

Do you have plant air in your factory?

AQUA  
SYSTEM CO.,LTD.

# Pneumatic Equipment,



Safe For Use In



# Flammable Area

Large-scale power plant

Chemical plant

Pharmaceutical Factory

Oil & Gas Storage

**Air  
driven**

**Air-powered type has many advantages in hazardous areas!!**

When using pumps in equipment that transfers or stirs flammable or volatile liquids, an air drive that does not use electricity can be used safely even in areas where fire is strictly prohibited. With air drive, you can install environmentally friendly equipment without worrying about electricity voltage and hertz.





# Working in Flammable Areas, Do you have any problems with these things?



I want to transfer solvents, gasoline, etc. at a low cost

I want a product that can clean the factory and collect liquids

Electric fans cannot be used and it is hot and the efficiency of workers decreases



## Aqua System air-driven and manual products pursue energy saving and solve such problems!

### Transfer type

## Flammable liquids can also be transferred from drums

### Air Pressure Pump

Energy saving with minimal residual liquid! Safely portioning flammable liquids

### APD Series



■ APD-20 (25) : For oil

Discharge rate **65 (150) L/min (at 1 cP)**

[Material] Body/Nozzle: AL/BS/SUS/CAC Packing: NBR/FKM  
[Hose] 20=PVC(Φ25x2m)/25=PVC(Φ32x2m)

■ APD-20 (25) G : For kerosene/diesel/gasoline

Discharge rate **55 (115) L/min (at 1 cP)**

[Material] Body/Nozzle: AL/BS/SUS/CAC Packing: NBR/FKM  
[Hose] 20=NBR(Φ19x2m)/25=PVC(Φ25x2m)

■ APD-20 (25) AS : For solvents

Discharge rate **35 (115) L/min (at 1 cP)**

[Material] Body/Nozzle: AL/BS/SUS/CAC Packing: PTFE/FKM/EPDM  
[Hose] 20=SUS304(Φ19x2m)/25=SUS304(Φ25x2m)

■ APD-20SUS : For solvents

Discharge rate **40 L/min (at 1 cP)**

[Material] Main body and nozzle: SUS304 Packing: PTFE/FFKM  
[Hose] SUS304 (Φ19x2m)

Discharge



Compressor  
**1hp**



Viscosity  
**3,000cP**



Push lift  
**2m**



Nozzle  
Ball Valve/Manual

Air-operated pump with high discharge capacity



Includes pressure gauge, regulator, safety valve, and ground wire (G, AS, SAS). When the tank is full, the stop gun nozzle can also be selected as an option. The ability to combine various options into a bundle is a feature of our products.



APD-20

### Air motorized drum chemical pump

Ideal for transferring solvents such as alcohol and thinner!

### CHD (1) Series



The new CHD1 has improved wetted parts materials!

■ CHD1-20ASUS : For solvents

Discharge rate **30 L/min (at 1 cP)**

[Material] PP Main body and nozzle: SUS304 / SUS (SCS13) / ETFE Packing: PTFE / FKM  
[Hose] SUS304 (Φ19x2m)

■ CHD-20APP/HP : For solvents

Discharge rate **50 L/min (at 1 cP)**

[Material] PP Body/Nozzle: PP/PTFE/ETFE/SUS316 Packing: FKM  
HP Body/Nozzle: PVDF/PP/PTFE/ETFE/Alloy625 Packing: FKM  
[Hose] PVC(Φ25x2m)

Model with option

with ball valve  
V type (V at the end of the model)

manual with gun nozzle  
N type (N at the end of the model)

Discharge



Compressor  
**5hp**



Viscosity  
**100cP**



Push lift  
**3m**



It is compatible with more chemicals and solvents (alcohol, acetone, methanol, etc.) than conventional products, and can safely transfer flammable liquids.

Interchangeable motor head

The head part (motor head) is easily attached and detached, and the air motor type and electric type can be exchanged according to the application and usage environment.

Can be replaced with an electric type according to the motor head situation (\* sold separately)



Can be replaced with an electric type according to the Motor Head situation (\* sold separately)

CHD1-20ASUSN

### Hand Rotary Pump

### HRD-25SUS

Manual

Manual all-stainless steel ideal for transferring organic solvents

■ HRD-25SUS (H/HM) : For solvents with a specific gravity of 1.5 or less

Discharge rate **220 cc/1-stroke**

[Material] Main body and nozzle: SUS (SCS13)  
PTFE Packing: PTFE/FFKM  
[Hose] H/HM: SUS304 (Φ19x1.2m)

Discharge



Viscosity  
**500cP**



Push lift  
**2m**

Highly volatile liquids are also available with a sealed adapter!



Secure firmly with an adapter and ground wire to prevent static electricity. Well well

HRD-25SUS

Hermetic Adapter



There are many advantages if you purchase our gun nozzles and hoses as a set!

