

Output Voltage and Power vs Output Current
921-0062 Vaclon Pump Control Unit

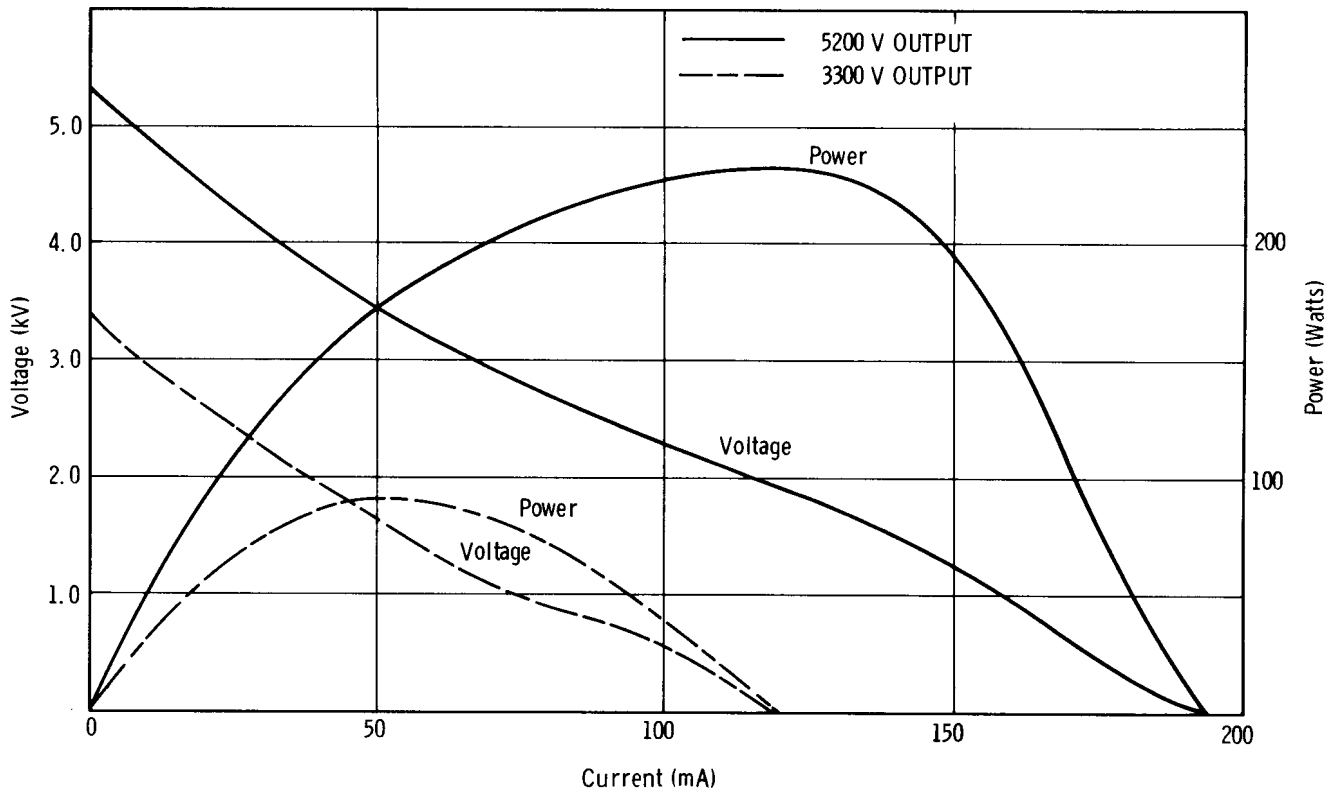


Figure 15. Medium Pump Control Unit, Voltage and Power vs Current

CONTROL UNIT SPECIFICATIONS

INPUT POWER

Voltage: 120/240 Vac, single phase, 50/60 Hz.

Internal taps for voltage change.

Current: 10 A

Output (See Figure 15)

Voltage (open circuit) ± 5200 or ± 3300 Vdc $\pm 10\%$

Internal taps for voltage change.

Polarity switch on rear panel.

Current (short circuit) 60 Hz: ± 200 mA or
 ± 120 mA $\pm 10\%$
50 Hz: ± 167 mA or
 100 mA $\pm 10\%$

SPECIFICATIONS

Overload Protection	Indicating fuse for line power. Relay turns dc power off at 5×10^{-4} Torr when START/PROTECT switch is in PROTECT position.
Protect Circuit (shuts off currents):	$65 \pm 20\%$ mA on 8 l/s, 20 l/s, 30 l/s positions, $108 \pm 20\%$ mA on 60 l/s position.
Metering	20 μ A taut band 3-1/2" meter $\pm 2\%$.
Current Ranges	200 mA to 20 μ A in 5 decade scales $\pm 10\%$.
Pressure scale	10^{-4} to 10^{-8} Torr, log scale $\pm 3 \mu$ A. Matches pump selected with pump selector switch.
Voltage scale	0-6 kV.
RECORDER OUTPUT	0-100 mV from pressure scale (continuous regardless of meter switch position). On front panel terminals and on connector for pressure relay.
CABLES	
Input	Power cable 7-1/2 ft long, 3 wire.
Output	10 ft long, polyethylene insulated, nonbakeable (supplied with control unit).
Heavy Duty Replacement Cable	Bakeable to 250°C, Teflon-insulated, stainless steel wrapped, 12' long.
DIMENSIONS	
Panel	7" high x 8-5/16" wide.
Cabinet depth	15-1/8" (plus 4" cable clearance).
Weight	34 lb shipping weight - 40 lb.
AMBIENT TEMPERATURE	32°F to 105°F