



**The DRALLIM Waveguide Dehydrator Type 12435 has been designed specifically for supplying low pressure dry air to Waveguides and Aerial feeders.**

It is an energy saving integrated unit which occupies only three units (133mm) of panel space within a 19" equipment rack.

The Dehydrator utilises a well proven heatless reactivation system capable of supplying dry air at a dewpoint of -35°C via three outlets to which 1/4" OD tubing can be connected. Adaptors are available if this size is not to user requirements.

An automatic wet air by-pass facility is provided such that any insufficiently dried air is directed to atmosphere and prevented from entering the waveguide/aerial.

The inclusion of an air storage vessel allows for a regulated flow of air to the outputs with the capacity to produce in excess of 5 cu.ft/hr. The compressor does not run continuously, nor "hunt" in operation, as a reserve of air is always available.

Installation is straightforward. The only user adjustment necessary is the setting of the output pressure regulator and connection to the waveguide itself. All controls are located on the front panel.

The provision, at the rear of the equipment, of an alarm output connector enables external monitoring of low pressure, high humidity and mains failure conditions.



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**WAVEGUIDE  
DEHYDRATOR  
TYPE 12435**

*DATA SHEET*



## PRODUCT SPECIFICATION

<b>1</b>	<b>Environmental Considerations</b>	<b>3</b>	<b>Dry Air Output</b>
Operating Voltage	230V A.C. 50Hz single phase Removable mains lead and plug supplied.	Pressure	0.5 - 5.0 psi controlled by front panel mounted tamperproof (relieving type) regulator.
	Current consumption – maximum: 1.5A	Flow	5 ft <sup>3</sup> /hr at any set output pressure.
Temperature	Ambient operating temp. 0 to 45°C (32-113°F)	Dewpoint	Better than -35°C.
Dimensions	482mm wide x 133mm high x 378mm deep.	Connection	3 male output bulkhead couplings, intended for 6.35mm (1/4") OD flexible hose, Supplied with 3 off union nuts and 2 blanking plugs.
Fixings	To suit 19" equipment rack in standard 3U space.	<b>4</b>	<b>Alarm Indication</b>
Mass	18kg	Visual	High Humidity (Red) i.e. output being bypassed to atmosphere. Low Output pressure.
<b>2</b>	<b>Operational Features:</b>	Extended	"D" type connector provided to enable remote indication of all normally open and normally closed volt free contacts provided for each of: a. Mains Fail b. High Humidity (vessel/w.guide not filling) c. Low Output Pressure
Compressor	1/16 HP diaphragm pump (50psi max.) Stop/start pressure 10 - 20 psi.	<b>5</b>	<b>Monitoring/Control</b>
Air Drier	Twin bed heatless pressure reactivated adsorption type. Each bed on line 1 min / regenerating 1 min. Automatic changeover by electro-mechanical process timer with memory. Desiccant, grade 4A molecular sieve, 3-5mm. Inlet and outlet filtration by sintered 35 micron bronze filters at each drier bed port. Output dewpoint detection circuit with associated indication facilities	Electrical	Combined on/off switch/lamp and circuit breaker. Total running hour meter to indicate compressor usage, permanent LCD display
Humidity Detection	Automatic bypass to atmosphere of any insufficiently dried air. Set to operate at -18°C Fail safe operation	Pneumatic	"Output" pressure gauge 0-15 psi. Tamperproof precision output regulator (accurate within 10mbar over operational range of equipment).
Dry Air Storage	Internal moulded polyethylene air storage vessel provides a 0.7 litre reserve of dry air. Moulded from flame retardant material.		