Purchased in multiple sets  
We deliver examples of convenient use of products and recommended information in our e-mail magazine.



\* When installing an optional flowmeter in the APD series, a separate fitting is required. In addition, even with the flow meter (TB-K24-FM), since it is a digital display screen, it cannot be used in fire prohibited (explosion-proof) areas only when installed.  
\* When using solvents, they must not infringe on the material. Change the standard packing to the included EPDM packing using a solvent such as acetone or MEK.



# Circulation type

# Inhalation collection just by placing it on any container such as a pail!

## Pneumatic vacuum cleaner

\* Compared to our conventional product APPQ0550 series  
**12% more inhalation, 17% less noise, silencer!**

### APPQ0600 Series



Since it is air-driven from cleaning around machine tools to cleaning floors

Recovered materials Oil/Cutting Oil/Garbage/Chips (100µ or more and 1cm or less)

Product Details

- APPQ0600S [Accessories] Main nozzle
- APPQ0600 [Accessories] Main nozzle, square nozzle, oil stopper, filter set
- APPQ0600-SET [Accessories] Main nozzle, square nozzle, T-type nozzle, pail can, pail can band

Inhalation volume **90 L/min**

[Material] Main body and nozzle: AL/SUS Packing: NBR  
 [Hose] PVC (Φ32×2m)

Inhalation	Compressor	Viscosity	Suction lift
	5hp	3,000cP	2m



Vacuum Cleaner Set (APPQ0600-SET)



It can be used safely even in explosion-proof areas. Because of the simple structure design, it is difficult to break down even in harsh environments, leading to cost reduction.



APPQ0600

## Pneumatic vacuum cleaner

Cleaners that can be selected abundantly depending on the model selected

### APPQ0400 Series

Can be recovered even if it is flammable such as waste oil

■ APPQ0400/400S : For oil/cutting oil/dust/chips (100µ or more and 1cm or less)

Inhalation volume **60 L/min**



[Material] Main body / nozzle: AL / SUS Packing: NBR  
 [Hose] PVC (Φ25×2m)

■ APPQ0400G : For kerosene/light oil

Inhalation volume **60 L/min**

[Material] Body/nozzle: AL/SUS Packing: NBR  
 [Hose] Oil-resistant PVC (Φ25×2m)

■ APPQ0400AS : For solvents

Inhalation volume **60 L/min**

[Material] Main body and nozzle: AL/SUS Packing: FKM  
 [Hose] Oil-resistant PVC (Φ25×2m)  
 [Common accessories for all types] Main nozzle (\* Only 400 oil stopper and filter set included)

Product Details



Inhalation	Compressor	Viscosity	Suction lift
	3hp	3,000cP	2m



Even if waste oil is spilled, there is no panic and you can collect and clean. There is no need to worry about leakage because electricity is not used. If you select the SAS type, solvent recovery is also possible.



APPQ0400

## Circulation type for drums

APDX1 can also be discharged

## Large capacity collection in drums! Model selection is possible according to the liquid

### Air vacuum pump

### APDQ1 Series



For large collection of cutting fluid and waste oil in coolant tanks!

■ APDQ1-25 : For oil

Inhalation volume **80 L/min**

[Material] Main body and nozzle: AL/SUS/CAC Packing: NBR  
 [Hose] PVC (Φ32×2m)

■ APDQ1-25G : For kerosene/diesel oil/gasoline

Inhalation volume **50 L/min**

[Material] Main body and nozzle: AL/SUS/CAC Packing: NBR  
 [Hose] NBR (Φ25×2m)

■ APDQ1-25AS : For solvents

Inhalation volume **50 L/min**

[Material] Main body and nozzle: AL/SUS/CAC Packing: PTFE/FKM/EPDM  
 [Hose] SUS304 (Φ25×2m)

Product Details



Inhalation	Compressor	Viscosity	Suction lift
	3hp	3,000cP	2m



APDQ1-25

### Air Pressure & Vacuum Pump

### APDX1 Series



Switch with a lever and transfer and collect liquids with this one unit!

■ APDX1-25 : For oil

Inhalation volume **80 L/min**

[Material] Main body and nozzle: AL/BS/SUS Packing: NBR  
 [Hose] PVC (Φ32×2m)

■ APDX1-25G : For kerosene/diesel oil/gasoline

Inhalation volume **50 L/min**

[Material] Main body and nozzle: AL / BS / SUS Packing : NBR  
 [Hose] NBR (Φ25×2m)

■ APDX1-25AS : For solvents

Inhalation volume **50 L/min**

[Material] Main body and nozzle: AL/BS/SUS Packing: PTFE/FKM/EPDM  
 [Hose] SUS304 (Φ25×2m)

