



**J & S Instruments, Inc.**

3071 State Route 72 South  
Springfield, Ohio 45505-5023  
Phone 937-325-7499  
Fax 937-323-9588

## **JS-750 Oven Enclosure Data Sheet**

The JS-750 Oven Enclosure was designed to contain any of the Data Electronics Model 50/500/600 Series of Datalogger Data Loggers and permit their use in elevated temperatures. It has been reviewed for use in the paint/finish industry, the food/baking industry, the pharmaceutical industry and other processes in which the real time data logging of sensors is desired. This unit has been tested with temperature sensors, relative humidity sensors, airflow sensors and other process sensors. It has added interior space for sensor signal conditioning boards. This unit and all of its associated hardware is constructed of 304 stainless steel with the enclosure's exterior surface having a #2B finish. Each unit comes with a wired, mounted battery holder complete with nine each "D" alkaline batteries for powering the data logger and sensors which require a minimum of 12 VDC.

The JS-750 has a heavy-duty handle mounted on the lid of the enclosure for use in both portage and to hang the enclosure. This unit is designed for use on conveyor belts, conveyor lines, cooling tunnels and other moving processes. All six sides of the enclosure are insulated with a minimum of one inch of ceramic insulation. All air gaps between the enclosure and sections of insulation are filled with specially formulated cement for greater insulation characteristics. The top of the enclosure is held in place with four compression spring draw latches. There is a one-inch foam gasket on both the cover and base of the enclosure of which offers both insulation and a conforming surface for sensors' input cables.

### **Specifications:**

Exterior Dimensions (includes hardware):	14.25" W x 12.25" L x 7.50" D
Interior Dimensions:	10.75" W x 8.75" L x 4.50" D
Exterior Material:	304 SS w/ #2B Finish
Power:	9 each alkaline "D" cells
Weight (excludes data logger):	36 pounds

### **Optional Accessory Kit:**

The JS-OLK Oven Enclosure Accessory Kit consists of the following:

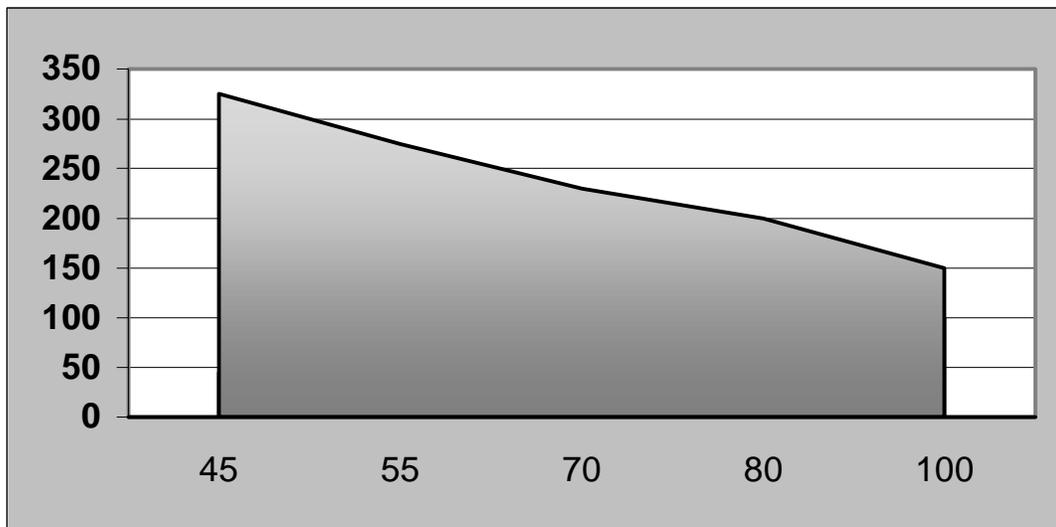
- 10015 High Temperature Gloves (one pair)
- 10020 High Temperature Tape (36 foot roll)
- 10025 OTK-S-120 Thermocouples (5 each)
- 10030 Temperature Indicator Strips (10/pack)

(continued)

The 10015 will protect hands to 400° F while removing the JS-750 from the oven or conveyor belt/track. The 10020 is to be used to attach a 10025 to hard surfaces such as metal, fiberglass or plastics and is usable to 500° F. The 10025 are ten-foot long type K thermocouples with the sensing end beaded and encapsulated in epoxy while the output end is stripped and labeled for direct attached to the data logger. These sensors are Teflon™ jacketed. The 10030 are self adhesive for attachment to the data logger so that the user can see at a glance how hot the data logger is before touching.

**Temperature Profile:** The following time in the oven profiles are based on the starting temperature of the enclosure and its contents being at 25° C and the interior data logger temperature not exceeding 70° C by the end of the oven run.

45 minutes @ 325° C  
55 minutes @ 275° C  
70 minutes @ 230° C  
80 minutes @ 200° C  
100 minutes @ 150° C



Time in Minutes vs. Temperature in °C Profile