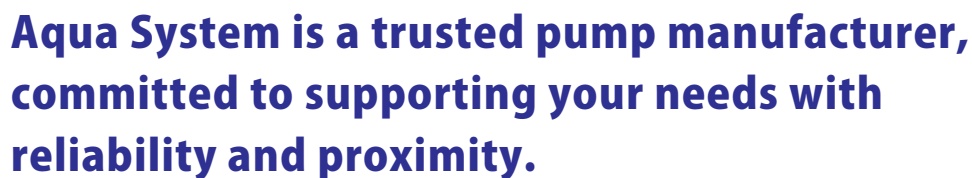


<p> All-Operated Drum Pump (Reciprocating Hand Pump) </p>	<p> Electric Drum Pump (Electric Hand Pump) </p>	<p> Electric Hand Pump (Electric Hand Pump) </p>	<p> Manual Pump </p>	<p> Tank Cleaning </p>	<p> Filtration Cleaner </p>	<p> Vacuum Cleaner Vacuum Pump </p>	<p> Pail & 18L Can Pumps </p>	<p> Wing Pump Diaphragm Pump </p>	<p> Industrial Fan/Blower </p>	<p> Industrial Fan/Blower </p>	<p> Cock / Rack </p>	<p> Gun Nozzle/Flow Meter </p>	<p> Eco Sweeper/Station Trolley </p>	<p> Liquid Level Indicator </p>	<p> Heating Jacket/ Others </p>
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NEW
1

Liquid Level Gauge Series

Laser Type Level Gauge

Remotely monitors liquid levels
to prevent shortages and
ordering errors!

Monitors up to 15 units simultaneously
Requires Master Unit (GDE-W)

See P.62

GDE-CLW

GDE-W

Repeater*

Wireless range from sub-unit to master unit:
approx. 50m (based on in-house testing)
Approx. 100m with one repeater



Sensor Type Level Gauge

Easy one-touch operation
Minimizes manual checking!
With external output function

FULL

EMPTY

See P.63

Air-Operated Level Gauge

Safe level monitoring
in fire-prohibited areas
Controls pump using air only!

FULL

EMPTY

See P.64

GDA-HH

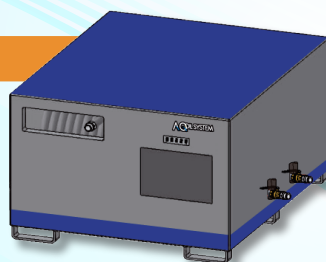


NEW
2

Liquid Supply System*

For Oil Only

- Dual 20m hose reels for left / right dispensing
- Preset function with receipt printing
- USB data export; stores up to 8 oil types
- Switch-operated valve (2 oil types)
- Dual digital displays show dispensing volume



For AdBlue Only

- Transfers IBC tank in approx. 10 minutes high-discharge model (60-100L/min)
- Preset & dry-run prevention functions
- Receipt printing & USB data export
- Preset accuracy: within $\pm 1\text{L}$
- Flowmeter accuracy: within $\pm 1\%$



NEW
3

Chemical Drum Pump SUS316 for acids and alkalis*

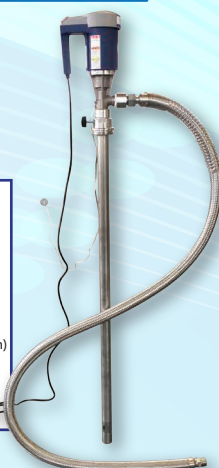
Long-awaited SUS316 model now available!

- Versatile type for a wide range of liquids

Compatible with following liquids!

- | | |
|--|---|
| <input checked="" type="checkbox"/> Seawater | <input checked="" type="checkbox"/> Aluminum nitrate |
| <input checked="" type="checkbox"/> Citric acid | <input checked="" type="checkbox"/> Silver nitrate |
| <input checked="" type="checkbox"/> Aluminum acetate | <input checked="" type="checkbox"/> Ferric nitrate |
| <input checked="" type="checkbox"/> Sulfur trioxide | <input checked="" type="checkbox"/> Calcium hydroxide |
| <input checked="" type="checkbox"/> Calcium hypochlorite | <input checked="" type="checkbox"/> Caustic soda(50% concentration) |
| <input checked="" type="checkbox"/> Calcium bisulfite | <input checked="" type="checkbox"/> Carbolic acid |
| <input checked="" type="checkbox"/> Sodium bisulfite | <input checked="" type="checkbox"/> Limewater |

*Hose sold separately



NEW
4

Explosion-proof heating jacket*

Easy to install with jacket design!

- Safe for use in hazardous areas
- Active in dangerous zone operations
- Custom specifications available



See P.67

Introducing International-Exclusive Products

Vacuum cleaner for pail can

Air Type



AVC-55PC

AVC-55 AVC-55PC*

Standard Type

*PC = Pail can and Carrier set (included).
Compressor over 5HP.



- Efficiently collects cutting fluids, powders, and sludge—even those mixed with foreign materials.
- Designed for industrial use: more economical, safer, and longer-lasting.
- Simple and easy to use—just place the top plate.

Model		AVC-55PC
Applicable liquid /collectables		Oil, Kerosene, Diesel, Cutting Oil, Chips, General Rubbish, etc.
Air Consumption		525L/min
Max. suction		60L/min
Suction height		2m
Accessories	Oil Stopper	Included
	Carrier	Included
	Open Pail Can	Included
	Nozzle	Main / Square Nozzle
Material	Hose (Length/I.D.)	PVC (2m x 32φ)
	Body/Nozzle	AL
	Packing	NBR
Weight(kg)		4.0

Vacuum pump for drum can

Air Type



APD-R-i

APD-R-i

Significant cost reduction
through proprietary technology

200L (JIS compliant)
For closed drum only (D. 62)

Discharging only (Compressor over 1HP)

To discharge liquid effectively

Max. remaining liquid: 5cm (1-2L in our test)

Operates even in emergencies

Continues operating until compressed air is fully depleted

Equipped with dual safety design

Drum pressure is safely regulated

Silent type

Energy-efficient type

Model		APD-R-i
Applicable liquid		Oils
Lifting height		2m
Accessories	Nozzle	Ball Valve
	Hose (Length/I.D.)	NBR (2m x 32φ)
	Earth Cable	Included
Material	Body/Nozzle	AL, Steel Plating
	Packing	NBR
Weight(kg)		4.4

Check the official website for the digital catalog

Official Website



Centralized product details and selection tools

Overseas Website



Lineup of international-exclusive products

Digital Catalog



Access comprehensive product information

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AQUA
SYSTEM CO.,LTD.



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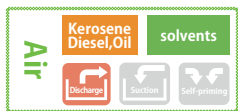
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Air-operated Drum Pump (Sealed Pressure-type)

Liquids are discharged by pressurizing the container.

Air Pressure Pump

APD Series



Compressor:
1 HP

Viscosity:
Max. 3,000 cP

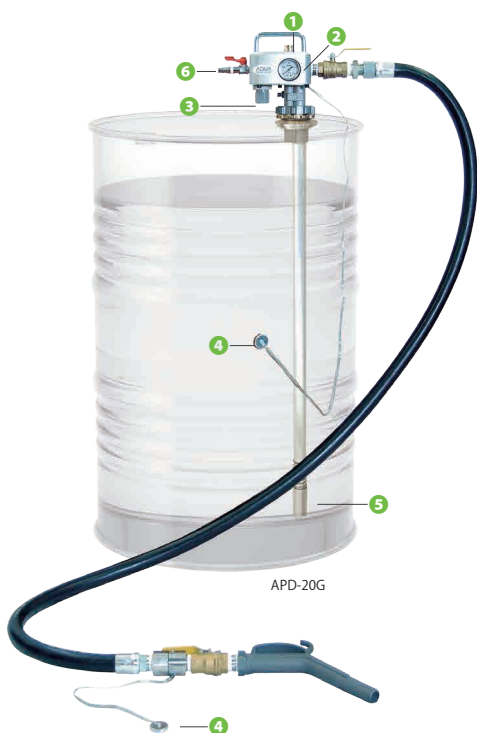


Minimal residue for energy saving.
Safe handling of highly flammable liquids.

