

Cleaner  
Cleaner with Filter  
Dedicated for Machine Tools

**AQUA**  
SYSTEM CO.,LTD.

# Coolant Tank Cleaner Dedicated for Machine Tools

Solutions Catalog  
– Solution for Onsite Problems –

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AGENCY

Machine Tool Cleaning, Coolant Filters and Collecting Specialist

**AQUASYSTEM CO.,LTD.**

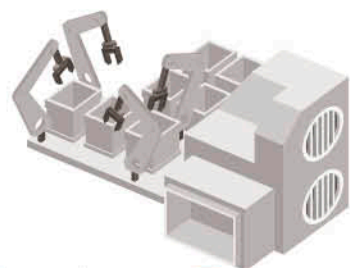
**AQUA**  
SYSTEM CO.,LTD.



## Cleaner Dedicated for Machine Tools

Line Up

# Aqua System Provide Solutions to Problems relating Machine Tool Cleaning, **Coolant Filters and Collecting!**



### Air-Driven Vacuum Cleaner for Pail Cans



### Air-Driven Cleaner with Filter for Tank Cleaning



### Air-Driven Cleaner with Filter for Tank Cleaning (circular formula)

Cleaning without  
stopping  
the machine tool



### Oil Absorbent

For persistent dirt



**AQUA**  
SYSTEM CO.,LTD.

Aqua System Co., Ltd. is a pump manufacturer founded in 1947 controlling the Japanese top share in wing pumps for ship and emergency pumps. We develop, manufacture and sell pumps to collect or to subdivide liquid such as oil, detergent and organic solvent etc. in the drum can into small containers by hand, electric or air drive.

### As a Machine Tool Cleaner Manufacturer,

In 2005, we started selling the air-driven vacuum cleaner (to use with pail cans) for both dry and wet use without electricity which is a collecting cleaner of chips, waste fluid etc. discharged at the machining process. Since 2013, we have been selling the cleaner to use with 50 L, 100 L and 200 L drum cans.

Cleaner with filter dedicated for coolant tanks (APDQO-F series) was developed in 2014 and cleaner with filter of circular formula (J-FS) in 2016 to provide solutions for "cleaning related problems" at processing sites. Currently, we are selling mainly in Japan, China and ASEAN countries.



# Big Solutions to Problems relating Machine Tool Cleaning, Coolant Filters and Collecting!

We support operations to collect chips, iron powders, waste fluid, sludge etc., to change and reuse cutting fluid!

Air-Driven Cleaner with Filter for Tank Cleaning



Air-Driven Cleaner with Filter for Tank Cleaning (circular formula)



Vacuum for Dry and Wet Use



Vacuum for Wet Use



Product variants and options



For sufficient cleaning work and environmental improvement!  
➡ P06 . P07

Filter cleaning without stopping the machine tools!  
➡ P08 . P09

Washable all-purpose air-driven cleaner  
➡ P10 . P11

Improve efficiency for collecting waste fluid!  
➡ P12 . P13

Product variants and options  
➡ P14 . P15



## APDQO-F

Series

Best suited for cleaning up by collecting all the waste fluid in coolant tank

Clean your coolant tank in just 10 minutes

Increased cutting tool life

Improve cleaning efficiency

Cleaning for environmental improvement by reducing the offensive odor



## User's Voice (Auto manufacturer I)

Coolant tank cleaning work took almost 1 day with 3 people. And it was usual (standardized work). APDQO-F enabled this work finish by one man and amazingly shorted working hours.

It takes only 10 minutes.

We outsourced machine tool cleaning before, which was costly. But now cleaning by ourselves and the cost has been reduced.

## Solution (Cleaner with filter for drum can)



Non-woven fabric filter type for drum can  
APDQO-FF

Disposal type  
(change the non-woven fabric)



SUS filter type for drum can  
APDQO-FS

Reusable;  
filter is made of stainless

Demo unit available.

Please contact  
for demo unit.

\*Please prepare the drum can.

