



Air Products and Chemicals, Inc.
 7201 Hamilton Boulevard
 Allentown, PA 18195-1501
 Telephone (610) 481-4911

PRISM® Nitrogen System Performance
Supply Air Pressure: 100 PSIG

Nitrogen (SCFH)

% Nitrogen Product Purity*

Model	99.9	99.5	99.0	98.0	97.0	96.0	95.0
1100	9	16	22	31	40	49	59
1200	18	32	44	62	79	97	117
1300	27	48	65	93	119	146	176
1400	36	64	87	124	159	195	234
1500	45	81	110	157	201	247	297
1600	60	108	147	209	268	329	395
1700	75	136	184	262	336	412	494
1800	90	163	221	314	403	494	593
2020	59	110	151	217	279	343	410
2040	118	221	302	435	559	685	820
2060	177	331	453	652	838	1028	1229
2080	236	442	604	869	1117	1370	1639

Typical Feed Air (SCFM)

% Nitrogen Product Purity

Model	99.9	99.5	99.0	98.0	97.0	96.0	95.0
1100	1.3	1.4	1.5	1.8	2.0	2.1	2.3
1200	2.6	2.9	3.2	3.5	3.9	4.3	4.6
1300	3.9	4.4	4.7	5.3	5.8	6.4	7.0
1400	5.2	5.8	6.3	7.0	7.8	8.6	9.4
1500	6.6	7.4	7.9	8.9	9.9	10.8	11.8
1600	8.7	9.8	10.7	12.0	13.2	14.5	15.7
1700	10.9	12.2	13.3	15.0	16.5	18.0	19.7
1800	13.1	14.7	16.0	17.9	19.7	21.7	23.7
2020	8.9	9.9	10.7	11.9	13.1	14.3	15.5
2040	17.7	19.7	21.3	23.9	26.2	28.5	31.0
2060	26.6	29.6	32.0	35.8	39.3	42.8	46.5
2080	35.4	39.5	42.6	47.7	52.4	57.1	62.0

Notes:

1. Nitrogen purities include a small amount of argon, an inert gas, and the balance (100 %- nitrogen) consist of mostly oxygen.
2. Air at skid edge must be free of liquid and water (maximum dewpoint=110°F; maximum oil content=2-ppmw).
- 3a. PRISM 1000 Systems are for INDOOR use only. Compressed and ambient air extremes between 60 and 110°F.
- 3b. PRISM 2000 Systems are for INDOOR use only. Compressed and ambient air extremes between 50 and 110°F.
4. Compressor selection must consider local site conditions including elevation, relative humidity, and temperature. Air rates shown are for sea level, 70F, and 0% relative humidity.
5. Shaded areas, if applicable, require high voltage heater.



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PRISM® Nitrogen System Performance
Supply Air Pressure: 110 PSIG

Nitrogen (SCFH)

% Nitrogen Product Purity*

Model	99.9	99.5	99.0	98.0	97.0	96.0	95.0
1100	10	18	25	35	45	55	66
1200	20	37	49	71	91	111	133
1300	30	55	74	106	136	166	199
1400	40	73	99	141	181	222	265
1500	51	93	125	179	229	281	336
1600	68	124	167	239	306	375	448
1700	86	155	209	299	382	469	560
1800	103	185	250	358	459	562	672
2020	68	127	179	249	320	392	469
2040	136	254	358	498	639	784	937
2060	204	380	538	747	959	1176	1406
2080	272	507	717	996	1279	1567	1874

Typical Feed Air (SCFM)

% Nitrogen Product Purity

Model	99.9	99.5	99.0	98.0	97.0	96.0	95.0
1100	1.4	1.7	1.8	2.0	2.2	2.4	2.6
1200	2.9	3.2	3.5	4.0	4.4	4.7	5.2
1300	4.3	4.8	5.3	5.9	6.5	7.2	7.8
1400	5.7	6.4	6.9	7.9	8.7	9.6	10.5
1500	7.3	8.1	8.8	10.0	11.0	12.1	13.2
1600	9.7	10.9	11.8	13.3	14.7	16.2	17.6
1700	12.1	13.5	14.7	16.6	18.4	20.1	22.0
1800	14.5	16.3	17.7	20.0	22.0	24.2	26.4
2020	9.8	11.0	11.9	13.4	14.7	16.0	17.4
2040	19.7	22.0	23.8	26.7	29.4	32.1	34.9
2060	29.5	33.0	35.7	40.1	44.1	48.1	52.3
2080	39.4	44.0	47.6	53.5	58.8	64.1	69.8

Notes:

1. Nitrogen purities include a small amount of argon, an inert gas, and the balance (100-% nitrogen) consist of mostly oxygen.
2. Air at skid edge must be free of liquid and water (maximum dewpoint=110°F; maximum oil content=2-ppmw).
- 3a. PRISM 1000 Systems are for INDOOR use only. Compressed and ambient air extremes between 60 and 110°F.
- 3b. PRISM 2000 Systems are for INDOOR use only. Compressed and ambient air extremes between 50 and 110°F.
4. Compressor selection must consider local site conditions including elevation, relative humidity, and temperature. Air rates shown are for sea level, 70F, and 0% relative humidity.
5. Shaded areas, if applicable, require high voltage heater.



