# ETI® Glass Ionization Gauge Type 4336 and 8135

The ETI® type 4336 hot ion gauge is a Bayard-Alpert type gauge available with either a burn-out resistant, single iridium-coated filament, or two tungsten filaments. ETI® was the first to incorporate a bi-filar grid design in its Bayard-Alpert gauges. Through this design, only half of the grid weight is suspended on each support, thereby making it more sag resistant during frequent outgassing conditions.

#### **Physical Data**

Tubulation Option 1	3/4", 1" Pyrex or Nonex Glass
Tubulation Option 2	3/4", 1" Kovar, flanges available on request
Envelope	Nonex 7720 Glass
Mounting Position	Vertical
Collector	0.005" Tungsten
Filament	Single Coated Iridium
High Stability Geometry	Available
Grid	Tungsten Helix Configuration

## **Operating Data**

Sensitivity for N <sub>2</sub>	10/Torr
X-ray limit	2*10 <sup>-10</sup> Torr
Operating Pressure	2*10 <sup>-10</sup> Torr to 1*10 <sup>-3</sup> Torr
Electron Bombardment De-gas	70 W
Resistance Heated De-gas	6.3 to 7.5 V DC @ 10 A
Bakeout temperature	250°C

### **Recommended Electrical Operating Parameters**

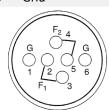
Collector Potential	0 V DC
Shield Potential	Connection to filament return
Grid Potential	150 to 180 V DC
Filament Current	4 to 6 A
Filament Voltage	3 to 5 V DC
Filament Potential to Ground	30 V DC

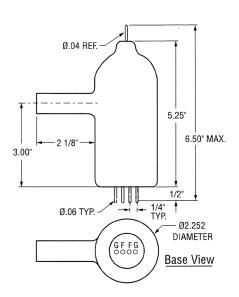
### **Pin Configurations**

4336 Single Coated Iridium		
Pin #1	Grid	
Pin #2	Filament	
Pin #3	Filament	
Pin #4	Grid	



4336T Dual Tungsten			
Pin #1	Grid		
Pin #2	Filament #1		
Pin #3	Filament #1		
Pin #4	Filament #2		
Pin #5	Filament #2		
Pin #6	Grid		





#### 8135 Dual Tungsten

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Pin #1	Filament #1	
Pin #2	Grid	
Pin #3	Filament Common	
Pin #4	Grid	
Pin #5	Filament #2	

