

きれいな空気を、働く人に。

Clean up Air

Expert Air Conditioning Engineers

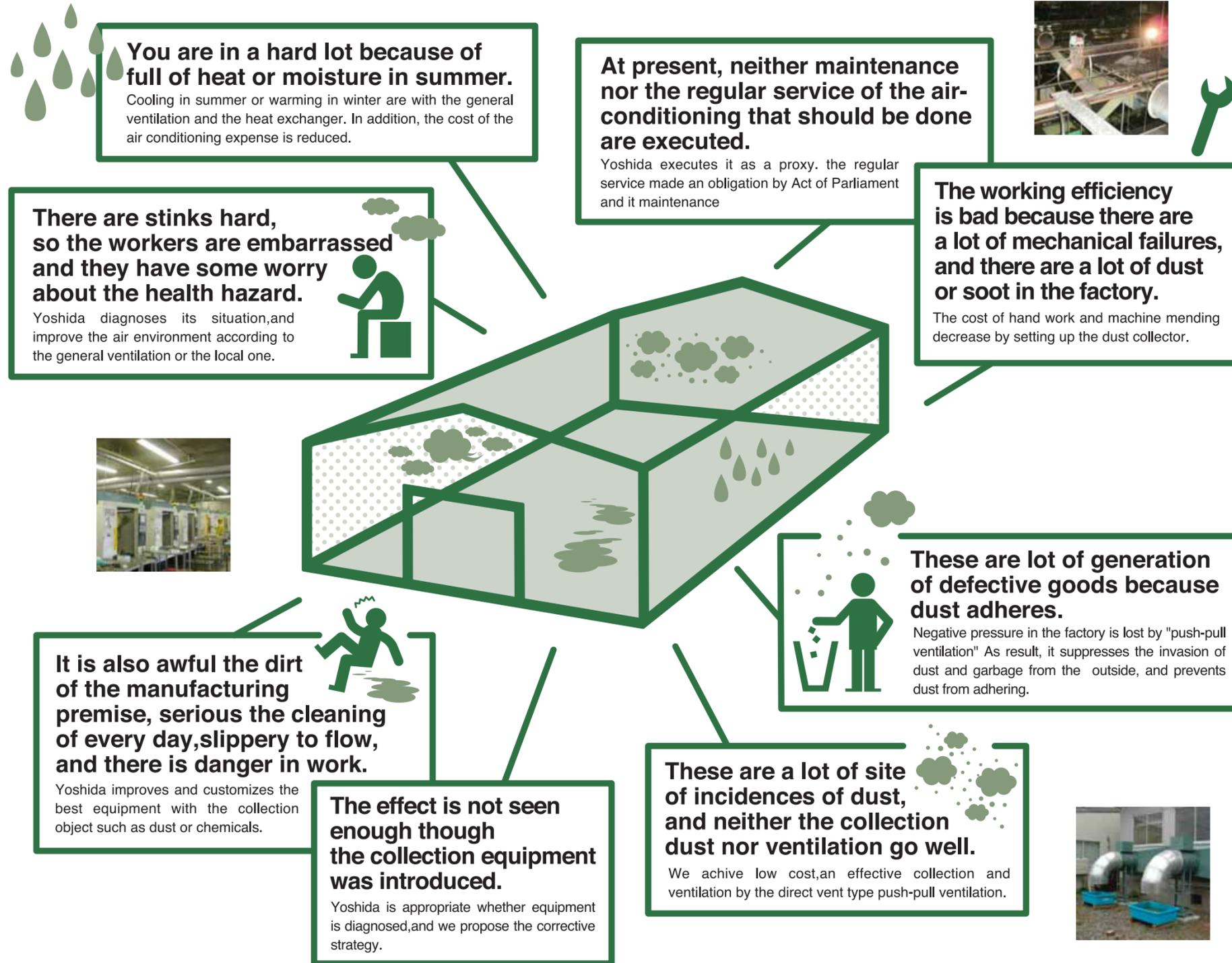


Expert Air Conditioning Engineers



Would your factory have some trouble with such a thing?

We think that the problem should be solved immediately for the enterprise. It is the environmental deterioration in the factory or causes not only employee's health hazard but also a lot of damage and dangers of not anticipating.



Yoshida improves the trouble of such an air environment.

Local ventilation

Dust or chemical are collected and exhausted by the pinpoint.

