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StirLITE

Plug and produce liquid nitrogen supply

The StirLITE liquid nitrogen plant is a plug and produce solution. It takes up little place, is precalibrated and has an associated chiller so no external cooling is needed. Simply connect the power and start producing your own liquid nitrogen.

- Power consumption: < 8 kW.
- Supply: easy withdrawal through flexible hose.
- Maintenance: easy routine every 6000 operating hours.

Specifications	
• Liquid nitrogen production l/h at nominal operating conditions • 0 bar(g) purity 99% nitrogen + inerts (usable liters)	2.5
• Power consumption with integrated chiller (kW)	< 8
• Power supply (3 phase) 220 to 480 V, 50/60 Hz *	
• Minimum advised plant room (l x w x h in meters)	4.00 x 3.50 x 3.00
• Weight (kg)	± 1000
• Noise level (dBA)	≤70

Storage Vessel	
• Pressure (bar(g))	1
• Liquid storage capacity • 200 l • Other storage capacities	● ○
• Level indication and control	●

Maintenance	
• Maintenance interval 6000 hrs	●
• Operator attention limited to routine checks and filter changes	●
• Consumable parts and tools 0 - 12000 hrs	○
• Consumable parts every 12000 hrs	○
• Repair parts	○
• Tool set maintenance	○
• Tool set service and repair	○
• User manual (digital and hardcopy)	○

Features
• Integrated system diagnostics, oil free 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

Services	
• Help desk (lifetime of plant)	●
• Post commissioning visit	○
• Installation, commissioning and operator training	○
• Maintenance engineer training at Stirling	○
• 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 250 m, relative humidity 95%

Allowable Operating Conditions
• Plant room temperature 5 - 45°C, altitude 0-1000 m, relative humidity 20 - 95%
• Power supply: voltage ± 5%, frequency ± 2% (other conditions on request)

Standards
• European CE safety standard, IP54, IEC 60204 (other standards on request)

● Standard ○ Optional

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

** Depending on area / local service organisation

All specifications at nominal operating conditions.
All data are subject to alteration without prior notice

STRONG BELOW ZERO

Stirling Cryogenics BV, Science Park Eindhoven 5003, 5692 EB Son, The Netherlands
Tel.: +31 (0)40 2677 300, Fax: +31 (0)40 2677 301, info@stirlingcryogenics.com, www.stirlingcryogenics.com