

# New Generation Liquid Nitrogen Plants

## CNP30 – Compact, Economic and Elegant

CNP30 arrives as a plug-and-liquify system with external compressor and chiller to lower the noise in the plant room.

A fully integrated design and one button operation allows you to place CNP series liquifiers in the research labs or clean rooms. Its modular design takes a little space and allows you to extend your liquification capacity. Simply make the electrical connections and produce your own liquid nitrogen by a fully automated operation with a user friendly interface of its PLC controller. Operator only needs to replace the filters and perform routine checks between maintenance intervals of 10000 operating hours.



Production Rate	≥ 30 liter/day
Electrical Rating	380/400/415VAC, 3Ph, 50Hz or 480VAC, 3 Ph, 60 Hz
Power Consumption (Steady State)	4kW @ 50Hz / 4.4kW @ 60Hz
Dimensions	765 mm (W) x 1430 mm (L) x 1388 mm (H)
Weight	400 kg (Empty) / 450 kg (Full)
Built-in Air Compressor	≥ 3,5 m <sup>3</sup> /hour @7 bar (60lpm@100psig)
Cryocooler	GM type cryocooler mounted on Dewar
Compressor	He, 99.999% purity @ 18.3-19bar (265-275psig), Air cooled (Water cooling is optional)
Human Machine Interface	6" Color Graphic Touch Screen
Dewar Volume	60 liters (32 gallons)
Operating Pressure	1.5 bar
Dewar Level Control	Capacitive level sensor
Features	Easy installation, fully automatic start and stop operation by PLC which supports efficient troubleshooting, the monitor displays the operational status of the plant and the failures triggered by safety devices and sensors, single switch operation, control all components through the diagnostic screen, LN <sub>2</sub> transfer by one button, Automatic re-start after power failure.
<b><u>Built-in Nitrogen Generator</u></b>	
Purity	≥ 99%
Dew Point	up to -70°C (-94°F)
Flow Rate	≥1 m <sup>3</sup> /hour
Ambient Temperature Range	+5°C to +40°C
Maximum Altitude	3 000 meters (10 000 feet)
Noise Level	< 65 dB @ 1 meter
Standards	CE Conformance – ISO 12100:2010, IEC 60204-1, 2006/42/EC, 97/23/EC; ISO9001:2015



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