- Minimal residue (approx. 200 cc), efficient discharge
- For JIS-standard 200L closed drums (G2 plug)



Safely and efficiently handle flammable liquids and residual drainage. – no need for costly explosion-proof pumps or risky manual handling.



APD-20G

① Safety Valve

Releases air when pressure exceeds 0.07 Mpa



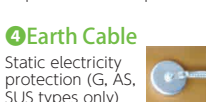
② Pressure Gauge

Easily check drum pressure at a glance



③ Regulator

Maintains constant pressure to prevent drum rupture



④ Earth Cable

Static electricity protection (G, AS, SUS types only)



⑤ Suction Spring

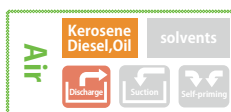
Spring tip retracts to discharge liquid with minimal waste



⑥ Air Coupler Plug (Male)

Air Pressure Pump

APD-20ATNB



Compressor:
1 HP

Viscosity:
Max. 1,500 cP



Customizable for your application



APD-20ATNB

About APD-20ATNB

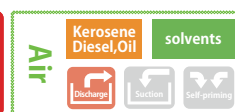
- Auto-stop gun nozzle for medium-viscosity oil
- Auto-stop prevents overflow when tank is full
- Battery-powered auto-stop gun nozzle
- Reduces oil stains and odors
- Ideal for preventing spills and cleaning issues

See P.56 for nozzle (ATNB-20)

Separate-type Air Pressure Pump

APDS Series

Made to order



Compressor:
1 HP

Viscosity:
Max. 4,000 cP



Disassembles for cleaning, ideal for transferring large volumes of high-viscosity liquids

- Wetted parts can be disassembled for cleaning
- Sanitary type also used for food applications (APDS-1s / 1.5s) *Not compliant with the Food Sanitation Act
- Pressurizing section (G3/4) and discharge section (G2) are separated

① Pressurizing Section



② Earth Cable

Standard earth cable for safe use in hazardous areas (SUS type)

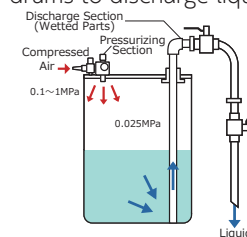
③ Air Coupler Plug (Male)



Easy to clean – APDS-1s / 1.5s

Discharge Mechanism

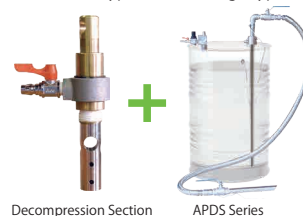
The APDS Series pressurizes drums to discharge liquid.



With decompression unit, both suction and discharge are possible

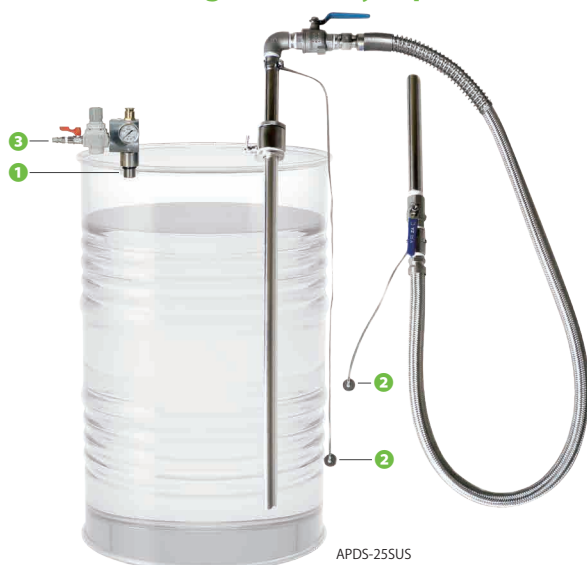
Suction Type

Discharge Type



Decompression Section

APDS Series



APDS-25SUS

APD•APDS Series Specifications




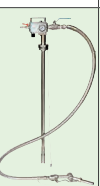





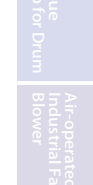



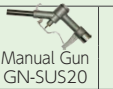
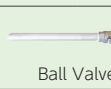

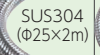





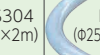
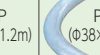


■ Kerosene, Diesel, Oil

No.	1	2	3	4	5	6	7	8	9	10
Image										
Model	APD-20	APD-25	APD-20N	APD-25N	APD-20ATNB	APD-20G	APD-25G	APD-20GN	APD-25GN	APDS-32
Compatible Container	200L closed drum (JIS standard: G2 large plug / G3/4 small plug), sealed pressure type (Only APDS series features separate pump and pressurizing units)									
Liquid	Oil				Medium Viscosity Oil	Kerosene, Diesel, Gasoline				Oil
Viscosity (cP)	3,000				1,500	3,000				4,000
Discharge Volume (cc/rev•1 stroke)	65	150	55	80	5	55	115	50	70	131
Max. Discharge Head (m)	2									
Accessories	Nozzle	Ball Valve		Manual Gun GN-AL20(25)		ATNB-20		Ball Valve		Manual Gun GN-AL20(25)
	Hose Material (I.D. x Length)	PVC (φ25×2m)	PVC (φ32×2m)	PVC (φ25×2m)	PVC (φ32×2m)	PVC (φ25×2m)	Oil-resistant Rubber Hose (φ19×2m)	Oil-resistant Rubber Hose (φ25×2m)	Oil-resistant Rubber Hose (φ19×2m)	Oil-resistant Rubber Hose (φ25×2m)
	Air Connection Port	Air Coupler Plug (Male)								
	Others	Hook Spanner								
	Earth Cable	—				○				—
Material of wetted parts	Main Body•Nozzle	AL/Bs/SUS/CAC				AL/CAC	AL/Bs/SUS/CAC			
	Packing	FKM/PTFE		FKM/PTFE/NBR		FKM/PTFE		FKM/PTFE/NBR		
Weight (Kg)	4.4	5.6	4.3	5.1	5.2	6.4	8.8	6.3	8.3	9.7
Options *Not included with standard products	Auto-stop Gun Nozzle	For Oil Max. 1,500 cP ATNB-20	—	For Oil Max. 1,500 cP ATNB-20	—	—	For Kerosene and Diesel only			
	Flow Meter	For Oil Max. 1,000 cP MK33-25OL (See P.58)	—	For Oil Max. 1,000 cP MK33-25OL (See P.58)	—	—	For Kerosene and Diesel only MK33-25D TB-K24-FM (See P.58)	For Kerosene and Diesel only MK33-25D TB-K24-FM (See P.58)	For Kerosene and Diesel only MK33-25D TB-K24-FM (See P.58)	For Kerosene and Diesel only MK33-25D TB-K24-FM (See P.58)

*Separate fittings required when installing optional flow meter. *Battery-powered sensor auto-stop nozzle (ATNB-20) cannot be used with flow meter.

*Flow meter (TB-K24-FM) has a digital display and cannot be used in hazardous areas. For kerosene and diesel only; not for other liquids.

