

JORDAN

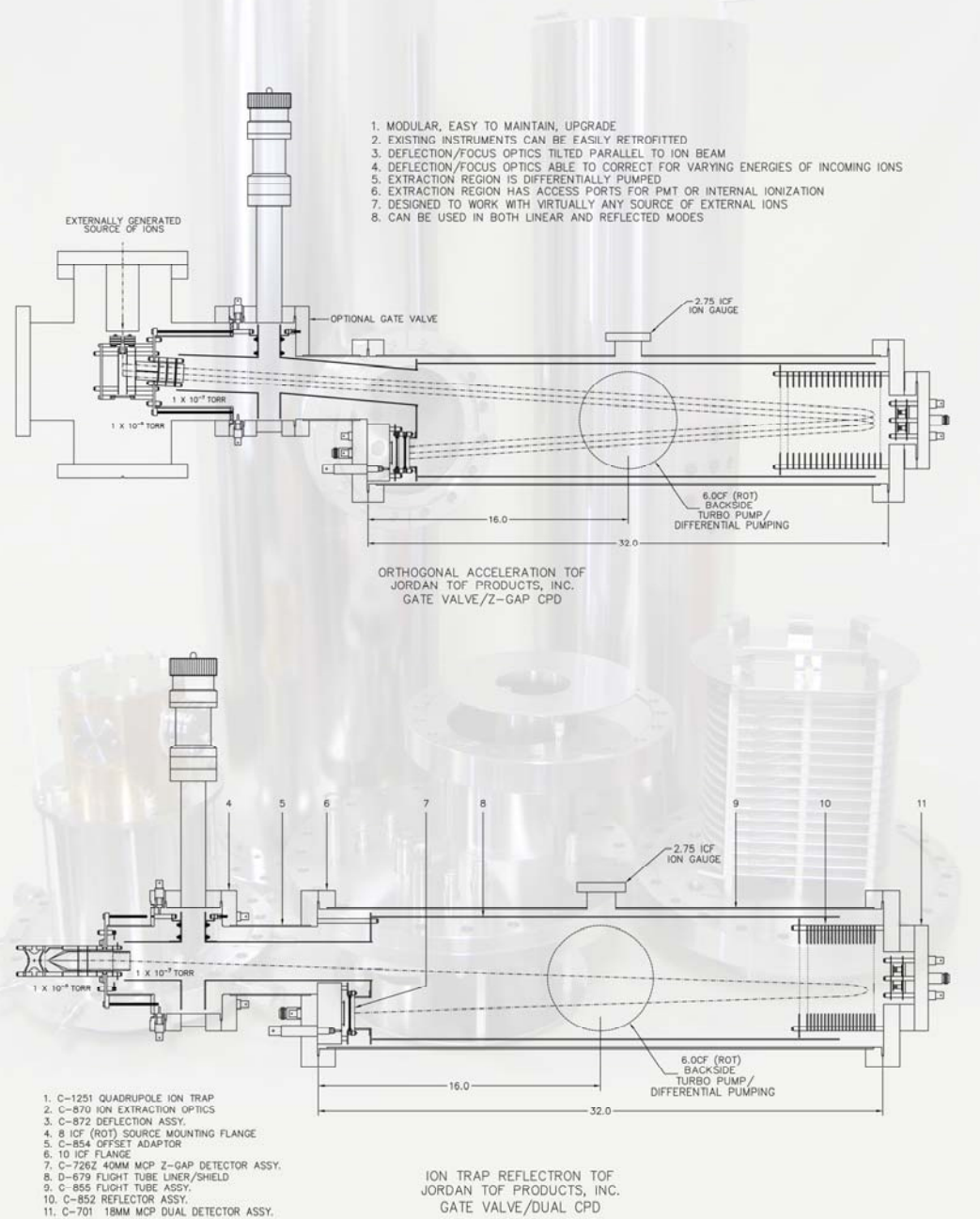
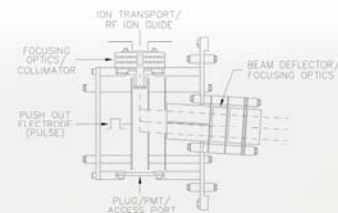
TOF PRODUCTS, INC.

