

Natural Gas Dryer Sizing & Desiccant Tablet Selection

The chart below shows [Natural Gas Pipeline Dryer](#) (PLD) sizes with flow capacities & pressure ranges. From this chart, pick the line which is your lowest operating pressure and read down to the capacity that matches or exceeds your flow rate. Then you can go to the left of the chart and pick the corresponding model group. Now select the model that meets or exceeds your maximum operating pressure.

Maximum Working Pressure:

280 PSIG = Model Suffix 2.8

720 PSIG = Model Suffix 7.2

1450 PSIG = Model Suffix 14.5

Example: PLD8-7.2 is a Pipeline Dryer 8" diameter vessel with a 720 psig MWP

NATURAL GAS DRYER CAPACITIES- MSCFD									
MODEL	10 PSIG	25 PSIG	50 PSIG	100 PSIG	200 PSIG	280 PSIG	500 PSIG	720 PSIG	1450 PSIG
PLD 8-2.8	16	25	41	72	140	195	xx	xx	xx
PLD 8-7.2	15	24	39	70	130	180	315	450	xx
PLD 8-14.5	14	22	37	65	120	170	300	420	830
PLD 12-2.8	30	50	80	140	265	360	xx	xx	xx
PLD 12-7.2	28	45	75	130	245	335	585	835	xx
PLD12-14.5	26	42	70	120	225	310	540	770	1535
PLD 16-2.8	50	80	125	225	415	570	xx	xx	xx
PLD 16-7.2	45	75	120	215	400	550	975	1400	xx
PLD16-14.5	40	70	115	200	375	515	900	1300	2570
PLD 20-2.8	75	120	195	340	640	875	xx	xx	xx
PLD 20-7.2	70	115	190	330	620	850	1485	2120	xx
PLD20-14.5	65	110	175	310	580	800	1400	2000	3980
PLD 24-2.8	110	175	280	500	935	1280	xx	xx	xx
PLD 24-7.2	105	165	270	480	900	1230	2150	3075	xx
PLD24-14.5	100	155	255	450	845	1160	2020	2890	5765
PLD 30-2.8	171	275	447	793	1485	2038	xx	xx	xx
PLD 30-7.2	161	258	421	747	1398	1918	3350	4783	xx
PLD30-14.5	147	236	685	683	1278	1754	3063	4372	8715
PLD 36-2.8	260	415	675	1190	2230	3075	xx	xx	xx
PLD 36-7.2	260	415	675	1190	2230	3075	5350	7625	xx
PLD36-14.5	260	415	675	1190	2230	3075	5340	7625	14200

The water chart below shows the saturated water vapor content in Lbs/MMSCF for natural gas. With one of our 3 GasDry Desiccants, you can lower the water content to a level suitable for your [Fuel Gas Dryer](#) or [Instrument Gas Dryer](#) requirements.

- GasDry Prime 55% RH
- GasDry Peak 33% RH**
- GasDry Max 13% RH

As an example, GasDry Prime provides a 55% RH level. So, looking at the chart for natural gas at 500 psig, 75F, the water content is 48 lbs water/mmscf. You would take 48 lbs water x .55 (55% RH) = 26.4 lbs water/mmscf on the gas after flowing through the gas dryer filled with GasDry prime.

The same holds for Peak or Max. Just multiply the water content by the corresponding RH level to get a water content figure after flowing through the desiccant tablets.

For flows or vessels larger than listed please contact us. We have several Natural Gas Pipeline Dryers above 36" diameter. Also, we can place dryers in series or parallel arrangements to suit your operating conditions.

**GasDry Peak not recommended over 80F.

Natural Gas Water vapor content in pounds per million standard cubic feet (MMSCF)

	0	5	10	25	50	75	100	125	150	175	200	250	300	350	400	500	750	1000	1500	
	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG
100° F	3083	2305	1841	1151	712	518	409	338	289	253	225	186	159	139	124	103	74	60	45	
80° F	1649	1233	985	617	382	278	220	182	156	137	122	101	86	76	68	56	41	33	26	
75° F	1396	1044	834	522	324	236	186	155	132	116	104	86	73	64	58	48	35	29	22	
70° F	1178	881	704	441	273	199	157	131	112	98	88	72	62	55	49	41	30	24	19	
65° F	993	743	594	372	231	168	133	110	95	83	74	61	53	46	42	35	26	21	16	
60° F	836	625	500	313	194	142	112	93	80	70	63	52	45	39	35	30	22	18	14	
55° F	696	520	416	261	162	118	94	78	67	59	52	43	40	33	30	25	18	15	12	
50° F	580	434	347	218	135	99	78	65	56	49	44	36	34	28	25	21	16	13	10.0	
45° F	481	360	288	180	112	82	65	54	46	41	37	30	26	23	21	18	13	11	8.5	
40° F	397	297	237	149	93	68	54	45	38	34	30	25	22	19	17	15	11	9.0	7.2	
35° F	326	244	195	123	76	56	44	37	32	28	25	21	18	16	14	12	9.1	7.6	6.0	