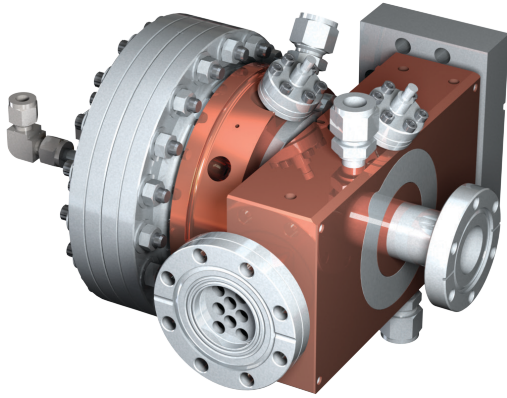


Thermionic RF Gun



STANDARD PARAMETERS

Energy	3 MeV
Bunch Current.....	Up to 1 A
Normalized Emittance	100 μm
π -mode frequency.....	2856 MHz
RF repetition rate.....	Up to 100 Hz
Quality factor.....	11,000
External coupling	2.5
Peak surface field.....	142 MV/m
Input power.....	5 MW
Maximum pulse length	3.1 μs

Our high repetition rate Thermionic RF gun features a state-of-the-art RF design and a reliable cathode mounting system that produces a 1 Ampere 3 MeV electron beam. The large vacuum conductance allows fast pump-down times after cathode exchanges. During operation, an innovative cooling scheme keeps the cavity in resonance even at high repetition rates. Multiple field probes can be used to monitor beam energy and an optional viewport can be used to visually monitor the cathode. These features make it ideal as a light source injector but it can also serve as a standalone beam source

Our Thermionic RF gun is available with several options, including a range of external couplings and matched alpha magnet for bunch compression.

FEATURES & OPTIONS

- ◆ High RF repetition rate, up to 100 Hz
- ◆ Fully positionable kinematic mounts
- ◆ Matched alpha magnet
- ◆ Turnkey option with RF transmitter



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Other options are available upon request.
Please contact us or visit our website for
purchasing information.