

VEECO'S HIGH CURRENT ION IMPLANTER.



90% UPTIME GUARANTEED.

THERE'S NO OTHER
WARRANTY
LIKE IT IN THE
INDUSTRY.

AND THE VHC-120 IS COMPACT, AUTOMATIC, AND INSTALLS FAST.



Up and running.

Your production output is guaranteed. With our Productivity Plus Plan, we make sure the VHC-120 is up and running an average of 90% of the time. There's no other warranty like it in the industry.

Truly automatic.

Computer control allows simple, error-free operation. With throughput up to 380 wafers per hour. In wafer sizes from 100 mm to 150 mm. And with incredibly high repeatability and yield because every recipe is handled in the computer.

Installs in 5 days.

The VHC-120 arrives in one piece with its vacuum maintained. And because it is so small, it installs in existing space. Typically you are implanting wafers within the first week.



SEMICONDUCTOR
EQUIPMENT



Operator friendly. The VHC-120's start-to-finish automation virtually eliminates operator error.

The VHC-120 is the most advanced, automatic high current ion implanter in the world.

It's keyboard-accessed computer holds up to 25 recipes. This means an operator can implant batch

after batch with the kind of repeatability that only computer accuracy offers.

It also means higher yield and throughput. With single keystroke control, the VHC-120 system locks out operator processing errors. And

its friendly software uses simple English commands.

The VHC-120 takes care of itself. Its computer diagnostics let you know if there's a problem and where to go to fix it. That's a user friendly system.

The best wafer cooling system of its kind.

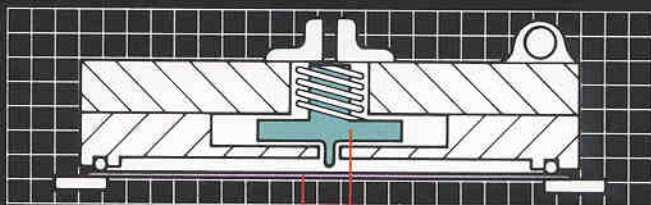
We've developed VeeCool™, the most advanced wafer cooling system in the industry. Why? It almost goes without saying, the better process temperature control, the higher production yield.

Wafers are constantly monitored by real time infrared sensing. Should temperature fluctuate from preset values, it automatically handles the situation.

Full photoresist throughput.

With Veeco's cooling system, there's no need to down rate the VHC's throughput when processing wafers with photoresist. The gas cooling system allows use of full beam current at maximum throughput rates with no photoresist damage. Wafers are kept under 100°C regardless of implant time or dose.

VeeCool™ Wafer Cooling System



Wafer face temperature is constantly monitored by infrared sensor.

Cooling system keeps wafer under 100°C.

NOVA NV-10-160 215" L 137" W 102" H

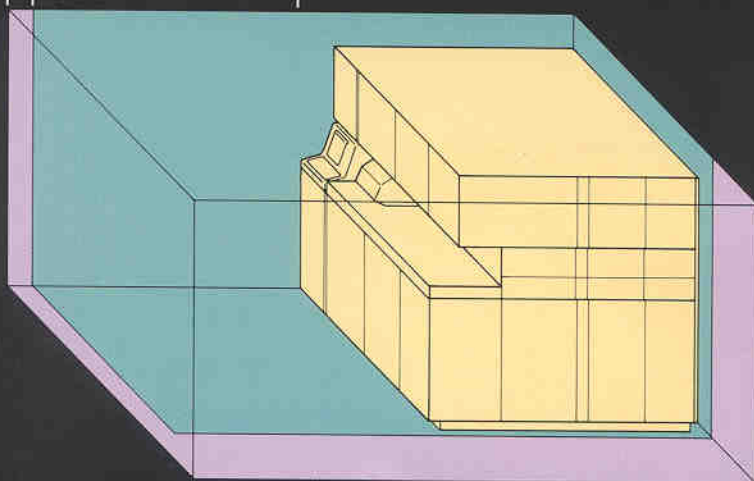
VARIAN 120-10 205" L 97½" W 102" H

VEECO VHC-120 105" L 96" W 89" H

The smaller. The better.

Half the size of competitive models, the VHC-120 saves 50% of valuable clean room space. It's basic footprint is only 72 square feet.

In the world of high current ion implanters, it's the top of the line. The high-performance, high-production VHC-120.



PRODUCTIVITY PLUS PLAN



Our Productivity Plus Plan is like no other. As an option with every purchase, we will guarantee that your VHC-120 is up and running 90% of the time.

How do we do it? First, we put a factory-trained field service engineer right near your facility. And they can be on call up to 24-hours a day. Then we provide you with a complete inventory of spare parts.

Of course, there's our standard scheduled maintenance as well. We schedule it outside of your primary production periods so productivity is kept as high as possible.

The Productivity Plus Plan assures you of greater output. With Veeco, there's no need to double, or even triple, your expenditure in fabrication ion implanters—just to take up downtime loss. We'll take care of the VHC-120 and keep your average production time at 90% guaranteed.

Veeco knows wafer fabrication.

We're in the semiconductor fabrication business from start to finish.

Just write to us for information on our complete line of wafer processing systems for all photoresist applications, including new systems for VLSI processing. Our integrated automated materials handling system for wafer fabrication is capable of moving wafer lots throughout the fabrication area, loading and unloading process equipment and identifying and tracking the wafer lots in process—all without human operators.

Also see us for advanced dry etch systems including reactive ion etch and ion beam etching equipment.

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**Technology and
Performance**

