



CE

## **MANUAL**

**INSTALLATION OPERATION MAINTENANCE**

Regenerative Type Heatless Desiccant Dryer

**Dryspell**

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# INSTRUCTION MANUAL - Dryspell

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## READ THIS MANUAL CAREFULLY BEFORE INSTALLING OR OPERATING THE EQUIPMENT



These symbols warn you of any dangers and the measures to be taken to prevent them.

The most important points for the correct operation of your dryer are printed in bold type.

### 1. Introduction

Dryspell series is a heatless adsorption air dryer range especially made for small compressed air flow treatment. Compact and easy to maintain, each dryer is equipped with a pre-filter 0.3micron to protect the dessicant from the variety of air compressed pollutant and with After filters.

#### 1.1 DESIGN

Dryspell heatless regenerating adsorption dryers make it possible to eliminate any water vapour remaining in the compressed air at the outlet of the compressor + final condenser assembly. The dryers have been designed under nominal standard conditions in order to obtain a dew point of  $-40^{\circ}\text{C}$ .

#### 1.2 RELEVANT UNITS

This manual describes the following models :

Dryspell Model	Nominal Flow cfm
5	5
10	10

#### 1.3 STATEMENT OF CONFORMITY

The units listed above comply with the current legislation and, in particular, with the following European directives :

- 97/23/CE : Pressurised Equipments
- 89/392/CEE : Machine Safety
- 89/336/CEE : Electromagnetic Compatibility
- 73/23/CEE : Low Voltage

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## 1.4 DESCRIPTION

The dryer consists of :

- 2 aluminium tanks filled with desiccant
- 2 solenoid valves
- 2 exhaust silencers
- 1 regeneration nozzle
- 1 electronic control panel
- 2 aluminium blocks including air seals and non return valve
- 1 pressure gauge
- 1 sub-micron pre-filter (0.3 to 0.6 micron)
- 2 After filters

## 1.5 ADSORBANT MATERIAL

The desiccant takes the form of highly porous particles with surfaces which are able to retain (adsorb) the water vapour present in the compressed air (drying phase) and restore it when the air is at atmospheric pressure (regeneration phase). The desiccant used is activated alumina (CD067A).

## 1.6 OPERATING PRINCIPLES

The two columns operate alternately in the drying and regeneration phases. Regeneration in one tank results from the expansion to atmospheric pressure of part of the dry compressed air in the other. The pressure reducer is responsible for this transfer. Under nominal conditions (service pressure of 7 bars), 10% of the nominal flow is depressurised. The regeneration phase is shorter than the drying phase in order to allow the regenerated column to return to service pressure before a new cycle starts.

## 1.7 SAFETY



Pressurised tanks may explode if used improperly. It is therefore essential to locate any equipment which contains one or more of such tanks in such a way that the risks relating to incorrect use are reduced to the absolute minimum.

The person responsible for the staff who is going to install, operate and maintain the machines described in this manual must make sure that they have read and understood these instructions.

In particular we draw your attention to the safety procedures which are described in this manual and which must be scrupulously adhered to. Observing these measures will allow you to install, operate and maintain your dryer without risk.

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Dryspell dryers are intended for the drying of compressed air. Under no circumstances should they be used to dry other gases before Trident has performed a preliminary study and provided special instructions.

The desiccants used are non toxic. However, they may cause respiratory problems if they are inhaled in dust form. The use of a dust mask is sufficient to protect personnel. If dispersed in the environment, desiccants may represent a source of pollution the consequences of which are uncontrollable. By the end of its lifetime, the desiccant will have accumulated all the pollutants present in the compressed air. Use a non-polluting method of disposal.

## 2. Installation



Various risks (crushing, explosion, projection, noise,...): The installation operations described in this chapter should be performed only by personnel qualified in the installation of electro-pneumatic systems. Follow the procedure described below with care in order to prevent exposing personnel to danger.

### 2.1 CAUTION

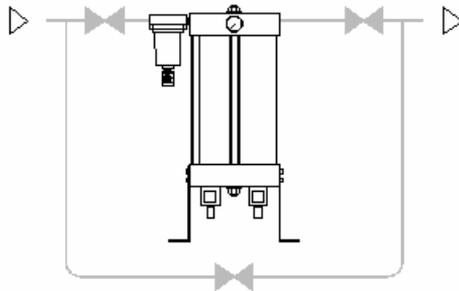
- (i) Ensure that the compressor drain port is provided with an automatic drain valve.
- (ii) If the inlet temperature is more than specified (40°C) then install an after cooler with moisture separator between compressor and dryer.
- (iii) Ensure that a microfilter of 0.01 micron is provided after the dryer as a precautionary instrument.

