



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

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



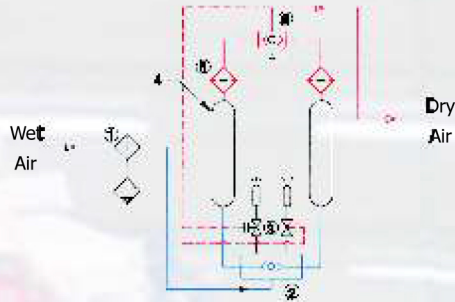
- Designed For - ISO:7183-1986 (E)
- Dryer Quality Class - ISO:8573-1:2010 (E) class 2
- Pre-Filter Quality Class - ISO:8573-1:2010 (E) class 1
- Consistent Dew Point performance
- Noise Level <70 dBA • Pressure Drop < 0.3 kg/cm²(g)
- Aluminum Construction
- Free From Corrosion & Scale Formation at Inner and Outer sides
- Uses High Crush Strength Adsorbent Materials



Desiccant Compressed Air Dryers

Dryspell Plus

Dryspell Plus 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 -40°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.

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

Maximum Operating Pressure : $16 \text{ kg/cm}^2(\text{g})$
 Air Inlet Temperature : 38°C Max
 Operating Pressure : $7 \text{ kg/cm}^2(\text{g})$
 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 -40°C PDP*
 Purge Loss : $15 \pm 1\%$

* ISO:8573-1:2010 (E) class -2-

| Model | Item Code | Flow (m^3/hour)** | End Connection BSP | Dimensions (mm) | | | Weight Kgs | Recommended Accessories | |
|-------------------|-----------|-------------------------------------|--------------------|-----------------|-----|-----|------------|-------------------------|-------------|
| | | | | H | W | D | | Pre filter | Post filter |
| Dryspell Plus 10 | PD237 | 17 | $\frac{1}{2}"$ | 1038 | 330 | 150 | 21 | T 100 YEA | T 100 XIA |
| Dryspell Plus 20 | PD238 | 34 | $\frac{1}{2}"$ | 963 | 371 | 213 | 29 | T 100 YEA | T 100 XIA |
| Dryspell Plus 30 | PD239 | 51 | $\frac{1}{2}"$ | 1227 | 371 | 213 | 39 | T 100 YEA | T 100 XIA |
| Dryspell Plus 45 | PD240 | 76 | $\frac{1}{2}"$ | 999 | 497 | 313 | 49 | T 100 YEA | T 100 XIA |
| Dryspell Plus 60 | PD241 | 102 | 1" | 1192 | 523 | 313 | 61 | T 250 YEA | T 250 XIA |
| Dryspell Plus 100 | PD242 | 170 | 1" | 1603 | 439 | 372 | 106 | T 250 YIA | T 250 XIA |
| Dryspell Plus 125 | PD243 | 212 | 1" | 1913 | 439 | 372 | 119 | T 250 YIA | T 250 XIA |
| Dryspell Plus 200 | PD244 | 340 | $1\frac{1}{2}"$ | 1615 | 449 | 582 | 214 | T 600 YIA | T 600 XIA |
| Dryspell Plus 250 | PD245 | 424 | $1\frac{1}{2}"$ | 1925 | 449 | 582 | 238 | T 600 YIA | T 600 XIA |
| Dryspell Plus 300 | PD246 | 510 | 2" | 1615 | 457 | 764 | 256 | T 600 YIA | T 600 XIA |
| Dryspell Plus 375 | PD247 | 637 | 2" | 1925 | 457 | 764 | 286 | T 600 YIA | T 600 XIA |

** As per ISO 7183 option B rated condition

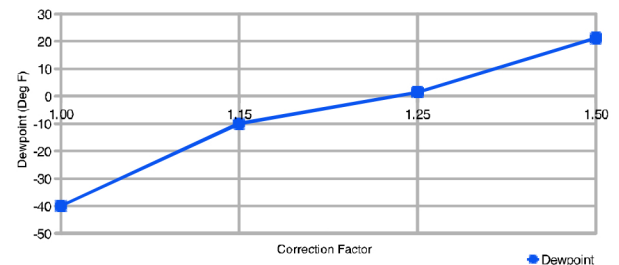
Inlet Pressure Correction Factor

| | | | | | | | |
|---------|------|------|-----|------|------|------|------|
| 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

| | | | | | | | |
|--------------------|------|------|-----|------|------|------|------|
| $^{\circ}\text{F}$ | 90 | 95 | 100 | 105 | 110 | 115 | 120 |
| $^{\circ}\text{C}$ | 32 | 35 | 38 | 41 | 43 | 46 | 49 |
| Factor | 1.35 | 1.16 | 1 | 0.85 | 0.74 | 0.64 | 0.56 |

Dew Point Correction



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