- Dust, Mist
- Organic solvent
- Lead, Hume
- Special Chemical Substance
(Asbesto chlorine cadmium cyanide hydrogen fluoride, hydrogen sulfide etc.)

工場内で特定化学物質を使用している場合は労働安全衛生法で排気設備の設置が義務付けられています。

Ventilation

- In case it wants the enclosure is not applied. Push-Pull
- When there are come locations to be ventilated to the smell of painting or organic solvent. The direct vent type Push-Pull Ventilation
- Temperature management, stream, cancellation of stink, at the factory General ventilation

Plant management

Special advice, equipment maintenance or management

- The regular service, management
- Make an obligation
- Maintenance

労働安全衛生法で局所排気装置等の性能を確保し、環境改善の効果を維持する目的で、定期自主検査の実施と記録の保存が義務付けられています。

Do not put off the development environment?



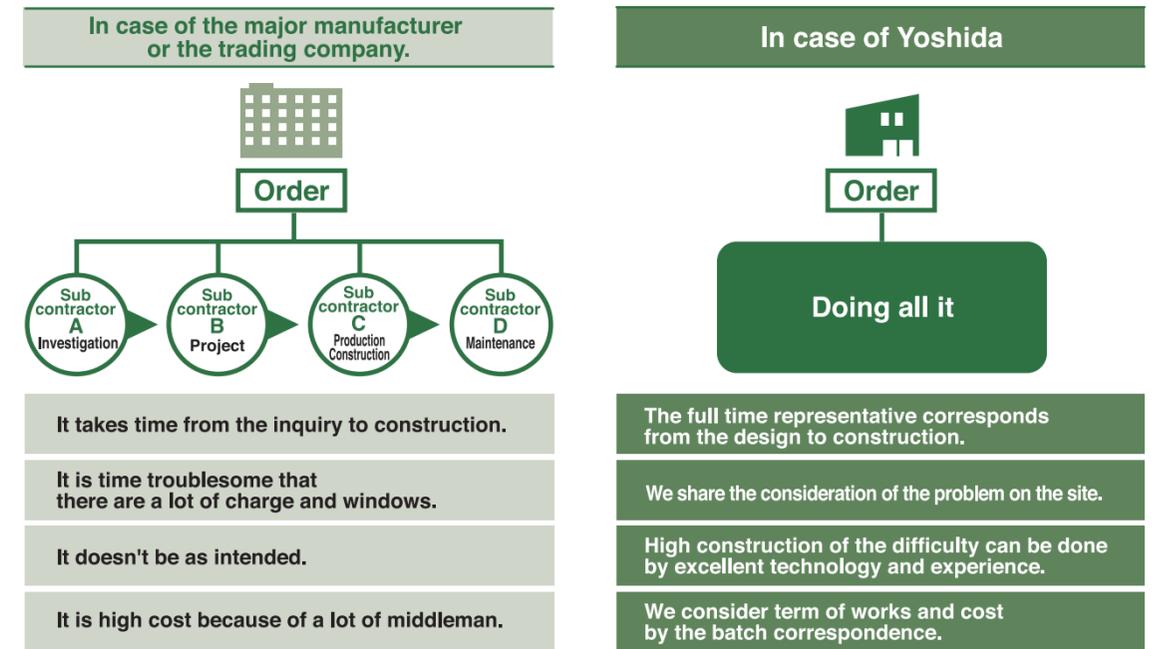
ALL IN ONE

Making air environment clean in factory, Doing all it, Yoshida.

We are the team of experts about air conditioning, and we are based on the long experience and results. So we can diagnose all of users' air environments. In addition, we design and construct the best air clean system by our originality. We comply with customer's needs to do everything till making a complex document.

In total and Directly, Yoshida.

In the major manufacturer or the trading company, there might not be offices alone or be the engineer's residing. Therefore, the region corporate being not able to satisfy the fact and demand variously is a current state. The full time representative corresponds directly in Yoshida. As a result, we do fine correspondence. In addition, we will enable a complex, advanced design and construction in low-cost and a short term.



We want to offer what customers need the best.

For example, we customize the collection hood that the customer hopes one. We propose to enforce it low-cost by using an existing tent and he garage. This reason is that an original effect cannot be demonstrated by setting up the equipment of the manufacturer. We work on all cases based on the idea of offering what customers need the best.

We solve the problem by a fine investigation and the analytical ability.