### 2.2 STORAGE

If your dryer is about to be stored during a long time before installation and use, take care to the following instructions :

- if possible, let the dryer in its original packing (In particular products fitted with marine packing with plastic film and dessicant)
- checking that air inlet and outlet are correctly blocked in order to protect the dessicant against humidity and dust.
- check that the machine is correctly protected from atmospheric dust or water.
- check that the store is frost protected
- make sure to archive correctly the attached documents.

## 2.3 INSTALLATION SITE AND CONNECTIONS



1. Install the dryer in a room where access to the room should be restricted to personnel qualified in unit maintenance and operation. The room must be adequately ventilated. The dryer must not be directly exposed to sources of heat. The temperature of the room should not exceed 43°C.
2. Make sure that the dryer is not near any equipment which does not comply with the electromagnetic compatibility directives and which may degrade dryer operation. There must be a minimum distance of 1 m between the dryer and any other equipment which uses electricity.
3. Ensure that the dryer is installed in vertical position.
4. Fix the anchor points if it's necessary.
5. Install a system of by-pass valves between the dryer inlet and outlet so as to be able to service the installation without having to interrupt the compressed air supply from the network (see diagram above). The upstream and downstream valves must be closed during installation.
6. Connect the compressed air for processing to the dryer inlet (pre-filter connection) with strain-free ducts.
7. Connect a drain pipe to the Pre-filter lower part connection (1/4" F)
8. Connect the processed compressed air to the dryer output with strain-free ducts.
9. Check that all the connectors are airtight and that the fixings are tight.

## 2.4 ELECTRICAL CONNECTIONS

Connect the electrical power cable to a 220-240 V, single phase, 50 Hz grounded power supply. The electrical connecting is done by the DIN connector located on the front face of the dryer.



Risk of electrical shock: When connecting the machine, cut off the power at the connecting point.

## 2.5 RUNNING THE INSTALLATION



Various risks (explosion, projection, noise, ...): Do not pressurise until the installation procedure has been completed.

The valves upstream and downstream of the dryer must be closed and the by-pass valve open before the compressor is started.

1. Close the isolated switch located upstream of the dryer.
2. Check if the LED of the tower in drying operation glows and if the automatic drain valve at the bottom of the prefilter drains every 4 mins.
3. Open slowly the down stream valve and check the pressure on the dryer's pressure gauge.
4. Avoid any sudden variation in pressure as this may damage the dryer.
5. Slowly open the upstream valve and check the pressure at the dryer's pressure gauge.
6. Slowly close the by-pass valve.

## 3. Operation

### 3.1 OPERATOR

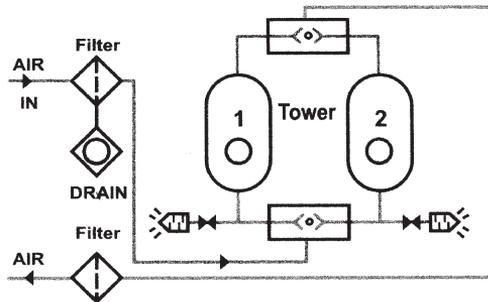
Only a minimum level of experience in handling compressed air is necessary to operate a Dryspell dryer:

- Pressure and bar unit
- Flow and m<sup>3</sup>/h unit
- Dew points and °C unit
- Components of a fluid network : compressor, valves, drains, taps, pressure gauges, filters, tanks, ...

### 3.2 CONTROL PANEL

The control panel presents all the instruments necessary to control and regulate the dryer (see appendix) :

- a machine diagram
- two LED's indicating the tower in drying operation.
- a LED indicating the prefilter drain operation.



### 3.3 OPERATING CYCLES TIME FROM 5 to 300

Drying time : 2 min's  
 Regeneration time : 1 min 30s  
 Pressurization time : 30s

FIRST CYCLE		SECOND CYCLE	
TOWER 1		TOWER 2	
Drying	Regeneration	Drying	Regeneration
	Pressurization		Pressurization

When DL1 is lighted, the tower 1 is in drying operation and tower 2 is in regeneration one. After tower 2 regeneration finished, DL2 is blinking to show that the tank is now in pressurization stage. After 30 seconds of pressurization, the air dryer operating cycle is inversed that means tower 1 is in regeneration stage and tower 2 in drying one.

The cycles permutation occurs every 2 minutes. Prefilter condensate drain discharge is programmed every 4 minutes during 4 seconds. All these cycles times are fixed and not adjustable by user.

