

# New Generation Liquid Nitrogen Plants

## CNP60 – Compact, Economic and Elegant

CNP60 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  $\geq 60$  liter/day (2.5 litres/hour); 15.9 gal/day (0.66 gal/hour)

Electrical Rating 380/400/415VAC, 3Ph, 50Hz or 480VAC, 3 Ph, 60 Hz

Power Consumption (Steady State) 7kW @ 50Hz / 8kW @ 60Hz

Dimensions 830 mm (W) x 1495 mm (L) x 1388 mm (H)

Weight 400 kg (Empty) / 450 kg (Full)

Suggested Installation Area 3.5m (L) x 4m (W) x 3m (H)

Compressed Air Requirement  $\geq 7$  m<sup>3</sup>/hour @10 bar (147 psig)

Cooling Water Flow Rate 9 liters/min (2.4 gal/min) @ max. 8 bar (116 psig), 25 °C

Cryocooler GM type cryocooler mounted on Dewar

Compressor He, 99.999% purity @ 15-15.3bar (220-225psig)

Human Machine Interface 8" Color Graphic Touch Screen

Dewar Volume 120 liters (32 gallons), 200liter (optional)

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.

### Built-in Nitrogen Generator

Purity  $\geq 99\%$

Dew Point up to -70°C (-94°F)

Flow Rate 2 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



CNP is a registered trade mark of Imtek Cryogenics. Saray Mah. 50. Sok. No:13 Kahramankazan, Ankara, 06980, Turkey. Tel. +90 (312) 235 4309 - Fax. +90 (312) 235 4316 - info@imtekcryogenics.com - www.imtekcryogenics.com