

Greater capacity and more capability from Veeco.



5cc Dual Dopant Source

Industry's largest capacity R&D dual dopant source with full thermal isolation

- > Tailored for the task of providing dopant fluxes
- > Extremely efficient heating
- > Ideal for systems with limited source ports
- > 3x the dopant material capacity as previous model
- > Independent shutters and complete thermal isolation allow for maximum flexibility of dopant configurations
- > Highly reproducible and reliable
- > 4.5" ConFlat Mounting Flange



Innovation. Performance. Brilliant.

Veeco's 5cc Dual Dopant Source expands upon the design of the original 1.5cc dual dopant source by increasing the capacity more than 3x and adding the ability to independently actuate the shutters on each crucible.

As with Veeco's previous dopant sources, the 5cc Dual Dopant

Source is designed for efficient operation, rapid thermal response, and excellent flux uniformity. The source operates efficiently at the relatively high evaporation temperatures required for most dopant materials, without excessive thermal load on the surrounding MBE growth chamber.

Characteristic	1.5cc Dual Dopant Specification	New 5cc Dual Dopant Specification
Crucible	2 x 1.5cc Conical	2 x 5cc Conical
Pneumatic Shutters (Manual Available)	Single Pneumatic	Dual Independent
Water-cooling	Single Source Head Cooled	Both Source Heads Cooled
System Type	All Veeco R&D Systems Contact Veeco for use inquiries with other systems	

Charge Material	For use with Si, Be, and other medium to high vapor pressure dopants
Filament	Ta wire heater filament with PBN supports
Mounting Flange	4.50"/114mm Conflat
Thermocouple Type	Two patented Type C (W/Re 5/26%) band thermocouples, optional Type K for low temperatures
In-Vacuum Length	11.4"/290mm standard Contact Veeco for other lengths
In-Vacuum O.D.	2.60"/66mm plus room for shutter to actuate
Typical Operating Temperatures	750-1350°C (100-750°C for low temperatures)
Maximum Outgassing Temperatures	1600°C (1000°C for low temperatures)
Power Supply	Two DC Power Modules

Find out more at www.veeco/mbe
or call 1.888.24.VEECO

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