# INSTRUCTION MANUAL - Dryspell

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## 3.4 HOW TO STOP THE DRYER



Various risks (projection, explosion, noise,...): Whenever working on the dryer, it is essential to disconnect it from the network. Follow the procedure below:

1. Open the by-pass valve
2. Close the upstream valve
3. Close the downstream valve
4. Cut off and lock the isolating switch before the dryer

## 4. Maintenance

Adsorption dryers are robust, reliable machines. To ensure uninterrupted, problem-free operation, regularly perform the inspections below.

### 4.1 MONTHLY INSPECTIONS

During the monthly routine inspection, check that :

- the drying and regeneration cycle functions normally,
- the silencers are not clogged.

### 4.2 HALF-YEARLY INSPECTIONS

- Check that the drying and regeneration cycles functions normally
- Check to see whether the silencers are clogged
- Replace the cartridge of the prefilter. Follow the following procedure:
  1. Stop the dryer.
  2. Use one hand to release the locking part and the other to turn the bottom housing of the filter until its escape.
  3. Descrew the saturated filter element
  4. Screw the new cartridge
  5. Refit the bottom housing of the filter
  6. Start the machine

### 4.3 ANNUAL INSPECTIONS

1. Check that the drying and regeneration cycles functions normally
2. Check to see whether the silencers are clogged
3. Replace the cartridge of the prefilter. Follow the following procedure
4. Check the state of the desiccant: if the desiccant is brown (oil pollution) or if there is a lot of dust (disintegration), then change the desiccant (see next section).

5. Check the state of block 'O' rings.
6. Replace after filters cartridge

## 5. Changing the desiccant



Various risks (explosion, projection, noise, ...) : This operation should be performed by professionals of adsorption dryers. During the entire operation, the compressor and the dryer must be shut down. It is obligatory for all personnel who are in the presence of the desiccant to wear dust masks.

- Loosen the Tie rod and remove it
- Replace the old dessicant by the new one
- Replace the two after filter cartridge
- Install and screw the Tie rod

### 5.1 QUANTITY OF DESICCANT IN THE DRYER

The replacement desiccant in your dryer must be absolutely identical to the initial desiccant. The total quantities required for each model are as follows (weight in kg) :

Dryspell model	Quantity
5	1
10	2

## 6. Repair work



The repair operations described in this section should be performed only by qualified persons in electro-pneumatic systems installation.

### 6.1 LEDS NOT GLOWING

A - Check the power supply connection and tension

### 6.2 TOWER STATUS LED NOT CHANGING

A - Change the controller

### 6.3 LEDS STATUS CHANGES BUT TOWER NOT SWITCHING

A - Check coil connection at DIN and terminal connector in the controller

B - Check the solenoid valve

## **6.4 NO PURGING**

- A - Check the solenoid valve
- B - Check the exhaust valve
- C - Clean the silencer (muffler)

## **6.5 CONTINUOUS PURGING AT TOWER 1**

- A - Shuttle not closing
- B - Check pilot air for exhaust valve alimentation
- C - Check exhaust valve piston struck

## **6.6 HIGH PURGE LOSS**

- A - Check outlet shuttle closing
- B - Check for silencer chock

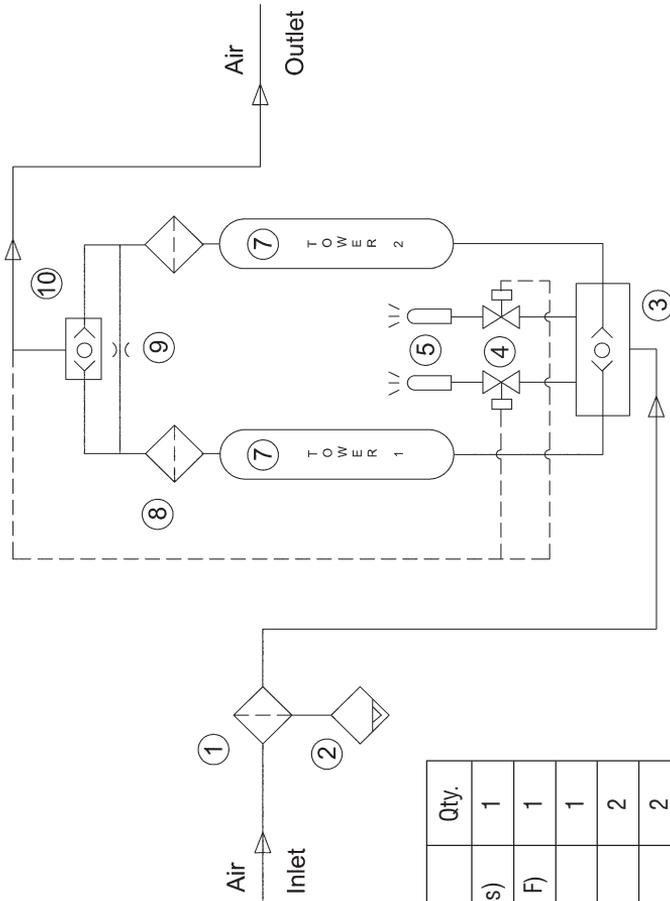
## **6.7 HIGH PRESSURE DROP ACROSS DRYER**

- A - Pre-filter may be chocked. Check and replace filter cartridge
- B - Check whether the utilisation flow is more than inlet flow as per dryer spec.

