

JOURNEY  
OF  
AIR

0,41-2,33  
Nm<sup>3</sup>/min



## NITROGEN PURIFIER SYSTEMS

Most PSA Nitrogen Generator users require the highest levels of Nitrogen purity by the most cost-effective means possible.

Dalgakiran DCX Nitrogen Purifier System offers an extremely economic way to increase nitrogen purity levels beyond 99.9% all the way up to 99.9999% purity.

DCX is the true add-on technology for Nitrogen Generation applications requiring 1-5 ppm ultra high purity.

DCX can easily be integrated with already existing Nitrogen Generator System (free from brand) resulting in high purity nitrogen gas at minimum costs.



### Advantages

- Easily integration with any brand of Nitrogen Generator
- Power Savings up to 50%
- Reduced compressed air consumption
- More effective pay-back time compared to the DCX-free system
- Class 6.0 quality highest purity nitrogen
- Auto purity control system
- Easy maintenance - compact design
- Minimized installation area
- Cost-effective through low operating costs

## HOW IT WORKS?

The nitrogen gas obtained from a nitrogen generator is enriched with a minimum amount of hydrogen before it passes into the catalyst. The hydrogen reacts with the residual oxygen of the nitrogen, the chemical reaction being water vapor and heat, which are removed by filtration & drying.

Thanks to our innovative DCX system you can produce ultra-pure nitrogen with smaller air compressors.



### Properties

- Fast start-up time
- Inlet and outlet N<sub>2</sub> purity control
- Inlet and outlet N<sub>2</sub> pressure sensors
- N<sub>2</sub> inlet flow (m<sup>3</sup>/h) and N<sub>2</sub> total volume (m<sup>3</sup>) monitoring
- N<sub>2</sub> outlet dew point (°C)
- H<sub>2</sub> Inlet flow (l/h) and H<sub>2</sub> total volume (liters)
- DCX reactor temperature sensor (°C)
- DCX reactor with auto-heater & insulation
- Working hours counter
- Remote control and monitoring
- Industry 4.0

Model	Nitrogen Purity (%)	Capacity (Nm <sup>3</sup> /min)	Power Consumption (kW/h)	Voltage	Noise Level dB(A)
DCX 20	99,9999	0,41	20	230/1/50	55-85
DCX 40	99,9999	0,66	28	230/1/50	55-85
DCX 60	99,9999	0,83	35	230/1/50	55-85
DCX 80	99,9999	1,33	51	230/1/50	55-85
DCX 100	99,9999	1,58	60	230/1/50	55-85
DCX 150	99,9999	2,33	90	230/1/50	55-85