 We analyze a current problem, verify the site, and set up the strategy of the problem solving.

We design customizing according to the usage and the purpose.

 We propose the plan of exhaust and purification to base conditions of space and cost, in addition, your condition of space and the cost.

Document making correspondence batch agency to statutory board.

 We execute the check as a proxy. We make the document to the organization that supervise, and arrange the procedure.

No holiday and all time. Rapid deployment

 In case of trouble, the after situation that can correspond to the emergency is straightend.



Our Yoshida has a certain answer based on a considerable experience and know-how for the project, the design, and the construction of custom-made.

The improvement idea to make the working environment comfortable better is different depending on the difference of the type of business and the condition in the factory. It is not an exaggeration to say that the same way might not exist.

Therefore, the experience and know-how are necessary.

Our Yoshida is always trying to propose the best plan in customer's fact based on the case study that has been cultivated up to now. It is a pledge to get a lot of trust.



Construction case files
01

It is a collection collectively of cut powder, the grinding powder in the factory, and all dust.

Introduction details



Material processing industry
Kanagawa Prefecture.
In case of S company.

When plasterboard and an insulated board are processed, considerable cut powder and the grinding powder are generated. It was not competent pure-white without the mask and glasses in the factory.

The dust collector has 22 small one. They are set up by the second floor. Therefore, the garbage collection was inconvenient, and the dust collection ability was also insufficient.

Moreover, the complaint had been received from the local resident because of the noise, too.

When a new factory is constructed, I want to make the factory hygiene management in the future a perfect condition.



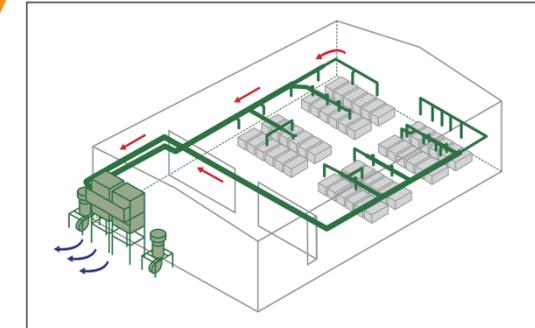
Piping has been postponed to the dust collector of the second floor. The dust collection ability was insufficient, and always there was a large amount of dust and in the factory, it was always full of dust.



We calculated the dust collection ability necessary for all the processing machineries. We selected the dust extractor that satisfied a necessary dust collection ability of the entire factory and produced it on that. Moreover, we designed the exhaust part to clean the method of exhausting garbage easily. We took the customer's demand of the duct layout to the detail. A



[Outline of construction]



The dust extractor adopts "Bag filter". This device efficiently collects air that contains dust, and cleans air.



Dust collector



Dust collecting duct

Results

The problem that dust disperses to the circumference was canceled by the power of a strong collection compared with before. The exhaust of garbage has been greatly improved. As a result, the working efficiency improved. Moreover, the noise of the dust extractor falls below the standard value, and there is no complaint from the resident.

Construction case files
02

Analyze the mechanism of dust dispersion.
Adjust the load of maintenance to zero.

Introduction details



Heavy industry manufacturer
Chiba Pref.
In case of M company

A large amount of dust disperses when the chips of the fuel of thermal power generation is put from the track damper in the device. The dust extractor that has had to the device doesn't function because there are problems in the ability or the method.

A good solution was not found through it inquired of the manufacturer of the device and of the extractor. Moreover, they presented fantastic sums of money. The beginning of the solution was not able to be gripped.



A large amount of dust disperses when the chips are put.



We investigated a structure and effective space of the device by various viewpoints, and analyzed the mechanism of the dust dispersion. And We calculated a necessary dust collection ability. And, we set up the hood designed to collect dust efficiently in the route of which dust went out, and to return to the device automatically in the collected dust.



We enclosed the entire device in the building, and collected dust. As a result, the dispersion of dust in the building disappeared almost.



When device operates



Contracted the hood so that dust should not disperse outside of the device.



Dust extractor

Results

The dust dispersion has decreased greatly compared with before. And the dust which is corrected might return from the dust extractor to the device by automatically. So the maintenance load was adjusted to zero. It did cost extra expenditure because our company went all from meeting to manufacturing, construction, and the inspection. And It was possible to put it within the more budget.

Construction case files
03

99.2% of the soot and the mist was able to be collected by the collection equipment of custom-made.

