

DRYSPELL PLUS

HEATLESS REGENERATIVE DESICCANT AIR DRYERS

Pneumatic*Plus*

Mailing Address:
4733 Torrance Blvd #902
Torrance, CA 90503

Warehouse Address:
1330 E. 223rd St # 505
Carson, CA 90745

Phone: (800) 658-3579
Email: Support@pneumaticplus.com
Mon-Fri 9:00am to 5:00pm

PRODUCT NAME : DRYSPELL PLUS
MODEL : DRYSPELL PLUS 250
ITEM CODE : PD212 (without Cover & Includes external Pre - Filter)

1. SPECIFICATIONS

Flow : 250 scfm
Maximum Operating Pressure : 16 bar (g) (232 PSI (g))
Rated Air Inlet Temperature : 38° C (100 F) (ISO:7183-1986 (E)) rated Dewpoint
Rated Operating Pressure : 7 bar (g) (101.5 PSI (g))
Recommended External Pre-Filter Rating: 0.01 Microns (ISO: 8573-1:2010 (E) Class 1)
Cycle Time : 4 Minutes
Operating Voltage : 100-240 VAC 50/60 Hz 1 Ph
Dew Point : -40° C (-40° F) PDP (ISO: 8573-1:2010 (E) Class 2)
End Connections : 1 1/2" NPT
Purge Loss : 15±1%
Noise Level : <70 dBA
Pressure Drop : <0.3 bar (g) (<4.3 PSI (g))

2. TECHNICAL DATA

2.1 ADSORBER DATA

Type of adsorbent : Mixed Bed of Activated Alumina & Molecular Sieves
Adsorber Shell : Aluminum IS 63400
Top & Bottom Block : Aluminum IS 63400

2.2 PROCESS DATA

Description	Purge Optimizer			
	100%	80%	60%	40%
Cycle Time (min)	4	4	4	4
Drying Time (min)	2	2	2	2
Regeneration Time (Sec)	90	72	54	36
De-pressurization time (sec)	30	48	66	84

3. FILTER DATA

3.1 Standard with all units

Internal Built In After Filter Micron Rating : 25 Micron (ISO:8573-1:2010 (E) Class 5)

3.2 Included with Item Code PD212

External Pre-Filter Particle Removal Rating	: 0.01 Micron (ISO:8573-1:2010 (E) Class 1)
Pre- Filter Oil Removal Rating	: 0.01 mg/m ³ (ISO:8573-1:2010 (E) Class 1)
Filtering Media	: Borosilicate Microfiber Glass
Efficiency	: 99.9%

3.3 Optional for all Units

External Post- Filter Particle Removal Rating	: 1 micron (ISO:8573-1:2010 (E) Class 2)
Post-Filter Oil Removal Rating	: 0.5 mg/m ³ (ISO:8573-1:2010 (E) Class 3)

4. ELECTRICAL DATA

Controller	: Custom Made Micro-Processor Based
Make	: Trident
Input Voltage	: 100-240 VAC 50/60 Hz 1 Ph
Output	: 24VDC
Display	: LED Indication for Drying, Re-Pressurization & Drain
Enclosure	: IP55 Protection
Certification	: cUL USA Marking

