

## LVS – Laboratory Vacuum Systems

All-in-one dry vacuum pump, controller, traps and solvent recovery!

- **Automatic Distillation**
- **Green Modular Design**
- **Accurate 1.5 Torr Vacuum**
- **Very Quiet Running**
- **Compact Chemical Duty Systems**



Model LVS 105 T-10 ef

Welch-Ilmvac's Laboratory Vacuum Systems (LVS) have been developed to provide optimal vacuum for a variety of applications in the research lab.

Designed for chemical applications, all wetted parts are made from high quality chemical resistant materials including, PTFE, PEEK, PVDP, PP and clear plastic coated glassware.

The LVS's green modular design ergonomically incorporates an inlet trap and an efficient solvent recovery condenser for ease of operation with a commitment to protecting the environment.

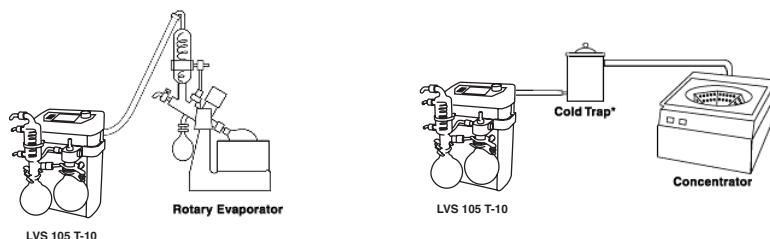
LVS has programmable automatic vacuum control with a solvent reference table resulting in accurate and trouble free distillation processes. This intelligent vacuum controller can operate in either automatic or manual modes. Whether in automatic mode or manual mode, the controller automatically adjusts the pumping speed to match the vapor load generated by the process. The variable speed motor efficiently maintains exactly the required vacuum needed for the process while extending maintenance service life and reducing operating costs.

Green, compact and automatic, with an ultimate vacuum of 1.5 torr and a 20 LPM pumping speed, LVS is the ideal vacuum system for rotary evaporators whether distilling high or low-boiling-point chemical solvents.

**Welch-Ilmvac** - Applied Vacuum Technology for the Laboratory

Welch-Ilmvac, Thomas Division, Gardner Denver Inc.

# Rotary Evaporators • Concentrators



The Welch-Ilmvac LVS Laboratory Vacuum Systems are fully equipped with several added protective features. Features include green ergonomic design, plastic coated glass solvent recovery condenser and inlet trap, programmable automatic vacuum control, variable speed motor for extended service intervals and reduced operating cost.

## Specifications<sup>1</sup> & Ordering Information

Model	LVS 105 T-10 ef
Free Air Displacement, L/min @ speed of 1500 rpm	20
Ultimate Vacuum Pressure, torr @ speed of 1500 rpm	1.5
Maximum Vacuum, in. Hg @ speed of 1500 rpm	29.86
Tubing Needed, I.D. in. (mm)	1/4 (7)
Weight, lbs (kg)	21 (9.5)
Power (watts)	90
Input Voltage/ Frequency	90V - 260V, 50/60Hz
Vacuum Sensor Type	ceramic capacitive
Measuring Range, torr	0.75 to 825
Accuracy in sum linearity, hysteresis and reproducibility	< +/- 0.3% full scale
<b>PROGRAMMABLE</b>	
Automatic Programs	Yes
Solvent Reference Table	Yes
Communication Interface	RS 232
Overall Dimensions LxWxH inches (cm)	10.2 x 9.8 x 17.1 ( 26 x 25 x 43.5 )
Ship Weight, lbs (kg)	28 (12.7)
Shipping Carton Dimensions LxWxH inches (cm)	14 x 14 x 21 ( 35.6 x 35.6 x 53.3 )
Catalog / Ordering Number	114184

1) Specifications subject to change without notice.



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