Introduction details



Metallic cutting processing industry
Niigata Pref.
In case of K company

In the factory that a large amount of cutting processing machine is operating, view is a profit or the soot mist are always filled by not being. It is a situation in which employee's health hazard is feared. In addition, the electronic equipments broke down because of the soot mist, and the great stumbling block was caused in the schedule of the production line. In this company, it was examined to set up large-scale and one small dust extractor. Either method was also difficult budgeting, or there was a problem of the installation space.



The soot and mist were always filled, and air stagnated

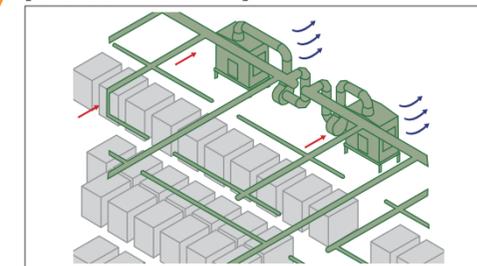


We set up "Mist-Collector" which soot in the factory was collected by the batch. After we calculate all the sizes, the dust collection abilities, and the duct piping pressures of each other, we designed and contracted the specification by our custom-made.



The soot and the mist were always filled, and the factory that the opponent was not seen easily changed completely.

[Outline of construction]



Body of Mist-Collector



Floatage density : Before 2.03mg/m³ After 0.27mg/m³
Outdoor exhaust air : 0.13mg/m³ Trapping efficiency 99.2%(Our measurements)



Results

The environment in the factory changed completely. A lot of opinions of the surprise were made by the site employee rather than thanks. Now, there are 14 mist-collector in this company.

Construction case files
04

Smoke and the gas of the foundry are efficiently exhausted with the dust collector.

Introduction details



**Foundry
Niigata Prefecture.
In case of F company.**

In the foundry, "the epoxy resin" to build the type medicine easily is used.

When do the scorch of the resin when the resin is mixed with the type medicine of sand, and when the hot water is poured, a large amount of gas is generated.

Because the window and the shutter are closed up in winter, it might influence worker's health so that the smell may shut indoors oneself up.



The resin melts when the hot water is poured into the type, and smoke is generated. It moves while turning on the gas until cooling.

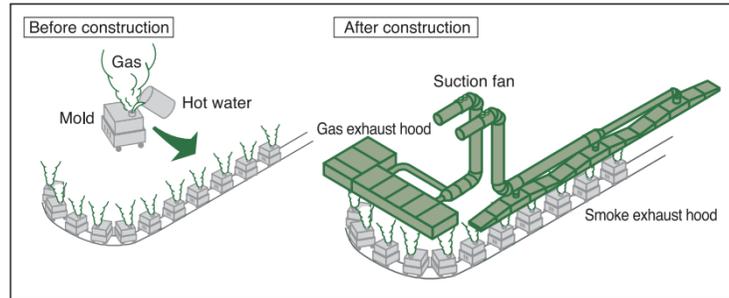


We designed the limited part exhaust hood corresponding to the site of incidence of smoke and the gas. To transport the contaminated air by the duct, and to exhaust it to the outside efficiently with the exhaust fan, we designed.



Smoke exhaust hood

【Outline of construction】



Gas exhaust hood



Suction fan

Results

It was exhausted to a smooth bur by the smoke that was generated when the hot water was poured, and kept being generated afterwards. As a result, the working environment has been greatly improved.

Construction case files
05

The movable painting booth is introduced by a low cost.

Introduction details



**Large-scale equipment
production factory
Yamagata Prefecture
In case of N company**

Mechanical workshop where large-scale ripper is made the main equipment, and various equipment are made. The painting sludge and the stink that occurs by the painter degree disperse because it did not set up the painting booth. Air in the factory was very bad. There is guidance from the supervisory authority as for ready-made equipment to which it cost the huge cost; the introduction was difficult though the improvement was a pressing need.

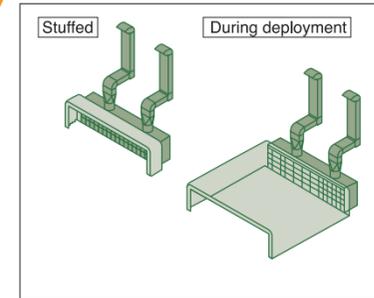


We used economy by custom-made to fill an ability within the budget of the limit necessary. We designed, and constructed the painting booth of an original accordion tent by a low cost for that.



