TECHNOLOGIES HVC-3500 THERMAL VACUUM CONTROLLER

For ultimate flexibility and control of your vacuum system, the feature-packed HVC-3500 Thermal Vacuum Controller provides automated vacuum and temperature control, customizable software, and adjustable test recipes for your unique and complex vacuum processes. The HVC-3500 is ideal for any vacuum system requiring heating or cooling, and integrates vacuum gauges and valves for either automated mode or interlocked manual mode operation.





Replicate extreme pressure and temperature environments using the customizable HVC-3500 Controller in your thermal vacuum system.

STANDARD FEATURES

- Can customize to include unique test or I/O requirements
- Turbo pump valve sequencing with interlocks and pumpdown timers from 10^{-3} Torr to 10^{-7} Torr
- Program evacuation, vent, and hold conditions in any sequence from Atm to 10⁻³ Torr
- Log data directly to USB drive
- Auto control electric or pneumatic valves
- Test up to 20 recipe configurations with adjustable parameters
- Display temperature readings from multiple zones
- Full RS232 serial interface control for remote integration
- Manual or auto control for valves (gate, vent, rough, foreline, purge)
- Controller includes gauge, valves, and cords

SOFTWARE CUSTOMIZATION EXAMPLES

- Door Sensors
- Lighting
- Purge Gas
- Chiller Circulators
- Electrical Heaters
- Multiple Chambers
- Overpressure Control
- Vacuum Ramping Control
- Light Towers
- N2 Thermal Condition Units

SPECIFICATIONS					
	DESCRIPTION				
CONTROL SYSTEM	Micro Controller with 7-inch Color Touch Screen				
COMMUNICATION INTERFACE	RS232				
ELECTRICAL REQUIREMENTS	120 VAC/20 Amp or 208-240 VAC/20 Amp				
DATA STORAGE	Ethernet, Micro SD Card, USB Drive				
DIMENSIONS	24" W x 9" H x 12" D				
CONFIGURATION	Table-top, Cart, or System Frame Mount				
TEMPERATURE READING DISPLAY	Multiple				
TEMPERATURE SETPOINT PID CONTROL	Multiple Zones				
RECIPES	Vacuum, Time, Hold, and Temperature				
VACUUM LEVEL	Atm to 10 ⁻⁷ Torr				



Cart-mounted HVC-3500



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	VC-1000	VC-2500	VC-3500	HC-1000	HVC-2500	HVC-3500		
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DESCRIPTION	Vacuum Control Package	Vacuum Controller	Vacuum Controller	Heat Controller	Heat & Vacuum Controller	Thermal Vacuum Controller		
CONTROL SYSTEM	N/A	Micro Controller with 7-inch Color Touch Screen		N/A	Micro Controller with 7-inch Color Touch Screen			
COMMUNICATION INTERFACE	N/A	RS232	RS232/Ethernet	RS485	RS232	RS232/Ethernet		
ELECTRICAL REQUIREMENTS	110-250 VAC (5 amps max)	110-240 VAC (15 amps max)	120 VAC/15 Amp or 208-240 VAC/15 Amp	110-240 VAC (15 amps max)	120 VAC/20 Amp or 208-240 VAC/20 Amp	120 VAC/20 Amp or 208-240 VAC/20 Amp		
DIMENSIONS	8" W x 7.5" H x 8" D	12"Wx9"Hx8"D	12" W x 9" H x 12" D	10" W x 12" H x 6" D	24" W x 9" H x 12" D	24" W x 9" H x 12" D		
CONFIGURATION	Table-top or Cart Mount	Table-top, Cart, or System Frame Mount	Table-top, Cart, or System Frame Mount	Table-top or System Frame Mount	Table-top, Cart, or System Frame Mount	Table-top, Cart, or System Frame Mount		
RECIPE TYPES	N/A	Vacuum, Time, and Hold	Vacuum, Time, and Hold	N/A	Vacuum, Time, Hold, and Heat	Vacuum, Time, Hold, and Temperature		
RECIPE CONFIGURATIONS	N/A	Up to 5 configurable recipes	Up to 20 configurable recipes	N/A	Up to 5 configurable recipes	Up to 20 configurable recipes		
SOFTWARE CUSTOMIZATION	N/A	No	Yes	N/A	No	Yes		
DATA STORAGE	N/A	USB Drive	Micro SD Card, USB Drive	N/A	USB Drive	Micro SD Card, USB Drive		
TURBO PUMP CONTROL	N/A	N/A	Auto	N/A	N/A	Auto		
VALVE OPERATION MODE	Manual Vent and Evacuation, Auto Evacuation	Manual or Recipe	Manual or Recipe	N/A	Manual or Recipe	Manual or Recipe		
VACUUM LEVEL	Atm to 10 ⁻³ Torr	Atm to 10 ⁻³ Torr	Atm to 10 ⁻⁷ Torr	N/A	Atm to 10 ⁻³ Torr	Atm to 10 ⁻⁷ Torr		
VACUUM PUMP ON/ OFF RELAY OPTION	N/A	Yes	Yes	N/A	Yes	Yes		
VACUUM VALVE TYPE	Electric	Electric	Electric or Pneumatic	N/A	Electric	Electric or Pneumatic		
TEMPERATURE CONTROL TYPE	N/A	N/A	N/A	Heat	Heat	Heat or Cool		
TEMPERATURE READING DISPLAY	N/A	N/A	N/A	Single	Multiple	Multiple		
TEMPERATURE SETPOINT PID CONTROL	N/A	N/A	N/A	1 Zone	1 or 2 Zones	Multiple Zones		
HEAT OVERTEMPERATURE ALARM	N/A	N/A	N/A	No	Yes	Yes		
VACUUM UNITS	Torr		A, inHg, mbar, Atm, Pa, hPa, microns	N/A	Torr, psia, psig, inHgA, inHg, mbar, Atm, Pa, feet, meters, hPa, microns			