



**LAB4AC-B**

LAB4-AC Automatic Dehydrator 100-240 VAC 50/60 Hz

The LAB4 Automatic Pressurization Dehydrator is designed for reliable pressurization of elliptical waveguide, coaxial cable and rigid transmission line systems. The dehydrator includes a self contained completely automated air drying system that utilizes a pressure swing moisture absorption cycle to provide pressurized dry air. This eliminates the need for replacement or manual reactivation of the desiccant and makes the LAB4 dehydrators ideal for unattended operation at even remote sites. The pressure output is adjustable in the field to operate anywhere between 1 kPa and 6 kPa (0.15 psig and 0.87 psig). A factory set safety valve at 7 kPa (1 psig) protects the products of destruction by over pressure.



**FEATURES / BENEFITS**

- Flow rate up to 300 NI/h
- dew point better than -45°C
- two pumps and two drying chambers running alternatively continuous duty and automatic operation drying chamber automatic regeneration
- microprocessor control low/high pressure, high humidity, power and system failure alarm
- local and remote alarm signalling
- very low power consumption
- low acoustic noise
- mounting: wall, floor, 19" EIA, ETSI N3 rack

**Technical features**

**GENERAL SPECIFICATIONS**

<b>Dehydrator Type</b>		Automatic
<b>System Capacity</b>		Standard
<b>60 Hz Output Capacity NI/h (SCFM)</b>		300 (0.18)
<b>50 Hz Output Capacity NI/h (SCFM)</b>		300 (0.18)
<b>Output Dew Point</b>	°C (°F)	-45 (-49)
<b>Factory Set Output Pressure (on/off)</b>	kPa (psig)	programmable
<b>Field Adjustable Output Pressure (on/off)</b>	kPa (psig)	1 - 6 (0.15 - 0.87)
<b>Field Adjustable Output Pressure Deadband (on/off)</b>	kPa (psig)	nominal output pressure continuously hold
<b>High Pressure Safety Relief Valve</b>	kPa (psig)	7 (1)
<b>Number of Outlets</b>		4
<b>Output Fitting</b>		7 mm (0.28 inch)

**ELECTRICAL SPECIFICATIONS**

<b>Operating Voltage</b>	V	100-240 VAC 50/60 Hz
<b>Pumping Power Consumption</b>	W	55
<b>Idle Power Consumption</b>	W	2

**ENVIRONMENTAL**

<b>Ambient Temperature Range</b>	°C (°F)	-10 to 50 (14 to 122 )
<b>Ambient Humidity Range, relative</b>	%	95

**ALARMS**

<b>Low Pressure Alarm Contacts</b>		Factory included
------------------------------------	--	------------------



External Document Links

[Dehydrator Service Manual](#)

Notes