Booth during the deployment

【Outline of construction】



Stuffed Booth



Exhaust pipe



Assemble at the state of our factory

【Tent expression Bellows case of construction】



Bellows ceremony tent, all made to order. The industry deals with Yoshida, ranging from small things big things.

Results

The working environment has been improved by necessary minimum equipment. The problem that the painting powder adheres to other products was canceled. The approval of the supervisory authority was able to be received.

Construction case files
06

The complaint generation was adjusted to 0 by setting up a simple clean-room..

Introduction details



Large-scale equipment processing factory Yamagata Prefecture. In case of N company.

There are many large-scale processing machines, end mills, grinding, and the three-dimensional measuring machine. Therefore, the grinding powder, the mist, and the dust not visible are always floating. They adhered to the processing side of the product, and it caused a detailed wound. Therefore, a large sum of case to the complaint for which it made amends did not leave the back. There was a problem at cost or the construction period, and the other though it thought about the introduction of a clean room.

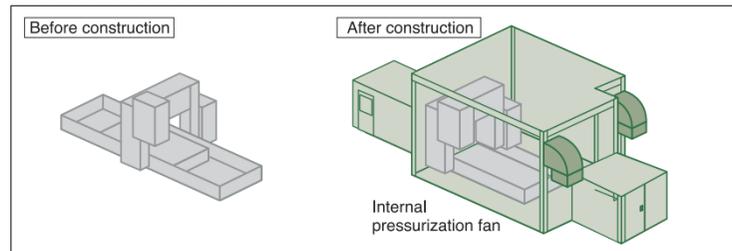


We calculated necessary minimum dust level. And, the clean room that had been matched to the shape of the large-scale processing machine was designed by custom-made.



Completed Endomiruronto

【Outline of construction】



We set up class 1000 in a clean room in the grinder. Negative pressure in the tent can be adjusted with the fan for this pressurizing internal.



Before construction of the grinding machine



Before construction Endomiruronto



Tent grinding machine



Tent construction

Results

It was considerably cheaper than conventional clean room, and will be possible to construct it in a short term of several days. Therefore, there was no influence in the operation of the factory, and the complaint of the product was canceled.

Construction case files
07

The grinding dust is prevented from dispersing with the bellows type tent.

Introduction details



Metallic cutting processing industry Ehime Prefecture. In case of K company.

There are a grinder and buff grinding work of large-scale parts in the working line.

Therefore, the problem such as the troubles and health hazards to the wear-out of the adhesion of the grinding powder and the moving part and the precision parts occurred in other equipment. Because the processing parts were large-scale, and the work area was wide, the local ventilation was difficult.

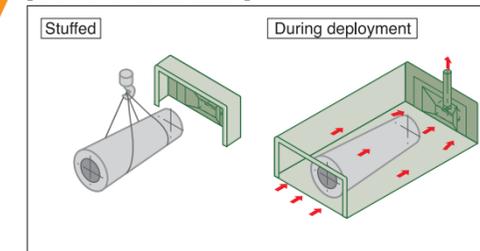


We designed the equipment of the opening and shutting type tent matched to the sizes of the processing parts. We had the contaminated air prevent dust from dispersing by grinding in the tent, and exhausted to outdoor.



Tent during the deployment

【Outline of construction】



Dust collector



Tent is so smooth opening and closing of the movable rail.



Tent is collapsed state



Tent during the deployment



The state of the polishing workshop before installation. As well as the workplace, even dust away with equipment around, it was hard to clean every day.

Results

We succeeded in keeping to beauty in the factory because of disappearing of the dust dispersion to a dust of work district and surrounding machine. Moreover, because dust on the floor was exhausted by the air blow, it became easy to clean.

The painting environment is improved with a push-pull ventilator.

