If charge has V=const (V-speed) and V is perpendicular to B (B magnetic field) then charge will move by circle trajectory

$r = \frac{V \cdot m}{q \cdot B}$ where V – speed

m – mass of charge

q – charge

B – magnetic field

If $r < a \cdot \sqrt{2}$, (where a – side of cubical region) than charge won't come out from the cubical region.

But if charge has V (V isn't perpendicular to B), then charge will move by spiral trajectory. Charge will come out from the cubical region.