## **7. Diagrams**

### **7.1 OPERATION DIAGRAM**

### **7.2 OVERALL DIMENSIONS**

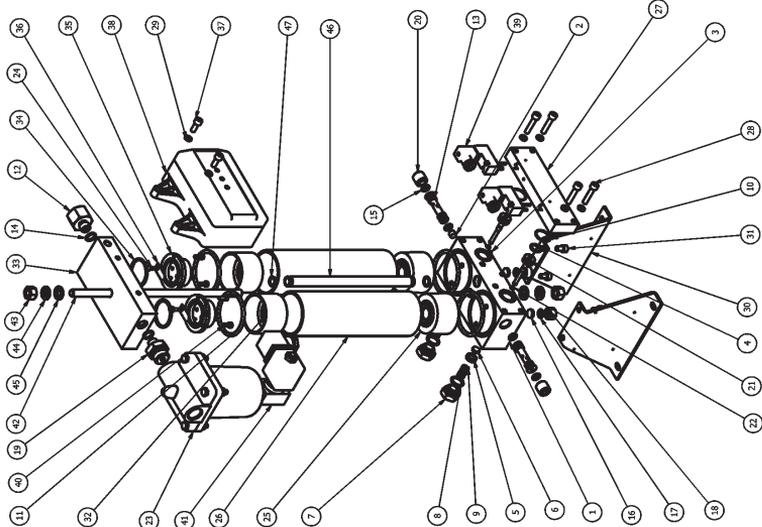


Rep.	Part Name	Qty.
1	Pre-filter (0.3-0.6 microns)	1
2	Pre-filter drain valve (1/4" F)	1
3	Inlet shuttle valve	1
4	Solenoid valve	2
5	Exhaust silencer	2
6	Regulation (not shown)	1
7	Desiccant tower	2
8	After filter (In built)	2
9	Regeneration nozzle	1
10	Outlet shuttle valve	1

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## OVER ALL DIMENSIONS - DRYSPELL 5

