

StirLIN -1 Economy

Reliable 120 l/day on site LN₂ supply



The StirLIN-1 Economy plant is a popular, plug and produce solution. It takes up little space, is pre-calibrated and ready to go to work. With the integrated chiller no external cooling water supply is needed. Simply connect power and start producing your own liquid nitrogen. Plug and produce liquid nitrogen supply Where you need it, when you need it!

The liquid is dispensed through a flexible hose by opening a valve. The power consumption is 13 kW. Operators only need to replace filters and perform routine checks between maintenance intervals which is 6000 operating hours.

Specifications

• Liquid nitrogen production (l/h) at nominal operating conditions	
• 0 bar(g) purity 99% nitrogen + inerts (usable liters) (Extendible 99.7%)	5
• 1 bar(g) purity 99% nitrogen + inerts (Extendible 99.7%)	5.7
• 3 bar(g) purity 98% nitrogen + inerts (Extendible 99.5%)	14
• Power consumption including integrated chiller (kW)	13
• Power supply (3 phase) 200 to 480 V, 50/60 Hz *	
• Cooling water consumption (l/h at 15°C)	n.a.
• Height (m)	2.20
• Advised plant room (l x w x h in meters)	2.90 x 3.10 x 3.00
• Weight (kg)	1300
• Maximum floor load (kg/m ²)	1500
• Noise level (dBA)	70

Storage vessel

• Pressure (bar(g))	0.3 - 3
• Liquid nitrogen storage capacity	
• 200 l	●
• 300 l	○
• Level indication and control	●

Maintenance

• User manual	●
• Operator attention limited to routine checks and filter/oil changes	●
• Maintenance interval 6,000 hrs	●
• Consumable parts set	
0 to 12000 hrs	○
12000 to 24000 hrs	○
24000 to 36000 hrs	○
36000 to 48000 hrs	○
• Repair parts set	○
• Tool set maintenance	○
• Tool set service & repair	○

● Standard ○ Optional

* Power supply can influence the design and construction of the plant

** Depending on area / local service organisation

Services

• Help desk	●
• Installation, commissioning and operator training on site	○
• Maintenance engineer training at Stirling	○
• Post commissioning visit	○
• Maintenance contract	○

Optionals

• Generator set for power supply	○
• Voltage stabilizer for utility power stabilization	○
• Liquid nitrogen handling package (personal protection)	○

Standard Equipment

• Helium gas cylinder + regulator, Installation material**

Nominal Operating Conditions

• Plant room temperature 25°C, altitude 250m, relative humidity 95%,

Allowable Operating Conditions

• Plant room temperature 5 - 45°C, altitude 0 - 2000m, relative humidity 20 - 95%, power supply: voltage ± 5%, frequency: ± 2% (other conditions on request)

Standards

• European CE safety standard, IP43, IEC 60204 (other standards on request)

Features

• Integrated system diagnostics, oil free air compressor, integrated chiller: no cooling water needed, fully automatic start/stop and restart after power failures, no defrosting or purging required, 10 minutes start-up time to full production, single switch operation

All specifications at nominal operating conditions. All data are subject to alteration without prior notice. Pictures are intended to present a general idea of the products.

STRONG BELOW ZERO

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