



Reduce Costs, Increase Profits!

Using an in-house nitrogen generator to supply your nitrogen gas demand is the easiest way to reduce nitrogen related costs, and thus increase profits.

The Spirit™ system is a membrane based nitrogen generator designed with flexibility in mind for growing companies. Completely self-contained, the base model includes all filtration needed even with an oil-flooded compressor.

Controls are manual, but options are available to automate start and stop and continuous display of purity.

Major Features:

- Electricity not required on base models
- Low to Moderate capacities
- Manual control standard (options available)
- Fits through standard 36" door
- Connect compressed air and go!

NITROGEN PRODUCT FLOWRATE (SCFH)						
INLET PRESSURE (psig)	99.5%	99%	98%	97%	96%	95%
75	112	158	224	288	355	419
85	142	198	280	355	433	523
95	168	235	332	422	519	616
105	198	272	388	489	601	713
135	284	384	552	702	855	1019
145	314	422	608	773	944	1124
155	336	459	657	836	1019	1213
165	366	500	713	907	1105	1318
175	396	537	769	978	1194	1422
185	426	579	825	1053	1284	1530
195	455	620	885	1127	1374	1639
205	489	661	941	1202	1467	1751
215	519	702	1000	1277	1556	1859
225	549	742	1056	1351	1645	1961

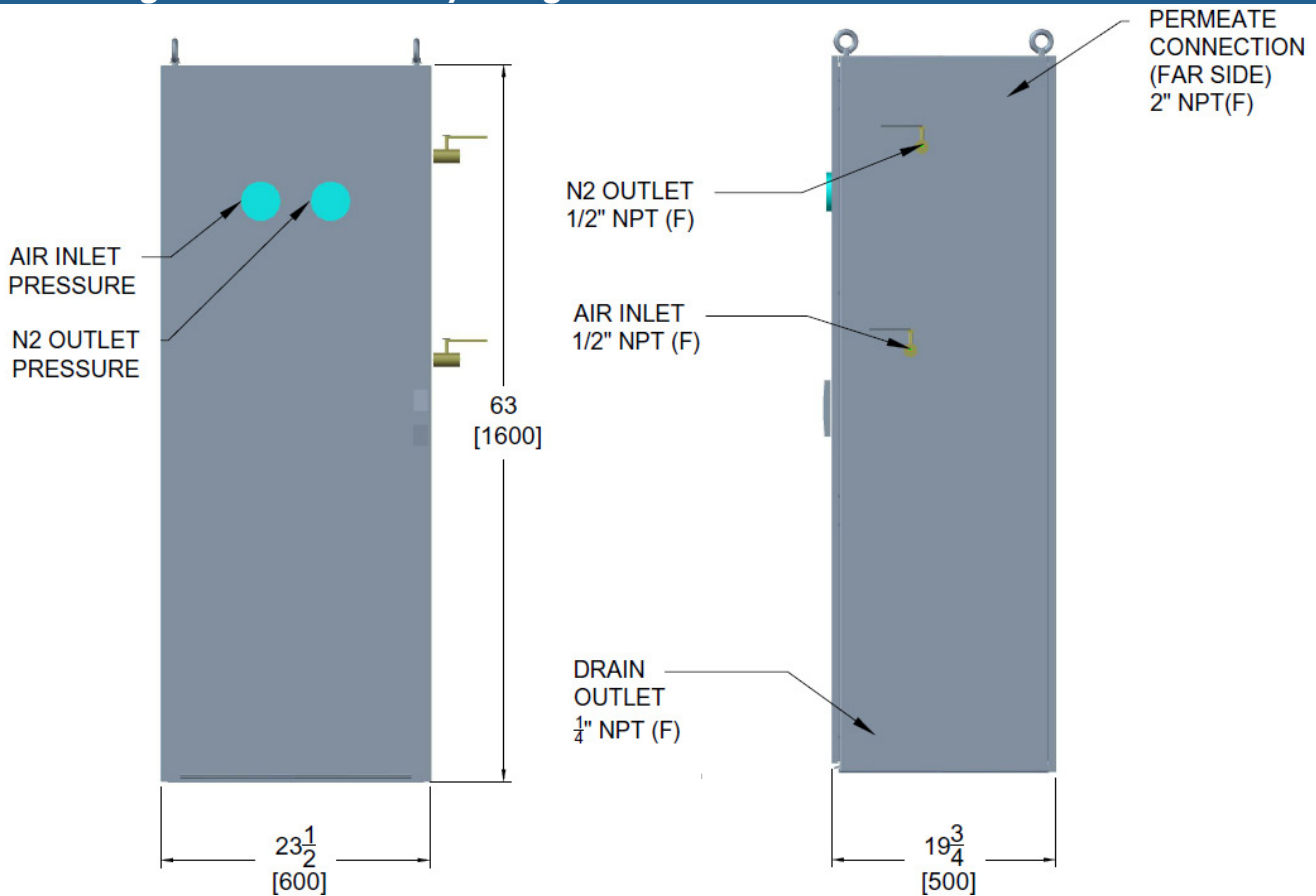
FEED AIR TO NITROGEN RATIO (MULTIPLIER)						
INLET PRESSURE (psig)	99.5%	99%	98%	97%	96%	95%
75	4.90	4.00	3.10	2.60	2.50	2.20
85	4.80	3.90	3.00	2.60	2.40	2.20
95	4.70	3.80	3.00	2.60	2.40	2.20
105	4.60	3.80	3.00	2.50	2.40	2.10
135	4.30	3.60	2.80	2.50	2.30	2.10
145	4.20	3.50	2.80	2.50	2.20	2.10
155	4.20	3.40	2.80	2.50	2.20	2.10
165	4.10	3.40	2.70	2.50	2.20	2.10
175	4.00	3.40	2.70	2.40	2.20	2.00
185	4.00	3.30	2.70	2.40	2.20	2.00
195	4.00	3.30	2.70	2.40	2.20	2.00
205	3.90	3.30	2.70	2.40	2.10	2.00
215	3.90	3.30	2.70	2.40	2.10	2.00
225	3.90	3.30	2.70	2.40	2.10	2.00

All models installed in NEMA-12 cabinet (pictured top left). Production for the HSS-30 is listed above assuming 77 °F. Please consult Holtec for other temperatures. For systems with multiple separators, consult the correction factor table at right.

Production Correction factors	
HSS-30	x1
HSS-60	x2
HSS-90	x3



Typical Arrangement - (Tie-ins may change)



Additional specifications

Operating Pressure Range:	70 psig - 232 psig
Minimum Operating Temperature:	34 °F
Maximum Operating Temperature:	158 °F
Compressed Air Quality:	ISO 8573-1:2010 Class 1.4.1 (After filtration) Activated carbon bed recommended if oil-flooded compressor is used.
Ambient Air Concerns:	Caustic or corrosive compounds, solvent vapors, hydrogen sulfide, freon, paints, etc.
Electrical Requirements:	< 0.12kW (if option "E" Chosen)

Options:

- E - Electrical On/Off Control
 - PLC/HMI
 - Solenoid
 - Angle-seat on/off valve
- P - Pneumatic On/Off Control
 - Pressure switch
 - Angle-seat on/off valve
- X - Process Air Heater
- No options - Turn nitrogen generator on and off as needed with a manual valve.

Note that compressed air quality is critical for the longevity of the nitrogen generator. Failure to operate according to the manufacturer instructions may cause damage to the separation media and this damage is not covered under Holtec Warranty.