## Customization



Drum can carrier DC-NBR

Drum can (200 kg) is movable.



400 mesh

Option filter

#40 to #500 are available to match  
with your work processing method.  
Customized support is also available.



Drum can

200 L JIS standard  
Open type drum can



**J-FS**

Series

Best suited for daily maintenance!

Filter cleaning without stopping the machine tools!

Make effective use of cleaning time



## User's Voice (Farm machinery manufacturer Y)

Our processing accuracy was not stable before. We have tried many filters but were unsuccessful. Even the expensive cleaning filter we have bought did not work either, and it sits in a warehouse. And we tried J-FS. Operating 24 hours (air type makes it safe) makes collecting sludge possible and accuracy is getting stable. Introduction cost is cheap and this is the product we cannot do without.

### Solution

\*Applicable for cutting operation only. Not suitable for grinding process or other special processing, or cutting fluid containing chlorinated additives.



Cleaner with Filter for Tank Cleaning (circular formula) J-FS

Cleaning while operating the machine tool shorten the cleaning time.

**Demo unit available.**

Please contact  
for demo unit.

### Customization



Attached accessory box  
(a container for tools)  
Attached anti-dripping holder



#40 to #500 are available to match  
with your work processing method.  
Customized support is also available.



Extendable hose to fit  
the actual place

**Dry and wet use**

Vacuum Cleaner

**Power supply is not necessary!**

**Preventing seizure of motor**

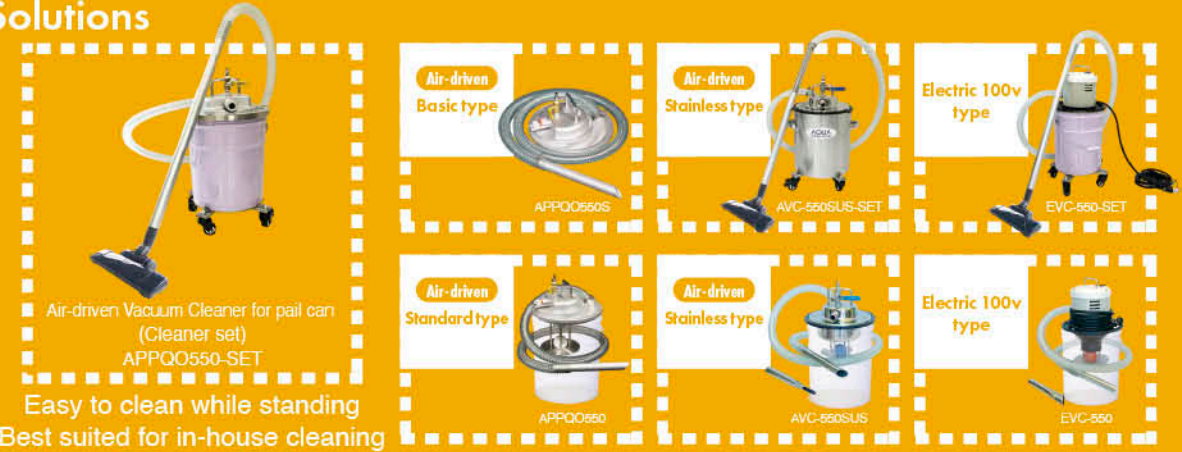
**Safe air-driven washable all-purpose cleaner from chips to waste fluid**



## User's Voice (Aircraft maker M)

We used an electric cleaner to collect chips and cutting oil discharged from machine tools. But many troubles occurred and it was difficult to clean. And we did not use it anymore. Running costs were high and malfunction often occurred. Air driven vacuum cleaner is a big help because we don't worry about malfunction because it does not use electricity and suction power stays the same. We wash it at clean up time and put it in the storage when not using it.

### Solutions



Easy to clean while standing  
Best suited for in-house cleaning

### Customization \*See p15 for other useful option



To reduce air use  
For more convenient work!  
Hand and Foot switch  
\*Also available non-attachable type



Easy to move pail can  
and drum can



Smooth cleaning  
for narrow space  
\*Available for APPQO400 and  
APPQO550



Drum can transforms  
into a cleaner  
\*Some 50L type does not fit with drum can.  
Please but with drum can.



