

液氮制造设备

在空气的成份中 78%都为氮气，因此空气可以提供丰富的氮源。AUelan2 系列液氮制造设备是以空气为氮源生产高纯度液氮的仪器。



该设备利用压缩机将空气压缩到 100PSI，利用不同气体在膜中溶解和扩散的速率不同使氮气和其它气体分离，可将廉价的空气中氮从 78% 提高到 98.6% 以上。然后经过两个过程使气体转换液体，首先经过 Kleemenko 循环制冷系统对压缩的氮气制冷到一个特殊的温度，然后减小气体的压力，产生焦耳-汤姆逊效应，使高纯度的氮气转变为液氮。液氮的纯度可达到 98.6%，每 24 小时可产生 8L 的液氮。是产生高纯液氮的理想设备。

AUelan2 系列液氮制造设备包含两种类型。

①小容量办公室应用液氮制造设备 (office station)

该液氮制造设备适用于对液氮小需求量的应用，在该仪器的内部包含一个 1L 的储物罐，产生的液氮可直接储存在储物罐，当内部容器充满时自动进入待机状态。液氮制造设备每天可产生 6L-8L 纯度为 98.6% (< 1% oxygen)的液氮。



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②氮气自动转移版本 (Autotransfer Station)

该版本有一个外接的 20L 杜瓦罐，该杜瓦罐的静态蒸发速率为 0.095L/天，产生的液氮可以直接转移到杜瓦罐里，杜瓦罐内有检测液体位置的设备，当杜瓦罐充满氮气时系统进入待机状态，直到杜瓦罐排空或者重启才会重新工作。液氮制造设备每天可产生 6L-8L 纯度为 98.6% (< 1% oxygen)的液氮。

◆产品特点

- ◇ 高稳定性
- ◇ 体积紧凑
- ◇ 低噪声
- ◇ 低功耗
- ◇ 氮气纯度高

◆主要应用

医疗中心、皮肤科、实验室等。

◆主要参数

型号 参数	Office Station	Autotransfer Station
Electrical Service		
Voltage:	115 VAC / 230 VAC	115 VAC / 230 VAC
Phase:	Single Phase	Single Phase
Frequency:	50Hz/60Hz	50Hz/60Hz
Power:	~900 Watts	~900 Watts
Operating Environment		
Temperature:	60 F to 77 F (16 C to 25 C))	60 F to 77 F (16 C to 25 C))
Humidity:	< 80% Relative Humidity	< 80% Relative Humidity
Dust:	Standard Office Environment	Standard Office Environment
Liquid Nitrogen Production		
Generation Rate:	250 mL/hour – 6.0 L per day as a minimum	6.0L - 8.0L per day
Storage Capacity:	1.0 L	20 liters **Static evaporation: 0.095 liters per day; Normal Working Duration: 135 days
Purity:	98.6% (< 1% oxygen)	98.6% (< 1% oxygen)
Dimensions		

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Generator:	14.5" wide x 14.5" deep x 33" high (37 cm wide x 37 cm deep x 94 cm high) 130 pounds (59 kilograms)	14.5" wide x 14.5" deep x 33" high (37 cm wide x 37 cm deep x 94 cm high) 130 pounds (59 kilograms)
Air Compressor: (Provided)	17.5" wide x 17.5" deep x 15" high (45 cm wide x 45 cm deep x 38 cm high) 60 pounds (27 kilograms) Air compressor must be located within 12 feet (3 meters) of the generator. Longer air lines up to 30ft are possible.	17.5" wide x 17.5" deep x 15" high (45 cm wide x 45 cm deep x 38 cm high) 60 pounds (27 kilograms) Air compressor must be located within 12 feet (3 meters) of the generator. Longer air lines up to 30ft are possible.

** The static evaporation rate, static holding time, and normal working duration are nominal, under normal operating conditions. Actually times may vary due to atmospheric conditions, manufacturing tolerances, and individual patterns of usage.

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