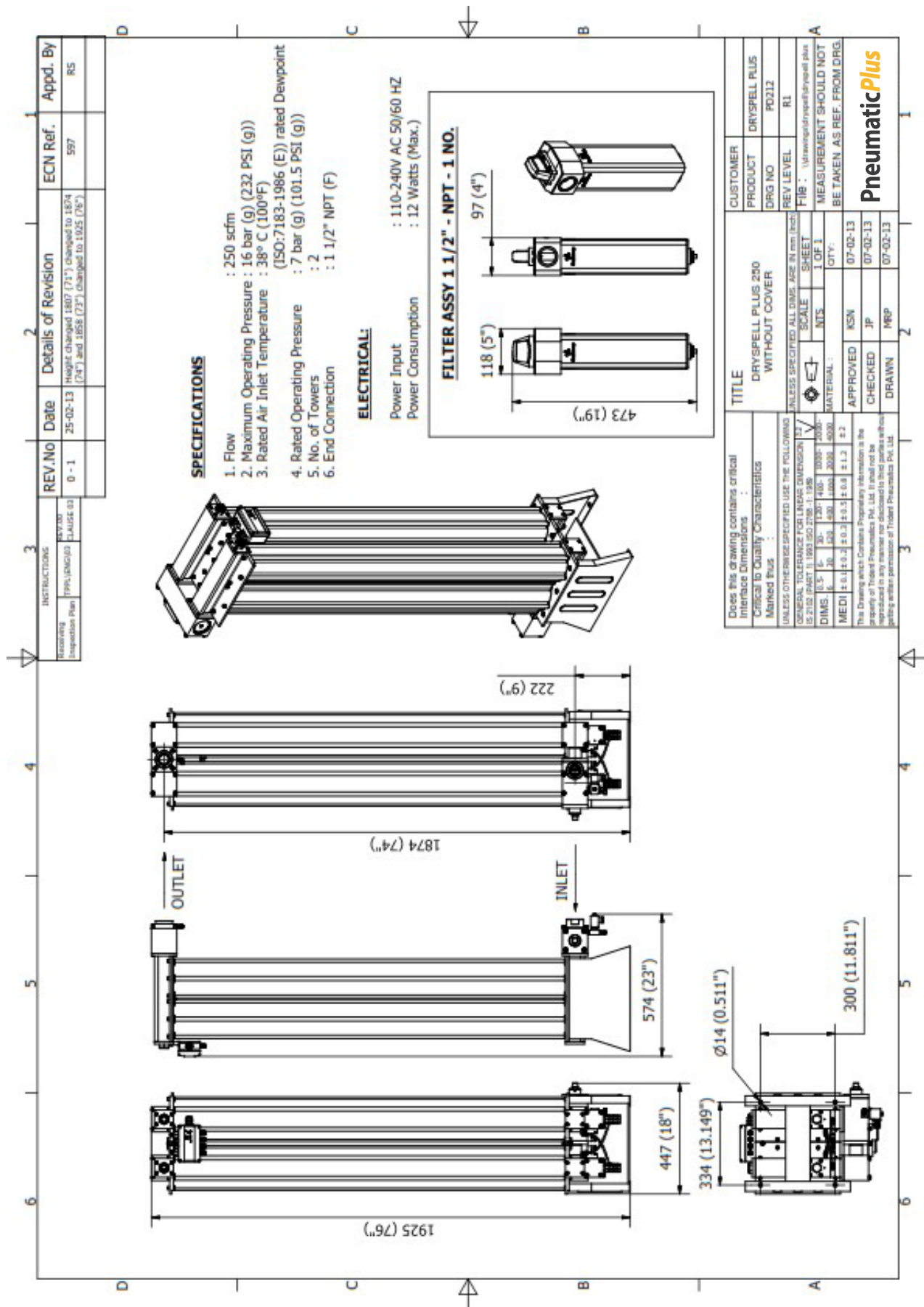
Dew Point Stretch Cycle:

It stretches the moisture loading time of the desiccant bed by increasing the drying time. A dew point meter at the outlet with a required dew point setting provides the signal for the stretch cycle. This reduces the purge air in accordance to the air flow and dewpoint chosen. The purge occurs for the preprogrammed time during this time.

Purge Optimizer:

