

i-Flow Prime & Mini

High flow, high purity, expandable nitrogen generator

Part Number : Visit peakgas.com

Service Kit : Visit peakgas.com



Description

i-Flow Prime & Mini are a modular & scalable range of on-site nitrogen generation systems, capable of producing a continuous supply of nitrogen gas to meet the demands of industrial manufacturing and processing applications. Harnessing the latest in gas purification technologies, the i-Flow range are the most cost effective, energy efficient and economical nitrogen generation systems available on the market. They deliver a wide range of customizable purities and flow rates on a large scale and are suitable for use in numerous industries, including food & beverages, pharmaceuticals & biotechnology, chemicals, electronics, metal fabrication, plastics, rubbers and many more.

i-Flow Prime & Mini generators are the culmination of Peak Gas Generation's innovations and technological expertise. They build upon over two decades of experience as industry leading gas generation specialists. Designed & engineered in the UK by an ISO 9001 accredited manufacturer, the i-Flow range utilizes the latest Pressure Swing Adsorption (PSA) technologies, optimized for maximum energy efficiency, with over 100 preconfigured flow rates (0.85-285.08 m³/h / 30-10068 scfh) and purities (up to 99.9995%) specifications.

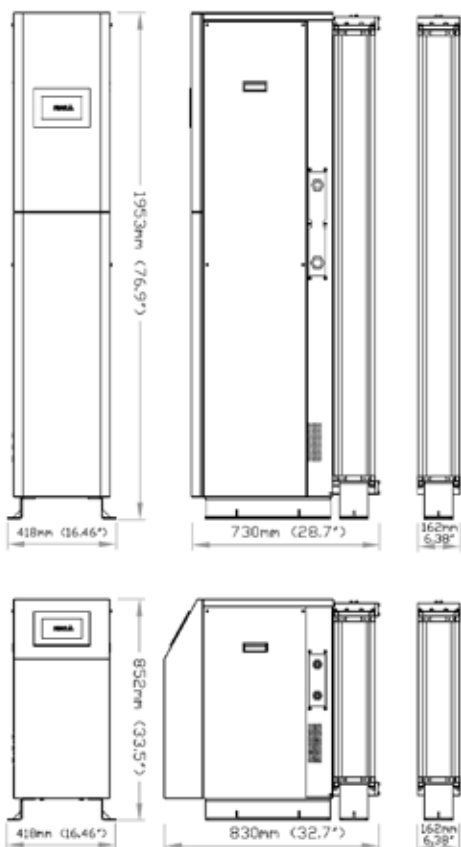


Applications

- Food packaging & storage
- Wine making & bottling
- Electronics assembly
- Laser cutting & metal fabrication
- Plastics injection blow moulding
- Chemical blanketing & inerting

Key Features

- **Nitrogen gas, on-demand** - 14 models, capable of supplying up to 285.08 M³/h / 10068 scfh 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-Flow Prime & Mini Dimensions

