

# GENERON® COMPRESSED AIR DRYER SYSTEMS

## Twin Tower Heatless Desiccant Dryer

**GENERON® Heatless Desiccant Dryers** consist of two towers containing a specialized material that absorbs the water vapor in the saturated compressed air stream. The amount of time that the saturated air remains in contact with the absorption material dictates the output air dew point (dryness) of the product.



When compressed air enters the **GENERON®** system through coalescing filters, 99.999% of oil, water and liquid contaminants are removed. The filtered air is then directed by the solid state controller to the on-line tower where saturated air and water vapor adhere to the desiccant in a process called “adsorption”.

While the on-line tower dries air, the off-line tower regenerates by purging the entrained moisture to atmosphere with a stream of dry air. The dry, clean air then exits the system through a dust removal filter into your plant distribution system.

**GENERON®** systems provide moisture free air down to a -40° or -100°F pressure dew point.

### **FEATURING:**

- Solid state controller and sensors
- Inlet and discharge filters
- Control air , tower pressure gauges, safety valves
- High performance switching & check valves
- ASME coded vessels and moisture indicator.
- High humidity & Failure to switch alarm
- Pressure dew points to -100°F
- Remote contacts

# GENERON

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# PSA HEATLESS DESICCANT DRYER SYSTEM

ISO 8573-1 International Standard for Compressed Air Quality Class 1.2.1 can be achieved with the standard **GENERON®** System and Filters. Higher Classes are possible with our options.

Maximum Inlet Temperature	°F	77	95	104	113	122
	°C	25	35	40	45	50
Correction Factor		1.0	1.0	0.97	0.88	0.73

Generon Model	Inlet Air Capacity		Instrument Air Flow		Approximate Dimensions in / mm					
	Scfm	Nm3/m	Scfm	Nm3/m	Width		Depth		Height	
<b>GTTD 200</b>	200	5.7	170	4.8	48	1229	31	782	86	2179
<b>GTTD 250</b>	250	7.1	213	6.0	48	1229	33	838	86	2179
<b>GTTD 300</b>	300	8.5	255	7.2	48	1229	33	838	86	2179
<b>GTTD 400</b>	400	11.3	340	9.6	81	2068	45	1145	92	2347
<b>GTTD 500</b>	510	14.4	434	12.3	81	2068	45	1145	94	2375
<b>GTTD 600</b>	650	18.4	553	15.6	81	2068	45	1145	95	2403
<b>GTTD 770</b>	770	21.8	655	18.5	81	2068	45	1145	100	2453
<b>GTTD 1000</b>	1000	28.3	850	24.1	119	3108	59	1509	97	2459
<b>GTTD 1200</b>	1200	34.0	1020	28.9	119	3018	59	1509	122	3101
<b>GTTD 1500</b>	1500	42.5	1275	36.1	125	3185	73	1844	110	2794
<b>GTTD 2000</b>	2000	56.6	1700	48.1	132	3353	73	1844	110	2794
<b>GTTD 2600</b>	2600	73.6	2210	62.6	158	4023	79	2012	121	3073
<b>GTTD 3000</b>	3000	85.0	2550	72.2	158	4023	79	2012	121	3073
<b>GTTD 4000</b>	4000	113.3	3400	96.3	211	5364	92	2347	123	3129
<b>GTTD 5000</b>	5000	141.6	4250	120.3	224	5700	92	2347	127	3213
<b>GTTD 6000</b>	6000	169.9	5100	144.4	224	5700	92	2347	125	3185

Minimum Pressure to Inlet of Dryer	Psig	87	102	116	131	145	160	174	189	203	218	232
	barg	6	7	8	9	10	11	12	13	14	15	16
Correction Factor		0.88	1.0	1.13	1.25	1.38	1.5	1.63	1.75	1.88	2.0	2.13

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