

Parylene Deposition Systems

The Model 4000V has a unique patented chamber design and low chamber gradients that make it 20% more efficient than comparable units. The elimination of baffles helps maximize the usable chamber volume and reduce total load of raw material.

There are twelve different vertical chamber module sizes available and they all interface with the generator module without mechanical changes or alterations.

The modular design allows for quick and easy separation of the generator from the deposition section. The chamber, vacuum system, rotational drive and cold trap are separate entities that can be easily separated for maintenance purposes. This unique and patented feature also allows for more than one chamber configuration to be used with the same generator, providing the utmost in convenience, flexibility and economy in processing.

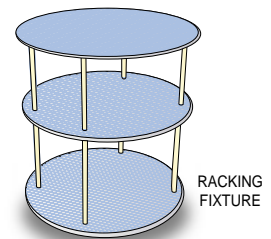
The systems Microprocessor control allows 8 different in-built programs (each having up to 20 intervals), that can be tailored to different substrate loads. It can interface with a P.C. to have infinite numbers of coating programs to be stored and made available at will. The computer displays the processing parameters, set points and actual real time values in numerical and graphic forms.

The chambers can be supplied with either a stainless steel cover, with optional viewport or alternatively one of clear plastic to have a complete view of substrates during coating cycle.

The hinged electrical panel is built at bench height to permit convenient access to controls and circuitry. The chamber module cabinet has 3 hinged doors to facilitate maintenance of vacuum pump.

Four different inside diameters can be combined with three different heights to give twelve possible combinations.

Usable Inside Diameters:		Usable Height:	
12 ³ / ₁₆ "	309 mm	14	356 mm
13 ³ / ₈ "	340 mm	17 ³ / ₄ "	451 mm
15 ³ / ₁₆ "	386 mm	23 ³ / ₄ "	603 mm
17 ³ / ₁₆ "	437 mm		



RACKING FIXTURE

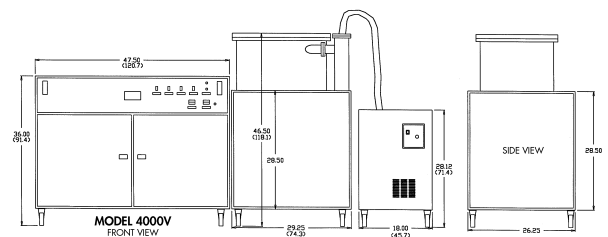
COLD TRAP: The system can be configured with a two stage mechanical refrigerated chiller or alternatively, dry ice and acetone can be used.

VACUUM SYSTEM: Mechanical, direct drive, rotary vane pump 13.4 cfm or 20.9 cfm (16m³h⁻¹ or 25m³h⁻¹) depending on size of chamber selected. Oil mist after filter is standard and 99% effective. Electropneumatic operation of control and vent valving are standards.

DIMENSIONS: Model 4000V-overall size.

Length	74"	1880 mm
Width	26"	660 mm
Height	441"	1100 mm

Allow minimum floor space of 8' x 10'.



ELECTRICAL REQUIREMENTS: 208 volts, three-phase, 4 or 5 wire and ground, 5 kW. User can specify alternate requirements.

WEIGHT: 700 lbs. to 800 lbs. 318 Kg to 363 Kg