



# Bruce Technologies Inc.

18 Esquire Road, North Billerica, MA 01862

## BDF-41 FEATURES & ENHANCEMENTS FROM THE BDF-4

### 1.0 General

- Modularity, main sections are modular which accounts for all current options & future retrofit requirements.
- Interconnect panels for all cabling between major modules.
  - Shorter cables
  - Point to point cables with Military Style connectors.
  - Computerized cable testing/pin verification.
  - Reduced installation/setup time.
- New Gray & Charcoal Gray color scheme.
- Exhaust failure alarms on all system exhausts.
- Gas connections are Butt Welded.

### 2.0 Load Island

- Universal right and left handed hood.
- Hepa/Ulpa filters extended full length of flow hood.
  - Filters replaceable from rear.
  - Flow switches on blowers.

### 3.0 Scavenger System

- All welded electro-polished stn. st'l, scavenger boxes.
- Modular frame with independently floating type construction.
- 3 in. dia. All welded stn. st'l. exhaust, independently controlled.
- Scavenger exhaust fail switch (system).
- Scavenger exhaust monitor system (tube dependent) (atmospheric tubes).
- Quartz scavenger liner for radially uniform exhaust flow.
- Independent VCVD lines, easily removeable for maintenance.
- Readily accessible cable breakpoints with bulkhead style connectors.

### 4.0 Furnace Section

- Adjustable, floating bezel system.
- Improved sealing between furnace section & scavenger section with integral tube supports & compressed quartz collars.
- Repeatable process tube support, alignment with eccentric tube supports.
- Independent wire/cable trough's for improved isolation and assembly.
- Low profile heat exchanger for top or optional rear exhaust capabilities.
- Quartz lined T/C storage tubes.
- Front locking, bi-fold doors.
- Heater element support, full length to prevent sag.
- Fast cool core compatibility.
- Readily replaceable SCR's.





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## **5.0 Source Cabinet**

- Efficient “L” shaped cabinet configuration.
- Separate cabinets, tube foyer & gas cabinet.
- Improved access for tube pull & maintenance, (Independent tube foyer).
- Vertical gas panels.
  - Improved access to components & hardware for maintenance/service.
  - Improved exhaust flow over the gas components.
- Isolated compartment for gas electronics, located at individual tube levels.
- Modular base with standard harness with all optional items included.
- Illumination is provided.
- Gas Inlets are 0.5 inch dia. Butt Welded (customer connections)
- H2 Detectors in Gas Cabinet and Tube Foyer (Option).

## **6.0 Control Cabinet**

- New Charcoal Gray 7355's
- New Alarm panel layout
- Connector panel