### DRYSPELL 5 EXPLODED VIEW



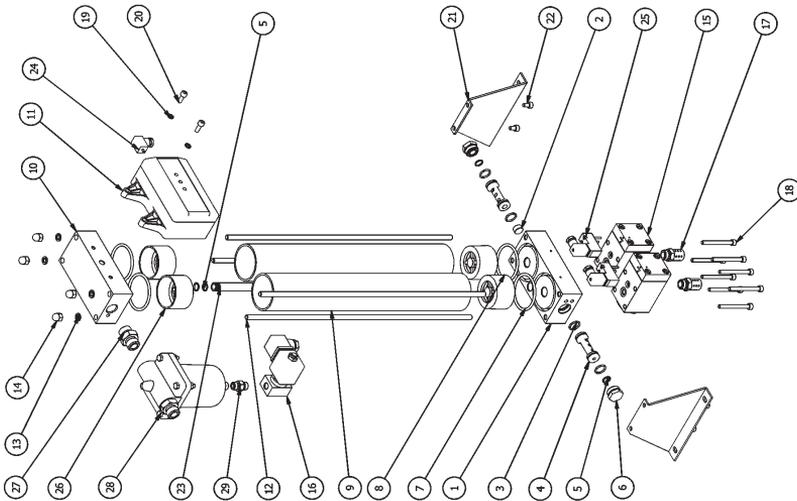
PARTS LIST				PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION	ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	AS899	ACTIVATED ALUMINA WITH SEAL KIT DRYSPELL 5	1	1	AS899	ACTIVATED ALUMINA WITH SEAL KIT DRYSPELL 5
2	1	AS896	SEALS AND O-RING SPARE KIT DRYSPELL 5	2	1	AS896	SEALS AND O-RING SPARE KIT DRYSPELL 5
3	2	AS827	DEFIBRER SCREEN	3	2	AS827	DEFIBRER SCREEN
4	2	AS877	ACTIVATED ALUMINA	4	2	AS877	ACTIVATED ALUMINA
5	2	CO138	O-RING (10.8 X 1.8)	5	2	CO138	O-RING (10.8 X 1.8)
6	2	CO133	O-RING (8 X 2.0)	6	2	CO133	O-RING (8 X 2.0)
7	2	CO137	O-RING (14.2 X 2.1)	7	2	CO137	O-RING (14.2 X 2.1)
8	2	CO851	EXHAUST VALVE SPRING	8	2	CO851	EXHAUST VALVE SPRING
9	2	CO899	POCKET SEAT	9	2	CO899	POCKET SEAT
10	2	CO135	O-RING (15.5 X 1.5)	10	2	CO135	O-RING (15.5 X 1.5)
11	2	AD1378	NOZ PLATE SS	11	2	AD1378	NOZ PLATE SS
12	2	CO055	POCKET (2.69 X 2.62)	12	2	CO055	POCKET (2.69 X 2.62)
13	2	CO054	POCKET (2.69 X 2.62)	13	2	CO054	POCKET (2.69 X 2.62)
14	2	CO053	POCKET (2.69 X 2.62)	14	2	CO053	POCKET (2.69 X 2.62)
15	2	CO052	POCKET (2.69 X 2.62)	15	2	CO052	POCKET (2.69 X 2.62)
16	2	CO051	POCKET (2.69 X 2.62)	16	2	CO051	POCKET (2.69 X 2.62)
17	2	CO050	POCKET (2.69 X 2.62)	17	2	CO050	POCKET (2.69 X 2.62)
18	2	CO049	POCKET (2.69 X 2.62)	18	2	CO049	POCKET (2.69 X 2.62)
19	2	CO048	POCKET (2.69 X 2.62)	19	2	CO048	POCKET (2.69 X 2.62)
20	2	CO047	POCKET (2.69 X 2.62)	20	2	CO047	POCKET (2.69 X 2.62)
21	2	CO046	POCKET (2.69 X 2.62)	21	2	CO046	POCKET (2.69 X 2.62)
22	2	CO045	POCKET (2.69 X 2.62)	22	2	CO045	POCKET (2.69 X 2.62)
23	2	CO044	POCKET (2.69 X 2.62)	23	2	CO044	POCKET (2.69 X 2.62)
24	2	CO043	POCKET (2.69 X 2.62)	24	2	CO043	POCKET (2.69 X 2.62)
25	2	CO042	POCKET (2.69 X 2.62)	25	2	CO042	POCKET (2.69 X 2.62)
26	2	CO041	POCKET (2.69 X 2.62)	26	2	CO041	POCKET (2.69 X 2.62)
27	2	CO040	POCKET (2.69 X 2.62)	27	2	CO040	POCKET (2.69 X 2.62)
28	2	CO039	POCKET (2.69 X 2.62)	28	2	CO039	POCKET (2.69 X 2.62)
29	2	CO038	POCKET (2.69 X 2.62)	29	2	CO038	POCKET (2.69 X 2.62)
30	2	CO037	POCKET (2.69 X 2.62)	30	2	CO037	POCKET (2.69 X 2.62)
31	2	CO036	POCKET (2.69 X 2.62)	31	2	CO036	POCKET (2.69 X 2.62)
32	2	CO035	POCKET (2.69 X 2.62)	32	2	CO035	POCKET (2.69 X 2.62)
33	2	CO034	POCKET (2.69 X 2.62)	33	2	CO034	POCKET (2.69 X 2.62)
34	2	CO033	POCKET (2.69 X 2.62)	34	2	CO033	POCKET (2.69 X 2.62)
35	2	CO032	POCKET (2.69 X 2.62)	35	2	CO032	POCKET (2.69 X 2.62)
36	2	CO031	POCKET (2.69 X 2.62)	36	2	CO031	POCKET (2.69 X 2.62)