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PRISM® Nitrogen System Performance
Supply Air Pressure: 120 PSIG

Nitrogen (SCFH)

% Nitrogen Product Purity*

Model	99.9	99.5	99.0	98.0	97.0	96.0	95.0
1100	11	21	28	40	51	62	74
1200	23	41	56	79	102	124	148
1300	34	62	83	119	152	186	223
1400	46	82	111	159	203	249	297
1500	58	104	141	201	258	315	376
1600	77	139	188	268	343	420	502
1700	97	174	235	335	429	525	627
1800	116	209	282	402	515	630	752
2020	77	143	196	281	361	442	528
2040	154	287	391	562	721	884	1056
2060	231	430	587	843	1082	1326	1585
2080	308	573	783	1124	1443	1767	2113

Typical Feed Air (SCFM)

% Nitrogen Product Purity

Model	99.9	99.5	99.0	98.0	97.0	96.0	95.0
1100	1.5	1.8	1.9	2.2	2.4	2.6	2.9
1200	3.1	3.5	3.9	4.4	4.8	5.3	5.7
1300	4.7	5.3	5.7	6.5	7.3	7.9	8.7
1400	6.3	7.0	7.7	8.7	9.6	10.6	11.6
1500	7.9	8.9	9.8	11.0	12.2	13.4	14.6
1600	10.6	12.0	13.0	14.7	16.3	17.8	19.5
1700	13.2	15.0	16.3	18.4	20.4	22.3	24.3
1800	15.8	17.9	19.5	22.0	26.7	26.7	29.3
2020	10.8	12.1	13.2	14.8	16.3	17.8	19.4
2040	21.7	24.3	26.3	29.6	32.6	35.6	38.8
2060	32.5	36.4	39.5	44.4	48.9	53.4	58.2
2080	43.4	48.6	52.7	59.2	65.2	71.2	77.6

Notes:

1. Nitrogen purities include a small amount of argon, an inert gas, and the balance (100-% nitrogen) consist of mostly oxygen.
2. Air at skid edge must be free of liquid and water (maximum dewpoint=110°F; maximum oil content=2-ppmw).
- 3a. PRISM 1000 Systems are for INDOOR use only. Compressed and ambient air extremes between 60 and 110°F.
- 3b. PRISM 2000 Systems are for INDOOR use only. Compressed and ambient air extremes between 50 and 110°F.
4. Compressor selection must consider local site conditions including elevation, relative humidity, and temperature. Air rates shown are for sea level, 70F, and 0% relative humidity.
5. Shaded areas, if applicable, require high voltage heater.

PRISM® Nitrogen System Performance

Supply Air Pressure: 125 PSIG

Nitrogen (SCFH)

% Nitrogen Product Purity*

Model	99.9	99.5	99.0	98.0	97.0	96.0	95.0
1100	12	22	29	42	54	65	78
1200	24	43	59	83	107	131	154
1300	36	65	88	125	161	196	235
1400	48	87	107	167	214	263	314
1500	61	110	148	212	267	335	397
1600	81	147	198	283	362	443	530
1700	102	184	248	353	453	554	662
1800	122	220	297	424	544	665	-
2020	81	151	207	297	381	467	558
2040	163	303	414	594	763	934	1116
2060	244	455	621	891	1144	1401	1675
2080	326	606	828	1189	1526	1868	2233

Typical Feed Air (SCFM)

% Nitrogen Product Purity

Model	99.9	99.5	99.0	98.0	97.0	96.0	95.0
1100	1.6	1.9	2.0	2.3	2.5	2.8	3.1
1200	3.3	3.7	4.2	4.6	5.1	5.6	6.1
1300	5.0	5.6	6.0	6.9	7.6	8.3	9.1
1400	6.6	7.4	8.1	9.1	10.1	11.1	12.2
1500	8.3	9.4	10.3	11.6	12.8	14.0	15.4
1600	11.1	12.5	13.6	15.4	17.1	18.7	20.5
1700	13.8	15.7	17.4	19.3	21.4	23.4	25.5
1800	16.6	18.8	20.4	23.1	25.6	28.1	-
2020	11.3	12.7	13.8	15.6	17.1	18.7	20.4
2040	22.7	25.5	27.6	31.1	34.2	37.4	39.4
2060	34.0	38.2	41.4	46.6	51.3	56.1	61.2
2080	45.4	50.9	55.2	62.1	68.4	74.8	78.3

Notes:

1. Nitrogen purities include a small amount of argon, an inert gas, and the balance (100 %- nitrogen) consist of mostly oxygen.
 2. Air at skid edge must be free of liquid oil and water (maximum dewpoint = 110 deg F; maximum oil content = 20 ppmw).
 - 3a. PRISM 1000 Systems are for INDOOR use only. Compressed and ambient air extremes between 60 and 110 deg F.
 - 3b. PRISM 2000 Systems are for INDOOR use only. Compressed and ambient air extremes between 50 and 110 deg F.
 4. Compressor selection must consider local site conditions including elevation, relative humidity, and temperature. Air rates shown are for sea level, 70 deg F, and 0% relative humidity.
 5. Shaded areas, if applicable, require high voltage heater.
- Please contact Air Products Permea for recommendations if the above requirements cannot be met or if special engineering is required.

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