

LACO TECHNOLOGIES

HVC-2500 HEAT & VACUUM CONTROLLER

LACO's HVC-2500 Heat & Vacuum Controller combines VC-2500 technology with flexible heat control to create a powerful, automated control package. With an adjustable test recipe system, data logging, and remote integration, the HVC-2500 is ideal for LACO vacuum ovens and heater systems using vacuum gauges, vacuum valves, heating elements, thermocouples, and vacuum feedthroughs.



HVC-2500 Heat & Vacuum Controller



FLEXIBLE CONTROL FOR SYSTEMS WITH:

- Heated platens, shelves, chamber walls, or shrouds
- Thermocouples
- Internal or external electric heaters
- Mechanical and instrumentation feedthroughs

STANDARD FEATURES

- Graphical display of vacuum and temperature
- Program evacuation, vent, and hold conditions in any sequence
- Test up to 5 configurable recipes of 20 steps per recipe
- Display temperature readings from one or two zones
- Full RS232 serial interface control for remote integration
- Manual or auto control for vent and rough valves
- Log data directly to USB drive
- Auto control electric valves
- Controller includes gauge, valves, and cords

APPLICATION EXAMPLES

- Vacuum ovens
- Vacuum bake-out and degassing
- Curing resins and compounds
- Environmental testing
- Moisture removal
- Product testing

SPECIFICATIONS

	DESCRIPTION
CONTROL SYSTEM	Micro Controller with 7-inch Color Touch Screen
REMOTE 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 12" D x 9" H
CONFIGURATION	Table-top, Cart, or System Frame Mount
TEMPERATURE READING DISPLAY	Multiple
TEMPERATURE SETPOINT PID CONTROL	1 or 2 zones
RECIPES	Vacuum, time, hold, and heat
VACUUM LEVEL	Atm to 10 ⁻³ Torr

For complete, customizable temperature control, turbo pump valve sequencing and interlock, and pneumatic valve support, upgrade to the HVC-3500 Thermal Vacuum Controller.



LACO Vacuum Oven
with Integrated
HVC-2500 Heat &
Vacuum Controller



MORE INFO

LACO CONTROLLER SPECIFICATIONS

	VC-1000	VC-2500	VC-3500	HC-1000	HVC-2500	HVC-3500
IMAGE						
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" 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		N/A	Torr, psia, psig, inHgA, inHg, mbar, Atm, Pa, feet, meters, hPa, microns	