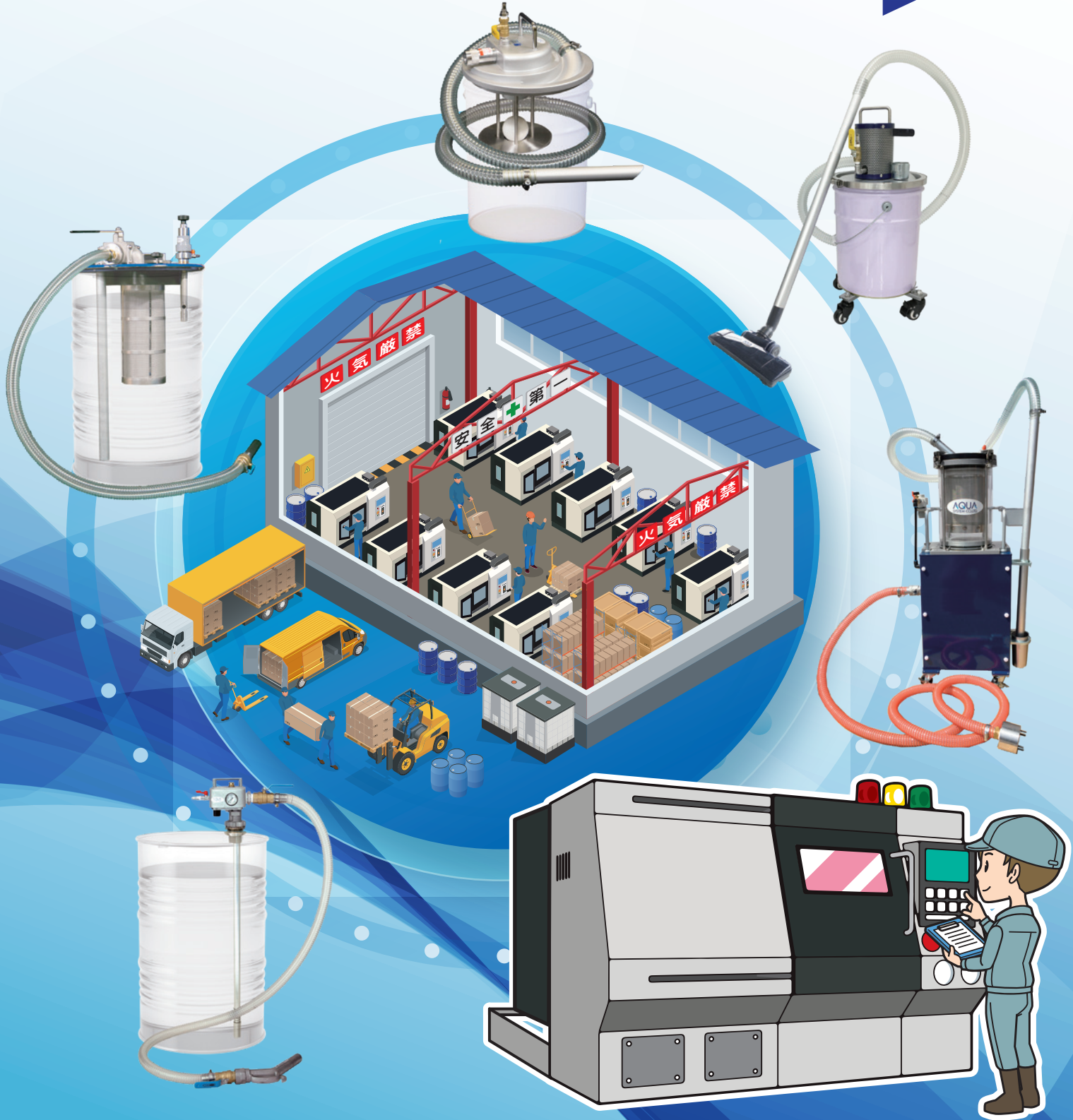


Cutting fluid, chips, machine surroundings, entire factory

AQUA
SYSTEM CO.,LTD.