### SPARE KIT

ITEM	QTY	PART NUMBER	DESCRIPTION	ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	AS896	SEALS AND O-RING SPARE KIT DRYSPELL 5	1	1	AS896	SEALS AND O-RING SPARE KIT DRYSPELL 5
2	1	AS899	ACTIVATED ALUMINA WITH SEAL KIT DRYSPELL 5	2	1	AS899	ACTIVATED ALUMINA WITH SEAL KIT DRYSPELL 5
3	2	AS827	DEFIBRER SCREEN	3	2	AS827	DEFIBRER SCREEN
4	2	AS877	ACTIVATED ALUMINA	4	2	AS877	ACTIVATED ALUMINA
5	2	CO138	O-RING (10.8 X 1.8)	5	2	CO138	O-RING (10.8 X 1.8)
6	2	CO133	O-RING (8 X 2.0)	6	2	CO133	O-RING (8 X 2.0)
7	2	CO137	O-RING (14.2 X 2.1)	7	2	CO137	O-RING (14.2 X 2.1)
8	2	CO851	EXHAUST VALVE SPRING	8	2	CO851	EXHAUST VALVE SPRING
9	2	CO899	POCKET SEAT	9	2	CO899	POCKET SEAT
10	2	CO135	O-RING (15.5 X 1.5)	10	2	CO135	O-RING (15.5 X 1.5)
11	2	AD1378	NOZ PLATE SS	11	2	AD1378	NOZ PLATE SS
12	2	CO055	POCKET (2.69 X 2.62)	12	2	CO055	POCKET (2.69 X 2.62)
13	2	CO054	POCKET (2.69 X 2.62)	13	2	CO054	POCKET (2.69 X 2.62)
14	2	CO053	POCKET (2.69 X 2.62)	14	2	CO053	POCKET (2.69 X 2.62)
15	2	CO052	POCKET (2.69 X 2.62)	15	2	CO052	POCKET (2.69 X 2.62)
16	2	CO051	POCKET (2.69 X 2.62)	16	2	CO051	POCKET (2.69 X 2.62)
17	2	CO050	POCKET (2.69 X 2.62)	17	2	CO050	POCKET (2.69 X 2.62)
18	2	CO049	POCKET (2.69 X 2.62)	18	2	CO049	POCKET (2.69 X 2.62)
19	2	CO048	POCKET (2.69 X 2.62)	19	2	CO048	POCKET (2.69 X 2.62)
20	2	CO047	POCKET (2.69 X 2.62)	20	2	CO047	POCKET (2.69 X 2.62)
21	2	CO046	POCKET (2.69 X 2.62)	21	2	CO046	POCKET (2.69 X 2.62)
22	2	CO045	POCKET (2.69 X 2.62)	22	2	CO045	POCKET (2.69 X 2.62)
23	2	CO044	POCKET (2.69 X 2.62)	23	2	CO044	POCKET (2.69 X 2.62)
24	2	CO043	POCKET (2.69 X 2.62)	24	2	CO043	POCKET (2.69 X 2.62)

## OVER ALL DIMENSIONS - DRYSPELL 10

### DRYSPELL 10 EXPLODED VIEW



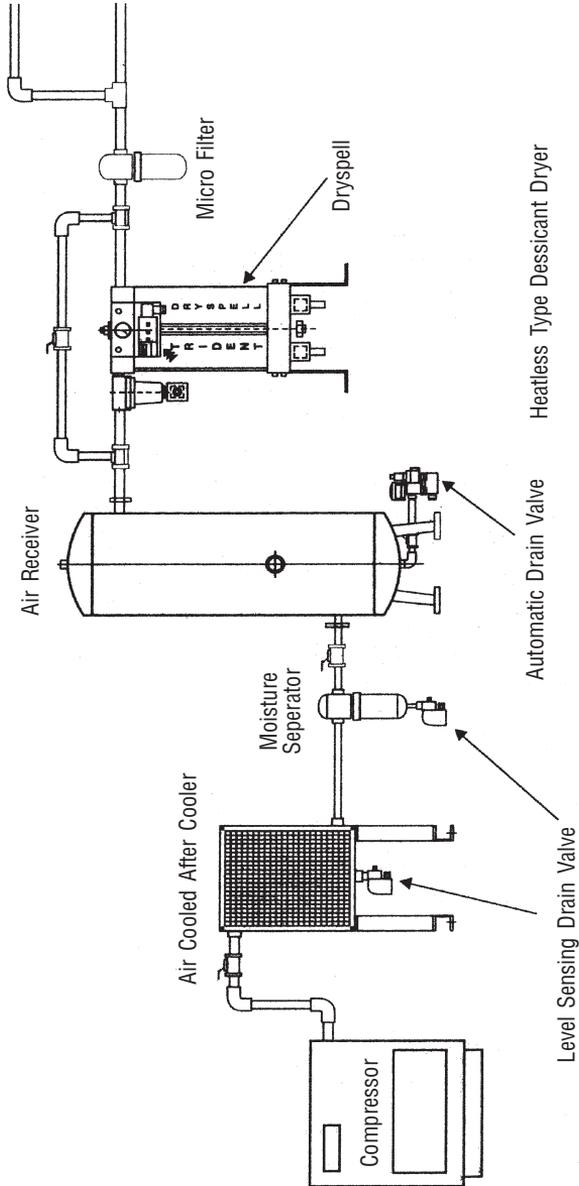
ITEM QTY PART NUMBER DESCRIPTION			PARTS LIST				
1	1	CD002	CHAMBER BASE	15	1	AD014	SOLENOID VALVE 24V
2	1	AD001	CHAMBER BOTTOM	16	1	AD015	SOLENOID VALVE 24V
3	4	CD078	O-RING 15.4 X 2.1	17	8	AD016	SOLENOID VALVE 24V
4	2	CD066	CHAMBER BASE NOZZLE	18	8	CD025	SOC. HD. CAP SCREW M6 x 60
5	6	CD077	O-RING 10.6 X 1.83	19	2	CD013	SPRING WASHER M6
6	2	CD005	CHAMBER BASE PLUG	20	2	CD017	SOC. HD. CAP SCREW M6 x 16
7	4	CD017	O-RING 55.4 X 4	21	2	AD044	INJECTING BRACKET
8	2	AD221	INJEN DIFFUSER	22	4	CD021	SOC. HD. CAP SCREW M6 x 10
9	2	AD012	CHAMBER TOP	23	1	AD039	SOLENOID VALVE 24V
10	2	CD152	CHAMBER TOP	24	1	AD040	SOLENOID VALVE 24V
11	1	AD082	CONTROLLER BOX ASSY	25	2	AD027	TOP INJEN DIFFUSER
12	4	AD286	TIE ROD	26	2	AD043	CONNECTOR 1/2"
13	4	CD011	SPRING WASHER M8	27	1	AD050	PRE FILTER ASSEMBLY
14	4	CD057	DOOR NUT	28	1	AD056	PRE FILTER ASSEMBLY
15	2	AD573	EXHAUST VALVE ASSEMBLY	29	1	CD021	CONNECTOR 1/4"