Introduction details



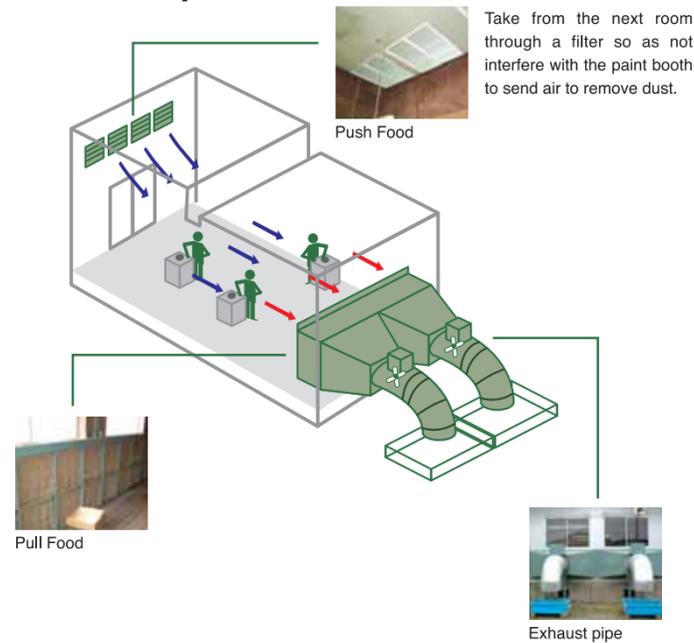
Tool manufacturer painter place Niigata Prefecture. In case of Y company.

The dust generated when painting has been exhausted only with the ventilation fan, and it is not exhausted enough. Moreover, paints exhausted to the outside by the ventilation fan adhere to the car etc. The order for improvement had come out from competent authorities, and the installation of the painting booth was sped up. However, the problem was to various to size about the product, and to have set up of each in a place away.



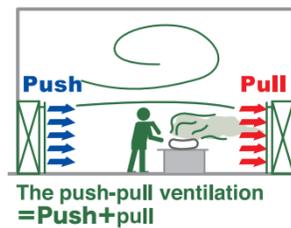
We designed the painting booth that had been matched to the size of the painting room. To exhaust it smoothly, we adopted the push-pull ventilation method regardless of the site of incidence of paints.

【Outline of construction】



The push-pull ventilation

The current of air is made from the inhalation and the balloon in the entire room, and it is a collection and an exhaust method.



Results

Painting worker's environment has been improved. Permission descended from the competent authorities. In addition, the trouble with the vicinity was canceled by beautiful air that the exhaust is filtered by the filter.

Suggestions for improvement to noise at factory

Introduction details



Electronic parts plant Fukushima Prefecture. In case of N company.

Many outdoor machines such as the dust extractor, compressors, and the cooling towers are set up in premises. The level of each noise had to be high, and to improve the noise in the entire premises. It was necessary to improve it on the adjacent factory and the premises working environment. This problem was pointed out from the competent authorities. However, the kind and the number of sources of the noise are applied and it is not touched hugely, and completely.



We did each numerical value in the noise generation part in the factory and the measurement diagnosis was done. And, we advised that we brought the improvement idea together, and were able to do as much as possible in the company.

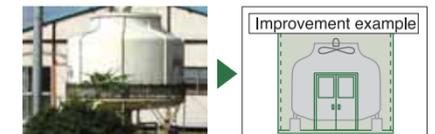
【Improvement plan report】



【 One example of method of measures 】

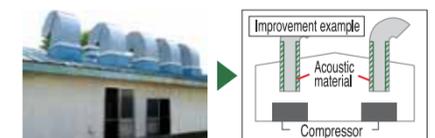
Cooling Tower

It is possible to cover in the noise block, and to reduce it by the sound source by about 10dB. Covering with the heavy load can reduce the low-frequency noise.



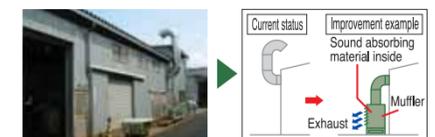
Compressor room

It is possible to reduce it by fan sound source by about 20dB or more by pasting the acoustic material in the ventilation duct and applying it.



Fine particle duct

10dB was able to be reduced by the sound source by pasting the acoustic material in the hut, and setting up the muffler outside about 15dB and huts.



Dust collector



Dust collector

Results

It has been improved to a comfortable environment by reducing the noise in the vicinity and premises. The cost was able to be pressed greatly because it was in-house ameliorated.

Vehicle exhaust emission measures of engine

Introduction details



Machinery manufacturer Niigata Prefecture.
In case of H company.

When the engine of the compressor was tried, a large amount of vehicle exhaust emission had been generated with the production company of the compressor. In the factory, the gas and soot were filled. It doesn't function well though a fixed ventilation hood and several large-scale ventilation fans set up because the machine that produces it is big and small and various. Moreover the exhaust temperature was the high temperature (about 250°C), so heat proof in a flexible hood ran short, and it was not able to be used.

