KINTRONIC LABS
an ISO 9001 registered company

LAB4 Dehydrator
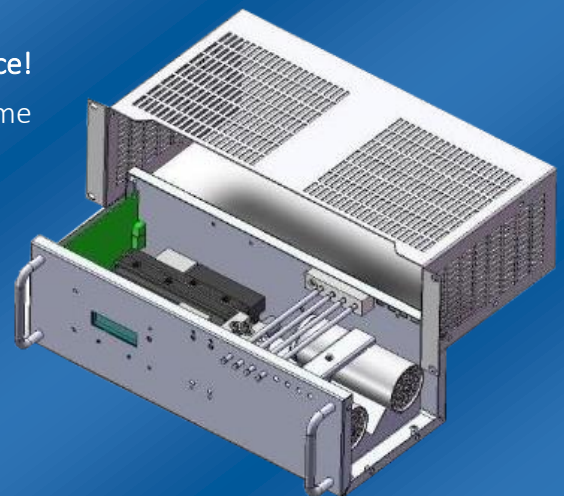### *for Waveguide & Coaxial Transmission Line*

LAB4 Features

- Designed for continuous operation and automatic duty
- Dry air is vented by four or eight standard individual air outlets with hose-tail fittings accessible from the back side of the equipment. Each outlet has an independent shutoff valve.
- Air is dried through absorption by granular substances in two drying chambers – while one chamber dries the other one is regenerated by heating and backwashing with a reverse dry air flow
  - The electronic microprocessor board controls drying cycles and adjusts the cycle's duration according to plant air needs
- Air is compressed by two diaphragm pumps
- A FUNDAMENTAL feature of the LAB4 is the continuous tracking of output pressure through the Pulse Width Modulation (PWM) technique. PWM optimizes the pump's duty, power consumption and acoustic noise by controlling pump speed
  - Pump speed control eliminates the need for mechanical pressure regulators that introduce undesirable pressure losses and a worse response to flow needs
- No need for pre-settings nor warmup time before start up
- **MTBF: 165,000 hrs = 8,760 per year = 19 years without maintenance!**
- The LAB4 does <u>not</u> need preventive maintenance during its lifetime

DIMENSIONS:

19" Rack Mounting: 5.2" H x 19" W x 9.4" Depth
 (132 mm H x 482 mm W x 238 mm Depth)
ETSI - N3 Rack Mounting: 5.2" H x 21" W x 9.4" Depth
 (132 mm H x 533 mm W x 238 mm Depth)
Wall & Floor Mounting: 5.2" H x 19" W x 11" Depth
 (132 mm H x 482 mm W x 278 mm Depth)

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Front & Rear Panel Devices

Front Panel	Rear Panel
• 0.8" x 6" LCD Display • 2 Functional keys to 1) scroll and 2) switch settings • 1 bi-color *Power On* and *Alarms* LED • Shut-off outlet valves	• Power Supply connector • Remote Alarm connector • Outlets with hose-tail fittings according the equipment configuration

LAB4 Specifications

Output Pressure	Programmable from $0.15 - 0.9$ psig ($1 - 6$ kPa)
Max. Flow Rate	0.18 CFM (300 l/h)
Safety Valve	Factory set at 1.02 psig (7 kPa) $\pm$ 10%
Output Air Dew Point	Better than -49° F (-45° C), at 68° F (20° C) ambient temperature, 80% relative humidity
Desiccant Regeneration	Automatic by heating
Regeneration Phase Interval	Adaptive according to plant leakages
Local Alarms	Power & system failures; low/high pressure; and high humidity
Remote Alarms	The summary alarm is remotely signaled by an SPDT relay
Optional Remote Monitoring Interface	10/100 BaseT ethernet, auto-sensing with the following protocols: HTTP, TCP/IP, SNMP, TFTP, FTP, Telnet, DHCP
Outlets	4 outlets standard (8 outlets available at additional cost)
Low Pressure Alarm	Factory set at 0.15 psig (1 kPa), programmable from 0.07 psig (0,5 kPa)
High Pressure Alarm	Factory set at 0.9 psig (6 kPa), programmable up to 1.02 psig (7 kPa)
High Humidity Alarm	Set at 10% of relative humidity $\pm$ 2%
Standard Measures	Air pressure, Hour meter
Optional Measures	Digital flow meter, pump rate
Acoustic Noise	$\leq$ 50 dBA at 3.2 ft (1 m) distance and 5 ft (1,5 m) height
Enclosure Degree of Protection	IP20 according to IEC529
Operating Temperature	$14 - 122^\circ$ F (-10° C / $+50^\circ$ C)
Storage Temperature	$-22 - 140^\circ$ F (-30° C / $+60^\circ$ C)
Power Supply	48/60 Vdc (110-240 Vac with added adaptor kit)
Power Consumption	$\leq$ 3 W normal operation $\leq$ 55 W regeneration phase
Weight	About 14.3 lbs (6,5 kg)
Outlet Fittings	3/8" (9,5 mm) diameter (other fittings on request)

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