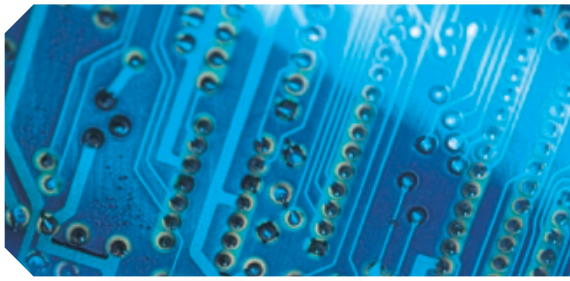
Despatch INDUSTRIES

900 Series Benchtop Temperature Chamber

Small Footprint Packed With Versatility



The 900 Series Benchtop Temperature Chambers are designed for high and low temperature simulation where high performance and close temperature tolerance are required. The units are ideal for small lot qualification testing, burn-in, life test, temperature cycling or research and development. All 900 Series are bench models designed for continuous use with ease of operation and maintenance in mind.

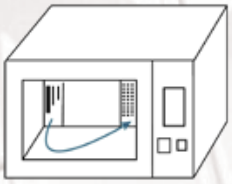
PROGRAMMABLE PROFILING INTERFACE

- Ease of Use: Arrow buttons to change setpoint; Pressing the INFINITY button for two seconds returns you to the Home Page displaying process temperature and setpoint no matter what other mode you are in. Also contains programmable EZ-Keys enabling simple one-touch operation of repetitive user activities.
- Profiling: Ramp and soak programming includes four recipe files of up to 10 steps each; 40 total steps for greater process flexibility. Power interruption feature resumes profile if desired after power restoration. A real time clock allows for automatic oven start up based on a date and time.
- Computer Interface: Controller communication includes EIA 232/485 Modbus® RTU and supports network connectivity to a PC or PLC.

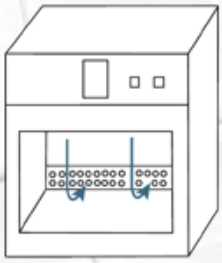
FEATURES AT A GLANCE

- Precision high/low temperature simulation with programmable profiling control
- Superior heating system, five-year heater warranty
- Three-year controller warranty
- Selectable RS232 or RS485 digital communication
- Four recipes of ten steps each (40 programming steps total)
- Unlimited loops to any step
- Choice of coolants
- Three standard sizes

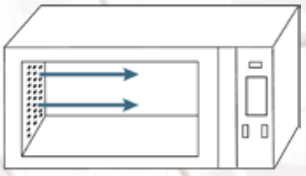
TYPICAL AIRFLOW PATTERNS



Model 924E



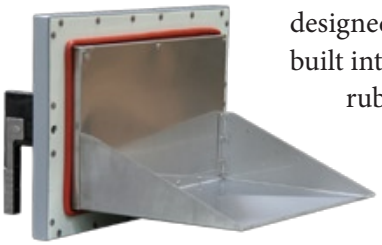
Model 925E



Model 926E

900 SERIES DOOR OPTIONS

Three basic models of doors are offered; Ported with Window, Blank, and Ported Door. All feature durable stainless steel interior, positive latching, removable gaskets and quality construction designed for continuous use. All doors have a shelf built into the door. All ports are provided with a rubber plug. Windows are multi-pane with desiccant material added to prevent internal condensation during low temperature operation.



Ported Window Door

Blank Door

Ported Door

900 SERIES		924E	925E	926E
PHYSICAL SPECIFICATIONS				
Chamber size (width x depth x height)		10 x 10 x 7 in 25 x 25 x 18 cm	14.5 x 11 x 8.5 in 37 x 28 x 22 cm	20 x 14 x 11 in 51 x 36 x 28 cm
Capacity in cubic feet (Liters)		0.4 ft^3 (11.3)	0.78 ft^3 (22.1)	1.78 ft^3 (50.4)
Overall size (width x depth x height)		17.5 x 18.5 x 11 in 44 x 47 x 28 cm	17.5 x 19 x 19.5 in 44 x 48 x 50 cm	35 x 24.5 x 15.5 in 89 x 62 x 39 cm
Approx. Weight		38 lbs. 17 kg	58 lbs. 26 kg	102 lbs. 46.5 kg
FUNCTIONAL SPECIFICATIONS				
Temperature Range		-100 to +525°F -73 to +274°C	-100 to +525°F -73 to +274°C	-100 to +525°F -73 to +274°C
Average Heat-Up Rate (Deg./Min)		72°F 40°C	32°F 18°C	20°F 11°C
Average Cool-Down Rate (Deg./Min)[1]		46°F 26°C	27°F 15°C	41°F 23°C
Temp Control[2]		± 0.25°F ± 0.14°C	± 0.25°F ± 0.14°C	± 0.25°F ± 0.14°C
Live Load Capacity[2]	Watts	500	700	1000
	Temp	-85°F -65°C	-85°F -65°C	-85°F -65°C
Heater Cap. (KW)		2	2	2
Power Draw[3] (Amps)		18	20	20
Air Flow		Horizontal 50 cfm (24 lps)	Vertical 150 cfm (71 lps)	Horizontal 175 cfm (82.51 lps)

Warning: Not for use with flammable or combustible materials. If your process has flammable solvents, contact Despatch.

OPTIONS

- **IEEE488 CONVERTER:** An IEEE488 to RS232C/485 selectable converter bus option may be used to interface between the control and an IEEE488 bus controller. The converter works through the control interface, allowing compete access to all controller parameters.
- **PORTS:** Access ports with plugs may be provided in any specified location on surfaces indicated below.

  924E Top, Bottom, Left Side

  925E Bottom, Both Sides

  926E Top, Bottom

CHOICE OF COOLANT

Each model is available with the following cooling types:

- High pressure (HP) liquid carbon dioxide (CO_2) best for when chamber use is low and cylinder will sit idle for long periods of time.
- Low pressure (LP) liquid carbon dioxide (CO_2) best if chamber usage is high and cylinder will not sit idle.
- Liquid nitrogen (LN_2) gives the most cooling effect per pound and is more inert the CO_2.

In addition optional dual cooling packages are available: HP CO_2/LP CO_2, LN_2/HP CO_2, LN_2/LP CO_2

Footnotes: 1. Cooling Rates are approximate and represent the average rate achieved over the stated temperature range with an empty chamber. Actual cooling rate achieved may vary depending on the temperature range, the type of cooling, the pressure of the gas, and other factors. Additionally, all cooling rates stated are for the condition when the controller is not cycling the gas flow. The controller will slow the rate of cooling as the temperature nears set-point, so as to not overshoot the set-point. 2. At steady state conditions. 3. A three wire 6 ft. (1.8m) power cord is provided (120V single phase).

SERVICE AND TECHNICAL SUPPORT

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