Technical Specifications

Flow Rates M³/h (scfh)*

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	2.66 (94)	5.50 (194)	8.43 (298)	10.03 (354)	12.16 (429)	15.35 (542)	17.66 (624)	19.96 (705)	22.00 (777)	24.67 (871)
99.999%	10ppm	3.55 (125)	7.10 (251)	10.65 (376)	13.31 (470)	16.15 (570)	20.41 (721)	23.51 (830)	26.62 (940)	29.28 (1034)	32.83 (1159)
99.995%	50ppm	5.15 (182)	10.29 (363)	15.44 (545)	20.41 (721)	25.29 (893)	30.61 (1081)	35.49 (1253)	40.37 (1426)	45.25 (1598)	50.13 (1770)
99.99%	100ppm	5.77 (204)	11.53 (407)	17.30 (611)	23.07 (815)	28.84 (1018)	34.60 (1222)	40.37 (1426)	46.14 (1629)	51.91 (1833)	57.14 (2018)
N2 Purity	O2 Content	i-Flow 7XX2									
99.95%	500ppm	7.90 (279)	15.79 (558)	23.69 (837)	31.59 (1116)	39.48 (1394)	47.38 (1673)	55.28 (1952)	63.17 (2231)	71.07 (2510)	78.97 (2789)
99.9%	1000ppm	9.32 (329)	18.19 (642)	27.06 (956)	36.02 (1272)	45.07 (1592)	53.24 (1880)	62.11 (2194)	70.54 (2491)	78.97 (2789)	87.75 (3099)
N2 Purity	O2 Content	i-Flow 7XX1									
99.5%	0.5%	13.75 (486)	27.06 (956)	39.93 (1410)	51.91 (1833)	64.77 (2288)	77.55 (2739)	90.06 (3181)	102.92 (3635)	108.94 (3847)	121.51 (4291)
99%	1%	16.86 (595)	33.72 (1191)	47.03 (1661)	64.33 (2272)	78.52 (2773)	94.23 (3328)	109.84 (3879)	118.57 (4188)	145.09 (5124)	161.13 (5691)
98%	2%	21.74 (768)	43.48 (1535)	59.00 (2084)	74.97 (2684)	94.49 (3337)	113.57 (4011)	124.02 (4380)	141.20 (4987)	157.96 (5579)	175.14 (6185)
97%	3%	27.06 (956)	51.28 (1811)	71.87 (2538)	90.95 (3212)	113.39 (4005)	131.90 (4658)	152.09 (5372)	173.04 (6111)	195.25 (6896)	216.20 (7636)
96%	4%	32.12 (1134)	57.76 (2040)	81.19 (2867)	98.93 (3494)	118.99 (4203)	142.79 (5043)	166.59 (5884)	190.39 (6724)	214.19 (7565)	237.99 (8405)
95%	5%	35.67 (1260)	66.55 (2350)	97.60 (3447)	116.06 (4099)	138.18 (4880)	171.37 (6052)	207.65 (7334)	232.79 (8222)	255.16 (9012)	285.08 (10068)
Dimensions mm (inch) W x H x D		Min. 418 (16.5) x 1953 (76.9) x 730mm (28.7in) - Max. 418 (16.5) x 1953mm (76.9in) x 2188 (86.1)									
Weight kg (lbs)		183 (403)	268 (590)	353 (777)	438 (964)	523 (1151)	608 (1338)	693 (1525)	778 (1712)	863 (1899)	948 (2086)
Shipping weight kg (lbs)		245 (539)	330 (726)	425 (935)	510 (1122)	655 (1441)	740 (1628)	825 (1815)	930 (2046)	1015 (2233)	1110 (2442)
Noise Level		80dBa @ 1m									

*Performance data is based on a stable 10 bar(g) inlet pressure & 20-25 deg C ambient temperature. (Flow reference conditions, 20 deg C, 1013 millibar (a), 0% Relative Humidity)

Flow Rates M³/h (scfh)*

Product Name		Mini 701X	Mini 702X	Mini 703X	Mini 704X
N2 Purity	O2 Content	i-Flow 7XX3-M			
99.9995%	5ppm	0.85 (30)	1.65 (58)	2.47 (87)	3.30 (117)
99.999%	10ppm	1.12 (40)	2.25 (79)	3.37 (119)	4.27 (151)
99.995%	50ppm	1.65 (58)	3.22 (114)	4.72 (167)	6.07 (215)
99.99%	100ppm	1.85 (65)	3.64 (129)	5.33 (188)	7.02 (248)
N2 Purity	O2 Content	i-Flow 7XX2-M			
99.95%	500ppm	2.54 (90)	5.13 (181)	7.36 (260)	9.79 (346)
99.9%	1000ppm	2.99 (106)	5.84 (206)	8.69 (307)	11.56 (408)
N2 Purity	O2 Content	i-Flow 7XX1-M			
99.5%	0.5%	4.42 (156)	8.69 (307)	12.82 (453)	16.66 (589)
99%	1%	5.41 (191)	10.82 (382)	15.10 (533)	20.38 (720)
98%	2%	6.98 (246)	13.84 (489)	19.57 (691)	24.64 (870)
97%	3%	8.69 (307)	16.46 (581)	23.07 (815)	29.20 (1031)
96%	4%	10.31 (364)	18.54 (655)	26.06 (920)	31.76 (1122)
95%	5%	11.45 (404)	21.36 (754)	31.33 (1107)	39.45 (1393)
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)		98 (215)	138 (304)	179 (393)	219 (482)
Shipping weight kg (lbs)		144 (317)	184 (405)	240 (528)	280 (616)
Noise Level		59dBa @ 1m			

*Performance data is based on a stable 10 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 Gas Generation's Quality Management System conforms to: ISO:9001:



Product Certifications