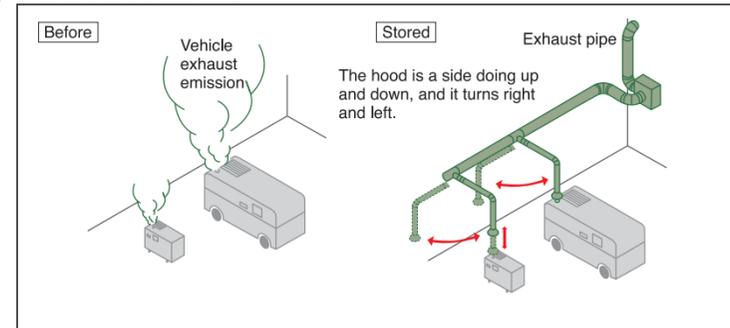


We produced the ventilation duct the exhaust fan of high heat proof specification and made of the stainless steel. We designed to be do the slide of the hood up and down to correspond to various equipment. In addition, the hood was made a turn type.



The state of food establishment

[Outline of construction]



Used



Stored

Results

Because the hood can be brought close to the exhaust vent, it is possible to exhaust it efficiently even by a little amount of the wind. It is achieved low-cost, and the environment in the factory has been improved greatly.

The equipment trouble is prevented beforehand by the periodical voluntary inspection and maintenance.

Introduction details



University research facilities Miyagi Prefecture.
In case of T university.

At T University, there are various research facilities, and a lot of exhaust devices are operating. In Department of Science and Department of Agriculture, the medicines such as organic solvents and Specified Chemical Substances are used. In Department of Engineering, dust and the mist by cutting and grinding are generated. The method was consulted about though it was directed that a regular voluntary inspection was done from the competent authorities and the university.



We set an original inspection item at the inspection item and each equipment provided by Act of Parliament. We are executing the voluntary inspection as a proxy in place of the facilities manager at the university.



Drafter test



Wind measurement duct pipe



Business Performance Measurement

[Create article]



Inspection Office briefing paper for

Local exhaust system diagram



Duct leakage measurement

Fan cleaning

The ability of the fans is fallen when dust collects in them, and the large encumbrance hangs to driving part and the wing. If it broke down, it would cost the repairing cost.

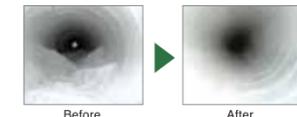


Before

After

Cleaning in duct

It causes a fire to occur because of the spark when dust piles up in the duct.



Before

After

Duct exchange

It causes the accident such as corrosion, damage, and falls.



Before

After

Results

We became standards for the customer to do from next time because we had made the shape of the voluntary inspection this time. We think that we want to do various checks that not only are executed the check and maintenance as a proxy but also are based on making and the rule of the pertinent document of government and municipal offices, and to support it in the future.

Greeting



Yoshida Industry installs an appropriate local exhaust ventilation to harmful gas, steam, and dust. And we make a comfortable working environment. It works hard at the research, and the most suitable local exhaust ventilation is designed, and constructed to all of users' working conditions based on the experience and results for a long time.

Representative director
Yoshida Norio

Corporate principles

"It is an enterprise that builds both through life."

We value people's connections, and achieve life that man is comfortable and happy through the environmental reform of a regional enterprise.



Yoshida's company policy is "We defend the pure air as a pollution control enterprise, and contributes to the society by preserving customer's health." Our company proposes the corrective strategy of customer's workplace environment based on high knowledge power and the technology that has accumulated after it establishes, and can solve it. Moreover, we execute no holiday from early time all the year round, and the situation that can correspond at once to the embarrassment of the customer is in order. We design the dust collectors or the limited part exhaust device, and produce it. In addition, it is a regular service, maintains about the equipment of existing to maintain excellence at any time, and is useful as the total planner of the working environment improvement.

