

KINTRONIC LABS an ISO 9001 registered company

LAB4.50 and LAB9.50 Automatic Dehydrators

For Air dielectric coaxial cable



Model	LAB4.50-110-220	LAB9.50
Maximum Flow Rate	0.18 CFM (300 l/h)	0.47 CFM (800 l/h)
Output pressure	Factory set at 3 PSI	Factory set at 4.5 PSI
	(programmable from 1.5 – 7 PSI)	(programmable from 1.5 – 8.5 PSI)
Output Air Dew Point	Better than -40° F at 68° F (20° C) ambient temperature and 80% Relative Humidity	
Safety Valve	Factory set at 10 PSI +/-15%	Factory set at 10 PSI +/-10%
Dessicant Regeneration	Automatic by heating	
Regeneration Phase Interval	Adaptive according to plant leakages	
MTBF	Higher than 165,000 h, according to MIL HDBK 217F at Ground Base conditions, 77° F (25°	
	C) ambient temperature, 50% flow rate	
Outlets	6 outlets, each with ON/OFF valve	8 outlets, each with ON/OFF valve
Outlets Fitting	3/8" (9.5 mm) diameter, others on request	3/8" (9.5 mm) diameter, others on request
Mounting	Wall and floor, 19" and ETSI N3 racks	Wall, 19" and ETSI N3 racks
Weight	20 lbs (9 kg)	35 lbs (14 kg)
Power Supply	AC - 110-240 V, 50/60 Hz, OR	110-120 or 220-240 V 50/60 Hz
	DC - 48/60 V	110-120 01 220-240 V, 50/00 112
Local Alarms	Low/high pressure; high humidity; system failures	
Remote Alarms	All alarms are remotely signaled by SPDT Relay	
LED Indications	Power on; Alarms	
Optional Remote Monitoring	Web browser and SNMP	

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ISO 9001:2008(E) QUALITY MANAGEMENT SYSTEM

QF-723-030 Rev. E

2022-06-22

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Description and Features

The LAB4.50-110-220 and LAB9.50 dehydrators achieve reduced mechanical wear and noise, and therefore, a long lifetime through their adaptive flowrate feature, dual compressors and drying chambers, and the fact that there are no moving mechanical parts in the system. Pump speed control avoids mechanical pressure regulators, thus eliminating undesirable pressure losses and a worse response to plant air flow regulation. Two drying chambers contain the desiccant and dry the airstream by absorption process. The chambers operate on alternate cycles so while the first chamber is active, the desiccant in the second chamber is regenerated

through heating and backwashing with a small reverse dry air flow. This technology reduces the overall power consumption. The Pulse Width Modulation (PWM) controls the pump, adapting the flow rate to the real time leakage rate. This also contributes to the lower power consumption and very high MTBF. **NO** preventive maintenance is required.

Power supply and alarm remote connectors, outlets with hose-tail fittings are included on the rear panel. **Optional Features:**

- Remote control through SNMP protocol and HTTP interface by a 10/100 Mbit Ethernet interface
- Digital flowmeter that displays real-time leakage rate on front LCD display panel

Dimensions	LAB4.50-110-220	LAB9.50
Wall Mounting	W: 19.2" (487 mm)	W: 19" (482 mm)
	H: 5.2" (132 mm)	H: 12.2" (310 mm)
	D: 14.2" (360 mm)	D: 9" (230 mm)
19" rack mounting	H: 3U D: 10.2" (260 mm)	W: 19" (482 mm)
		H: 12.2" (310 mm)
		D: 5.9" (150 mm)
ETSI – N3 mounting	H: 6U D: 10.2″ (260 mm)	W: 21" (533 mm)
		H: 12.2" (310 mm)
		D: 5.9″ (150 mm)





- 1 DRYING CHAMBER
- 2 HEATER
- 3 PUMP
- 4 AIR BACKWASHING HOLE
- 5 HUMIDITY PROBE
- 6 DIGITAL PRESSURE GAUGE
- 7 RELIEF VALVE
- 8 SHUT OFF VALVE
- 9 DRY AIR OUTLET
- 10 FLOW METER (OPTIONAL)
- 11 ONE-WAY VALVE

LAB9.50 Schematic

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