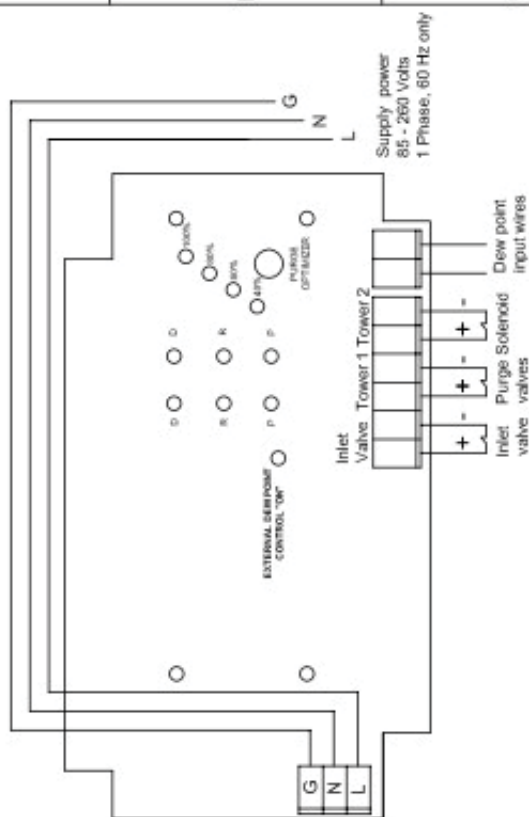
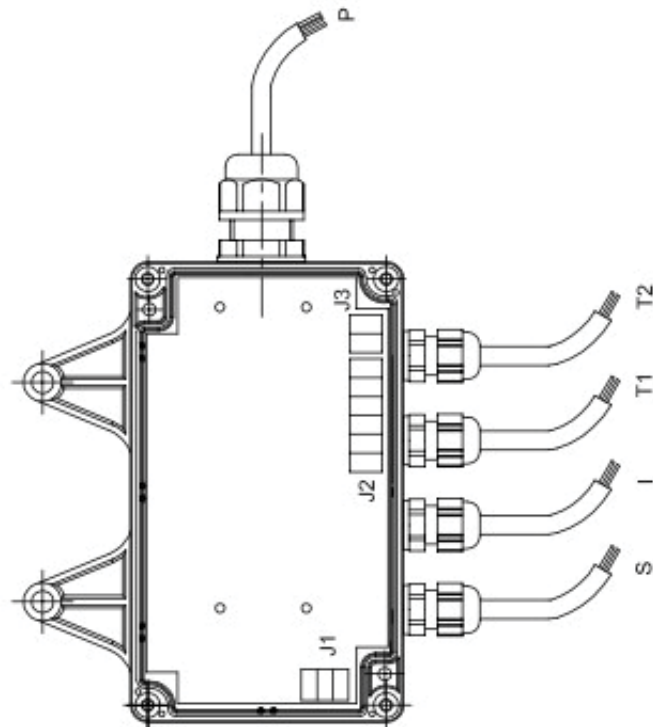
It reduces the percentage of regeneration flow based on the front panel setting. It has 4 options 40%, 60%, 80% & 100% purge optimization cycles respectively. The settings correspond to flow or moisture load through the dryer.

Separate LED Indicators for Tower Status, Purge Optimizer & Condensate Drain



		4			5	6
		Indications	REV No	Date	Details of Revision	ECN Ref.
		Quantity	Rev. no			
Appd By						

P - Power
T1 - Tower 1 Solenoid wire
T2 - Tower 2 Solenoid wire
I - Inlet Valve
S - Dew point switching input wire



Econo Mode : Dew point 'good' contact closed
Run Mode : Contact open
Dryer will stop switching towers and purge air until contacts are open (Dew point poor)

Does this drawing contains critical dimensions :	TITLE		CONTROLLER DS31-2000 ELECTRICAL		CUSTOMER
Critical to Quality Characteristics	UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:		SCALE		PRODUCT
Marked Plus :	GENERAL TOLERANCES FOR LINEAR DIMENSION AS 2115 (PART 1) 1999 ISO 2768-1 1999		SHEET		REV NO
	TYPICAL TOLERANCES FOR LINEAR DIMENSION DIMS. 0+0.15 -0.10 0.05 0.03 0.02 0.01 0.005 0.002 0.001		SHEET		REV LEVEL
	FRACTIONS 1/16 1/8 3/16 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 2 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2 9 9 1/2 10 11 12 14 16 18 20 22 24 28 32 36 40 45 50 56 63 71 80 90 100 112 125 140 160 180 200 224 250 280 315 355 400 450 500 560 630 710 800 900 1000 1120 1250 1400 1600 1800 2000 2240 2500 2800 3150 3550 4000 4500 5000 5600 6300 7100 8000 9000 10000		SHEET		FIR :
	ANGLES 16° 30' 45' 60' 75' 90' 105' 120' 135' 150' 165' 180' 195' 210' 225' 240' 255' 270' 285' 300' 315' 330' 345' 360'		SHEET		MEASUREMENT SHOULD NOT BE TAKEN AS REF. FROM DRG.
	RADIUS 0.063 0.125 0.25 0.5 1 1.5 2 2.5 3 4 5 6 8 10 12.5 16 20 25 32 40 50 63 80 100 125 160 200 250 315 400 500 630 800 1000 1250 1600 2000 2500 3150 4000 5000 6300 8000 10000		SHEET		
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	TAP 0.063 0.125 0.25 0.5 1 1.5 2 2.5 3 4 5 6 8 10 12.5 16 20 25 32 40 50 63 80 100 125 160 200 250 315 400 500 630 800 1000 1250 1600 2000 2500 3150 4000 5000 6300 8000 10000		SHEET		
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