



LAB4DC-B

LAB4-DC Automatic Dehydrator, 48-60 VDC

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

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

ELECTRICAL SPECIFICATIONS

Operating Voltage	V	48-60 VDC
Pumping Power Consumption	W	55
Idle Power Consumption	W	2

ENVIRONMENTAL

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

ALARMS

Low Pressure Alarm Contacts		Factory included
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External Document Links

[Service Manual](#)

Notes