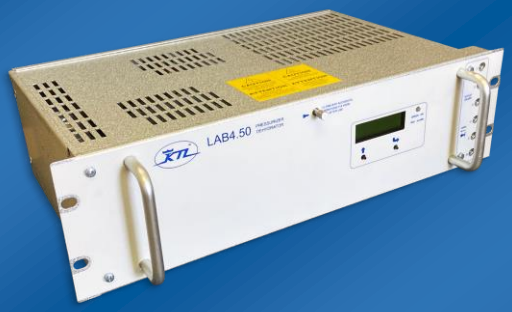
KINTRONIC LABS

an ISO 9001 registered company

LAB4.50 and LAB9.50 Automatic Dehydrators

For Air dielectric coaxial cable



Model	LAB4.50	LAB9.50
Maximum Flow Rate	254 SCFD (300 l/h)	678 SCFD (800 l/h)
Output pressure	Factory set at 3 PSI (programmable from 1.5 – 7 PSI)	Factory set at 4.5 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 DC - 48/60 V	110-120 or 220-240 V, 50/60 Hz
Local Alarms	Low/high pressure; high humidity; system failures	
Remote Alarms	All alarms are remotely signaled by SPDT Relay	
Low Pressure Alarm	Factory set at 1.5 PSI; programmable from 0.5	
High Pressure Alarm	Factory set at 8.5 PSI; programmable up to 10 PSI	Factory set at 9 PSI; programmable up to 10 PSI
High Humidity Alarm	Set at 10% of relative humidity +/- 2%	
LED Indications	Power on; Alarms	
Optional Remote Monitoring	Web browser and SNMP;	
Standard Measures	Air pressure; hour meter (OPTION: air flow by digital flow meter)	

 ISO 9001:2008(E) QUALITY MANAGEMENT SYSTEM *QF-723-030 Rev. E* *2022-07-13*

MAILING ADDRESS: PO Box 845, Bristol, TN 37621-0845

PHONE: +1 423 878-3141 **e-mail:** KTL@kintronic.com **website:** www.kintronic.com

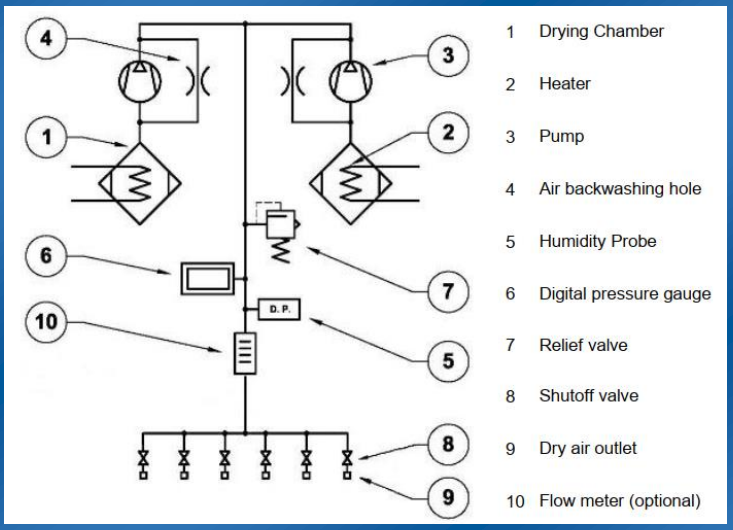
Description and Features

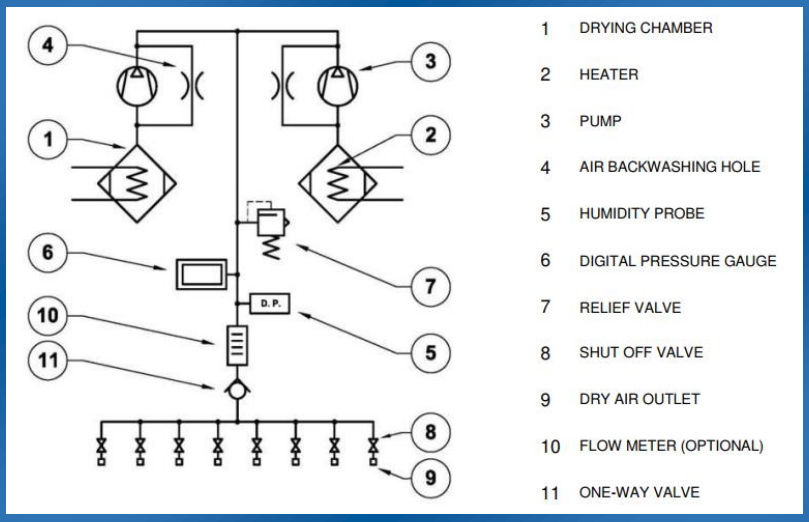
The LAB series dehydrators are programmed to maintain a single target pressure level. The unit is comprised of two alternating diaphragm pumps that are driven to operate below their maximum flow rate. While the first chamber is active, the desiccant in the second chamber is regenerated through heating and back-washing with a small reverse dry air flow. The pumps are controlled electronically by Pulse Width Modulation (PWM), supplying a flow rate equivalent to the real time leakage rate. With the PWM control, there is an imperceptible vibration of the diaphragm pump. Maintaining the target pressure level eliminates the need for a pressure regulator, which means no pressure losses and an overall better response to flow regulation. Through this design, the dehydrator avoids the stress of continuously switching on at maximum speed and then switching off. Additionally, there are no mechanical parts in movement (except the diaphragm pumps) and no solenoid valves, thus reducing overall wear. The result is an increased MTBF and overall lifetime of the unit, as well as reduced noise and power consumption.

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	LAB9.50
Wall Mounting	W: 19.2” (487 mm) H: 5.2” (132 mm) D: 14.2” (360 mm)	W: 19” (482 mm) H: 12.2” (310 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)





MAILING ADDRESS: PO Box 845, Bristol, TN 37621-0845

PHONE: +1 423 878-3141 **e-mail:** KTL@kintronic.com **website:** www.kintronic.com