■ Solvent

No.	11	12	13	14	15	16	17	18	19	20	21													
Image																								
Model	APD-20AS	APD-25AS	APD-20ASN	APD-25ASN	APD-20SUS	APD-20SUSN	APDS-25SUS	APDS-32SUS	APDS-1s	APDS-1.5s	APDS-25PP													
Compatible Container	200L closed drum (JIS standard: G2 large plug / G3/4 small plug), sealed pressure type (Only APDS series features separate pump and pressurizing units)																							
Liquid	Solvent*																							
Viscosity (cP)	3,000												4,000											
Discharge Volume (cc/rev・1 stroke)	35	115	30	70	40	35	70	130	73	193	78													
Max. Discharge Head (m)	2																							
Accessories	Nozzle	 Ball Valve		 Manual Gun GN-ALT20(25)		 Ball Valve		 Manual Gun GN-SUS20		 Ball Valve		—												
	Hose Material (I.D. x Length)	 SUS304 (φ19×2m)	 SUS304 (φ25×2m)	 SUS304 (φ19×2m)	 SUS304 (φ25×2m)	 SUS304 (φ19×2m)		 SUS304 (φ25×2m)		 SUS304 (φ32×2m)	 PP (φ25×1.2m)	 PP (φ38×1.2m)	 PP (φ25×1.2m)											
	Air Connection Port	Air Coupler Plug (Male)																						
	Others	Hook wrench / with EPDM packing*1 (G45)												—										
	Earth Cable	○												—										
Material of wetted parts	Main Body・Nozzle	AL/Bs/SUS/CAC												SUS304						SUS(Sanitary)		PP		
	Packing	PTFE/FKM/FFKM												PTFE/FFKM										PTFE/FFKM EPDM/FFKM
Weight (Kg)	6.3	8.5	6.2	8.4	7.8	7.6	9.4	11.5	6.2	8.1	5													
Options	Only suitable for viscosities of 5 cP or less												—											
*Not included with standard products	Auto-stop Gun Nozzle	 ATNH-20T ATNH-25T ATNH-20T ATNH-25T												—										

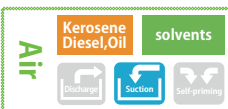
*Solvents must be compatible with the material. *1 For solvents like acetone or MEK, replace the standard FKM packing with the included EPDM packing.

Air-operated Drum Pump (Sealed Vacuum-type)

Draws liquid by creating a vacuum inside the container

Air Vacuum Pump

APDQ1 Series



Compressor:
3 HP
Viscosity:
Max. 3,000 cP



For collecting waste liquid from coolant tanks



1 Adjusting Valve

Suction volume adjustable via screw setting



2 Ejector

Air exhaust port



3 Adapter

Easy installation with locknut fitting



4 Air Coupler Plug (Male)

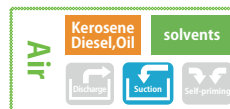
Earth Cable
Static electricity protection (G, AS types only)



- Auto-stop when full
- For JIS-standard 200L closed drums (G2 plug)
- Sealed negative pressure type, for suction only

Separate-type Air Vacuum Pump

APDQS Series



Compressor:
3 HP
Viscosity:
Max. 4,000 cP



Easy-to-clean design for high-volume recovery

Made to order



Sanitary type uses tri-clamp fittings



Easy to clean – APDQS-1s / 1.5s

1 Decompression Section

Equipped with float ball to prevent overflow when full



2 Air Coupler Plug (Male)

Earth Cable
Static electricity protection (SUS type only)



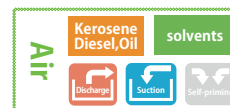
- Separate type
- APDQS Series is easy to clean
- Sanitary type has been used for food applications
*Not compliant with the Food Sanitation Act
- Decompression section (G3/4) and pump suction section (G2) are separated

Collect waste oil and liquid directly into drums.
Reduces labor and enables direct disposal as industrial waste.

Switches container pressure between positive and negative

Air Pressure & Vacuum Pump

APDX1 Series



Compressor:
3 HP
Viscosity:
Max. 3,000 cP



2-in-1!
Discharge and suction with a single lever

1 Dual-function: Discharge & Suction

Easy switching with simple operation



Suction / Discharge

2 Suction spring inlet

Retractable spring tip enables low-waste discharge

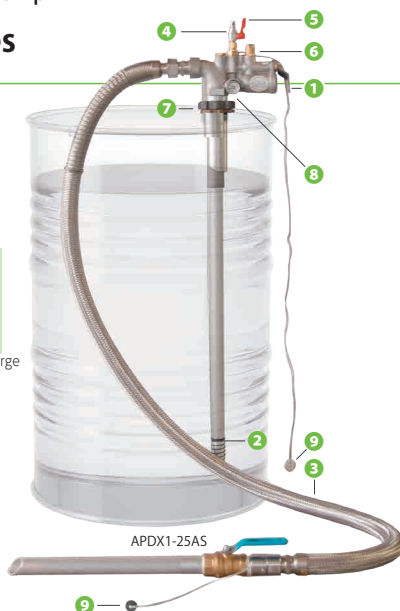
3 Hose

Selectable based on liquid type

4 Air Coupler Plug (Male)

5 Adjusting Valve

Suction volume adjustable via screw setting



6 Safety Valve

7 Adapter

Easy installation with locknut fitting



8 Pressure Gauge

Easily check drum pressure at a glance

9 Earth Cable












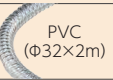

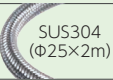
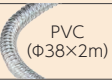
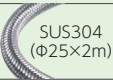

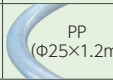
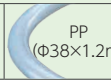
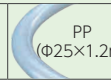
Static electricity protection (G, AS types only)

- For both discharge and suction
- Minimal residue (approx. 200 cc)
- For JIS-standard 200L closed drums (G2 plug)
- Operates with compressed air; sealed drum system
- Equipped with safety valve and pressure gauge for safe operation

One pump for both suction and discharge—ideal for solo cutting fluid transfer and oil changes.
Reduces equipment costs and labor.

APDQ1・APDQS Series Specifications

■ Kerosene, Diesel, Oil □ Solvent

No.	1	2	3	4	5	6	7	8	9	
Image										
Model	APDQ1-25	APDQ1-25G	APDQ1-25AS	APDQS-32	APDQS-25SUS	APDQS-32SUS	APDQS-1s	APDQS-1.5s	APDQS-25PP	
Compatible Container	200L closed drum (JIS standard: G2 large plug / G3/4 small plug), sealed pressure type (Only APDQS series features separate pump and pressurizing units)									
Liquid	Oil	Kerosene, Diesel, Gasoline	Solvent*	Oil	Solvent*					
Viscosity (cP)	3,000				4,000					
Function					For suction only					
Air Consumption (L/min)	167				310					
Max. Suction Head (m)					2					
Max. Suction Volume (1 cP at L/min)	80	50		128	68	139	74	197	74	
Accessories	Nozzle	 Straight	 Straight		 Ball Valve	 Ball Valve		—		
	Hose Material (I.D. x Length)	 PVC (Φ32×2m)	 Oil-resistant Rubber Hose (Φ25×2m)	 SUS304 (Φ25×2m)	 PVC (Φ38×2m)	 SUS304 (Φ25×2m)	 SUS304 (Φ32×2m)	 PP (Φ25×1.2m)	 PP (Φ38×1.2m)	 PP (Φ25×1.2m)
	Air Connection Port				Air Coupler Plug (Male)					
	Others	Air adjustment screw 4mm / Hex wrench / Hook spanner			Air adjustment screw 1mm, 4mm / Hex wrench					
	Earth Cable	—	○		—	○		—		
Material of wetted parts	Main Body・Nozzle	AL/SUS/CAC			AL/Bs/SUS	SUS		SUS (Sanitary)		PP
	Packing	NBR/FKM		PTFE/FKM FFKM EPDM *1	FKM	PTFE/FFKM				PTFE/FFKM EPDM/FKM
Weight (Kg)	3.3	4.4	4	5.1	6.3	8	5	6		

*Solvents must be compatible with the material.

*1 For liquids incompatible with FKM (fluororubber), EPDM (ethylene propylene rubber) is also available.

