

QLN2-XX – Nitrogen Liquefier Series

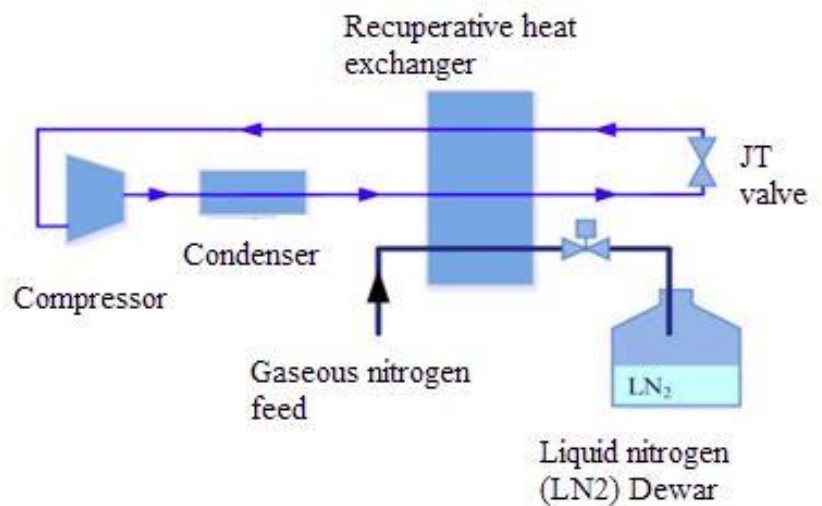
20-1000+ liters/day

QLN2-XX



Features:

Quantum Technology Corporation offers a wide range of Nitrogen Liquefiers with liquefaction capacities between 10 and 1000 liters/day or larger. Our liquefiers use advanced Mixed Refrigerants (MR) in a Joule – Thomson (JT) refrigerator system, driven by a single compressor. Compared with traditional cold-heads and Stirling cryocoolers, the MR-JT systems have higher liquefaction efficiency and improved reliability, due to the use of quasi-standard refrigeration equipment.



TECHNICAL PARAMETERS SMALLER UNITS

	QLN2-20	QLN2-50	QLN2-70	QLN2-120
Production rate L/day	20	50	70	120
Electrical rating	220-220-230/240 VAC, 1 Ph, 50 Hz 208-240 VAC, 1Ph, 60 Hz			
Power consumption @50 Hz	1.2kW	3kW	4kW	7kW
Dimension (WxLxH, mm)	560x750x1500	900x900x1500	900x900x1500	750x960x1950
Cooling water Flow rate (m3/h) at max 25C *	110/243	220/486	220/486	310/685
Ambient temperature range (C)	0.5	1.6	1.7	3
Noise level at 1 meter (dB)	5-40			
Nitrogen requirement	<65			
Flow rate(m3/hr)	1.5			
Purity	99%			
Dew Point (C)	<-70			
Pressure (barg)	>8			

TECHNICAL PARAMETERS LARGER UNITS

	QLN2-240	QLN2-500	QLN2-1000
Production rate L/day	240	500	1000
Electrical rating	380/415 VAC, 3 Ph, 50 Hz 460-480 VAC, 3Ph, 60 Hz		
Power consumption @50 Hz	10kW	18kW	32kW
Dimension (WxLxH, mm)	1400x1000x2000	1500x1200x2000	1600x1400x2000
Cooling water Flow rate (m3/h) at max 25C*	500/1100	720/1600	800/1770
Ambient temperature range (C)	5	8	10
Noise level at 1 meter (dB)	5-40		
Nitrogen requirement	<65		
Flow rate(m3/hr)	12	25	50
Purity	99%		
Dew Point (C)	<-70		
Pressure (barg)	>8		

** By specific request from the customer it is possible to include in the offer a Chiller that will provide the cooling water requirement

**If your nitrogen bill is significant or supply is un-reliable,
Quantum may have a solution for you.
Call +1 604 222 5539 to connect with our technical/sales staff.**