

T.A.O. NEWSLETTER

Quarterly Company Newsletter



IN THIS ISSUE

HIGHLIGHT: GLASS INDUSTRY & MARKET TREND P.1

PRODUCT&SOLUTIONS: PRINTING SOLUTION FOR GLASS P.2

T.A.O. INSIDE: PART 3: AIR QUALITY MANAGEMENT AND TREATMENT OF CHEMICAL VAPORS P.3 / **T.A.O. NEWS** P.4

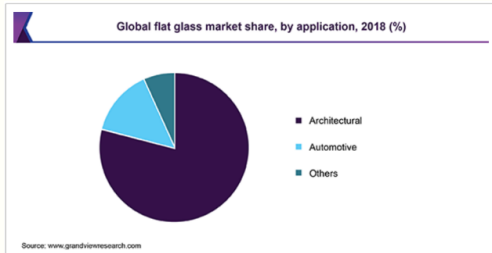
Highlight

Glass Industry & Market Trend

Glass is widely used in many industries with a wide variety of applications ranging from glassware, packaging, scientific equipment, automobile, architecture, and many others. Due to its ease of sourcing as well as being eco-friendly and recyclable, glass has gained a lot of popularity, especially at the industrial level at present.



Some main sub-types of glass are Annealed glass, heat strengthened glass, tempered glass, laminated glass, insulated glass, coated glass and decorative glass. The products reflect changes in lifestyle, as well as the increasing needs of society, especially in safety and energy saving.



The biggest consumer of Global Flat glass as per the Grand View Research Analysis issued in September 2019 was the Architectural industry. The amount of glass used in the construction industry has been increasing. Due to glass properties as a versatile construction material as well as the large variety of glass available and its eco-friendliness in terms of recyclability; glass has increasingly replaced other building materials such as cement and paint which produces dust and pollutants that are harmful for human health and the environment.

In Thailand, Container glassmakers are enjoying an unprecedented boom in demand at present. Shifting consumption patterns and improved lifestyle of consumers means demand for glass has never been higher in Thailand and the surrounding region [2].

Advantage of glass

Transparency

Weather and Rust Resistant

Aesthetically Appealing

Easily Mold

100% Sustainable material

Over the past year, the world has become increasingly more aware of the threat of global warming. The occurrence of many environmental crises such as melting of Arctic ice, the fire in the Amazon forest, and etc., the campaign for using eco-friendly materials has become more important; and glass has become a desirable alternative due to its sustainability and the fact that it is 100% recyclable. In addition it does not degrade during the recycling process; hence, it can be recycled repeatedly without compromising on quality or purity.

However, disposing of glass without proper management will cause problems, as glass does not decompose and this can negatively affect the environment. Choosing good materials should also come with proper waste management.

To recycle 1 ton of glass [3]

- Help maintain 1.3 tons of natural raw materials
- Reduce air pollution by 20%
- Reduce the amount of waste water by 50%
- Reduce carbon emissions by 315 kilograms
- Reduce waste several hundred thousand tons per year

Overview of glass types in various industries as follows:



Reference : [1] <https://www.grandviewresearch.com/industry-analysis/global-flat-glass-market> / [2] <https://www.glassmanevents.com/asia/why-thailand/> / [3] www.tipmse.or.th

T.A.O. INSIDE

Environmental Management in the organization: Part 4

Air Quality Management and Treatment of Chemical Vapors



The device is located next to plate production room.

For this issue, we are pleased to present Air Quality Management and Treatment of Chemical Vapors for organizations. Filtration of gaseous pollutants, acid/ chemical fumes caused in the production process is an important issue for maintaining good air quality and a clean environment for everyone. For this edition we would like to introduce the Wet scrubber Device system, which we also use in our organization.

Wet scrubbers remove dust particles by capturing them in liquid droplets. The droplets are then collected, the liquid dissolving or absorbing the pollutant gas. The resultant scrubbing liquid must be treated prior to any ultimate discharge. Only pure air and neutralized water will be discharged so as not to affect the environment.



Front side of the Wet Scrubber.

Back side of the Wet Scrubber.

The main reason for installing this device is to solve the problem of acid-base water, which is caused by the production process. This is for the benefit of the health and safety of the operators. As if workers are working in a safe and healthy environment, they will be able to work with full efficiency.

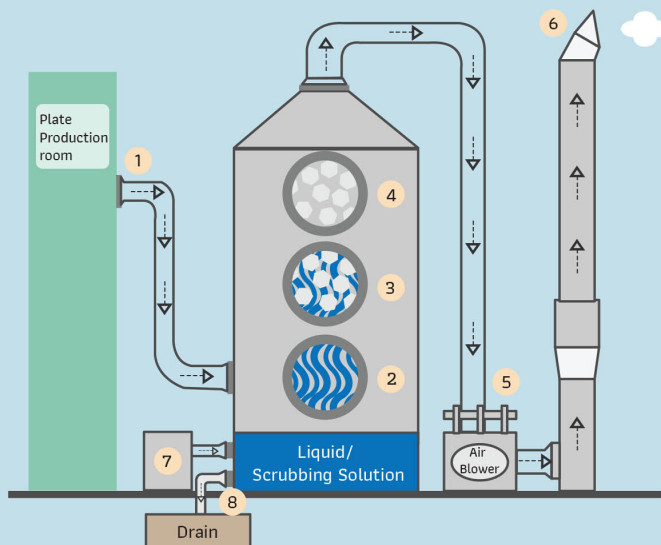
In addition to installing industrial air ventilation systems in the production area such as in production rooms for ink, silicone pad, thinner, and test laboratories, the company also has environmental quality inspections once a year measuring and analyzing the concentration of hazardous chemicals in the atmosphere of the operating rooms; passing the inspection every year.

With the organization's commitment to implementing policies in accordance with good corporate governance principles, as well as personnel responsibility towards society and the environment, our organization is ready to develop and bring innovations to help the company become a sustainable green organization.

How Wet Scrubber works?



Let's help maintain good air quality For the environment and everyone.



1. Contaminated gas enters the inlet connection from Plate Production room
2. Filter 1: Polluted Air flows through the water curtain, capturing and absorbing the pollutant gas in liquid droplets.
3. Filter 2: Contaminated air is still flowing up to packed-bed section. Those particulate matter and small particles will be captured and sprayed in liquid droplets.
4. Filter 3: There are some packed media in this layer in order to collect the liquid droplets again before the air flows through the mist eliminator.
5. The air flowing through the air blower and being pushed the air out into the vent.
6. Ventilation vent: The air released is non-toxic to the environment.
7. It is the acid-alkali regulator. Whenever the water has unneutral pH, the device will release a solution to neutralize the pH.
8. The neutralized water will be released into the water treatment, in which the water will be released every 60 days.

T.A.O. News

T.A.O. Celebrated 25th Anniversary



T.A.O. Bangkok Corporation celebrated our 25th year as a high quality provider of products & services in the Industrial Printing and Decoration Industry. Our Senior Executive Officers and employees participated in merit making in the morning. This was followed by an award ceremony to show appreciation to our employees who have been working with us between 5-25 years.

Afterwards, we all gathered to listen to a sermon by Phrakhru Palad Sampipattanasilachan [Kanchit Khunwaro], assistant abbot of Wat Yannawetkawan who discussed the topic of “Communicating with Heart”. Later, all executives and employees had lunch together at T.A.O. Bangkok Corporation Ltd. on 13th September 2019.

T.A.O. Bangkok Corporation Ltd.
Your trusted partner.

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GET IN TOUCH WITH US

Please advise us your interested topics or any comments to:



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