APDX1 Series Specifications

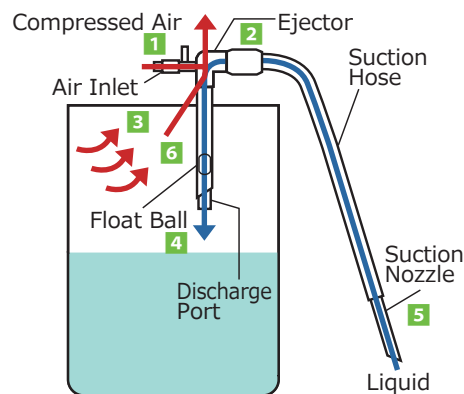
■ Kerosene, Diesel, Oil □ Solvent

No.	10	11	12
Image			
Model	APDX1-25	APDX1-25G	APDX1-25AS
Compatible Container	200L Closed Drum (JIS standard: G2 large plug / G3/4 small plug)		
Liquid	Oil	Kerosene, Diesel, Gasoline	Solvent*
Viscosity (cP)	3,000		
Function	Both discharge and suction		
Air Consumption During Suction (L/min)	167		
Max. Suction Head (m)	2		
Max. Suction Volume (L/min) at 1 cP	80	70	
Max. Discharge Volume (L/min) at 1 cP	100	50	
Accessories	Nozzle	Ball Valve	
	Hose Material (I.D. x Length)	PVC (Φ32×2m)	Oil-resistant Rubber Hose (Φ25×2m)
	Air Connection Port	Air Coupler Plug (Male)	
	Others	Air adjustment screw 4mm / Hex wrench / Hook spanner	
	Earth Cable	—	○
Material of wetted parts	Main Body・Nozzle	AL/Bs/SUS	
	Packing	NBR	PTFE/FKM EPDM *1
Weight (Kg)	4.3	5.7	5.3

*Solvents must be compatible with the material.

*1 For liquids incompatible with FKM (fluororubber), EPDM (ethylene propylene rubber) is also available.

APDQ1 Suction Mechanism



Explosion-proof type with no electricity required



G and AS types come with standard earth cable for static protection

Overflow Prevention



Built-in float ball prevents liquid overflow

Air-operated Drum Pump

Air Motor-driven Chemical Drum Pump

CHD (1) -20A Series

Ideal for transferring alcohol or thinner in hazardous areas

① Air Coupler Plug (Male)

② Hose

③ Motor head is replaceable

- Motor head is easy to attach and remove
- Air motor can be replaced with electric motor

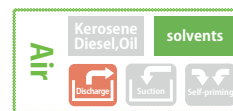


Remove four connection screws between motor and pump pipe with a screwdriver



Reassembly completes the replacement

*Motors in CHD and CHD1 series are not interchangeable



Compressor: 5 HP

Viscosity: Max. 100 cP



④ Nozzle



Includes N Type (Manual Gun Nozzle)



Includes V Type (Ball Valve)

- Lightweight and compact body
- Safely dispenses flammable liquids
- Motor is replaceable
- Air motor type ensures pulse-free operation

Safely dispense alcohols and thinners at low cost. Durable, user-friendly design boosts efficiency and cuts costs.

Air-operated Diaphragm Pump

DF Series

Transfers high-viscosity oils and flammable liquids to elevated or distant locations

Both-end Hose Connection Type

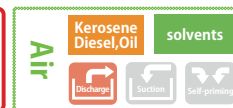
DF6H-20G With coupler and suction inlet



*Compatible with any container on suction side



Made to order



Compressor: 3 HP

Viscosity: Max. 4,000 cP



① Adapter (G2) – Easy to install

② Air Coupler Plug (Male)

③ Earth Cable



④ Hose

⑤ Ball Valve Nozzle

- Efficient transfer of medium-viscosity liquids
- Ideal for horizontal or high-head transfer
- High discharge head
- Diaphragm pump (with pulsation)

Continuous operation without drum sealing – efficient oil dispensing and easy transfer to elevated points, reducing work time.



Air Piston Drum Pump

PST Series

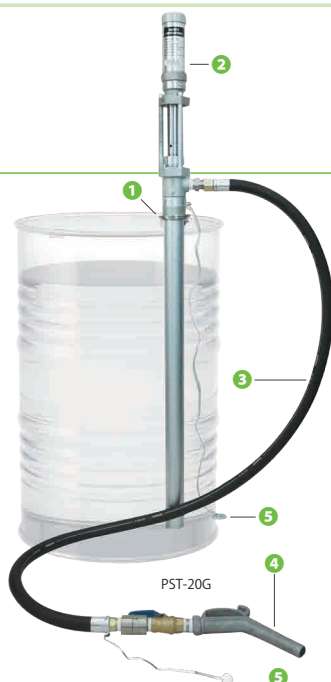
For high-viscosity gear oil transfer and dispensing. Transfers up to 50 m vertically.

① Adapter (G2) – Easy to install

② Air Coupler Plug (Male)



Flow rate adjustable via needle valve by controlling air volume



③ Hose

④ Ball Valve Nozzle

⑤ Earth Cable



- Compatible with high-viscosity liquids
- Transfers to elevated or distant locations
- Max discharge head: 50 m
- Discharge only
- Piston pump (with pulsation)

















Smooth transfer of high-viscosity oils boosts efficiency. Easily handles thick oils like ISO 320, reducing work time.



*Always use an air filter and lubricator.

CHD(1) -20A Series Specifications

☐ Solvent

No.	1	2	3	4	5	6	7	8	9	
Image										
Model	CHD-20APP	CHD-20APPV	CHD-20APPN	CHD-20AHP	CHD-20AHPV	CHD-20AHPN	CHD1-20ASUS	CHD1-20ASUSV	CHD1-20ASUSN	
Compatible Container	200L Closed Drum									
Liquid	Solvent*									
Viscosity (cP)	100									
Air Consumption (L/min)	235 (at recommended supply pressure of 0.3 MPa)						583 (at recommended supply pressure of 0.5 MPa)			
Max. Discharge Volume (L/min) at 1 cP	50		25		50		30		20	
Max. Discharge Head (m)	4						3.5			
Accessories	Nozzle	—		 Manual Gun GN-PPW20		—		 Manual Gun GN-SUS20		
	Ball Valve	—	 Ball Valve	—			 Ball Valve	—	 Ball Valve	—
	Hose Material (I.D. x Length)	 PVC (Φ25×2m)						 SUS304 (Φ19×2m)		
	Air Connection Port	Air Coupler Plug (Male)								
	Earth Cable	—						○		
Material of wetted parts	Main Body・Nozzle	PP/PTFE SUS316	PP/PTFE SUS316/PVC	PP/PTFE SUS316 SUS304	PVDF/PP PTFE/ETFE Alloy625	PVDF/PP/PTFE ETFE Alloy625/PVC	PVDF/PP/PTFE ETFE/Alloy625 SUS304	SUS304/SUS(SCS13)/ETFE		
	Packing	FKM	FKM/EPDM	FKM/NBR	FKM	FKM/EPDM	FKM/NBR	PTFE/FFKM		
Weight (Kg)	2.4	2.6		2.4	2.6		7	7.5	8.1	

*Solvents must be compatible with the material. CHD-20APPN and CHD1-20ASUSN support different liquids. See chemical resistance chart (P.68).

