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An ISO 9001:2008 Approved Company Registered Office: Rgistered in England No.606278 WAVEGUIDE DEHYDRATOR TYPE 12447

DATA SHEET

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## 12447-waveguide-dehydrator



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Alarm Indication:

PRODUCT S	SPECIFICATION	Visual	Multi-chip LEDs with current limiting resistors. Receiver Filling/Dry (Green) Receiver Not Filling/Wet (Red)
1	Environmental Considerations:		ie output being bypassed to atmosphere. Running command (Amber) neon
Operating Voltage	230V A.C. 50Hz single phase. 2 metre Mains lead and plug supplied (outlet at top of equipment). Current consumption: -2.9A upon start-up only -1.0A running current. Rating plate affixed to equipment.		ie compressor should be active. Low Output pressure (Red neon) adjustable, factory set at approx. 1.0 psi. High Output pressure (Red neon) adjustable, factory set at approx. 4.5 psi. High Output Flow (Red) adjustable throughout range of individual output flowmeters
Temperature	Ambient operating temp. 0 to 38°C (32-100°F).		5 or 10 fitted dependant upon number of outlets.
Dimensions	443mm wide x 1060mm high x 330mm deep.	Extended	15 Way "D" type connector provided (at top of equipment) to enable remote indication of alarms;
Installation	Floor standing.		contacts provided for each of:
Mass	56kg.		a. Mains Fail
Noise Level	typically 60dBA maximum at 1 metre, all planes.		<ul> <li>b. High Humidity (vessel/w.guide not filling)</li> <li>c. Low Output Pressure</li> <li>d. High Output Pressure</li> </ul>
2	Operational Features:		e. High Output Flow
Compressor	1/3HP rocking single cylinder piston Compressor (100psi max). Stop/ctart pressure 32 - 65 psi	5	Monitoring/Control:
	Minimal transmission of vibration, compressor	All controls are site	d toward the top of the front face of the unit
	Safety relief valve fitted to protect equipment against overpressure. Intake filter fitted with replaceable element.	Electrical	Combined on/off switch/lamp and circuit breaker incorporating thermal protection rated at 10A. Total running hour meter to indicate compressor
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 and test facilities.	Pneumatic	LOW output pressure alarm lamp. HIGH output pressure alarm lamp. Receiver FILLING lamp. Receiver NOT FILLING lamp. High Output Flow lamps (one per outlet). RUNNING COMMAND lamp indicating when compressor should be running. 63mm dia. "Compressor" pressure gauge 0- 150psi (liquid filled).
Humidity Detection	Automatic bypass to atmosphere of any insufficiently dried air. Set to operate at -20°C/reset at -25°C. "Brown" colour coded humidity sensing element. Fail safe operation.		63mm dia. "Receiver" pressure gauge 0-160psi. 63mm dia. "Output" pressure gauge 0-15 psi. Individual flow indicators 0-350 litres/hour (5 or 10) with stop valves. Tamperproof precision output regulator (accurate within 10mbar over operational range of equipment). Non-return valve fitted to each output to prevent cross-feeding.
Dry Air Storage	Provides a 12.5 litre reserve of dry air. Safety relief valve set at 102psi with integral ring	6 Test Fac	cilities:
	Fitted with ¼ turn drain ball valve.	Element Check	A momentary pushbutton switch introduces un- dried compressor air to the sensing element to check operation of the humidity sensor
3	Dry Air Output:	Circuit Chook	
Pressure	0.5 - 7.0 psi controlled by front panel mounted tamperproof (relieving type) regulator.	Circuit Check	electrically test humidity detector circuitry. Tester Humidity Detector 1A compatible via test jack sockets located internally.
Flow	35 ft <sup>3</sup> /hr (16.5 litres/min) at any set output pressure.	Override	Momentary pushbutton enabling the compressor to
Dewpoint	Better than -40°C.		carried out on the humidity detector without waiting for receiver pressure to drop.
Connection	5 or 10 male output bulkhead couplings, intended for 6.35mm (1/4") OD flexible hose, situated at the top of the equipment. Each protected by an individual non-return valve to prevent cross- feeding and leakage.		
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