

Compressed Air Dryers

Dryspell Plus Desiccant Dryers

The Dryspell Plus Desiccant Dryers are engineered for optimal moisture removal, providing ultra-dry air for demanding industries such as manufacturing, food processing, pharmaceuticals, and more. Utilizing advanced desiccant technology, these dryers effectively eliminate moisture, safeguarding your equipment and ensuring peak performance.

Designed for energy efficiency, Dryspell Plus reduces operational costs while maintaining consistent, reliable output. Whether protecting sensitive machinery or improving overall system reliability, Dryspell Plus is the perfect solution to ensure your compressed air systems stay clean and dry, even in the harshest conditions.



Benefits

Energy Savings

Dryspell Plus desiccant dryers deliver significant energy savings by combining a low pressure drop design with our advanced Purge Economizer technology. The Purge Economizer intelligently adjusts the purge cycle based on real-time dew point readings rather than fixed intervals, minimizing unnecessary purge air loss. This smart control ensures optimal dryer performance while reducing energy consumption and lowering overall operating costs.

Consistent Dew Point

Dryspell Plus desiccant dryers are designed to deliver consistently high performance in even the most demanding environments. A key feature is their ability to maintain a stable -40°F pressure dew point (PDP), ensuring a continuous supply of ultra-dry air. This level of dryness is essential for critical applications where moisture can compromise product quality, damage equipment, or disrupt processes. stringent industry standards.

Durable Construction

Dryspell Plus is built for durability, featuring a corrosion- and scale-resistant aluminum body that ensures long-term reliability both inside and out. It also utilizes high crush strength desiccant, which contributes to an extended service life and consistent performance in demanding environments.

Compact & Efficient

Built with a compact and efficient design, Dryspell Plus maximizes performance while minimizing footprint. With minimal moving parts, these dryers require low maintenance and reduced service time, helping to lower operational costs and extend equipment life. Their cost-effective construction ensures long-term value, offering dependable performance without the complexity or expense of more intricate systems.



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Product Specifications

Ordering Part No.	Legacy Part No.	Connection Size	Rated Flow ⁽¹⁾	Dimensions (Inches)			Weight lbs	Pre Filter (not included)	After Filter (not included)
		NPT	SCFM	H	W	D		Ordering Part No.	Ordering Part No.
8059 2402 29	PD347	1/4"	3	14	9	6	13	8059 2402 51	8059 2402 50
8059 2402 19	PD298	1/2"	5	24	8	7	22	8059 2402 51	8059 2402 50
8059 2402 08	PD226	1/2"	10	39	8	7	46	8059 2402 51	8059 2402 50
8059 2402 09	PD227	1/2"	20	37	11	9	64	8059 2402 33	8059 2402 32
8059 2402 10	PD228	1/2"	30	46	11	9	86	8059 2402 33	8059 2402 32
8059 2402 11	PD229	1/2"	45	38	16	12	108	8059 2402 33	8059 2402 32
8059 2402 12	PD230	1"	60	45	16	12	134	8059 2402 37	8059 2402 36
8059 2402 13	PD231	1"	100	63	17	16	234	8059 2402 37	8059 2402 36
8059 2402 14	PD232	1"	125	75	17	16	262	8059 2402 37	8059 2402 36
8059 2402 15	PD233	1 1/2"	200	64	18	23	472	8059 2402 40	8059 2402 39
8059 2402 16	PD234	1 1/2"	250	76	18	23	525	8059 2402 40	8059 2402 39
8059 2402 17	PD235	2"	300	64	18	30	564	8059 2402 43	8059 2402 42
8059 2402 18	PD236	2"	375	76	18	30	630	8059 2402 43	8059 2402 42

Specifications

Maximum operating pressure	228 psig
Maximum air inlet temperature	100°F
Operating pressure	100 psig
Operating voltage	100–240 VAC 50/60 Hz 1 Ph
Outlet conditions	dry air at –40°F PDP
Purge loss	15+ 1%
Cycle time	4 minutes

Inlet Pressure Correction Factor

psig	60	80	100	120	140	160	180
Correction factor	0.65	0.83	1.00	1.18	1.37	1.52	1.70

Temperature Correction Factor

°F	90	95	100	105	110	115	120
Correction factor	1.35	1.16	1.00	0.85	0.74	0.64	0.56

(1) At inlet conditions of 100 psig and 100°F. For all other conditions refer to the correction factors above or contact Trident Pneumatics at support@airandgassolutions.com.

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