DF/PST Series Specifications

☐ Kerosene, Diesel, Oil ☐ Solvent

No.	10	11	12	13	14	15	16	17	18	
Image										
Model	DF4D-20G	DF6D-20G	PST-20G	DF4D-20AS	DF6D-20AS	DF6D-20SUS	PST-20SUS	DF4H-15G	DF6H-20G	
Compatible Container	200L Closed Drum							With hoses on both ends		
Pump Method	Diaphragm		Piston	Diaphragm			Piston	Diaphragm		
Liquid	Oil, Kerosene, Diesel, Gasoline		Oil	Solvent*				Oil, Kerosene, Diesel, Gasoline		
Viscosity (cP)	4,000		20,000	2,500			20,000	4,000		
Air Consumption (L/min)				250						
Supply Pressure (MPa)	0.3~0.5		0.3~0.8	0.1~0.3			0.3~0.8	0.3~0.5		
Discharge Volume (cc/rev・1 stroke)	32	48	15	19	28		15	40	50	
Max. Discharge Head (m)	45		50	25			50	30	40	
Max. Suction Head (m)				2						
Accessories	Nozzle									
	Hose Material (I.D. x Length)									
	Suction Side	Suction pipe for 200L drum							Oil-resistant Rubber Hose (Φ15×2m)	Oil-resistant Rubber Hose (Φ19×2m)
	Air Connection Port				Air Coupler Plug (Male)					
	Earth Cable				○					
Material of wetted parts	Main unit・Nozzle	AL/Bs/SUS		AL/鉄/Bs/SUS	AL/Bs/SUS		SUS		AL/Bs	
	Diaphragm	TPC-ET *2		—	PTFE			—	TPC-ET *2	
	Packing	NBR/FFKM		FKM/PTFE/皮	PTFE/FFKM			FKM/PTFE/PE	NBR/FFKM	
Weight (Kg)	7.5	8.5	9.4	6.1	7.1	11	9.8	6		

*Solvents must be compatible with the material.

*1 Maximum discharge for DF6H-20G at 0.5 MPa; DF4D-20AS, DF6D-20AS, and DF6D-20SUS at 0.3 MPa *2 TPC-ET: Thermoplastic elastomer (polyester-polyether type)

Air-operated Handy Pump

Air Motor-driven Centrifugal Pump

ACH Series



Compressor:
5 HP

Viscosity:
Max. 5 cP



For transferring or circulating kerosene, diesel, and low-viscosity liquids



ACH-20SUS

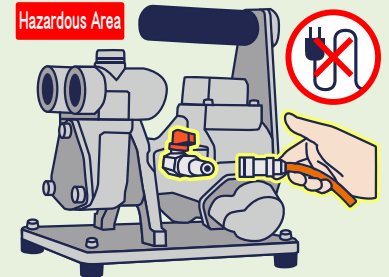


Both-end Hose Connection Type
ACHH-20AL



For Drum
ACHD-20SUS

Air-driven—no electricity required

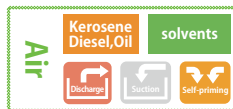


Just connect the air hose

- Max discharge: 50 L/min
- Max discharge head: 5 m
- Volute-type centrifugal pump

Air Motor-driven Vane Pump

AMVH Series



Made to order

Compressor:
5 HP

Viscosity:
Max. 1,500cP



AMVH-20SUS



Both-end Hose Connection Type
AMVHD-20FC



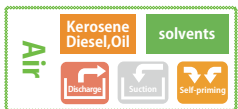
For Drum
AMVHD-20SUS

For self-priming transfer of medium-viscosity liquids

- Handles medium-viscosity liquids up to 1,500 cP
- Max discharge head: 10 m
- Vane motor-type vane pump

Radial Piston-type Vane Pump

AMH1 Series



Made to order

Compressor:
3 HP

Viscosity:
Max. 2,000cP



AMH1-20SUS



Both-end Hose Connection Type
AMH1H-20FC



For Drum
AMH1D-20SUS











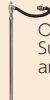

Self-priming, high-lift handy pump for medium-viscosity liquids

- Handles viscous liquids (up to 2,000 cP) with high-lift capability
- Max discharge head: 15 m
- Radial piston motor-type vane pump









*Always use an air filter and lubricator.

ACH / AMVH / AMH1 Series Specifications

Kerosene, Diesel, Oil

No.	1	2	3	4	5	6	7	8	9	
Image										
Model	ACH-20AL	AMVH-20FC	AMH1-20FC	ACHD-20AL	AMVHD-20FC	AMH1D-20FC	ACHH-20AL	AMVHH-20FC	AMH1H-20FC	
Motor Drive Method	Vane Motor		Radial Piston Motor	Vane Motor		Radial Piston Motor	Vane Motor		Radial Piston Motor	
Pump Method	Centrifugal Pump	Vane Pump		Centrifugal Pump	Vane Pump		Centrifugal Pump	Vane Pump		
Liquid	Kerosene, Diesel	Kerosene, Diesel Oil	Kerosene, Oil Diesel, Biodiesel	Kerosene, Diesel	Kerosene, Diesel, Oil		Kerosene, Diesel	Kerosene, Diesel, Oil		
Viscosity (cP)	5	1,500	2,000	5	1,500	2,000	5	1,500	2,000	
Air Consumption (L/min)	508	560	415	508	560	415	508	560	415	
Max. Discharge Volume (L/min) at 1 cP	50	45	32	50	45	32	50	45	32	
Max. Discharge Head (m)	5	10	15	5	10	15	5	10	15	
Max. Suction Head (m)	2	5		2	5		2	5		
Discharge Side	Rc3/4			 Oil-resistant Rubber Hose (Φ19×2m) With coupler and ball valve nozzle						
Suction Side	Rc3/4			 Oil-resistant Rubber Hose (Φ25×0.5m) Suction pipe for drum, with coupler and strainer			 Oil-resistant Rubber Hose (Φ19×2m) with coupler and strainer			
Air Connection Port	Air Coupler Plug (Male)									
Earth Cable	○									
Material of wetted parts	Main unit・Nozzle	AL	FC/AL/SUS		AL	FC/AL/SUS	FC/AL	AL	FC/AL/SUS	FC/AL
	Packing	NBR/FKM	PTFE/FKM		NBR/FKM	PTFE/FKM		NBR/FKM	PTFE/FKM	
Weight (Kg)	4.5	7.8	8	10.7	14	13.4	9.3	12.6	12	

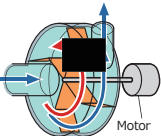
Solvent

No.	10	11	12	13	14	15
Image						
Model	ACH-20SUS	AMVH-20SUS	AMH1-20SUS	ACHD-20SUS	AMVHD-20SUS	AMH1D-20SUS
Motor Drive Method	Vane Motor		Radial Piston Motor	Vane Motor		Radial Piston Motor
Pump Method	Centrifugal Pump	Vane Pump		Centrifugal Pump	Vane Pump	
Liquid	Solvent*					
Viscosity (cP)	5	1,500	2,000	5	1,500	2,000
Air Consumption (L/min)	508	560	415	508	560	415
Max. Discharge Volume (L/min) at 1 cP	50	45	32	50	45	25
Max. Discharge Head (m)	5	10	15	5	10	15
Max. Suction Head (m)	2	5		2	5	
Discharge Side	Rc3/4			 SUS Hose (Φ19×2m) With coupler and ball valve nozzle		
Suction Side	Rc3/4			 SUS Hose (Φ19×0.5m) With coupler, suction pipe for drum, and strainer		
Air Connection Port	Air Coupler Plug (Male)					
Earth Cable	○					
Material of wetted parts	Main unit•Nozzle	SUS				
	Packing	FKM	PTFE FKM	PTFE	FKM FFKM	PTFE FKM FFKM
Weight (Kg)	6.4	9.7	8.8	14	17.3	18.6

*Solvents must be compatible with the material.

How a Centrifugal Pump Works

A centrifugal pump uses a high-speed impeller shaped like a spiral to generate centrifugal force. It is ideal for transferring low-viscosity liquids with minimal height difference. Also known as a "volute pump."



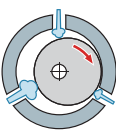
How a Vane Pump Works

The impeller is slightly offset from the pump center, causing the movable vanes to extend outward by centrifugal force.



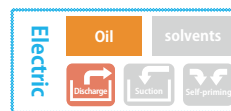
How a Radial Piston Motor Works

This motor uses compressed air alternately in three pistons. With all three built in, it delivers high discharge pressure—ideal for transferring high-viscosity liquids (up to 2,000 cP) within 15 m height or distance.