company over view

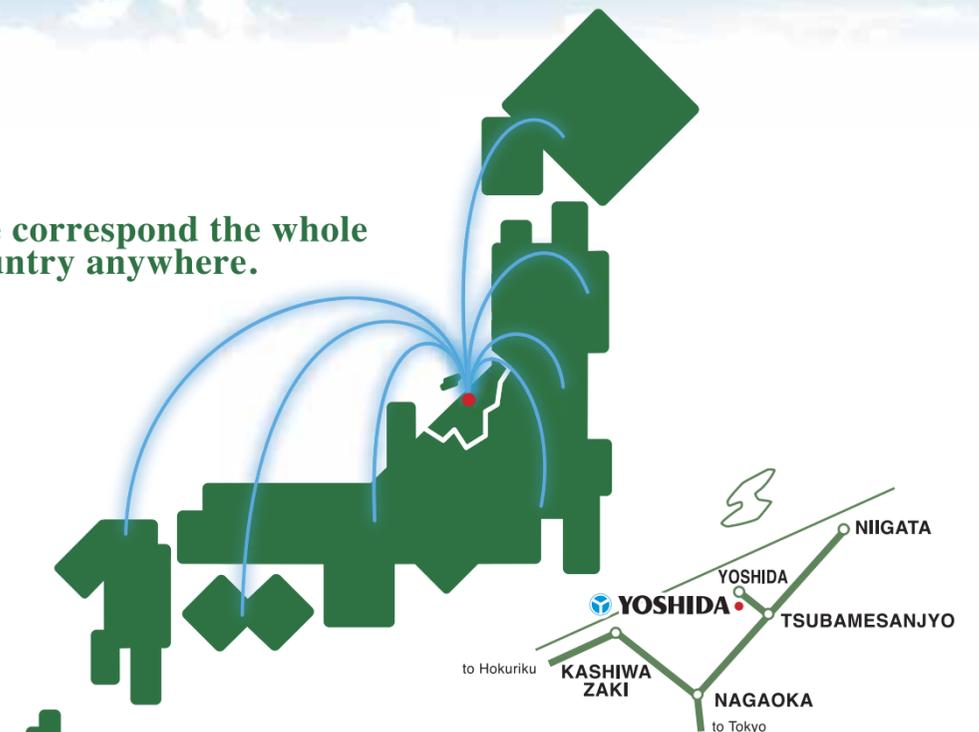
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|---------------------------|---|--------------|-----------------------|
| T i t l e | 株式会社 吉田工業 | | |
| E s t a b l i s h m e n t | since 1998 | | |
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| 代 表 者 | Representative director Yoshida Norio | | |
| 資 本 金 | 1,500万円 | | |
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| 主 要 取 引 実 績 | 〈新潟県内〉 | 〈県外〉 | |
| | 青山斎場 | 富士通フロンテック(株) | 旭硝子(株) 〈千葉、神奈川〉 |
| | アマノ(株) | 北越工業(株) | 川之江造機(株) 〈愛媛〉 |
| | ウエノテックス(株) | 明和工業(株) | 住友金属工業(株) 〈千葉〉 |
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| | 大野精工(株) | (株)雪国まいたけ | 月島機械(株) 〈東京〉 |
| | 岡本硝子(株) | ユタカ電子工業(株) | 東芝三菱電気産業システム(株) 〈神奈川〉 |
| | 久保田誠電気興業(株) | ユニオンツール(株) | 東北大学 〈宮城〉 |
| | (株)研精舎 | 夢ハウス(株) | (株)トキワ 〈岐阜〉 |
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| | (株)東陽理化学研究所 | | ブリヂストン化成製品製造(株) 〈埼玉〉 |
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| | (株)日立産機システム | | (株)柳沢精機製作所 〈長野〉 |
| 主 要 製 品 | 集塵装置、局所排気装置、ミスト集塵装置、塗装ブース装置 | | |
| 取 得 免 許 | 局所排気装置等定期自主検査者、局所排気装置等設計コース修了者 | | |
| 資 格 等 | 廃棄物の焼却施設に関する業務に係る特別教育修了者 | | |



Do you have worry to which company should you consult, how costly it is though you want to improve the air environment of the factory? Please consult Yoshida once by all means.

We have a lot of consultation about the improvement of the working environment, the selection of the dust extractor, and each embarrassment of the noise from medium-sized enterprise in the whole country where the economy of Japan is supported.

We correspond the whole country anywhere.



Yoshida Tsubame that is located in the center of the central region of Niigata Prefecture, is said to be from the "old town artisans swallow" a thriving industrial town called metalworking. The production boasts a market share of Western instruments in the world.

Yoshida solves the embarrassment of the air environment maintenance

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