Product Details



Inhalation	Compressor	Viscosity	Suction lift
	3hp	3,000cP	2m



APDX1-25

### Air motorized centrifugal pump

### ACH Series

For the transfer and circulation of low-viscosity liquids

■ ACH-20AL : For kerosene and light oil

Inhalation volume **50 L/min**

[Material] Main body and nozzle: AL Packing: NBR/FKM

■ ACH-20SUS : For solvents

Inhalation volume **50 L/min**

[Material] Main body and nozzle: SUS Packing: PTFE/FKM

Discharge	Compressor	Viscosity	Press-age lift
	5hp	5cP	5m



ACH-20AL

### Air motorized vane pump

### AMVH Series

Self-priming transfer of medium-viscosity liquids

■ AMVH-20FC : For oil, kerosene, and light oil

Inhalation volume **45 L/min**

[Material] Main body and nozzle: FC/AL/SUS Packing: PTFE/FKM

■ AMVH-20SUS : For solvents

Inhalation volume **45 L/min**

[Material] Main body and nozzle: SUS Packing: PTFE/FKM

Discharge	Compressor	Viscosity	Press-age lift
	5hp	1,500cP	10m



AMVH-20FC

### Radial piston vane pump

### AMH1 Series

Medium viscosity and high head powerful type

■ AMH1-20FC : For oil, kerosene, and light oil

Inhalation volume **32 L/min**

[Material] Main body and nozzle: FC/AL/SUS Packing: PTFE/FKM

■ AMH1-20SUS : For solvents

Inhalation volume **32 L/min**

[Material] Body and nozzle: SUS Packing: PTFE

Discharge	Compressor	Viscosity	Press-age lift
	3hp	2,000cP	15m



AMH1-20FC

Product Details



\* Vacuum cleaners cannot be used with flammable liquids that may cause dust explosions such as aluminum powder. Cleaners without a filter cannot collect dust.  
 \* When using solvents, they must not infringe on the material. \* (APDQ1/APDX1)-For AS solvents, liquids that attack FKM (fluorine rubber) can be changed to EPDM (ethylene propylene rubber).



# Ventilation and air blowing

By adopting an air motor, you can play an active role regardless of the site

**Oil-free type factory fan** Oil or grease unnecessary! Blow air in Flammable area

## AFG-18 (24) NL



For ventilation and heat stroke in paint booths

■ AFG-18NL : Fan diameter 450mm

Swing 70° 7 levels of angle adjustment

[Material] Body and wings: Steel/AL

Compressor	Airflow	Rpm
3hp	250ml/min	1,800rpm

Large Type (AFG-24NL)



Ventilation in painted booths and explosion-proof areas that are not equipped with ventilation facilities, and air blowing to prevent heat stroke. In addition, it can be used for drying product paints.



**Oil-free wall-mounted factory fan** Can be installed on walls and pillars to make effective use of space

## AFK-18NL



Ideal for ventilation in places where heat is trapped and infectious disease control

■ AFK-18NL : Fan diameter 450mm

Swing 70° 7 levels of angle adjustment

[Material] Body and wings: Steel/AL

Compressor	Airflow	Rpm
3hp	250ml/min	1,800rpm

Product Details



It is installed on the top of a wall or pillar, eliminating the obstruction of conductors and the risk of tipping over, and allowing air circulation. Air valves and air filters can be operated at hand.



\* AFK-18NL comes with a 2m air supply hose

### Other lineup

**Floor type**

AFF-18NL

Angle adjustment: 7 steps



**Benttop**

AFD-18NL

Angle adjustment: 4 steps



The performance of each factory fan (blower) varies depending on the air pressure used and the condition of the piping.

### Product Options



**APD Series**

**Auto Stop Gun Nozzle**

ATNH-20: for kerosene and light oil ATNH-20T: for solvents



**APPQ0600 Series**

**Air Control Unit Hand/Foot Switch**

SWA5: For hand SWAF: For feet



**APPQ0600 Series**

**Drum top plate**

DTB200/100/50



**Drum can carry**

DC-NBR200/100/50

\* Installation image

Pneumatic **Not yet!** AQUA SYSTEM'S Products Safe For Use in Flammable Area



**Tank cleaning filtration cleaner**

**APDQO-F/J-F Series**

For reusing machine tools and cutting fluids and cleaning tanks!

Compressor	Viscosity
10/5hp	500cP



**Pneumatic cyclone cleaner**

**APPQO-CY Series**

For powder recovery  
Min. recovered grain 5.5 microns

Inhalation	Compressor	Dust Collector
	5hp	



**Air Pressure Pump**

**APP-C Series**

High viscosity is discharged just by inserting pails and cans

Discharge	Compressor	Viscosity
	1hp	5,000cP

\* Regarding the use of the product in explosion-proof (fire strictly prohibited) areas, interpretation and judgment differ depending on the instructions of the fire department in each region. Even if your product is air-operated that does not use electricity, please follow the guidance of your local fire department.  
\* Except for the oilless type, some air-driven products require an air filter or lubricator. Doing so may cause a malfunction, so be sure to install it before use. All products are for indoor use, and the usable temperature is 0~60°C.

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