Nitrogen supply - on a higher level of safety and economic efficiency

The production of high quality Carbon Fiber requires reliable equipment such as provided by our partners Truetzschler, Eisenmann and Ruhstrat. Furthermore the installation of a High Purity Nitrogen Generation and Supply System is just as important as the selection of the main equipment. Nitrogen will be responsible to ensure quality and safety for Carbon Fiber Production. We at Cryotec offer these Nitrogen Generation and Supply Systems for Carbon Fiber Production for our customers worldwide.

Nitrogen Generation and Supply Systems
High Purity Nitrogen for Carbon Fiber Production

For general questions around nitrogen supply, please contact:
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The EPC Group is certified according to DIN EN ISO 9001:2008
Air separation plants for the generation of high purity nitrogen
High efficient and fail-safe

Our cryogenic air separation plants are designed for the generation of gaseous and liquid nitrogen. They operate highly efficient and produce nitrogen of highest purities. Each CRYOTEC plant is custom-made and can be equipped with various treatment processes according to specific requirements, applications and ambient conditions. On customer’s demand the plants can be equipped with redundant back-up-system, control-system and instrumentation which guarantees a high safety against failure and uninterrupted operation. The nitrogen generation plants are designed for automatic operation and will be delivered skid-mounted for fast and easy installation. For the energy supply of the unit several systems like natural gas, LPG or electricity can be utilized. With our independent Nitrogen Generation and Supply System we can ensure a high level of security in supply, a high product quality as well as highest flexibility for nitrogen volume. With your own independent nitrogen generation you are economically independent and prepared for any market situation.

COMPETITIVE ADVANTAGES
- Independence from other nitrogen suppliers
- Low investment & operating costs, energy-saving design
- High product quality because of reduced process distances
- High level of security in nitrogen supply (gaseous and liquid nitrogen)
- Peak nitrogen demand can be covered with liquid nitrogen storage
- High level of redundancy (e.g. ring net structure to production equipment)
- German quality for engineering services & equipment supply, short project realization time & start-up
- Plug & play equipment and systems, skid mounted units

HIGH PURITY NITROGEN GENERATION AND SUPPLY SYSTEM
as one key equipment for Carbon Fiber Production

NITROGEN - PRODUCED BY CRYOTECs AIR SEPARATION PLANTS
Technical details - requirements for a high quality Carbon Fiber Production

PERFORMANCE
- 2,000 – 2,500 Nm³/h (gaseous nitrogen flow rate)
- Storage of liquid nitrogen for 24 h or 72 h

NITROGEN QUALITY
- 5.0 (≥ 99.999 Vol.- %)
- < 2 ppm CH4 | < 3 ppm H2O
- < 0.2 ppm CH4/m³ | < 5 ppm CH4
- Dew point temperature: - 72 °C

PRESSURE
- Operating pressure, app.: 10 bar g
- Process pressure, app.: 8 bar g

UTILITIES | INFRASTRUCTURE | ELECTRICITY SUPPLY | NITROGEN SYSTEM

FURTHER EXAMPLES FOR APPLICATIONS OF NITROGEN
- Refineries, chemical and petrochemical industry
- Float glass production
- Synthetic material production and processing
- Semiconductor and solar industry
- Medicine (cryogenic applications)
- As refrigerant medium

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