

# GTEK AUTOMATION

A Division of Pacific Air Engineering, Inc.

## ADSORPTION AIR DRYER

### TECHNICAL DATA

Part Number:		
Power Requirements:	115 VAC 50/60 Hz	220 VAC 50/60 Hz
Max Air Output:	8.93 CFM (250 LPM)	
Operating Pressure:	120 PSI (8 BAR)	
Dewpoint:	-4 Degrees F (-20 Degrees C)	
Temperature Range:	41-113 Degrees F (5-45 Degrees C)	
Port Size:	3/8" NPS	
Actual Dimensions: (L x W x H)	7.9" x 3.9" x 24.4" (200mm x 100mm x 620mm)	
Shipping Weight:	9.92 Lbs (4.5 Kg)	



**\* Features Include: Intermittent Regeneration Cycle, Performing Dewpoint, No Air Waste & Easy Maintenance.**

How it works: The dryer is composed by three parts: inlet connection with a 5 micron filter, aluminium column filled with a bed of desiccant material, outlet with a filters battery. In the bottom side of the column, an electrovalve controls the water draining and the bed regenerating. The working principle is based on the adsorption effect performed by the bed of desiccant material while it is crossed by the air flow. During its flowing from the bottom side of the column to the upper, the air progressively loses its moisture captured by the desiccant spheres and when it gets the top, it has no more humidity. During this process the desiccant bed is capturing more moisture on its bottom side and less on the upper. When the motor stops running, also the air flow stops and the column is full of compressed air; in the same event the electrovalve opens and the compressed air contained in the column is released outside, forming a new flow to the column bottom. In this movement, the desiccant bed is crossed by air with a humidity rate progressively decreasing and it releases the captured moisture. Pushed by the differential humidity rate, by the flow action and by the gravity force, the water is collected on the bottom side of the column and purged outside and the desiccant material regenerates its adsorption property.

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