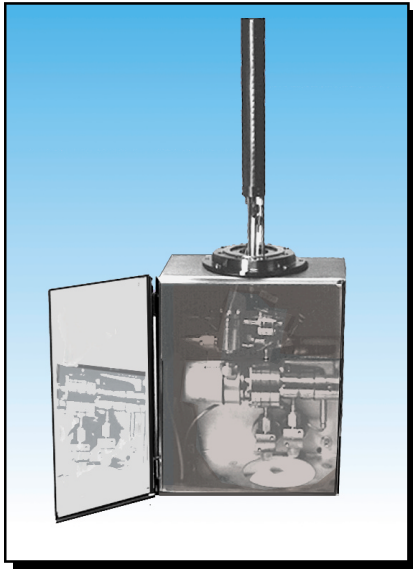


CB₄ Gas Injector



- Adaptable to any MBE Systems
- High Performance Gas Injector
- Advanced Gas Handling System
- Safety and Simple Operation

Description

Carbon Tetrabromide (CB₄) is an excellent choice as a p-type dopant used in III-V materials. CB₄ is sufficiently versatile in MBE deposition techniques where very accurate and reproducible p-type doping of epitaxial materials is required.

The SVTA CBr₄ module is easily adaptable to any MBE systems. Safety and ease of operation are the major features of the design. The gas handling system is enclosed within a safety gas cabinet. Carbon Tetrabromide is introduced by using a pressure control system to control the flow of vapor. The gas panel allows the user to precisely control the introduction of low flow rates of CBr₄ into the growth chamber.

The CBr₄ delivery module consists of the following components:

Gas Injector Source

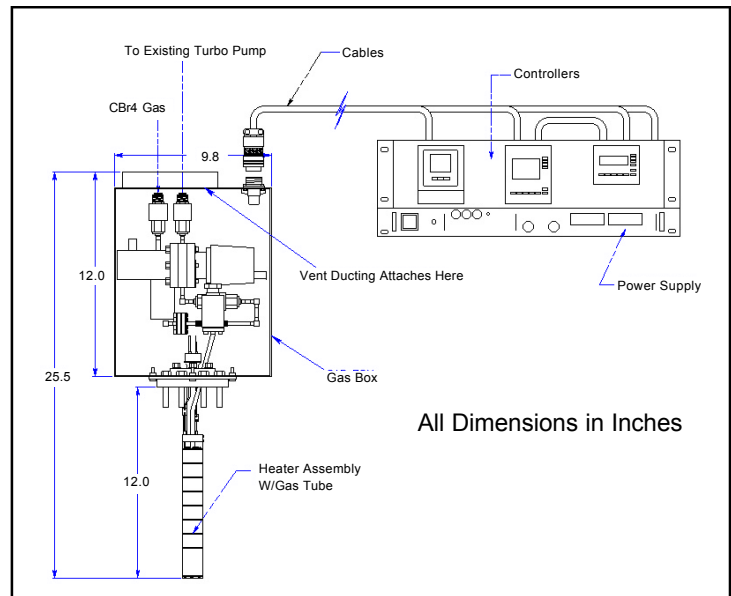
- Gas Injector with Heater (Custom Lengths Available)
- Eurotherm Controller (Rack Mountable)
- Double Jacketed Gas Lines

Gas Handling System

- External Manual Adjustable Valves
- Thermal Leak Valve and Controller
- Cold Cathode Gauge and Controller

Options

- Pneumatic Valves
- Pneumatic Valve Controller
- Bakeout for Gas Lines



Schematic drawing of the CBr₄ delivery module.

Models

SVTA-CBR4-275
SVTA-CBR4-450
SVTA-CBR4-600

Flange Size

2.75" CF (70mm)
4.50" CF (114mm)
6.00" CF (152mm)