Electric Drum Pump(Electric Handy Pump)

Electric Handy Pump

EV SeriesViscosity:
Max. 2,500 cP

A powerful handy gear pump for transferring medium-viscosity oil to elevated locations

For drum
EVD-100

Lever coupling type



EV-100



EV-200



EV-12

Both-end hose connection type
EVH-100

- Max. head: 30 m
- Power source (100V・200V・12V) *Rated time: 20 minutes
- Lever couplings for one-touch hose and pipe connection

Ideal electric pump for dispensing high-viscosity oils and transferring to elevated locations. Operates reliably in cold climates and winter. Cuts operation time by half.

Electric Handy Pump

EMH SeriesViscosity:
Max. 500 cP

For transferring kerosene, diesel, and low-viscosity oil

For drum
EMHD-20FC

EMH-20FC

Both-end hose connection type
EMHH-20FC

- Capable of continuous operation
 - Transfers kerosene and diesel fuel from any type of container.
 - Vane pump with relief valve
 - Equipped with a thermal protector
- *The SUS type is not suitable for use with water or solvents.












A thermal protector is....

A safety device that shuts off the motor in case of overload or sudden temperature rise during operation.

Transfers a wide range of liquids—from biodiesel fuel to low-viscosity oils. Continuous operation reduces interruptions and significantly shortens transfer time.

EV Series Specifications

Oil










No.	1	2	3	4	5	6	7	8	9	10	11	12
Image												
Model	EV-100	EV-200	EV-12	EV-100H	EVD-100	EVD-200	EVD-12	EVD-100H	EVH-100	EVH-200	EVH-12	EVH-100H
Form	Pump Unit				200L Closed Drum				With hoses on both ends			
Liquid	Oil											
Viscosity (cP)	2,500			1,000	2,500			1,000	2,500			1,000
Power Supply (V)	100	Single-phase 200	DC12	100		Single-phase 200	DC12	100		Single-phase 200	DC12	100
Current (A)	10.5	4.5	35	10.5		4.5	35	10.5		4.5	35	10.5
Rated (minutes)	20											
Discharge Pressure (MPa)	0.45			0.21	0.45			0.21	0.45			0.21
Max. Discharge Volume (L/min) at 1 cP	15			30	15			30	15			30
Max. Discharge Head (m)	30			15	30			15	30			15
Max. Suction Head (m)	6											
Discharge side	Rc3/4				Oil-resistant rubber hose(Φ19×2.4m) , With coupler							
					Ball Valve Nozzle			Manual Gun	Ball Valve Nozzle			Manual Gun
Suction side		Rc1				200LSuction pipe for drum, with coupler and strainer			Oil-resistant rubber hose(Φ25×2m) with coupler and strainer			
Material of wetted parts	Main unit	FC/AL/SUS										
	Packing	NBR										
Power Cord (m)	0.5 *1	0.7 *2	0.07 *2	0.5 *1		0.7 *2	0.07 *2	0.5 *1		0.7 *2	0.07 *2	0.5 *1
Weight (Kg)	13	12.5	14		18		19		18.5	18	19.5	
Available mounting options *Not included with standard product	 MK33-25OL Disc flow meter (mechanical digital display)				   Manual gun(GN-AL3025) Measuring manual gun(GN-K600A) Quantitative preset gun nozzle(ATPS-10)			 MK33-25OL Disc flow meter (mechanical digital display)				

*When installing a flow meter, the usable viscosity is limited to 1,000 cP or less. If optional gun nozzles (GN-AL3025, GN-K600A, ATPS-10) are attached, the usable viscosity limit is 2,000 cP or less. Please note that additional fittings are required.

*1 Includes 5m extension cable. *2 Plug not included.

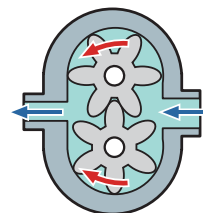
EMH Series Specifications

Kerosene, Diesel, Oil

No.	13	14	15	16	17
Image					
Model	EMH-20FC	EMH-20SUS	EMHH-20FC	EMHD-20FC	EMHD-20SUS
Form	Pump Unit		With hoses on both ends	200L Closed Drum	
Liquid	Kerosene, Diesel, Oil, Biodiesel	Kerosene, Diesel, Oil, Biodiesel , Solvent*	Kerosene, Diesel, Oil		Kerosene, Diesel, Oil, Biodiesel, Solvent*
Viscosity (cP)	500				
Power Supply (V)	100				
Current (A)	0.9				
Rated (minutes)	Continuous Operation Available				
Discharge Pressure (MPa)	0.1				
Max. Discharge Volume (L/min) at 1	30				
Max. Discharge Head (m)	10				
Max. Suction Head (m)	5				
Accessories	Discharge side	Rc3/4		 Oil-resistant rubber hose (Φ19×2m) With coupler and ball valve nozzle	 SUS hose (Φ19×2m) With coupler and ball valve nozzle
	Suction side	Rc3/4		 Oil-resistant rubber hose (Φ19×2m) with coupler and strainer	 Intake for drum can pipe Oil-resistant PVC hose (Φ25×0.5m) with coupler and strainer
Material of wetted parts	Main unit+Pipe	FC	SUS	FC/BS	
	Packing	PTFE/FKM		NBR/FKM	
Power Cord (m)		3			
Weight (Kg)		7	8.8	11.8	
				13.6	

*Solvents must be compatible with the material.

How Gear Pump Works



A gear pump uses two rotating spur gears to transfer liquid. Also called a geared pump, it operates as a positive displacement pump, where flow rate is proportional to rotation speed, enabling precise and predictable delivery. It provides low pulsation, handles high-viscosity fluids, and can transfer liquids with some solid content. Gear pumps are noted for their high discharge pressure.

*Avoid pumping sludge or abrasive solids to prevent gear damage.

How EMH Pump Works

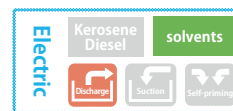


An EMH pump features a rotor whose center is slightly offset from the pump body's center, causing the vanes to extend outward by centrifugal force during rotation. It operates on the principle of increasing pressure by reducing volume through the movement of the vanes.

Electric Drum Pump

Electric Chemical Drum Pump

CHD (1) -20 Series

Viscosity:
Max. 100 cP

For dispensing low-viscosity, non-flammable solvents



1 The motor head unit is replaceable.

- The motor head unit is easy to attach and detach
- The electric type can be replaced with an air motor type

*CHD can be exchanged with other CHD series models.
CHD1 can be exchanged with other CHD1 series models.



Remove the four screws connecting the motor and the pipe (pump section) using a screwdriver.



Reassemble in the same way to complete the replacement.

2 Hose

The hose can be selected based on the type of liquid.

Equipped with a manual gun nozzle



N Type

Equipped with a ball valve



V Type

- Within rated load; thermal breaker equipped
- Lightweight and compact body
- Motor is replaceable
- For low-viscosity liquids (100 cP or less)
- Maximum discharge flow rate: 55 L/min (CHD-20PP-CHD-20HP)

Efficiently dispenses low-viscosity solvents.
Lightweight, easy to handle, and durable—designed to lower running costs and reduce overall expenses.

Selectable lineup based on your application and budget.

Please choose the drive type (electric or air-powered)
Replacement of the motor part (electric or air motor) is available post-purchase.

Standard Type



Main Unit + Valve Type



Main Unit + Gun Nozzle Type



*Solvents must be compatible with the material. *Not for use with flammable liquids.

Explosion-proof Electric Drum Pump (Pressure-resistant type)

*Certified under the Ministry of Labor's Explosion-Proof Electrical Equipment Standards (d2G3)

EMM Series

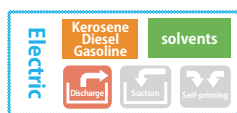
Made to order

SFC

Made to order

SHC-100

Made to order

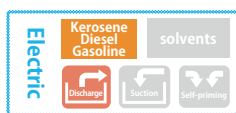


Outlet Part

- *The plug is not included
- *The power outlet is not explosion-proof

EMM-25SUS

- Pressure-resistant explosion-proof motor pump for transferring and dispensing flammable liquids

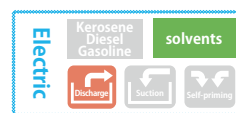


Equipped with a Manual Gun Nozzle GN-AL20



*The plug is not explosion-proof.

