

Purge Economiser -
Reduces purge loss and energy according to load requirements.

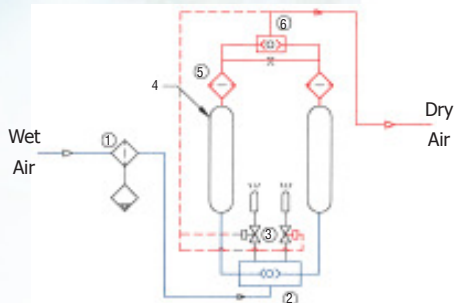
Accepts dewpoint meter signal to cycle on dewpoint temperature instead of time.

Desiccant Compressed Air Dryers

Dryspell Plus

- Dryer Quality Class - ISO:8573-1:2010 (E) class 2
- Consistent Dew Point performance
- Low noise level <70 dBA
- Low Pressure Drop < 0.3 kg/cm² (g) saves energy
- cULusa Certification for the controller available
- Aluminum Construction - Free From Corrosion at Inner and Outer sides. Long life and performance using specially designed Adsorbent Materials
- Used High Crush Strength Adsorbent Materials

Dryspell 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, gets purged through the auto drain valve. The relatively clean air with water vapor passes through the aluminum drying tower filled with desiccant gets completely dried (up to -40°C PDP) and then passes through a built in after filter. 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 depressurization 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.

Application

- Painting And Powder Coating
- Machine Tool
- Packaging Application
- Auto Garage
- Textile & Garment
- Instrumentation
- Pharmaceutical
- Dental Laboratory
- Rail Vehicles
- Telecomm industry (pressurizes 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.

Specifications

- Maximum Operating Pressure : 16 kg/cm² (g) (232 PSI (g))
- Rated Air Inlet Temperature : 38°C Max (100°F)
- Operating Pressure : 7 kg/cm² (g) (101.5 PSI (g))
- Recommended Pre-Filter Rating : 0.01 Microns
- Cycle Time : 4 Minutes
- Operating Voltage : 100-240 VAC 50/60 Hz 1 Ph
- Outlet Conditions : Dry air at -40°C PDP*
- Purge Loss : 15±1%

* ISO 8573-1 2010(E) Class -2-

Model	Item Code (No External Filter)	Flow** cfm	End Connection NPT	Dimensions inch			Weight lbs	Recommended Pre filter (0.01 micron)	Recommended Post filter (1 micron)
				H	W	D			
Dryspell Plus 10	PD 226	10	½"	41	12	7	40	T 100 YEA	T 100 XIA
Dryspell Plus 20	PD 227	20	½"	36	15	9	57	T 100 YEA	T 100 XIA
Dryspell Plus 30	PD 228	30	½"	46	15	9	79	T 100 YEA	T 100 XIA
Dryspell Plus 45	PD 229	45	½"	39	20	12	101	T 100 YEA	T 100 XIA
Dryspell Plus 60	PD 230	60	1"	47	21	12	115	T 250 YEA	T 250 XIA
Dryspell Plus 100	PD 231	100	1"	63	14	17	225	T 250 YIA	T 250 XIA
Dryspell Plus 125	PD 232	125	1"	75	14	17	254	T 250 YIA	T 250 XIA
Dryspell Plus 200	PD 233	200	1½"	64	23	18	459	T 600 YIA	T 600 XIA
Dryspell Plus 250	PD 234	250	1½"	76	23	18	511	T 600 YIA	T 600 XIA
Dryspell Plus 300	PD 235	300	2"	64	30	18	547	T 600 YIA	T 600 XIA
Dryspell Plus 375	PD 236	375	2"	76	30	18	613	T 600 YIA	T 600 XIA

** As per ISO 7183 option B rated conditions

Inlet Pressure Correction Factor

psi (g)	60	80	100	120	140	160	180
bar (g)	4.1	5.5	6.9	8.3	9.7	11	12.4
Factor	0.65	0.83	1	1.18	1.37	1.52	1.7

Temperature Correction Factor

°F	90	95	100	105	110	115	120
°C	32	35	38	41	43	46	49
Factor	1.35	1.16	1	0.85	0.74	0.64	0.56

Dew Point Correction Factor

