



MINILAB-DC

MINILAB-DC Automatic Dehydrator, 48-60 VDC

The MINILAB 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 MINILAB dehydrators ideal for unattended operation at even remote sites. Normally, this is factory adjusted to 2 kPa (0.3.psig), but may be factory readjusted 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 150 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)		150 (0.09)
50 Hz Output Capacity NI/h (SCFM)		150 (0.09)
Output Dew Point	°C (°F)	-45 (-49)
Factory Set Output Pressure (on/off)	kPa (psig)	2 (0.3)
Field Adjustable Output Pressure (on/off)	kPa (psig)	only factory adjustable between 1 to 6 (0.15 to 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		6
Output Fitting		7 mm (0.28 inch)

ELECTRICAL SPECIFICATIONS

Operating Voltage	V	48-60 VDC
Pumping Power Consumption	W	55
Idle Power Consumption	W	2.5

ENVIRONMENTAL

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

ALARMS

Low Pressure Alarm Contacts		Factory included
-----------------------------	--	------------------



MINILAB-DC

MINILAB-DC Automatic Dehydrator, 48-60 VDC

External Document Links

[Dehydrator Service Manual](#)

Notes