

# Outdoor Dehydrator Kit 7581534

This automatic outdoor dehydrator supplies low pressure dry air to protect the waveguide lines and feeds from moisture and condensation and is housed in an environmentally sheltered IP66, NEMA 4X enclosure.

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 7581534 BOM:

- One Outdoor automatic dehydrator
- 25 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



## 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
- Temperature control allows operation at -40°F (-40°C)

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DEHYDRATOR

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

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 type	Hoffman® POLYPRO® Polyester Type 4X
Protection	IP66, NEMA 4X
Cover Attachment	Hinged, lockable
Enclosure Dimensions	15.31" × 18.06" × 9.25" (389mm × 459mm × 235mm)
Entries	1 × 0.88" (22mm) entry for supply power 2 × 0.63" (16mm) entry for dry pressurized air and condensate discharge
Weight	24 lbs (10.9 kg)
Mounting	Wall, post/pole or shelf 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	23 x 23 x 17 inches, weight - 30 lbs
International Packaging	23 x 23 x 17 inches, weight - 30 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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