

KINTRONIC LABS

an ISO 9001 registered company

MINILAB Dehydrator

for Waveguide Transmission Line



MINILAB Features

- Designed for continuous operation and automatic duty
- Dry air is vented by six 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
 - o 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 MINILAB 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, and improves the dehydrator's reliability, by controlling pump speed
 - o 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 MINILAB does not need preventive maintenance during its lifetime

DIMENSIONS:

19" Rack Mounting: 3.5" H x 19" W x 7.5" Depth

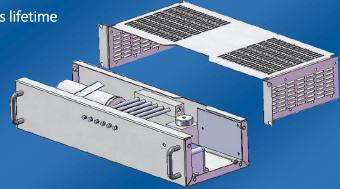
(88 mm H x 482 mm W x 190 mm Depth)

ETSI - N3 Rack: 3.5" H x 21" W x 7.5" Depth

(88 mm H x 533 mm W x 190 mm Depth)

Wall-Floor Mounting: 3.5" H x 19" W x 8.5" Depth

(88 mm H x 482 mm W x 216 mm Depth)



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Front & Rear Panel Devices

Front Panel Rear Panel

- Power On and Alarms LED
- 6 on/off outlet valves

- Power Supply connector
- Remote Alarm connector
- Outlets with hose-tail fittings

MINILAB Specifications	
Output Pressure	Factory set at 0.3 psig (2 kPa), on request 0.15 – 0.9 psig (1 – 6 kPa)
Max. Flow Rate	1 CFM (150 NI/h)
Safety Valve	Built-in, factory set at 1.02 psig (7 kPa)
Output Air Dew Point	Better than -49° F (-45° C) at typical ambient temperatures
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	All the alarms are remote-controlled by SPDT relay
Optional Remote Monitoring	10/100 BaseT ethernet, auto-sensing with the following protocols:
Interface	HTTP, TCP/IP, SNMP, TFTP, FTP, Telnet, DHCP
MTBF	Greater than 165,000 hours, according to MIL HDBK 217F at ground
	base conditions, 77° F (25° C) ambient temp., 50% flow rate
Acoustic Noise	≤ 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°F (-10° / +50°C)
Storage Temperature	-40 – 158° F (-40° C / +70° C)
Power Supply	100 – 240 VAC, 50/60 Hz
Power Consumption	< 2.5 W (at steady state without system leakage)
	< 55 W (max during regeneration phase)
Weight	9.3 lbs (4,2 kg)
Outlet Fittings	3/8" (9,5 mm) diameter (other on request)
Waveguide TX Line Lengths	6-12 GHz waveguides: 0 – 27,887 ft (0 – 8500 m)
	4-5 GHz waveguides: 0 – 14,108 ft (0 – 4300 m)

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ISO 9001:2008(E) QUALITY MANAGEMENT SYSTEM

2017-02-09

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