

8 Resolve problems caused by gas

Resource
consumption cut

Productivity UP

**For Gas Removal In During The Drying
Process Of Resin Materials**

Added Value UP

Do you have any gas-related problems?
Remove resin gases and/or substitute them with while drying and
stabilize your molding process.

Thermal Conduction Dryer + N₂ Generator

Overview

By heating with nitrogen gas atmosphere, it is possible to remove moisture that
could become a factor for dissolved gas in resin.
Depending on the material, prevents oxidation and yellow discoloration as well as to
decrease black spot foreign material.

- **Oxidation xanthosis test** (Test materials: Cycloolefin polymer)



← In the atmosphere

← Oxygen density 1.0 %

← Oxygen density 0.5 %

← Oxygen density 0.1 %



[PMD1.5]

[MTN3-10-1]

Features

- Injecting N₂ gas helps to prevent oxidation, yellow discoloration, and black spot.
- Thermal conduction allows for small air flow rate which allows for easy management of foreign material.
- Ideal for injection-molding machine with a processing capacity of 0.2-1 kg/h, below 20 injection tons.
- Limited heat exhaust. Ideal for environment that is adverse to heat exhaust.
- Cleaning is easy by use of retractable hopper and remove-type fin.

[illegible]