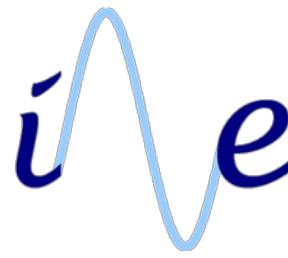


Innovation Energy

Already a generation ahead...



Velocity™

Until now, not much has changed in the past 10 years of variable RF impedance matching network technology development. Yes, the industry has added digital controllers and better sensors, but most matching networks still use motors, mechanical couplers and expensive vacuum variable capacitors. This antiquated technology has served the market well-enough, but its days of being the only solution is over. The Velocity™ and its patented electronically variable capacitors (EVC) is the next step in the evolution of active impedance matching.

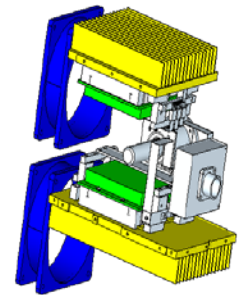
Our Velocity line of impedance matching networks is the next generation of variable impedance matching networks used in plasma processing. The Velocity uses PIN diodes to select the value of a capacitance module. The standard Velocity models use two capacitance modules in the traditional Load (shunt) and Tune (series) positions.



The Velocity's switching technology is fast. Really fast! Typically tune times are 100 milliseconds compared to 1-2 seconds for old fashion matches using motors and vacuum variable capacitors. Another key benefit to using switched capacitor modules is the ability to 'jump' from one capacitance value to another instead of having to move in a linear path like variable capacitors. This allows the Velocity to move from point to point very quickly to help with ignition, clean steps or large impedance shifts from back to back process steps.

The Velocity Advantages:

- ✓ Solid state tuning components for fast, reliable performance
- ✓ Does not require a variable frequency power supply
- ✓ Compact design
- ✓ Optional Output VI sensor



Velocity Models:

- ✓ 2kW - 400 KHz, 13 MHz, 27 MHz, 40 MHz, 60 MHz and 80 MHz
- ✓ 4kW - 400 KHz, 13 MHz, 27 MHz, 40 MHz, 60 MHz and 80 MHz
- ✓ Custom output connections
- ✓ Multiple frequency (dual inputs with single output)
- ✓ Analog and digital interfaces