Coolant tank cleaning for machine tools

Total Solution

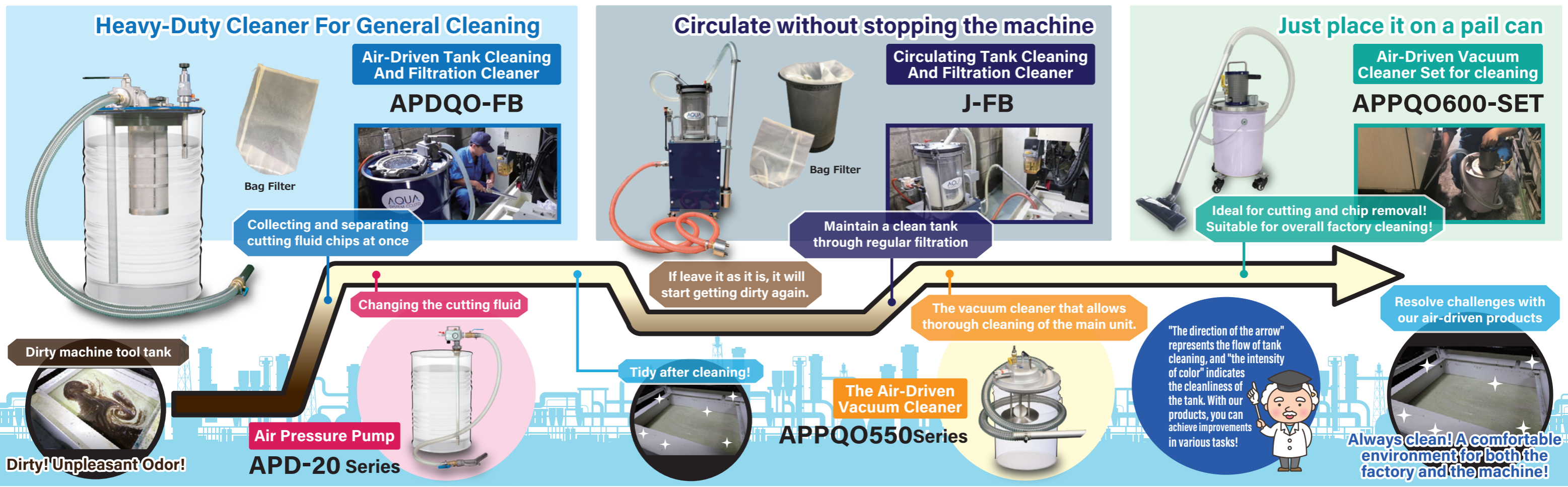


Thorough management of cutting fluid maintenance
improve the on-site concerns clearly!

AQUA SYSTEM CO.,LTD.

For cutting fluid maintenance, please leave it to Aqua System!

We connect solutions to challenges based on customer feedback!
 We can resolve all your problems if you find oil changes for cutting machines cumbersome, such as when you want to remove only the chips, replace before unpleasant odors arise, reuse lubricating oil for cost reduction, improve machining accuracy, or extend tool life etc.



Bag Filter Solution

We introduce the background of the challenge and the improvements made.

Before the introduction of the product, there were issues with the need for additional machine tools and the labor and disposal costs associated with cleaning. After introducing the product, the cleaning time significantly reduced, and it was well-received within the company! However, there were concerns about the difficulty of cleaning the filter. Upon consultation, we were advised on methods such as using a small high-pressure washer and cleaning with an air gun. The introduction of the FB type made cleaning easy.



Separation

Bi-monthly cleaning with a shovel.
 Reducing employee fatigue and cutting cleaning costs.

Collecting sludge and muck with a shovel. Cleaning in difficult-to-access areas took three people 30 minutes and was quite challenging.

With easy collection and replacement, you can simply dispose of the sludge and muck accumulated in the filter. The work time has been reduced to 5 minutes.

New oil replacement

Even on machine tools where open flames are strictly prohibited, it is possible to safely transfer oil and cutting fluid.

The process of exchanging new oil typically involves tilting heavy containers, causing strain on the operator and being prone to spills, making it inefficient.

By directly discharging from the container, the task becomes easier, and there is no worry about overflow and contamination. With minimal remaining liquid, it can be discharged without waste.

Maintenance

Successfully reduced the frequency of cutting fluid replacement through regular filtration, achieving cost savings.

When the coolant tank starts to get dirty, defects in metal processing increase. Frequent cleaning is time-consuming.

The circulation type allows for easy filtration. With the ability to collect a large amount of chips, the machining accuracy of chips is improved, leading to quality maintenance.

Recovery of floating oil

An air-driven cleaner that can handle the recovery of floating oil to cleaning up spilled liquids on the floor.

An air-driven cleaner that can handle the recovery of floating oil to cleaning up spilled liquids on the floor.

A vacuum cleaner makes it easy to collect floating oil into a pail can, improving unpleasant odors and maintaining a clean work site.

Surrounding cleaning

Use an air-driven vacuum cleaner to thoroughly clean the entire factory! This enables thorough implementation of 5S activities.

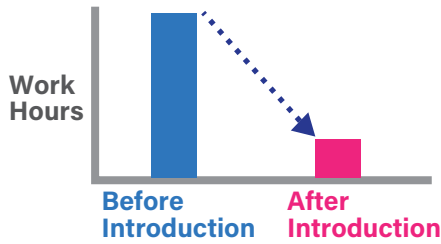
Cleaning scattered metal shavings with a household vacuum cleaner often leads to clogging and quick malfunctions. As a workaround, sweeping was the only option.

The simple structure of the air-driven cleaner prevents clogging with metal shavings, and the collected waste in the container can be disposed of directly, contributing to 5S practices.