- A pump equipped with a pressure-resistant explosion-proof motor for safely transferring petroleum products
- Manual gun nozzle allows one-handed operation



Equipped with a Manual Gun Nozzle GN-AL20




















*The plug is not explosion-proof.

- Equipped with a pressure-resistant explosion-proof motor, safe and ideal for transferring solvents
- Compatible with various solvents and chemicals














CHD(1) -20 Series Specifications

□ Solvent

No.	1	2	3	4	5	6	7	8	9	
Image										
Model	CHD-20PP	CHD-20PPV	CHD-20PPN	CHD-20HP	CHD-20HPV	CHD-20HPN	CHD1-20SUS	CHD1-20SUSV	CHD1-20SUSN	
Form	200L Closed Drum									
Liquid	Solvent*									
Viscosity (cP)	100									
Power Supply (V)	100									
Current (A)	1.7						2			
Rated (minutes)	Continuous Operation Available									
Discharge Pressure (MPa)	0.05						0.04			
Max. Discharge Volume (L/min) at 1	55		30	55		30	33		22	
Max. Discharge Head (m)	5						4			
Max. Suction Head (m)	2									
Accessories	Nozzle	—		 Manual Gun GN-PPW20	—		 Manual Gun GN-PPW20	—		 Manual Gun GN-SUS20
	Ball Valve	—	 Ball Valve	—		 Ball Valve	—		 Ball Valve	—
	Hose Material (I.D x Length)	 PVC (Φ25×2m)						 SUS (Φ19×2m)		
	Earth Cable	—						○		
Material of wetted parts	Main Unit・Pipe	PP/PTFE SUS316	PP/PTFE SUS316/PVC	PP/PTFE SUS316 SUS304/FKM	PVDF/PP/PTFE ETFE/Alloy625	PVDF/PP PTFE/ETFE Alloy625/PVC	PVDF/PP PTFE/ETFE Alloy625 SUS304	SUS304/SUS(SCS13)/ETFE		
	Packing	FKM	FKM/EPDM	FKM/NBR	FKM	FKM/EPDM	FKM/NBR	PTFE/FFKM		
Power Cord (m)	3									
Weight (Kg)	2.5	2.7		2.5	2.7		7.5	8	8.6	

*Solvents must be compatible with the material. *Not for use with flammable liquids.

EMM Series / SFC / SHC-100 Specifications

No.	10	11	12	13	
Image					
Model	EMM-25PP	EMM-25SUS	SFC	SHC-100	
Form	200L Closed Drum				
Liquid	Solvent*	Solvent* Gasoline	Gasoline Kerosene, Diesel	Solvent* Biodiesel	
Viscosity (cP)	50		80		
Power Supply (V)	100(Pressure-resistant explosion-proof/d2G3)				
Current (A)	2.4		Full load 1.8 / At startup 2.5		
Rated (minutes)	60		Continuous operation available		
Discharge Pressure (MPa)	0.08		50Hz:0.04/60Hz:0.05		
Max. Discharge Volume (L/min) at 1	40		50Hz:40/60Hz:56		
Max. Discharge Head (m)	8		50Hz:4/60Hz:5		
Max. Suction Head (m)	2				
Accessories	Nozzle	 Manual Gun GN-PP25	 Manual Gun GN-SUS25	 Manual Gun GN-AL20	 Manual Gun GN-ALT20
	Hose Material (I.D x Length)	 PVC (φ25×1.3m)	 SUS (φ25×1.5m)	 Oil-resistant Rubber Hose (φ19×2m)	 SUS (φ19×2m)
	Connection Specifications	Hose Nipple	 Ball Valve	Rc3/4	
	Plug	—		Special rubber plug with 2P earth *2	
Material of wetted parts	Main Unit•Pipe	PP/C276 *1	SUS304/PVDF	AL/PA/SUS	AL/PE/SUS
	Packing	FPM PTFE/FFKM	PTFE/FFKM	NBR/FKM	PTFE
Power Cord (m)	7				
Weight (Kg)	6.8	11.6	12	11.5	

*Solvents must be compatible with the material.

*1 C276 is a nickel-based alloy with added chromium, molybdenum, and other elements to enhance its corrosion and heat resistance.

*2 Not for use with explosion-proof outlets.

"Good Points" of the CHD1 Series!

Improved over our conventional products!
Material of wetted parts
Uses SUS/PTFE FFKM materials



You can use it in places like these!

- For metal plating factories and surface treatment processes
- Lithium battery (secondary battery) manufacturing
- Dyeing, semiconductor, disinfectant manufacturing, automobile and electronics factories
- New energy sector

Proven performance in various locations!



Compatible with these liquids!

[Electric]

- Ethyl Acetate
- Butyl Acetate
- Hydrogen Peroxide
- Sodium Hydroxide(50%)
- Nitric Acid (30%)

[Air-operated]

- Alcohol
- Thinner
- Acetone
- Methanol
- MEK, etc.



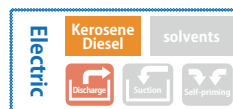
For flammable liquids, please use the air-operated type.

Chemical Resistance Chart (See P.68)

Electric Drum Pump For Kerosene And Diesel

Integrated Flowmeter Electric Drum Pump

TDP1 Series



Measurement and Flow Control — The New Standard! 8 Models Available to Suit Your Environment

Auto Stop Gun Nozzle Series

TDP1-ATN



TDP1-ATN

*For use with kerosene and diesel only

TDP1-ATNK24

With flowmeter
(nozzle side)

ATNH-20K24

Easy to read
at hand

TDP1K24-ATN

With flowmeter
(main unit side)

ATNH-20



TB-K24-FM

Streamlined
one-piece
design

TDP1M33-ATN

With large meter



ATNH-20



MK33-25D

Easy to read
from a
distance

Manual Gun Nozzle Series

TDP1-N



TDP1-N

*For use with kerosene and diesel only

TDP1-NK24

With flowmeter
(nozzle side)

GN1-POM20K24

Easy to read
at hand

TDP1K24-N

With flowmeter
(main unit side)

GN1-POM20



TB-K24-FM

Streamlined
one-piece
design

TDP1M33

With large meter



GN1-POM20



MK33-25D

Easy to read
from a
distance

1 Earth/Ground Wire

Only for Auto Stop Gun Nozzle models. Also equipped on the nozzle side

2 45° Swivel Joint (Rc3/4 connection)

Adjustable to desired angle

3 Breaker (Reset Button)

Automatically cuts power in case of overheating or overcurrent. Use as a restart button after resolving the cause of the shutdown.

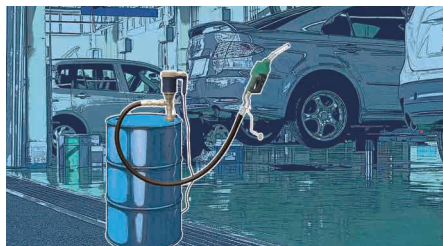
4 Power Switch

Cost savings through usage management

- Two nozzle types: Auto Stop Gun and Manual Gun
- Three flowmeter models available or without flowmeter is optional
- One drum (200L) in ~10 min (Auto-stop nozzle) / ~7 min (Manual nozzle)
- Auto Stop Nozzle stops automatically when tank is full
- For JIS-standard 200L closed drums (G2 thread)
- Compatible with household AC 100V



The latest drum pump—your solution for kerosene and diesel transfer! Trusted by professionals across industries to solve on-site challenges!



Widely adopted by major domestic automakers and various maintenance factories.



