



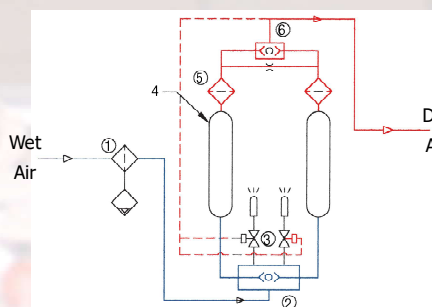
- Designed for ISO 7183:2007
- Dryer quality class: ISO 8573-1:2010 class 3
- Consistent Dew Point performance
- Noise Level <70 dBA ; Pressure Drop < 0.3 kg/cm²(g)
- Aluminium Construction
- Free From Corrosion & Scale Formation at Inner and Outer sides
- Uses High Crush Strength Adsorbent Materials



Desiccant Compressed Air Dryer

Dryspell Core

Dryspell Core Desiccant Dryer offers total cleaning solution for lubricated as well as non-lubricated compressed Air.



1. Pre-filter
2. Inlet shuttle valve
3. Exhaust valve
4. Desiccant tower
5. After filter
6. Outlet shuttle valve

Principle of Operation

Drying Cycle : Moist air from the compressor is sent through the coalescing filter. Here water & oil coalesces and purges through the auto drain valve. The relatively clean air with water vapour passing through the aluminum drying tower filled with desiccant gets completely dried (up to -20°C PDP) and then passes through a built in after filter (25 micron). The desiccant fines from the towers are completely removed and clean dry air is let out through the outlet port for use.

Regeneration Cycle: During the regeneration cycle, the sudden depressurisation brings out water molecule strapped in the Desiccant pores to the surface of the beads. A small portion of dry compressed air from the drying tower then passes over the desiccant through the regeneration orifice built in the Top Block. This results in complete regeneration of the Desiccant.

Model	Product Code	Flow (m^3/hour)**	End Connection BSP	Dimensions (mm)			Recommended Accessories	
				H	W	D	Pre filter	Post filter
Dryspell Core 10	PD470	10	$\frac{1}{2}$ "	1036	324	171	T100YEA	T100YIA
Dryspell Core 20	PD471	20	$\frac{1}{2}$ "	913	398	229	T100YEA	T100YIA
Dryspell Core 30	PD472	30	$\frac{1}{2}$ "	1177	398	229	T100YEA	T100YIA
Dryspell Core 45	PD473	45	$\frac{1}{2}$ "	998	427	304	T100YEA	T100YIA
Dryspell Core 60	PD474	60	1"	1191	523	304	T250YEA	T250YIA
Dryspell Core 75	PD475	75	1"	1390	523	304	T250YEA	T250YIA

** As per ISO 7183 Option A2 inlet conditions.

Inlet Pressure Correction Factor

bar g)	4.1	5.5	6.9	8.3	9.1	11	12.4
Factor	0.65	0.83	1	1.18	1.37	1.52	1.7

Application

- Painting And Powder Coating
- Machine Tool
- Packaging Application
- Auto Garage
- Textile & Garment
- Instrumentation
- Pharmaceutical
- Dental Laboratory
- Rail Vehicles
- Telecomm industry (pressurises its underground cables to repel moisture and avoid shorts)
- Pneumatic control systems
- Feed air for Zeolite type Oxygen and Nitrogen generators
- Truck and Train Air brake systems.

Market Acceptance

- Excellent Performance
- High Reliability
- Require Less Service Time
- Reasonable Cost
- Low moving components
- Low Maintenance
- Safe Operation
- Global Support

Specifications

- Rated operating pressure: 7 bar g
- Max. air inlet temperature: 38°C
- Max. operating pressure: 16 bar g
- Pre-Filter Rating : 0.01 Micron
- Cycle time: 4 minutes
- Operating Voltage : 100-240 VAC 50/60 Hz 1 Ph
- Outlet Conditions : Dry air at -20°C PDP (ISO 8573:2010 Class -3-)
- Purge loss: $18 \pm 1\%$

Temperature Correction Factor

$^{\circ}\text{C}$	32	35	38	41	43	46	49
Factor	1.35	1.16	1	0.85	0.74	0.64	0.56

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