#### SPARE KIT

ITEM	QTY	PART NUMBER	DESCRIPTION	ITEM	QTY	PART NUMBER	DESCRIPTION
3	AS063	ACTIVATED ALUMINA WITH SOL KIT DRYSPELL 10		SK120A	1	SEALS AND O-RING SPARE KIT DPS-10	
				AD027	2	DIFFUSER SCREEN TOP	
				AD021	2	DIFFUSER SCREEN BOTTOM	
				CD067A	2	ACTIVATED ALUMINA	
				CD009	2	PLUG O-RING (8.6 X 2.4)	
				CD074	2	SEALING O-RING-1 (6.02 X 2.62)	
				CD067	2	SEALING O-RING-2 (10 X 2.62)	
2	AS063	EXHAUST VALVE SPARE KIT DRYSPELL 10		CD062	2	PISTON O-RING-1 (28.17 X 3.5)	
				AD745	2	POPPET ASSY	
				AD548	2	SPRING COMP.	
				AN012	2	GASKET NON-METAL	
				SK120A-3	4	INLET AIR TRANSFER TUBE O-RING (10.6 X 1.8)	
				SK120A-1	2	CHAMBER BASE PLUG O-RING (10 X 2.62)	
				SK120A-2	4	CHAMBER BOTTOM NOZZLE O-RING (15.4 X 2.21)	
1	AS084	SEALS AND O-RING SPARE KIT D'ISPELL 10		SK120A-4	4	TOWE SEAL (O-RING 55.5 X 4)	
				SK120A-3	1	SHUTTLE	
						SPARE KIT CONSISTING OF	

# INSTRUCTION MANUAL - Dryspell

## COMPRESSED AIR LAYOUT



# WARRANTY

Products of Trident Pneumatics Pvt Ltd are guaranteed to be free from defects in materials and workmanship when installed and operated in accordance with the instructions outlined in the Instruction Manual.

Trident Pneumatics Pvt. Ltd.'s obligation under this warranty shall be limited to repair or replacement (at the discretion of Trident) of defective goods returned to Trident's plant within one (1) year from the date of commissioning or 18 months from the date of invoicing which ever is occurring earlier.

Product	:	
Model	:	<b>Refer Name Plate</b>
Serial No.	:	
	:	

---

Quality Assurance Dept.

## **Trident Pneumatics Pvt Ltd**

5/232, K.N.G Pudur Road, Somayampalayam,  
Coimbatore 641 108. Ph : 0422 2400492, 2401373  
Fax : 0422 2401376 e-mail : sales@tridentpneumatics.com  
Website : www.tridentpneumatics.com



## INSTALLATION & COMMISSIONING REPORT HEATLESS DESICCANT DRYER

Customer :	Model :
Contact person :	SI.No :
Designation :	Phone :
	Fax :

(Please add any comments or remarks here found while unpacking)

### 1. INSTALLATION

a) Installation at : Before / After Air Receiver	LED Glowing	Yes / No
b) Inlet Air : Normal / High Temperature	Tower 1 and 2 Drying	Yes / No
c) Side clearance : Yes / No provided	Depressurizing	Yes / No
d) Power Grounded : Yes / No	Regeneration	Yes / No
e) Air Flow Outlet : Normal / Faulty		
f) Change over : Normal / Faulty sequence		
g) Change over : Normal / Faulty sequence		

