Indoor Dehydrator Kit 7581535

DEHYDRATOR

This automatic indoor dehydrator supplies low pressure dry air to protect the waveguide lines and feeds from moisture and condensation. The dehydrator air drying canisters use aluminum oxide desiccant for high efficiency. The humidity sensor signals for regeneration based upon current dew point rather than at fixed time intervals for additional energy savings and long desiccant life.

The automatic dehydrator is Ethernet network ready and can be configured and monitored using either built in SNMP support or the web interface.

Operational monitoring and alarms are software based making them highly configurable in the field and future software features can be installed while in service over the internet or local Ethernet network.

Legacy system support is provided via RS-422/485 or RS-232; Communicated operational information includes output pressure, duty cycle, temperature, compressor hours and air drying canister status.

P/N 7581535 BOM:

- One Indoor automatic dehydrator
- 250 FT of Black polyethylene tubing, 3/8" OD
- Two straight compression brass connectors 1/8"NPT to 3/8"OD
- One elbow compression brass connector 1/8"NPT to 3/8"OD
- One Teflon tape

Features

- Provides dry pressurized air to ensure signal quality of antenna waveguide and feeds and OMTs.

- Programmable operating pressure range: 0.10 - 7.50psig (7mbar - 517mbar).

- Remote monitoring and control with web interface or SNMP. Ethernet, RS-422/485, RS-232 and 3 programmable alarm relay outputs for compatibility with nearly any system

- Master/slave configuration

- Brushless compressor for long life

- Low energy use minimizes operational costs

- Quiet operation, exceptionally low noise and vibration levels

- Flexible installation options for rack mount or wall mount)

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Specifications	
Regeneration Method	Automatic, demand
Maximum dew point	-40° F/C

Options	
Flow rate	25.4 scfh (12 lpm)
Maximum pressure	7.5 psig (517mbar)
Internal safety relief valve	8 psig (552mbar)
Discharge port	1/8" NPT 3/8" or 1/4" hose barb (both included)
Display units	SI (millibars); English (psig), default

Control	
Protocols	HTTP (Web Interface), SNMP, UDP, TFTP
Maximum pressure	Configurable Range: 0.20 psig - 7.5 psig (14mbar - 517mbar), Default: 0.50 psig (34.5mbar)
Minimum pressure	Configurable Range: 0.10 psig - 7.4 psig (7mbar - 510mbar), Default: 0.30 psig (21mbar)
Low pressure alarm level	User Configurable, Default: 0.15 psig (10mbar)
High pressure alarm level	User Configurable, Default 1.5 psig (103.5mbar)
Alarm relays	Contact Type - Form C, SPDT, reverse acting Ratings - 0.25 Amps @ 60 V User configurable, Defaults — Alarm Relay 1: Summary Alarm, Alarm Relay 2: Low Pressure Alarm, Alarm Relay 3: Over Pressure Alarm
Duty cycle alarm	User Configurable, Default: 50%
Master/Slave configuration	User configurable, Default: Standard/Slave

Primary Power Requirement	
Power Supply	100-240 VAC, 50/60 Hz
Maximum current	1.0 Amps at 100 V
Power usage	40 W typical, 100 W max
Heat dissipation	100 BTU/hr typical, 325 BTU/hr max

Environmental	
Operating Temperature	-40°F to 130°F (-40°C to 55°C)
Storage Temperature	-40°F to 150°F (-40°C to 60°C)

Physical	
Enclosure Dimensions	17" w × 12"d × 5.25" h (432mm × 305mm × 133mm)
Weight	16 lbs (7.26 kg)
Mounting	Dual-post rack, flush mounted
Approvals	CE [C-UL-US] Type 1950 Information Technology Equipment Also evaluated by Underwriters Laboratories Inc® In accordance with IEC Publication 950

Shipping Weight (typical)	
Domestic Packaging	21 x 17 x 8 inches, weight - 22 lbs
International Packaging	27 x 25 x 11 inches, weight - 28 lbs

Handling Capacity

5% Duty Cycle Pressurization Rates

	Cubic Feet Per Hour	Cubic Feet Per Minute
	25.4	0.423)

Volume Capacities		
	0.5 PSI	3900 liters
	3.0 PSI	3000 liters
	6.0 PSI	2300 liters

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