

StirLIN

More than 3.000 l/day reliable on-site LN₂

Stirling Technology

For more than seventy years Stirling Cryogenics has designed and manufactured liquid nitrogen production systems, serving customers all over the world under all possible climatic conditions. This experience has culminated in our current range of plants called StirLIN, producing liquid nitrogen in quantities from 60 to more than 3.000 liters per day.

The fully automatic StirLIN allows the users to concentrate on their core activities eliminating all issues involved with the purchasing and logistics of bulk liquid nitrogen supply.

StirLIN systems

The StirLIN systems are a popular plug-and-produce solution that takes up minimal space and is ready to use. With the optional chiller no external cooling water supply is needed. Simply connect power and start producing your own liquid nitrogen. The liquid nitrogen is dispensed using a hose and hand valve, or automatically with tank connections to hard-piped dispensing lines.

Operators only need to replace filters and perform routine checks between maintenance intervals of 8.000 operating hours.

Typical StirLIN features

- Easy Installation
- Fully automatic operation by PLC
- Easy liquid nitrogen dispense
- Efficient production
- Low noise level
- Built for stringent climatic conditions
- Connectable to all power supplies
- Worldwide service & maintenance

StirLITE, Economy & Compact



StirLIN-1 Extendible & StirLIN-2



StirLIN-4 (Extendible) & StirLIN-8





StirLIN Specifications

STIRLING
CRYOGENICS

Specifications		StirLITE	StirLIN-1 Economy	StirLIN-1 Compact	StirLIN-1 Extendible	StirLIN-2	StirLIN-4	StirLIN-4 Extendible	StirLIN-8
Liquid nitrogen production* at nominal operating conditions	[l/h]								
• 1 bar(g) purity 99% nitrogen + inerts		2,9	5,8	11,5	11,5 (97,7%)	23	48	48 (99,7%)	97
• 3 bar(g) purity 98% nitrogen + inerts		3,5	7	14	14 (99,5%)	29	64	64 (99,5%)	124
• 5 bar(g) purity 98% nitrogen + inerts				16,5	16,5 (99,5%)	33	75	75 (99,5%)	151
• Other purities					○	○	○	○	○
Power consumption** (supplied in 200V-480V, 50Hz-60Hz***)	[kW]	8	11	21	27	34	69	77	122
Water consumption (at 15°C, incl. 20% EG)	[l/h]	750	750	1.000	1.000	2.000	4.500	4.500	9.000
Noise	[dBA]	72	72	72	72	74	72	72	74
System size (l x w x h, external chiller not incl.)	[m]	2,10 2,30 2,15	2,10 2,30 2,15	2,10 2,30 2,15	3,50 3,50 1,80	3,50 3,50 1,80	4,90 3,65 2,00	4,90 4,35 2,00	4,90 4,35 3,00
Advised room size (l x w x h, external chiller not incl.)	[m]	3,75 3,50 3,00	3,75 3,50 3,00	3,75 3,50 3,00	5,00 4,80 3,00	5,00 4,80 3,00	6,50 4,80 3,00	6,50 5,80 3,00	6,50 5,80 3,00
Weight	[kg]	1.350	1.425	1.500	1.600	2.200	4.000	4.150	5.200
Liquid nitrogen storage capacity (max pressure 5 barg)****	[l]								
• 200 l		●							
• 300 l		○	●						
• 500 l		○	○	●					
• 1.000 l				○					
• 2.000 l					●	●	○	○	○

● Standard

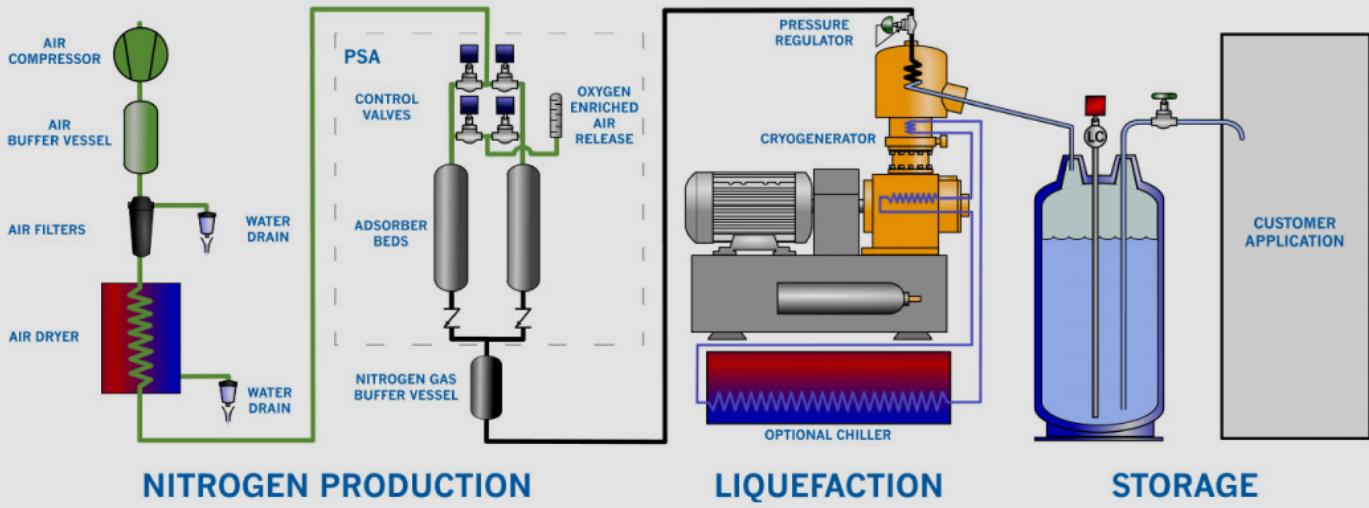
○ Option

* Usable liters at atmospheric pressure will be different depending on liquefaction pressure

** Power consumption is excl. optional chiller

*** Power supply can influence the design and construction

**** Other storage capacities are possible, but not as a standard option



StirLIN Options

- Water chiller
- Spare parts & tools
- Maintenance training
- Voltage stabilizer
- Liquid nitrogen handling package
- Remote monitoring
- Automatic transfer system
- Full maintenance contract

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