

## VARIAN, HS-35 SPECIFICATIONS:

### Technical Specifications

<b>Pumping Speed, Operating Range Pumping Speed, AVS 4.1 (1963)</b>	<b>28,000 l/s air, 35,000 l/s He and H<sub>2</sub> 50,000 l/s Air</b>
<b>Maximum Throughput</b>	<b>25 T-l/s (33 mbar l/s) in operating range, 35 T-l/s (45 mbar-l/s) @ 0.01 torr</b>
<b>Operating Range</b>	<b><math>9 \times 10^{-4}</math> to <math>&lt; 5 \times 10^{-8}</math> torr (<math>1.2 \times 10^{-3} &lt; 6.5 \times 10^{-8}</math> mbar)</b>
<b>Maximum Forepressure</b>	<b>No Load – 0.55 torr (0.71 mbar), Full Load – 0.40 torr (0.52 mbar)</b>
<b>Recommended Backing Pump</b>	<b><math>\geq 300</math> cfm (510 m<sup>3</sup>/hr)</b>
<b>Backstreaming Rate, Standard Cold Cap</b>	<b><math>&lt; 5 \times 10^{-4}</math> mg/cm<sup>2</sup>/min</b>
<b>Warmup Time</b>	<b>60 minutes</b>
<b>Cooldown Time</b>	<b>180 minutes</b>
<b>Fluid Charge</b>	<b>3 U.S. gallons (11.3 liters)</b>
<b>Electrical Requirements</b>	<b>3 ph, 50/60 Hz, 240/415/480 VAC</b>
<b>Pump Power</b>	<b>24,000 watts</b>
<b>Cooling Water Requirements</b>	<b>4 gpm (800 l/hr) at 60-80°F (15-26°C)</b>
<b>Recommended Fluid</b>	<b>DC-704</b>