



Aggressively promoting measures to prevent air pollution



Installation of Deodorizing Furnaces Capable of Heat Recovery

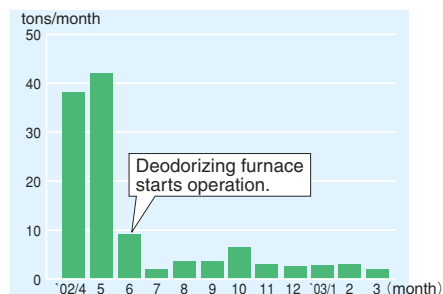
One of Nitto Denko's key businesses is adhesive tape. In the production of adhesive tape, large quantities of organic solvent are used as a medium for melting the adhesive. Almost all of this organic solvent is vaporized during the production process, therefore we began installing deodorizing furnaces (solvent gas incinerators) to reduce the release of this vaporized solvent into the atmosphere. The primary role of the deodorizing furnace is to break down organic solvents into carbon dioxide and water by incineration. The furnace is also capable of recovering the heat of combustion as vapor, which is then used to keep the oven room that dries the

adhesive to the prescribed high temperature. In this way, it not only prevents air pollution but also saves energy as well.

Greatly Reduced Solvent Release at the Tohoku Plant

At our Tohoku plant where we make medical tape (transdermal patches for asthma therapy and ischemic heart disease, surgical tape, etc.), a deodorizing furnace was added in 2002 to reduce the release of organic solvent into the atmosphere. This system began operation in June 2002 and has reduced the atmospheric release of organic solvent by 90%.

Organic solvent release by Tohoku plant



Installation of deodorizing furnaces by Nitto Denko Group in 2002

Nitto Denko: Tohoku plant, Toyohashi plant
Group companies: Nitto Shinko Corp.,
Nitto Denko (Taiwan) Corporation

Our Activity



Our dream is a place where lightning bugs fly.

From left
Medical Related Products Division
Yoshiki Onodera
Medical Related Products Division
Takao Takehara

The Tohoku plant where we work is in the mountains of Miyagi Prefecture. The natural surroundings are so intense that, on winter mornings and evenings, we can see flocks of swans flying in formation across the sky. We produce medical supplies here, two examples of which are a transdermal patches for asthma therapy and ischemic heart disease. We are proud of the fact that these products are proving useful to society. Nevertheless, we cannot forget that, to make these products, we are stressing the environment by – for example – releasing organic solvents into the atmosphere. So, we decided to focus our efforts night and day on building ways to reduce the environmental load of our activities and protect the environment. The deodorizing furnace is one example of that. Though we did run into the problem of pipes that

supplied water to the waste heat boiler freezing when they needed to stay warm, we ultimately solved the problem and successfully reduced the amount of organic solvent that is released into the atmosphere to a great extent through the introduction of this system. We will continue to direct our efforts towards reducing environmental load and protecting this wonderful natural environment, while also supplying products that are useful to society. This is the mission of our environmental activities. We want to create an environment within the plant site where lightning bugs can live and thrive.