



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**

Product Type		Automatic Dehydrator	
Model		LAB4DC-B + LAB-AC/DC	LAB4DC-B
max. System Volume @Sea Level	l	600	
Output Capacity	l/h	300	
Output Pressure	kPa (PSIG)	1 - 6 (0.15 - 0.87)	
Output Dew Point	°C	-45	
Number of Outlets		4	
Output Fitting		7 mm	
Noise Level at 3m	dBA	46	
Network Management		optional (SNMP V1) Modelname: LAB4DC-B-ETH	

ELECTRICAL SPECIFICATIONS

Operating Voltage	V	100 - 240 VAC, 50 / 60Hz	48 - 60 VDC
Pumping Power Consumption	W	55	
Idle Power Consumption	W	2	

MECHANICAL SPECIFICATIONS

Dimension H x D x W	cm	13.2 x 20 x 48.2 (13.2 x 28.7 x 48.2 for wall mounting)	
Weight	Kg	6.5	

ENVIRONMENTAL

Ambient Temperature Range	°C	-10 to +50	
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ALARMS

Alarm	Summary alarm provided by internal SPDT (Single Pole Double Throw) relay contacts. (remote alarm) Power and system failure (remote alarm) High pressure alarm (local alarm or by optional snmp protocol) Low pressure alarm (local alarm or by optional snmp protocol) High humidity (local alarm or by optional snmp protocol)		
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LAB4XX-B Series

LAB4XX-B Automatic Dehydrator, 48-60 VDC or 100-240 VAC 50/60Hz

ACCESSORIES

Model Name	Description
TUBE-01-G18	Gas inlet adaptor G 1/8" for 6mm tube
TUBE-01-050M	Polyethylene Tube, max. 8 Bar, 6 x 8 mm, 50m
TUBE-0816	Tube Clamp, 8-16 mm
TUBE-SEAL	Teflon Tape 10mm, 12m

External Document Links
[Service Manual](#)

Notes