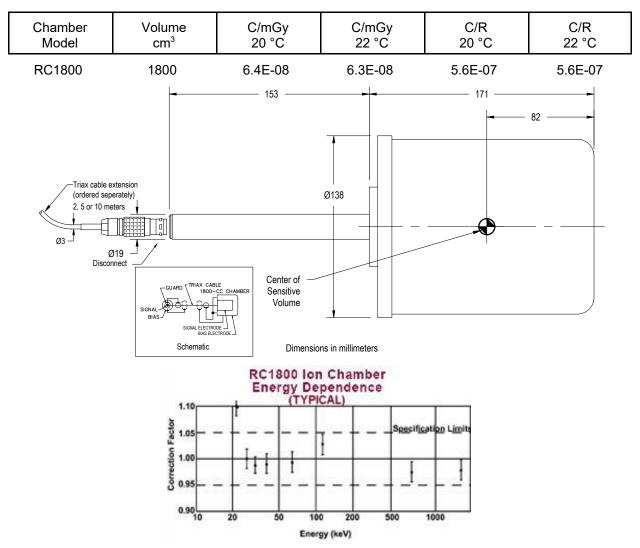
## RC1800

## Low Dose Rate Radiation Applications

The RC1800 is an unsealed cylindrical 1800 cm<sup>3</sup> ionization chamber intended for low dose rate radiation applications such as shielding leakage, low-level irradiator output or environmental measurements.

EXPOSURE RATE DEPENDENCE:	<5% to 50 uGy/s, <10% to 160 uGy/s (bias +300 VDC)
ENERGY DEPENDENCE:	±5%, 33 keV to 1.33 MeV
BIAS:	Nominal +300 VDC (max +600 VDC)
ELECTRICAL LEAKAGE:*	<1e-14 A with +300 VDC bias, using 2m triax cable extension
CONSTRUCTION:	Guarded (3-terminal) parallel plate, polycarbonate walls and electrode; conducting graphite interior and exterior coating; nominal 1800 cm <sup>3</sup> active volume; 0.54 kg

\*cable length dependent



## Nominal Chamber Volume and Sensitivity (±10%)