

# LOW DOSE IRRADIATOR

A REMOTELY OPERATED MULTI-SOURCE EXPOSURE SYSTEM, SUITABLE FOR LONG OR SHORT TERM EXPOSURE TO A WIDE RANGE OF SAMPLES. FULLY CONFIGURABLE TO SUIT A WIDE RANGE OF SOURCE ISOTOPES AND STRENGTHS.  
- THIS MODEL SHOWS AN INCUBATOR, WITH CELL SAMPLES BEING IRRADIATED.

## ROOF SHIELD;

- FULLY INTERLOCKED LEAD BRICK CONSTRUCTION
- GIVES ABOVE ROOM PROTECTION
- CONFIGURABLE THICKNESS
- FULL BEAM COVERAGE

## REMOVABLE SIDE PANELS;

- REMOVABLE SIDE PANELS FOR INCUBATOR MAINTENANCE/ACCESS
- LIGHTWEIGHT, EASILY REMOVED.

## SERVICES INPUT;

- MAINS 240V INPUTS IN REAR PANEL
- INCUBATOR GAS SUPPLIES IN REAR PANEL
- FUSES IN REAR PANEL
- MANUAL SOURCE CAROUSEL ROTATION ACCESS IN REAR PANEL (DURING SOURCE LOADING)

## SECURITY PANELS;

- LOWER PANELS ARE SECURITY PANELS TO PREVENT ACCESS TO SOURCES & DETER OPERATORS ACCESS DURING NORMAL OPERATION
- 8mm THICK PLATES
- SECURITY SCREWS
- FRONT, BACK AND SIDES
- INCUBATOR SUPPORT PLATE.

## FIXING BRACKETS;

- HIGH STRENGTH BRACKETS ANCHORED TO FLOOR VIA ANCHOR BOLTS OR CHEM-FIX BOLTS
- SYSTEM STABLE/SECURE

## IN SITU RADIATION MONITOR;

- ADDITION LEVEL OF SAFETY
- DETECTS PRESENCE OF EXPOSED RADIATION TO CONFIRM SHUTTER POSITION
- CENTRAL TO SOURCE BEAM

## INCUBATOR;

- FULLY INTEGRATED INCUBATOR.
- WIDE RANGE OF MODELS & MANUFACTURERS
- SECURELY MOUNTED

## MECHANICAL INDICATOR;

- EXTERNALLY VISIBLE
- GIVES A MECHANICAL INDICATION OF SHUTTER POSITION.
- ADDITIONAL LEVEL OF SAFETY (VISIBLE FROM OPP. SIDE)

## REMOVABLE FILTERS;

- FILTER POSITIONS TO MODERATE EXPOSURE STRENGTHS
- FILTERS PROVIDED
- LEAD - FULLY CONTAINED.
- VARIABLE THICKNESS.
- FULL BEAM COVERAGE

## LEVELLING FEET;

- EIGHT LEVELLING FEET
- SPREADS THE WEIGHT OF MACHINE SO NO SPECIAL FLOORING IS REQUIRED.

## SOURCE LOADING;

- REMOVABLE LEAD PLUG
- DESIGNATED SOURCE LOADING/REMOVAL POS'N.
- SOURCE TRANSFER TOOLS & VESSEL PROVIDED

## ROTATING CAROUSEL;

- FULLY BEARING GUIDANCE (AXIAL & RADIAL)
- MULTIPLE SOURCE SHIELDS
- HIGH PRECISION
- INDEX FOR SOURCE SELECTION
- HIGH REPEATABILITY
- LOCKABLE IN SAFE POSITION DURING SERVICING

## SOURCE HOLDERS/SHIELDS;

- QUICK LOAD SOURCE MECH.
- FULL LEAD CONSTRUCTION.
- SIZED TO SUIT INDIVIDUAL SOURCE REQUIREMENTS
- CONTINUALLY SHIELDED WHEN NOT IN EXPOSED POSITION TO SURFACE DOSE RATES OF TYPICALLY 2.5 microSv/hour

## SHUTTER BLOCK;

- LEAD CONSTRUCTION
- MOUNTED ON LINEAR GUIDES.
- CHAIN DRIVEN, BY GEARED MOTOR
- GRAVITY OPERATED FAIL SAFE
- FULL SAFETY INTERLOCKS.

## COLLIMATOR RING;

- LEAD CONSTRUCTION
- INTERLOCKING SEGMENTS
- SHIELDS SOURCES CONTINUALLY DURING ROTATION - EXCEPT FOR BEAM APERTURE POSITION.

## COLLIMATOR APERTURE;

- POSITIONED WITHIN LEAD COLLIMATOR RING
- FULLY CONFIGURABLE TO ENCOMPASS ANY SAMPLE DIMENSIONS
- HIGHLY ACCURATE
- DESIGN MINIMISES SCATTER

