

NSD-350-24-C Neutron Generator

DD 2.5 MeV or DT 14 MeV or TT 0.5 - 9.5 MeV options



- Intelligent fail-safe automation control
- Emergency stop and door switch external interlock loops plus extra inputs for dosimeter alarm signals
- Remote connection watchdog
- LB112 dosimeter integration interface
- UN2911 Class 7 excepted transport package (applicable to DT or TT only)
- No environmentally harmful SF6 -gas
- DD/DT/TT gas is stored in a solid getter pump for vacuum pressure in the sealed reaction chamber at room temperature (no risk of outward)
- No breakable glass components



Specifications

- Electrode and fusion emission zone length in middle of reaction chamber: **350 mm**
- DD 2.5 MeV neutron yield: $>1 \times 10^8$ n/s output
- DT 14 MeV neutron yield (65x DD): $>5 \times 10^9$ n/s
- TT 0.5-9.5 MeV neutron yield: $\sim 3 \times$ DD (TBC)
- max. voltage 140 kV max. current 150 mA
- Greater than 10,000 hour lifetime
- Non-pulsed continuous operation
- Quick start to near full output
- Stable and repeatable operation
- Outer casing is at ground potential
- Reaction chamber: 1300 mm long. 155 mm O.D.
- Neutron emission module ~ 30 kg
- Input power 380/220VAC $\pm 10\%$ or 415/240VAC $\pm 10\%$ by 3 phase configuration to HV PSU
- VNC control HMI over LAN via any PC
- OPC or Webservice for integration into systems
- Automated unattended operation for industrial applications
- Submersible option
- Neutron count rate (accepts neutron detector pulses) and availability monitor for gating of momentary outages.