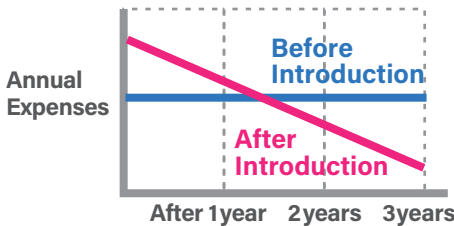


To improve manual labor involving multiple people and outsourced tasks associated with the coolant tank cleaning for machine tools, we utilize the air-driven filtration cleaner

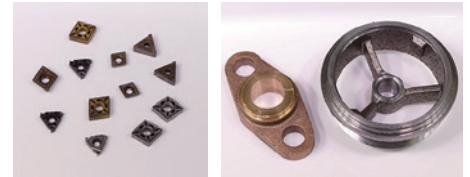
Time reduction and labor alleviation



Cost reduction (Labor costs, reduction in processing defects)



Maintaining machining accuracy



Cutting chips last longer

The introduction of the product resolves issues for operators!
Based on our proven track record, we would like to propose our product!

Featured Product

Air-Driven Tank Cleaning And Filtration Cleaner APDQO-F Series



Plays an active role in the use of cutting fluid and tank cleaning for machine tools

Benefits

- Possible reuse of cutting fluid
- Improved tool lifespan
- Safety with air-driven operation, free from electrical leakage
- Shortest cleaning time: 5 minutes

Features

- Separation of cutting fluid and chips is possible
- Liquid is collected, filtered, and returned to the tank

[Specification]

Model	APDQO-Fseries	APDQO-F100series
Usable liquid	Water-soluble cutting fluid	
Usable viscosity	500cP	
Air consumption	690L/min	320L/min
Maximum suction lift	2.5m	
Maximum discharge capacity (at 1cP)	140L/min	110L/min
Maximum suction volume	130L/min	100L/min
Nozzle	Straight valve	Straight pipe
Material of liquid-contact parts	Main unit/Nozzle	AL/Acrylic/Iron/Bs (Brass)
	Packing	NBR/FKM
Hose	PVC (Φ38×2m)	PVC (Φ32×2m)
	Weight(kg)	43(42.5 for FS only)

APDQO-FB

*Drum not included.



Circulating Tank Cleaning And Filtration Cleaner J-F Series



Allows circulating filtration of cutting fluid without stopping machining

Benefits

- Cleaning is possible without stopping the machine
- Improved tool lifespan
- Reduction in machine cleaning time
- Compact design allows operation in narrow spaces

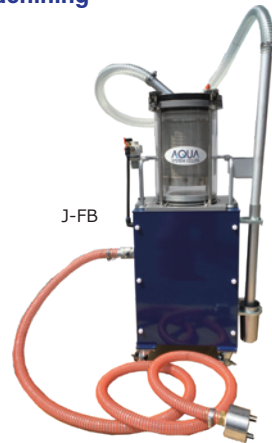
Features

- Diaphragm circulation type
- Choose a filter according to the cutting fluid

[Specification]

Model	J-F series	
Usable liquid	Water-soluble cutting fluid	
Usable viscosity	500cP	
Air consumption	230L/min	
Maximum suction lift	4m	
Maximum discharge capacity (at 1cP)	60L/min	
Maximum suction volume	60L/min	
Nozzle	Straight pipe	
Material of liquid-contact parts	Main unit/Nozzle	AL/Acrylic
	Packing	ABS resin/NBR (Nitrile Butadiene Rubber)
Hose	Discharge: Reinforced PVC (Φ25×2m)	Suction: PVC (Φ32×1.5m)
	Weight(kg)	37(36.3 for FS only)

J-FB



Air Pressure Pump APD Series



Minimal remaining liquid: 200cc or less
Efficient discharge without waste

APD-20

*Drum not included.



[Specification]

Model	APD-20	APD-25
Usable liquid	Oil	
Usable viscosity	3,000cP	
Maximum discharge capacity (at 1cP)	65L/min	150L/min
Maximum Push lift	2m	
Nozzle	Ball valve (Type: N at the end, Manual gun)	
Material of liquid-contact parts	Main unit/Nozzle	AL/Bs/SUS/CAC
	Packing	NBR/FKM
Hose	PVC (Φ25×2m)	PVC (Φ32×2m)
	Weight(kg)	4.4

The Air-Driven Vacuum Cleaner APPQO550/600 Series



The air-driven vacuum cleaner that is trouble-free from collecting floating oil to cleaning inside the factory



APPQO550



APPQO600-SET

[Specification]

Model	APPQO550 (S/SET)	APPQO600 (S/SET)
Usable liquid	Oil, cutting fluid, debris, and chips (※1)	
Usable viscosity	3,000cP	
Air consumption	525L/min	475L/min
Maximum suction volume	80L/min	90L/min
Maximum suction lift	2m	
Material of liquid-contact parts	Main unit/Nozzle	AL/SUS
	Packing	NBR
Hose	PVC (Φ32×2m)	
	Weight(kg)	6.5(4.8/12)

Note

- ※Containers for each product (such as drum cans or pail cans) are not included. (Containers are included only in the APPQO600-SET vacuum cleaner set.)
- ※The vacuum cleaner (APPQO550/600 series) cannot be used with substances that pose a risk of dust explosion or with flammable liquids.
- ※1 Collected items range from 100µm to less than 1cm.

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