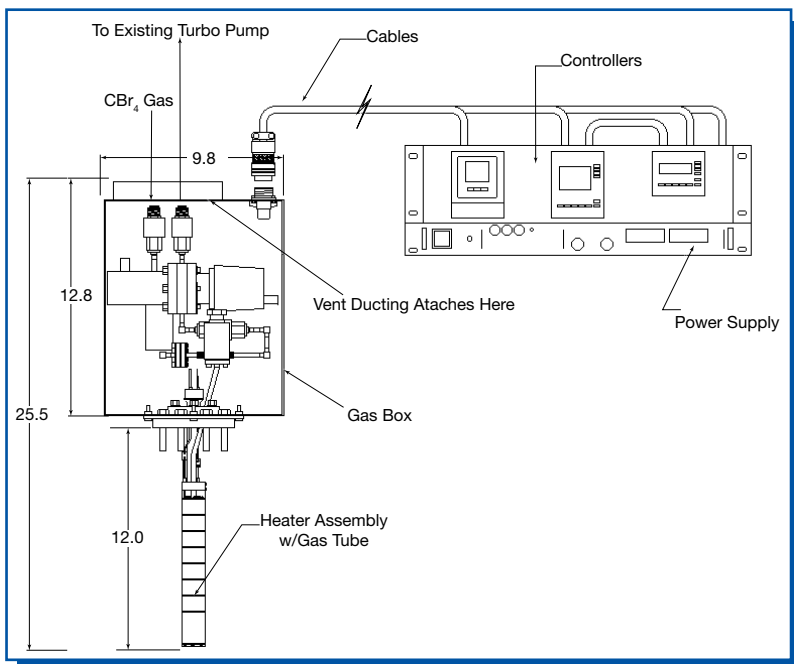


CBr₄ Gas Injector

Description

Carbon Tetrabromide (CBr₄) is an excellent choice as a p-type dopant used in III-V materials. It is sufficiently versatile in MBE deposition techniques where very accurate and reproducible p-type doping of epitaxial materials is required.

SVT Associates CBr₄ module is easily adaptable to any MBE system with safety and ease of operation 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 rate CBr₄ into the growth Chamber.



Schematic drawing of the CBr₄ delivery module.
Dimension are in inches.

Models	Flange Size
SVTA-CBR4-275	2.75" CF (70 mm)
SVTA-CBR4-450	4.50" CF (114 mm)
SVTA-CBR4-600	6.00" CF (152 mm)

Features

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

Components

GAS INJECTOR SOURCE

- Gas Injector with Heater
(Custom Lengths Available)
- Temperature 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

