

Microwave components for telecommunication systems

High-Precision Machining by Lathes and CNC Centers

PRODUCT DATASHEET

MWLB-MLD

MWLB-MLD Automatic Dehydrator, 48-60 VDC SMALL LAB SOLUTION – 6 Output Ports

The MWLB-MLD Dehydrator is designed for reliable pressurization of 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 MWLB-MLD 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

Product		Dehydrator
Dehydrator Type		Automatic
System Capacity		Standard
Output Capacity @ 60 Hz	NI/h (SCFM)	150 (0.09)
Output Capacity @ 50 Hz	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
Max. Active Power Consumption	W	55.0
Idle Power Consumption	W	2.5

MECHANICAL SPECIFICATIONS

Dimensions, H x W x D	mm (in)	88 x 533 x 190 (3.5 x 21 x 7.5)
Net Weight	kg (lb)	4.2 (8.8)

ENVIRONMENTAL

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

ALARMS

Low Pressure Alarm Contacts		SPDT relay
Low Pressure Alarm		Factory included