

NITROGEN PURGING SYSTEM

Fulfills pollution control norms by decreasing temperature of the reactor quickly thus reduces the risk of any injury.

DESCRIPTION :

- Feed air compressor (screw type)
- Air receiver with pressure gauge, safety valve and pressure switch
- **PSA nitrogen plant consisting of**
 - 1) Composite bed
 - 2) Dust and oil removal filter and pre filter
 - 3) Twin tower PSA module with automatic change over valves
 - 4) Surge vessel with drain valve and instruments
 - 5) CMS (carbon molecular sieves) & activated alumina one charge filled in PSA towers
 - 6) Nitrogen 3 way vent valve, back pressure controller, set of pressure switches, pressure gauges, safety valve.
 - 7) Interconnecting piping within the skid
 - 8) Metal tube flow meters for nitrogen with flow control valve
 - 9) Centralized control panel with sequence programmer
 - 10) Online oxygen analyzer
 - 11) 500 ltr storage tank

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BENEFITS :

- By using nitrogen gas in reactor increase safety before opening reactor door
- Decrease cooling period of the pyrolysis process
- Helps to cool down carbon black & steel wire in the reactor
- It maintain efficiency of the process
- Nitrogen purity is very steady & reliable

CONTACT US

ADDRESS : Plot no.16, Khodiyar Estate,
Nr.Shakriba Estate, Phase-IV,
Vatva G.I.D.C, Ahmedabad - 382 445,
Gujarat, India

PHONE : +91 8980014640 / 21

MAIL : sales@fabhind.com

www.fabhind.com