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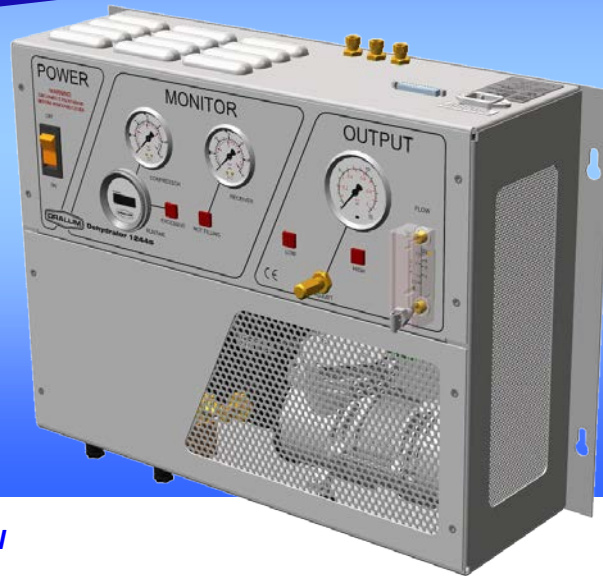
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An ISO 9001:2008 Approved Company  
Registered Office: Registered in England No.606278

## WAVEGUIDE DEHYDRATOR TYPE 12445/S

DATA SHEET



## PRODUCT SPECIFICATION

<b>1</b>	<b>Environmental Considerations</b>	<b>3</b>	<b>Dry Air Output</b>
Operating Voltage	(1) 230V A.C. 50Hz single phase (2) 115V A.C. 60Hz single phase Removable mains lead and plug supplied.  Current consumption – maximum: 1.3A (230V 50Hz). 3.0A (115V 60Hz).	Pressure	0.5 - 5.0 psi controlled by front panel mounted tamperproof (relieving type) regulator.
Temperature	Ambient operating temp. 0 to 38°C (32-100°F)	Flow	5 ft <sup>3</sup> /hr at any set output pressure.
Dimensions	500mm wide x 380mm high x 159mm deep.	Dewpoint	Better than -35°C.
Fixings	Wall mounting. Mounting Template supplied. Slots provided either side for attachment to wall or other flat/even surface. Brackets extend 25mm either side.	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.
Mass	17kg	<b>4</b>	<b>Alarm Indication</b>
Noise Level	Typically 62 dBA at 1 metre	Visual	High Humidity (Red) ie output being bypassed to atmosphere. Low Output pressure (Red) adjustable, factory set at approx. 0.5 psi. High Output pressure (Red) adjustable, factory set at approx. 4.5 psi. Excessive runtime alarm, user adjustable between 0.1 sec and 10 hours.
<b>2</b>	<b>Operational Features:</b>	Extended	25 Way "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 d. High Output Pressure e. Excessive Runtime
Compressor	1/16HP diaphragm pump (50psi max.) Stop/start pressure 10 - 20 psi. Safety relief valve (set at 60psi) fitted to protect equipment against overpressure.  Minimal transmission of vibration - compressor fitted via rubber mounts.	<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 incorporating thermal protection rated at 5.0A 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	"Compressor" pressure gauge 0-60psi. "Receiver" pressure gauge 0-60psi. 63mm dia. "Output" pressure gauge 0-15 psi. Total flow indicator 0.5-10 cu.ft/hr. 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.		