Jordan TOF Products, Inc. is pleased to introduce our newly optimized Orthogonal Extraction Time of Flight Mass Spectrometer.

SIMION modeling was used extensively to optimize these new ion optics for best performance when sampling low energy ion beams (7-14 eV) from an electrospray source.

As always with Jordan TOF Products components, existing systems can be upgraded to this new design.

Visit our website at www.RMJordan.com.



Ardara Technologies L.P. was founded in 2004 with a focus on developing interesting mass spectrometer component technologies, which can be mixed and matched to create custom crazy mass spectrometer systems.

With the recent product introductions of our quadrupole power supply (QPS) and the upgrade of our Tempus data acquisition system to control quadrupoles as well as TOF data acquisition, we have now completed our product line, allowing us to offer a full complement of mass spectrometer component technologies.

Ardara Technologies is partnered with Analytica of Branford (now a part of Perkin Elmer) for creating systems with electrospray ionization, and with Jordan TOF Products for creating systems with TOF components.

All of our electronics products feature world-wide universal AC inputs, integral vacuum interlock safety controls, and can be operated manually or with an external computer controlled command.

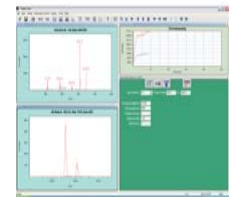
OUR PRODUCTS

- Turnkey systems built from combinations of our various components
 - Electrospray Q-TOF systems.
 - Flange Mounted Mass Filters.
 - Cluster deposition analyzers.
 - In-line hydrogen molecular beam analyzers.
 - Quadrupole Gas Analyzer with atmospheric gas sampling inlet.
- Tempus Data Acquisition System
 - TOF Data acquisition.
 - Quadrupole data acquisition and control.
 - Quadrupole gas analyzer data acquisition and control.
 - Q-TOF data acquisition.
- Filament Power Supply
- Optics Power Supply with Eight independent +/-400 V outputs.
- Pulsed Optics Power Supply with three independent 'fast' (sub microsecond rise time) +/-200 V outputs.
- Quadrupole Power Supply with operating Frequencies from <100 kHz to >4 MHz and system mass ranges from 0 to 5 amu for ultra-sensitive analysis of hydrogen and helium, to beyond 100,000 amu for cluster analysis.
- Detector Power Supply with multiplier, dynode and preamplifier control.
- RF Power Supplies
 - Single and dual configurations with operating frequencies from <100 kHz to >4 MHz,
 - Capacitive loads from tens of picofarads (RF-only ion guides), to thousands of picofarads (ion funnels).
 - RF Voltage to 2500 Vpp.
- Vacuum Controllers with integral safety interlock of gate valves.
- Electrospray Ion Source with chamber/pumping package from Analytica of Branford. Flange-Mounted Nano-Electrospray Ion Source .
- 4-stage differentially-pumped vacuum system allowing efficient ion transport from atmospheric pressure ion sources to analyzers in high vacuum with integrated RF-only ion guides.
- Axial, in-line, and cross-molecular beam in Standard size (nine mm ion region basket) and 'Jumbo' (22 mm ion region basket).
- Quadrupole deflector energy filters in three sizes, 1.6 inch square, 2.5 inch square, and 6 inch square profiles
- Einzel lenses, including split lenses for TOF focusing
- RF-only ion guides with vented or conductance limited housings.
 - Quadrupoles
 - Hexapoles
 - Octopoles
 - Rectilinear quadrupoles
 - Linear ion traps
- Quadrupole mass filters with mass ranges as low as m/z 1 and as high as m/z 100,000 amu, with 1, 2, 4, 6, 9, 12, and 20 mm rod diameters and optional pre-filters and post-filters
- TOF analyzers from Jordan TOF Products
 - Reflectron or Linear TOF modes
 - Orthogonal extraction of externally generated ions transported through RF-only ion guides
 - 3D quadrupole ion trap for accumulation and extraction of externally generated ions
 - Electron gun for internal ionization of molecular beams
- Flanges and Detectors^{22, 23}
 - Conflat mounting flange for mounting electron multiplier within a housing, with flexible design for electrical feedthroughs.
 - Conflat flange configurations with radial feed-through's, allowing in-situ suspension of a quadrupole or other ion optics within an optics train, with conductance limit.
- Racks and Assemblies
 - Custom engineering of flexible design mounting racks for electronics and vacuum hardware.

