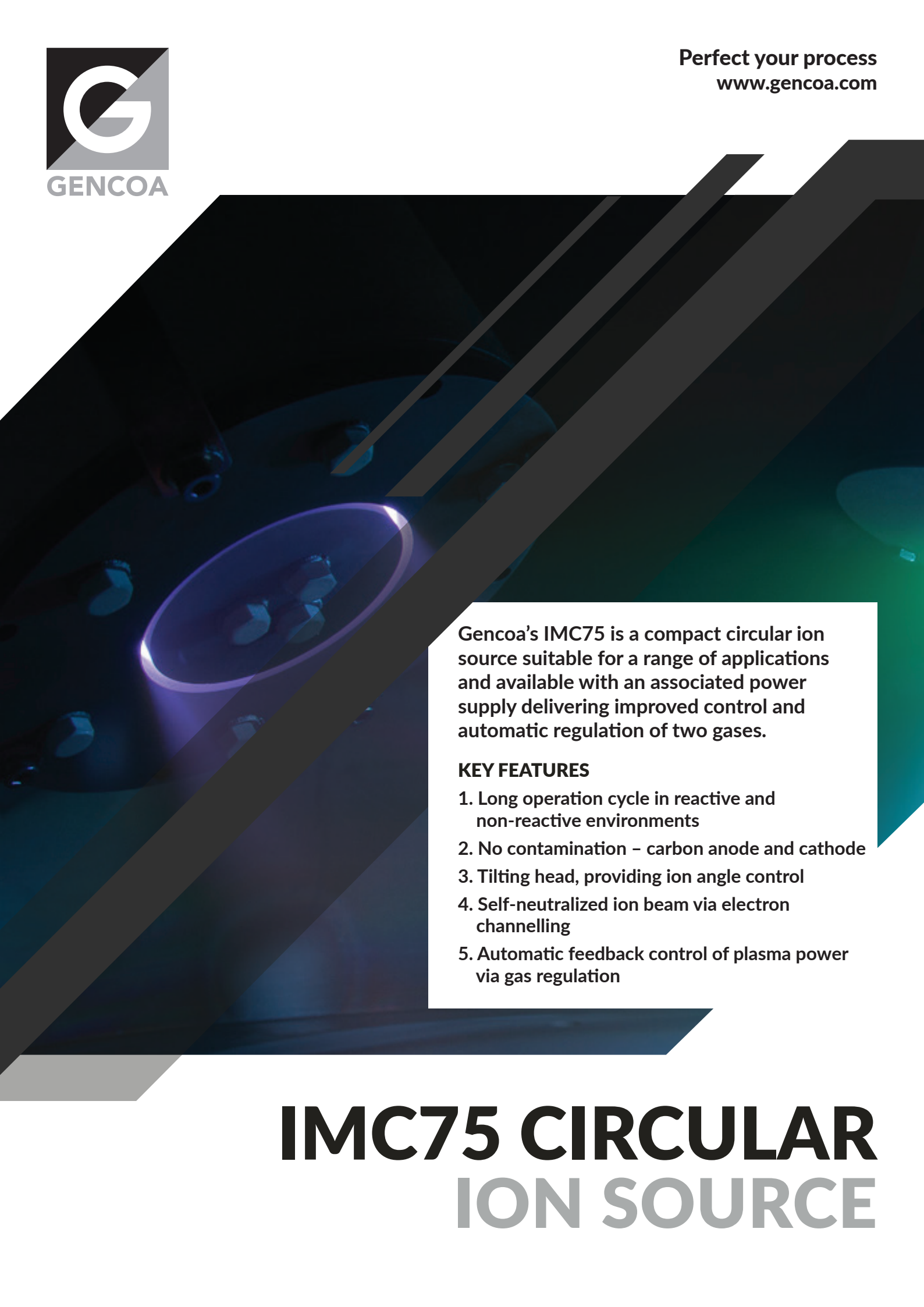




Gencoa's IMC75 is a compact circular ion source suitable for a range of applications and available with an associated power supply delivering improved control and automatic regulation of two gases.

KEY FEATURES

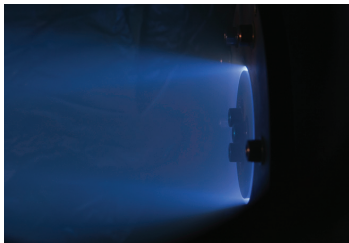
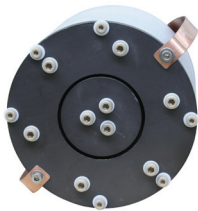
1. Long operation cycle in reactive and non-reactive environments
2. No contamination – carbon anode and cathode
3. Tilting head, providing ion angle control
4. Self-neutralized ion beam via electron channelling
5. Automatic feedback control of plasma power via gas regulation

IMC75 CIRCULAR ION SOURCE

ION SOURCE

APPLICATIONS

- Substrate pre-clean
- Ion assist
- Etch and texturing
- PACVD
- PALD



Genco's IMC75 is a powerful self-neutralizing circular ion source for thin film research, benefitting from a gridless design with no filaments.

The beam is used to gently remove contamination from surfaces prior to coating, or to treat the coated structure during or after deposition.

With no contamination produced, the product is suitable for semiconductor applications, with other processes including substrate pre-treatment of metals, polymers and ceramics, ion assist, etch/texturing and PACVD deposition.

The IMC75 boasts a long maintenance cycle - both in reactive and inert environments - and has an operational range of up to 90mA and up to 3kV (beam output at the source). It provides stable ion beam current and ion energy distribution due to its integrated closed loop feedback control.

The source is easy to fit, with a 1" shaft mount, outer diameter of 5" and a tilting head for ion angle control. It can be paired with a 3" or 4" Genco circular full face erosion magnetron as a cluster solution for R&D applications.

IM300 POWER SUPPLY

Automatic gas feedback control of up to two gases can be achieved with the inclusion of the associated IM300 power supply, and feedback control of more than two gases is possible by also including a Speedflo or Speedflo Mini unit.

IM300 SPECIFICATIONS	
UNIT	1/2 rack 19" 3 HU
MAIN	240 or 110 VAC with switch selector inside
VOLTAGE STRIKE	3 kV positive
NOMINAL VOLTAGE	2500 V/500 W
SHORT CIRCUIT CURRENT	300 mA
REGULATION MODE	Current (0.5 mA resolution)
OUTPUT CONNECTOR	BNC SHV female
MFC	2 channels analog 0/5 VDC
DISPLAY	Touch screen 240 x 128 pixel
INTERLOCK/REMOTE	9 pin D type
RS 232	9 pin D type
REGULATION MODE	Internal constant gas flow, or gas feedback (constant voltage), via external RS 232 or analog user port

FURTHER INFORMATION

Contact: sales@genco.com or visit
www.genco.com/imc75

