

Do you have air compressor piping in your factory?

AQUA
SYSTEM CO.,LTD.

Pneumatic Equipment,

Safe For Use



in Flammable Area



Large-scale plant

Chemical plant

Pharmaceutical Factory

Oil & Gas Storage

Air-
driven

Air-powered type has many advantages in fire-free 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

Pneumatic

■ 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(Φ25×2m)/25=PVC(Φ32×2m)

■ 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(Φ19×2m)/25=PVC(Φ25×2m)

■ 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(Φ19×2m)/25=SUS304(Φ25×2m)

■ APD-20SUS : For solvents

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

[Material] Main body and nozzle: SUS304 Packing: PTFE/FFKM
[Hose] SUS304 (Φ19×2m)



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

Pneumatic

■ 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 (Φ19×2m)

■ 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(Φ25×2m)

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)



Compressor
5hp

Viscosity
100cP

Push lift
3m

The new CHD1 has improved wetted parts materials!



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)



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 (Φ19×1.2m)



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

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

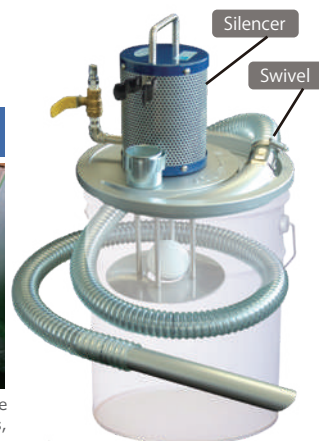
Vacuum Cleaner Set (APPQ0600-SET)



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



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

- **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)

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

Product Details



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



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

APDQ 1 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)

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

Product Details



Collect all at once in a drum can



APDQ1-25

Air Pressure & Vacuum Pump

APDX 1 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)

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

Product Details



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: FKM

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

[Drum Pump Set] (ACH/AMVH/ANH1)D-20 (AL/FC/SUS) : Include camlocks, hose, nozzle, suction pipe. [Hose Kit (Suction/Discharge Hose)] (ACH/AMVH/ANH1)H-20(AL/FC) : Include camlocks, hose, nozzle *Depending by set, specifications such as the liquid used, part's material, and the suction lift may change. Please contact us for details.



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

Refueling stand type factory fan

Oil or grease unnecessary! Blow air in Flammable area

AFG-18 (24) NL

Pneumatic

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 3hp Airflow 250m³/min Rpm 1,800rpm

Large Type (AFG-24NL)

■ AFG-24NL : Fan diameter 600mm

Swing 55° 4 levels of angle adjustment

[Material] Body and wings: Steel/AL

Compressor 5hp Airflow 280m³/min Rpm 1,000rpm



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

Pneumatic

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 3hp Airflow 250m³/min Rpm 1,800rpm



Other lineup

Floor type

AFK-18NL

Angle adjustment: 7 steps



Benchtop

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.



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

Product Options



APD Series

Auto Stop Gun Nozzle

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



APPQO600 Series

Air Control Unit Hand/Foot Switch

SWA5: For hand SWAF: For feet



APPQO600 Series

Drum top plate

DTB200/100/50



Drum can carry

DC-NBR200/100/50

Pneumatic Not yet!

AQUASYSTEM'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!

Inhalation Discharge Compressor 10/5hp Viscosity 500cP



Pneumatic cyclone cleaner

APPQO-CY Series

For powder recovery Min. recovered grain 5.5 microns

Inhalation Discharge Compressor 5hp Dust Collector



Air Pressure Pump

APP-C Series

High viscosity is discharged just by inserting pails and cans

Discharge Compressor 1hp Viscosity 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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