### Vacuum Cleaner

## Improve efficiency of collecting work



We collected waste fluid manually (by hand). We had troubles with spilling the waste fluid, long collecting time and collecting work itself. We knew about the electric cleaner but air driven cleaner was introduced. It has less damage and easy to attach the cans. Very easy and convenient product. Both closed (APPQ) and open (APPQO) types are used in different processes and sites.

## Solutions



- Air-driven open type
- vacuum pump for pail can
- APPQO (for oil)



- Air-driven open type
- vacuum pump for pail can
- APPQOG (for fuel oil and light oil)



- Air-driven closed type
- vacuum pump for pail can
- APPQ (for oil)



- Air-driven closed type
- vacuum pump for pail can
- APPOG (for fuel oil and light oil)

Fluid is collectable only by setting on top of open type pail can

Fluid is collectable only by attaching on the closed type pail can

## Customization



Collectable in the  
common pail can!  
For separate collection!



Easy to move  
the pail can



Extendable hose  
for fitting  
the actual place

High vacuum type  
Head capacity 5m

- For fluid collection at high place
- Collect fluid from 5 meters below

\*5 horse power compressor  
(For dedicated SUS type can only)



APPQO-



## Air-driven Pump for drum can

### APD-20GN

For discharging  
only



- Least residual liquid, discharge without waste
- Safely transport volatile fluid and flammable liquid
- Save energy with 1 horse power compressor
- Silent and cost saving with less damage
- Operational when included foreign matter, continuous operation is available

### APDQ1-25

For collecting  
only



- Safely suck volatile fluid and flammable liquid
- Cost saving with cheap price and less damage
- Operational when included foreign matter, continuous operation is available
- Auto stop when full up
- Easy to attach adaptor \*hexagon cap nut type

### APDX1-25

For discharging  
and collecting



- Unit for 2 roles (Switchable between discharging and sucking with one lever)
- Safely use of volatile fluid and flammable liquid
- Cost saving with less damage
- Operational when included foreign matter, continuous operation is available
- Easy to attach adaptor \*hexagon cap nut type



## Hand-driven pump for pail can

### P-S series



- Dispense high viscosity fluid
- Usable from oil to liquid
- \* 3 types of wetted part material are available
- Power supply is not necessary



### Level instrument

### Level instrument ZKT



- Detect liquid level only in 1 second
- Strong with stainless pipe at wetted part
- Easy to carry and light weight
- ZKT-D-OL (for oil)
- ZKT-D-W (for water)

### Fluid level checker E-C



- Cheap price, light weight, simple model
- No catching fire or explosion
- Both big tap (G2) and small tap (3/4) are attachable for drum can



## Manual pump for drum can

### HR-2B



- Easy hand-driven type
- Cheap price and usable at anywhere
- Usable for bunker A and low-viscosity index oil ( $\leq 500$  cp)

### HR-25G



- Easy hand-driven type
- Dispense Gasoline
- Attached with magnet earth wire

### HF-1000



- Easy hand-driven type
- Discharge 1L by 1 turn
- Discharge the amount of 1 drum can in 5 min.
- Available for  $\leq 500$  cp

### S-L



- Available for high viscosity  $\leq 10,000$  cp
- Light weight and less damage
- Dispense the oil which hardens in low temperature

### S-LH1



- Available for high viscosity  $\leq 10,000$  cp
- Discharge heavy fluid
- Attached hose and ball bulb



## Oil absorbent

### Oil sponge

- Heavy duty power strongly absorb oil!



Easy to use pail can type

Economical sachet type

### Oil cleaner

- Available for industrial use cleaner
- No erosion or corrosion when cleaning material surface
- Special working wear or protecting tools are not necessary when using
- Removed oil is biodegradable by safe natural bacteria contained
- \* Use by diluting in the spray bottle according to the use.



3.78 L (1gallon)

1L