

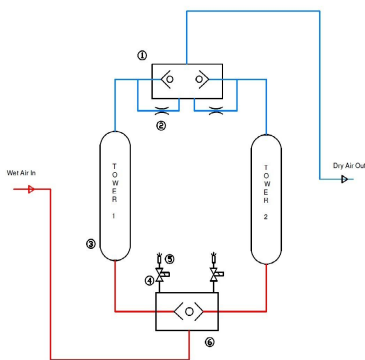


- Inlet condition have been designed For - ISO 7183-1986 (E)
- Outlet air quality Class - ISO:8573-1:1991 (E) class 3
- Low noise level
- Free from corrosion & scale formation
- Low pressure drop

Heatless Desiccant Air Dryer  
**Dryspell 5 V1**

## Specifications:

Flow	: 5 scfm
Max Working Pressure	:12.5 bar (g)
Rated Inlet Temperature	:38° C
Max Rated Inlet Pressure	:7 bar (g)
Cycle Time	:4 Minutes
Operating Voltage	:85-300 VAC 50 / 60 Hz 1Ph
Outlet Conditions	:Dry air at -20° C PDP
End Connections	:1/4" NPT
Pressure drop	:0.3 bar Max.



- |                    |                         |
|--------------------|-------------------------|
| 1. Top block       | 2. Regeneration orifice |
| 3. Desiccant tower | 4. Exhaust valve        |
| 5. Muffler         | 6. Bottom block         |

## Operating Principles:

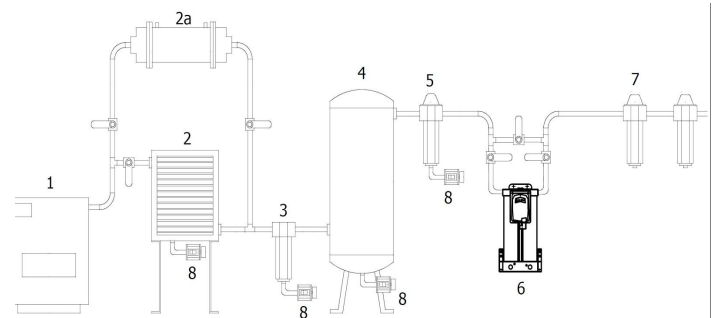
Wet air enters and flows from the top block to the bottom block via the air transfer tube. Air then flows to the shuttle inlet valve and is diverted to tower 1. The compressed air flowing through tower 1 is dried to a  $-20^{\circ}\text{F}$  PDP and exits. A small portion (12%) of the compressed air is expanded to near atmospheric pressure by passing through

the purge orifice. Expansion of this already-dry gas to near-atmospheric pressure increases the ability of the purge air to strip the previously absorbed water vapor from the partially saturated desiccant bed in tower 2. The air exhausts through the opened purge valve. This cycle continues for 90 seconds then the purge valve closes and tank 2 begins re-pressurization. After 30 seconds purge valve 1 opens and the process repeats for tower 2.

## Applications:

- Paint spray booths
- Tool, Valve, Cylinder protection
- Food packaging machine
- Auto Garage
- Textile & Garment
- SPM
- Instrumentation

## Recommended installation:



- |                               |                     |
|-------------------------------|---------------------|
| 1. Air Compressor             | 5. Pre Filter       |
| 2. Air Cooled after cooler    | 6. Air Dryer        |
| 2a. Water Cooled after cooler | 7. After Filter     |
| 3. Water separator            | 8. Auto Drain Valve |
| 4. Air Receiver               |                     |

## Our Other Range of Products

- Timer based Auto Drain Valve
- Level Sensing Auto Drain Valve
- Desiccant Dryer (Heatless)
- Desiccant Dryer (Heated)
- Refrigeration Dryers
- Oxygen & Nitrogen Generators



**TTC**  
(Solution for Compressed Air Treatment)

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