

The VC-2500 Vacuum Controller is a cost-effective vacuum system automation solution for applications such as vacuum degassing, altitude simulation and product testing. Featuring software that enables unique test recipes for your application requirements, the VC-2500 provides flexible control of single pump vacuum systems. The VC-2500 integrates the vacuum transducer with the vacuum and vent valves for automated operation.



VC-2500 Vacuum Controller

STANDARD FEATURES

- Program evacuation, vent, and hold conditions in any sequence from Atm to 10^{-3} Torr
- Graphical display of vacuum data
- Log data directly to USB drive
- Auto control of electric valves
- Full RS232 serial interface control for remote integration
- Manual or auto control for valves (vent and vacuum)
- Test up to 5 configurable recipes of 20 steps per recipe
- Controller includes gauge, valves, and cords

APPLICATION EXAMPLES

- Vacuum Degassing
- Altitude Simulation
- Vacuum Coating
- Package Testing
- Product Testing
- Research & Development

SPECIFICATIONS

COMPONENT	DESCRIPTION
Control System	Micro Controller with 7-inch Color Touch Screen
Remote Communication Interface	RS232
Electrical Requirements	110-240 VAC (15 amps max)
Data Storage	USB Drive
Dimensions	8" D x 12" L x 9" H
Configuration	Table-top, Cart, or System Frame Mount
Recipes	Vacuum, Time, and Hold
Vacuum Level	Atm to 10^{-3} Torr
Units	Torr, psia, psig, inHgA, inHg, mbar, Atm, Pa, feet, meters, hPa, microns



Table-top vacuum system with VC-2500 Vacuum Controller

For fully customizable and automated vacuum control, turbo pump valve sequencing, and pneumatic valve control, upgrade to our VC-3500 Vacuum Controller. For applications requiring both vacuum and temperature control, our HVC-2500 and HVC-3500 controllers offer customizable temperature control to their vacuum controller counterparts.

VACUUM & TEMPERATURE CONTROLLERS

LACO CONTROLLER SPECIFICATIONS

	VC-1000	VC-2500	VC-3500	HC-1000	HVC-2500	HVC-3500
						
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	Micro Controller with 7-inch Color Touch Screen	N/A	Micro Controller with 7-inch Color Touch Screen	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" D x 8" W x 7.5" H	8" D x 12" L x 9" H	12" D x 12" L x 9" H	6" D x 10" W x 12" H	12" D x 24" L x 9" H	12" D x 24" L x 9" H
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	Torr, psia, psig, inHgA, inHg, mbar, Atm, Pa, feet, meters, hPa, microns	Torr, psia, psig, inHgA, inHg, mbar, Atm, Pa, feet, meters, hPa, microns	N/A	Torr, psia, psig, inHgA, inHg, mbar, Atm, Pa, feet, meters, hPa, microns	Torr, psia, psig, inHgA, inHg, mbar, Atm, Pa, feet, meters, hPa, microns