

# i-FlowLab Prime & Mini

High flow, high purity, expandable nitrogen generator

Part Number : Visit [peakscientific.com](https://www.peakscientific.com)

Service Kit : Visit [peakscientific.com](https://www.peakscientific.com)



Your local **gas generation** partner

## Description

i-FlowLab is a modular & scalable nitrogen generation system that is capable of producing a continuous supply of nitrogen gas at a stable purity to meet the full and varying demands of your research facility. Harnessing the latest in gas purification technologies, i-FlowLab is the most cost effective, efficient and economical nitrogen gas generation system available on the market. It is capable of delivering nitrogen at a wide range of purities and flow rates that can be pre-configured depending on your laboratory's needs. i-FlowLab can supply your entire laboratory to provide gas for LC-MS, gloveboxes, GC, sample preparation, headspace and many other applications.

i-FlowLab is the culmination of Peak Scientific's innovation and technological expertise. It builds upon two decades of experience as industry leading gas generation specialists for laboratory applications. Designed & engineered in the UK by an ISO 9001 accredited manufacturer, i-FlowLab utilizes the latest pressure swing adsorption (PSA) technologies, optimized for maximum energy efficiency, with over 100 preconfigured flow rates (11 - 5590 l/min) and purities (up to 99.9995%) specifications.

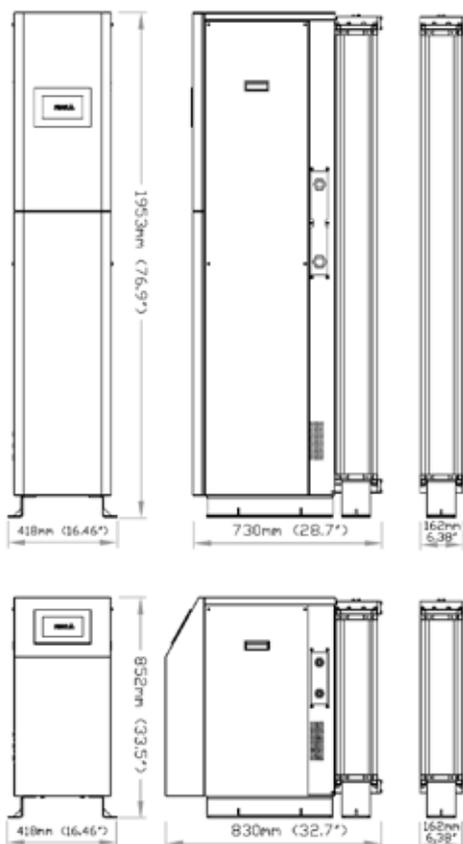
## Applications

- LC-MS
- ELSD
- Sample Evaporators
- NMR
- FT/MS



## Key Features

- **Nitrogen gas, on-demand** - 14 models, capable of supplying up to 5590 l/min of high quality nitrogen gas, at purities ranging from 95 - 99.9995%
- **Economical & sustainable** - A cost effective, environmentally friendly solution, that eliminates the need for ongoing bulk nitrogen gas deliveries
- **Modular expandability** - Future-proof design, allows columns & generator units to be added as business needs grow
- **Energy saving efficiency** - Our innovative 'Standby-Mode', coupled with optimized air usage technologies & low compressed air demand, ensure i-Flow has the lowest running costs
- **Quality guaranteed** - With our built-in PurityGuard™ gas monitoring, application safeguard system and integrated air filtration, we guarantee your gas supply is never compromised
- **Verified industry compliance** - Independently validated, exceeding standards set out by EIGA, EC Food Grade, European Pharmacopoeia, JECFA & US FDA.
- **Safe on-site gas supply** - No more health & safety concerns over manual handling, hazardous deliveries & storage of highly pressure cylinders or cryo-liquid tanks.



i-FlowLab Prime & MiniPrime Dimensions

# Technical Specifications

		Flow Rates L/min*									
Product Name		Prime 701X	Prime 702X	Prime 703X	Prime 704X	Prime 705X	Prime 706X	Prime 707X	Prime 708X	Prime 709X	Prime 710X
N2 Purity	O2 Content	i-Flow 7XX3									
99.9995%	5ppm	43	90	137	163	198	250	288	325	359	402
99.999%	10ppm	58	116	174	217	263	333	383	434	477	535
99.995%	50ppm	84	168	252	333	412	499	578	658	737	817
99.99%	100ppm	94	188	282	376	470	564	658	752	846	931
N2 Purity	O2 Content	i-Flow 7XX2									
99.95%	500ppm	129	257	386	515	643	772	901	1030	1158	1287
99.9%	1000ppm	152	296	441	587	735	868	1012	1150	1287	1430
N2 Purity	O2 Content	i-Flow 7XX1									
99.5%	0.50%	224	441	651	846	1056	1264	1468	1677	1880	2097
99%	1%	275	549	766	1048	1280	1536	1790	2046	2504	2780
98%	2%	354	709	962	1222	1540	1851	2140	2436	2726	3022
97%	3%	441	836	1171	1482	1848	2276	2624	2986	3369	3731
96%	4%	523	941	1323	1612	2053	2464	2875	3285	3696	4106
95%	5%	581	1084	1591	2003	2384	2957	3583	4017	4403	4919
Dimensions mm (inch) W x H x D		Min. 418 (16.5) x 1953 (76.9) x 1953 (76.9) - Max. 418 (16.5) x 1953 (76.9) x 2188 (86.1)									
Weight kg (lbs)		179 (394)	257 (566)	335 (737)	413 (909)	501 (1102)	579 (1274)	657 (1446)	735 (1617)	813 (1789)	891 (1960)
Shipping weight kg (lbs)		203 (447)	285 (627)	366 (805)	447 (984)	539 (1186)	620 (1364)	701 (1542)	783 (1723)	864 (1901)	945 (2079)
Noise Level		80dBa @ 1m									

\*Performance data is based on a stable 8.5 bar(g) inlet pressure & 20-25 deg C ambient temperature. (Flow reference conditions, 20 deg C, 1013 millibar (a), 0% Relative Humidity)

		Flow Rates L/min*			
Product Name		Mini 701X	Mini 702X	Mini 703X	Mini 704X
N2 Purity	O2 Content	i-Flow 7XX3-M			
99.9995%	5ppm	14	29	43	52
99.999%	10ppm	19	37	56	70
99.995%	50ppm	27	53	77	99
99.99%	100ppm	30	59	87	114
N2 Purity	O2 Content	i-Flow 7XX2-M			
99.95%	500ppm	41	84	120	160
99.9%	1000ppm	49	95	142	188
N2 Purity	O2 Content	i-Flow 7XX1-M			
99.5%	0.50%	72	142	209	272
99%	1%	88	176	246	332
98%	2%	114	226	319	402
97%	3%	142	268	376	476
96%	4%	168	302	425	518
95%	5%	187	348	511	643
Dimensions mm (inch) W x H x D		Min. 418 (16.5) x 853 (33.6) x 830 (32.7) - Max. 418 (16.5) x 853 (33.6) x 1316 (51.8)			
Weight kg (lbs)		96 (211)	132 (291)	178 (392)	214 (471)
Shipping weight kg (lbs)		115 (253)	153 (337)	202 (444)	240 (528)
Noise Level		59dBa @ 1m			

\*Performance data is based on a stable 8.5 bar(g) inlet pressure & 20-25 deg C ambient temperature. (Flow reference conditions, 20 deg C, 1013 millibar (a), 0% Relative Humidity)

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Peak Scientific's Quality Management System conforms to: ISO:9001:



## Product Certifications

