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

DATA SHEET

The Drallim Group Leading innovators in technology and quality

TDS_12447_Issue 01



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Alarm Indication:

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DDODUOT		Visual	Multi-chip LEDs with current limiting resistors.
PRODUCT SPECIFICATION			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		ie compressor should be active. Low Output pressure (Red neon) adjustable,
U	(outlet at top of equipment). Current consumption: -2.9A upon start-up only		factory set at approx. 1.0 psi. High Output pressure (Red neon) adjustable,
	-1.0A running current.		factory set at approx. 4.5 psi. High Output Flow (Red) adjustable throughout
	Rating plate affixed to equipment.		range of individual output flowmeters 5 or 10 fitted dependant upon number of outlets.
Temperature	Ambient operating temp. 0 to 38°C (32-100°F).		
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.		both normally open and normally closed volt free contacts provided for each of:
Mass	56kg.		a. Mains Fail
Noise Level	typically 60dBA maximum at 1 metre, all planes.		b. High Humidity (vessel/w.guide not filling)c. Low Output Pressured. High Output Pressure
2	Operational Features:		e. High Output Flow
Compressor	1/3HP rocking single cylinder piston Compressor		
	(100psi max). Stop/start pressure 32 - 65 psi.	5	Monitoring/Control:
	Minimal transmission of vibration, compressor fitted via rubber mounts.	All controls are site	ed toward the top of the front face of the unit
	Safety relief valve fitted to protect equipment against overpressure.	Electrical	Combined on/off switch/lamp and circuit breaker
	Intake filter fitted with replaceable element.		incorporating thermal protection rated at 10A. Total running hour meter to indicate compressor
Air Drier	Twin bed heatless pressure - reactivated		usage, permanent LCD display. LOW output pressure alarm lamp.
	adsorption type. Each bed on line 1 min/regenerating 1 min.		HIGH output pressure alarm lamp. Receiver FILLING lamp.
	Automatic changeover by electro-mechanical		Receiver NOT FILLING lamp.
	process timer with memory. Desiccant, grade 4A molecular sieve, 3-5mm.		High Output Flow lamps (one per outlet). RUNNING COMMAND lamp indicating when
	Inlet and outlet filtration by sintered 35 micron bronze filters at each drier bed port.		compressor should be running.
	Output dewpoint detection circuit with associated indication and test facilities.	Pneumatic	63mm dia. "Compressor" pressure gauge 0-
			150psi (liquid filled). 63mm dia. "Receiver" pressure gauge 0-160psi.
Humidity	Automatic bypass to atmosphere of any		63mm dia. "Output" pressure gauge 0-15 psi. Individual flow indicators 0-350 litres/hour (5 or 10)
Detection	insufficiently dried air. Set to operate at -20°C/reset at -25°C.		with stop valves. Tamperproof precision output regulator (accurate
	"Brown" colour coded humidity sensing element.		within 10mbar over operational range of
	Fail safe operation.		equipment). Non-return valve fitted to each output to prevent
Dry Air Storage	Internal welded steel air storage reservoir		cross-feeding.
2., ,	Provides a 12.5 litre reserve of dry air.		
	Safety relief valve set at 102psi with integral ring pull.	6 Test Fa	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:	Cinewit Cheels	
Pressure	0.5 - 7.0 psi controlled by front panel mounted tamperproof (relieving type) regulator.	Circuit Check	"Wet" and "Dry" circuit check pushbuttons to electrically test humidity detector circuitry. Tester Humidity Detector 1A compatible via test jack sockets located internally.
Flow	35 ft ³ /hr (16.5 litres/min) at any set output pressure.	Override	Momentary pushbutton enabling the compressor to
Dewpoint	Better than -40 °C.	5.0.140	run continuously so that, for example, tests may be carried out on the humidity detector without
Connection	5 or 10 male output bulkhead couplings, intended		waiting for receiver pressure to drop.
	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.		