WAVEGEN 80
75KW, 915MHz, 60Hz, 480V, 3-Phase, 12-Pulse

The Wave Gen features proven and reliable systems and features:
- 14-Gage Stainless Steel Construction - NEMA 4X style
- Fully Adjustable Power Output of 0–75 Kilowatts
- Microwave Isolator to Prevent Reflected Power from Damaging the Magnetron Tube
- Hard-wire Monitored Safety Interlocks
- Stand-alone, Closed Loop Power Supply Cooling System
- 24 Volt Control Circuit per IEC Safety Standards
- High Voltage Lockout for Safe Maintenance Testing of Control Circuits
- Includes New Magnetron Tube Fully Tested to Operate up to 80KW
- Internal Magnetron EMI Enclosure that Contains RF Leakage to Meet Code requirements
- Internally Guarded High Voltage Transformer & Rectifier Assembly
- Allen Bradley PLC with Ethernet Communication
- Safety Relay and Dual High Voltage Contactors
- Reduced Voltage Start (Step-Start)
- Analog Sensors to Measure Forward Power, Reflected Power and Efficiency
- PLC Controlled, Electronically Driven Filament Transformer and Electromagnet Design Provides State-of-the-Art Magnetron Power Control
- Improved Water System for enhanced distribution for cooling components appropriate with supply temperatures up to 100F
- Can be optionally configured to operate in any System Control

Maintenance Features
- Check Valves Allow Changing Magnetron Tubes with Minimal Water Loss
- Temperature Sensors Mounted in Thermo-wells to Facilitate Replacement with Minimal Downtime
- Glide supported circulator allows easy and efficient exchanges
- Sloped Magnetron Enclosure provides easy access to Magnetron and Filament Transformer

Optional Equipment
- Local Touch Screen for Interlock Annunciation and Local Control
- Analog Anode, Filament & Electromagnet Meters
- External Lockable Safety Disconnect Switch to Remove 480V Power from the Enclosure
- A Range of Options for Power Control:
  - Local Manual and Automatic Controls (Requires Optional Touch-Screen)
  - Remote Analog Signal, 4-20mA (0-10V Optional)
  - Remote Network Control (Ethernet or Serial)
Specifications:

- Electrical Service Requirement: 460-500 Volts, 3 Phase Input Protected by a 150 Ampere Circuit Breaker or Fuses.
- Plant Cooling Water Requirement: 20 KW (Max: 10 Gallons per Minute at 80°F)
- Ambient Environment: 20-100° F
- NEMA 4X (IP66) Environmental Protection

WaveGen 80
Microwave Power Supply