### 2. COMMISSIONING

Installation	Date of completion
Commissioning	Date of completion

Comments :

Customer	Installation Engineer
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Signature & Name of installing Engineer	Dealers Signature & Seal	Customer's Signature & Seal
---	--------------------------	-----------------------------



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## Compressed Air Quality can be maximized through

<b>Application</b> : Power Coating & Spray Painting	
<b>Flow Taken</b> : Example 20 cfm	
<b>Location</b>	<b>Product</b>
Condensate Drain Ports	LDV 1000 / Equivalent
After the dryer	G 100 Y / Equivalent
Desiccant Dryers	Dryspell 20 / Equivalent

<b>Application</b> : Food Pharma & Hospital	
<b>Flow Taken</b> : Example 10 cfm	
<b>Location</b>	<b>Product</b>
Condensate Drain Ports	LDV 1000 / Equivalent
Before the dryer	G 24 P / Equivalent
After the dryer	G 24 Y / Equivalent
Desiccant Dryers	Dryspell 10 / Equivalent

<b>Application</b> : Instrumentation	
<b>Flow Taken</b> : Example 10 cfm	
<b>Location</b>	<b>Product</b>
Condensate Drain Ports	LDV 1000 / Equivalent
Before the dryer	G 24 P / Equivalent
After the dryer	G 24 Y / Equivalent
Desiccant Dryers	Dryspell 10 / Equivalent

<b>Application</b> : Engineering Industry	
<b>Flow Taken</b> : Example 30 cfm	
<b>Location</b>	<b>Product</b>
Condensate Drain Ports	LDV 1000 / Equivalent
Before the dryer	G 100 P / Equivalent
After the dryer	G 100 Y / Equivalent
Desiccant Dryers	Dryspell 30 / Equivalent

<b>Application</b> : CNC M/C	
<b>Flow Taken</b> : 20 cfm	
<b>Model Name</b>	<b>Model Code</b>
Condensate Drain Ports	LDV 1000 / Equivalent
Desiccant Dryers	Dryspell 20 / Equivalent

<b>Application</b> : Cement Plant	
<b>Flow Taken</b> : Example 45 cfm	
<b>Location</b>	<b>Product</b>
Condensate Drain Ports	LDV 1000 / Equivalent
Before the dryer	G 100 P / Equivalent
After the dryer	G 100 Y / Equivalent
Desiccant Dryers	Dryspell 45 / Equivalent

<b>Application</b> : Process & Chemical Industry	
<b>Flow Taken</b> : Example 45 cfm	
<b>Location</b>	<b>Product</b>
Condensate Drain Ports	LDV 1000 / Equivalent
Before the dryer	G 100 P / Equivalent
After the dryer	G 100 Y / Equivalent
Desiccant Dryers	Dryspell 45 / Equivalent

<b>Application</b> : Packing M/c	
<b>Flow Taken</b> : Example 20 cfm	
<b>Location</b>	<b>Product</b>
Condensate Drain Ports	LDV 1000 / Equivalent
After the dryer	G 100 Y / Equivalent
Desiccant Dryers	Dryspell 20 / Equivalent

<b>Application</b> : Process & Chemical Industry	
<b>Flow Taken</b> : Example 45 cfm	
<b>Location</b>	<b>Product</b>
Condensate Drain Ports	LDV 1000 / Equivalent
Before the dryer	G 100 P / Equivalent
After the dryer	G 100 Y / Equivalent
Desiccant Dryers	Dryspell 45 / Equivalent

<b>Application</b> : Printing Industry	
<b>Flow Taken</b> : Example 45 cfm	
<b>Location</b>	<b>Product</b>
Condensate Drain Ports	LDV 1000 / Equivalent
Before the dryer	G 100 P / Equivalent
After the dryer	G 100 Y / Equivalent
Desiccant Dryers	Dryspell 45 / Equivalent

Other Range of Products

Compressed Air Condensate  
Automatic Drain Valves



CTD



LDV



EDV-X

Filters



Cleansweep



VXD-2



Air Filters

Compressed Air Dryers



Coldspell



Locodry

Custom Solution Products



DP Series



DH Series



DB Series

Medical Air & Gas Products



Medical Breathing  
Dryer



Nitrogen  
Generator



Onsite Oxygen  
Plant

**Trident Pneumatics Pvt. Ltd.,**

5/232 KNG Pudur Road, Coimbatore 641 108, India.

Ph : +91 422 2400492, Fax: +91 422 2401376,

Email : [sales@tridentpneumatics.com](mailto:sales@tridentpneumatics.com) Website : [www.tridentpneumatics.com](http://www.tridentpneumatics.com)