

# NITROGEN INERT LOOP



Closed Loop System (inert Loop) With Condensation System ( $-25^{\circ}\text{C}$ ).  
 Special Purpose Oxygen Analyzer With Imported Electro Chemical Sensor For Monitoring The Oxygen %.  
 To Evade Oxidation / Degradation of Ingredients.  
 Controlled Through PLC Controls Via RS-485 Port & Safety Interlocks For Heater & Feed Pump Linked With PLC.  
 Condensing & Collecting The Solvent Vapours / Solvent Condensate Respectively.  
 Condensation System consists of pre-cooler, refrigeration compressor, chiller/condensor with solvent condensate drain system.

### Nitrogen Inert Loop is used when :-

- 1- Chances of oxidation of product while spray drying
- 2- Critical Solvent based feeds are to be spray dried under inert conditions.

### Technical specifications:

Suitable for	All solvents / Water based feeds
Inert gas to be used	Nitrogen - 99% pure
Condensation System	Consists of refrigeration compressor, chiller, condenser with solvent condensate drain system
Cooling Medium for Refrigerant	Air
Temperature of Cooling Media	-25 <sup>0</sup> C
Condenser / Chiller MOC	SS 316
Refrigerant	R - 404
O2 % monitor / sampler	O2 analyser transmitter
Controls & Safeties for condensation system	HP cut off switch Anti defrosting cut off
Power supply	230V AC 50 Hz Single Phase
Max. Current drawn	10 Amps
Dimensions (L X W X H)	650mm X 650mm X 1200mm
Weight	120 Kg

\* Due to continuous improvement and development specifications / features / dimensions etc. may change without prior notice.