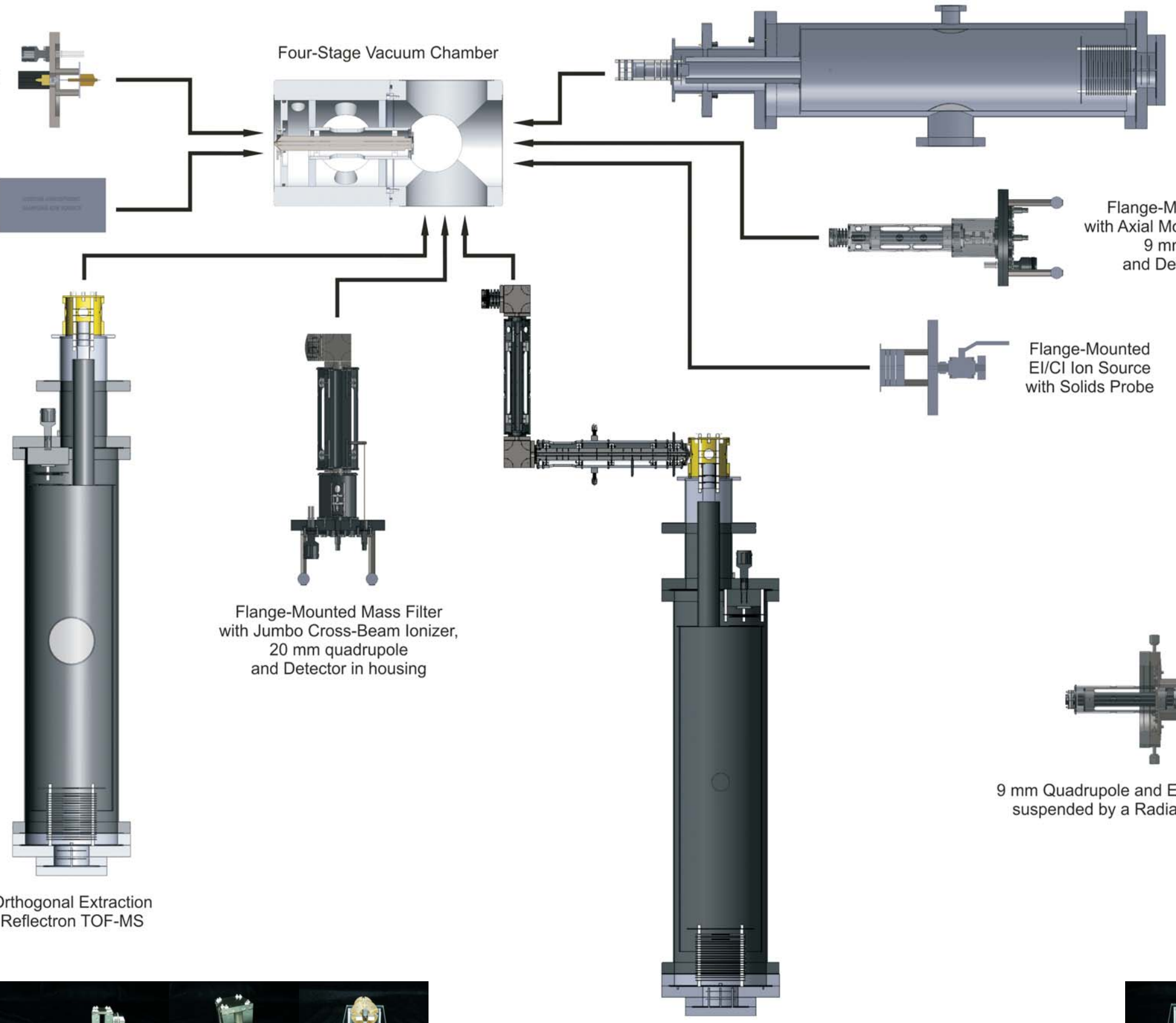
Custom System Configurations



Flange-Mounted Nano-Electrospray Ionizer



Custom Atmospheric Sampling Ion Source



Q-TOF with 9 mm Quadrupole, Rectilinear Collision Cell / Ion Trap, with Orthogonal Extraction Reflectron TOF