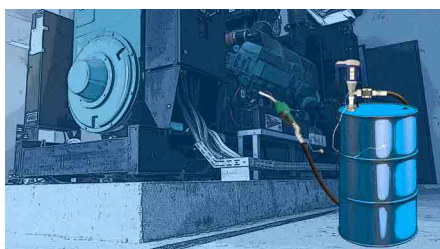
Measuring fuel during truck refueling at transport companies helps reduce costs.



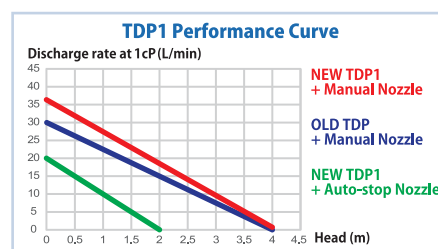
Daily refueling of farm equipment is made efficient with the high-discharge TDP1.



For helicopters and airlines with frequent refueling, the Auto Stop Nozzle is ideal.



Ideal pump for diesel transfer to large generators.



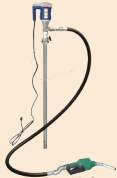




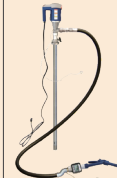

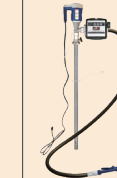








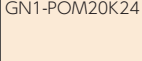


Discharge volume improved to 36 L/min. Auto stop nozzle version maintains stable discharge, delivering 20 L/min.

Reduce liquid transfer costs and improve work efficiency with high-efficiency pumps and usage monitoring. The energy-saving design minimizes operating costs.



TDP1 Series Specifications

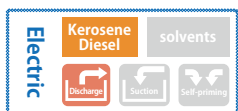
■ Kerosene / Diesel

No.	1	2	3	4	5	6	7	8		
Image										
Model	TDP1-ATN	TDP1-ATNK24	TDP1K24-ATN	TDP1M33-ATN	TDP1-N	TDP1-NK24	TDP1K24-N	TDP1M33		
Type	200L Closed Drum									
Liquid	Kerosene, Diesel									
Viscosity (cP)	100									
Power Supply (V)	100									
Current (A)	2									
Rated (minutes)	Continuous operation available									
Discharge Pressure (MPa)	0.04									
Max. Discharge Volume (L/min) at 1 cP	20				36	32				
Max. Discharge Head (m)	2				4					
Max. Suction Head (m)	2									
Accessories	Nozzle	 ATNH-20	 ATNH-20K24	 ATNH-20		 GN1-POM20		 GN1-POM20	 GN1-POM20	
	Flow Meter	—		 TB-K24-FM	 MK33-25D	—		 GN1-POM20K24	 TB-K24-FM	 MK33-25D
	Suction Side	Intake pipe for 200L drum								
	Hose Material (I.D.×Length)	Oil-resistant rubber hose (Φ19×2m)								
	Power Cable (m)	2								
Material of wetted parts	Main Unit·Nozzle	AL/SUS/ETFE/PTFE				AL/SUS/ETFE/PTFE/POM				
	Packing	NBR				NBR/FKM				
Weight (Kg)	5.9	6.3		7.4	4.6	5		6.1		

Electric Drum Pump For Kerosene And Diesel

Metering Pump System

CUBE-56 Series



CUBE-56K (Wall-mounted)

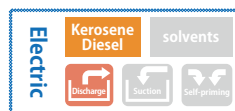
- Allows monitoring of usage
- Metered refueling of kerosene or diesel with auto stop function
- Automatically stops when container is full - no overflow risk

CUBE-56K (Stand type)

*For kerosene and diesel only

Metering Pump System

CUBE-70K



Made to order



- Prevents over-dispensing with preset volume control
- Allows monitoring of usage
- Auto stop at preset volume
- High capacity: 70 L/min

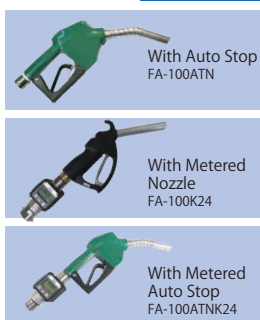
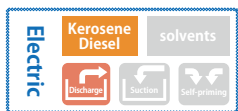
*For kerosene and diesel only *No receipt printing function

Accurately manage diesel or kerosene usage during tank transfers.
The auto-stop function prevents overconsumption and leakage by stopping at full capacity.

*Please contact the manufacturer for more information regarding this specific item.

Electric Drum Pump

FA-100 Series



- Auto stop prevents overflow when full (FA-100ATN / FA-100ATNK24)
- Easily check discharged volume and manage usage (FA-100K24 / FA-100ATNK24)
- Optional hose extension available (FA-100ATN / FA-100ATNK24: up to 4 m, FA-100K24: up to 10m)

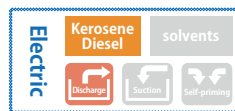
*For kerosene and diesel only

*Discharge rate drops to approx. 17L/min with Auto Stop Gun attached

*DC12V model = Compatible with FD-12 (24)

Electric Handy Pump

EVP Series



For drum
EVPD56-100



Dual-end hose connection
EVPH56-100












- High-speed transfer
- Compatible with flowmeters and Auto Stop Guns
- Equipped with relief valve
- Also available in 200V model

Supports long-distance transfers with automatic stop at full capacity.
Highly customizable design reduces the risk of leakage and ensures safe operation.

*For kerosene and diesel only

CUBE / FA-100 Series Specifications





















□ Kerosene / Diesel

No.	1	2	3	4	5	6	7
Image							
Model	CUBE-56T	CUBE-56K	CUBE-56S	CUBE-70K	FA-100ATN	FA-100K24	FA-100ATNK24
Type	Tabletop type	Wall-mounted type	Stand-type	Wall-mounted type	200L Closed Drum		
Liquid	Kerosene, Diesel						
Power Supply (V)	100						
Current (A)	5.5				2.7		
Rated (minutes)	Continuous operation available				30		
Discharge Pressure (MPa)	0.15			0.13	0.07		
Max. Discharge Volume(L/min) at 1 cP	46			70	17	40	17
Max. Discharge Head (m)	10			8	7		
Max. Suction Head (m)	2						
Accessories	Nozzle	 Auto-stop gun A60			 Auto-stop gun ATNH-FA	 Measuring Manual gun GN-AL3025K24FA	 Measuring Auto-stop gun ATNH-FAK24
	Discharge Hose Material (I.D. × Length)	Oil-resistant rubber hose(Φ19×4m)			Oil-resistant rubber hose (Φ25×4m)	Oil-resistant rubber hose(Φ19×2m)	
	Flow Meter	Disk (Mechanical digital display)			Preset type	—	Turbine (LCD digital display)
	Suction Side	Oil-resistant PVC hose(Φ25×2m) with strainer				Intake pipe for 200L drum	
Material of wetted parts	Main Unit	FC				AL/Steel	
	Packing	NBR/FKM					
Power Cable (m)	2 *			3	5		
Weight (Kg)	25	24	43	25	9.5	8.3	9.9

*Power cord length on CUBE-56 Series may vary by model

EVP Series Specifications

□ Kerosene / Diesel

No.	8	9	10	11	12	13	14	15	16		
Image											
Model	EVP56-100	EVPD56-100	EVPD-56ATN	EVPD-56K24	EVPD-56K24ATN	EVPH56-100	EVPH-56ATN	EVPH-56K24	EVPH-56K24ATN		
Type	Pump Unit	200L Closed Drum				With hoses on both ends					
Liquid	Kerosene, Diesel										
Power Supply (V)	100 (200V specification is available)										
Current (A)	5.5										
Rated (minutes)	Continuous operation available										
Discharge Pressure (MPa)	0.15										
Max. Discharge Volume(L/min) at 1 cP	46		20	35	20	46	20	35	20		
Max. Discharge Head (m)	10										
Max. Suction Head (m)	2										
Accessories	Nozzle	—									
	Discharge Side	G1female	Oil-resistant rubber hose(Φ25×2m) with coupler								
	Flow Meter	—			Turbine(LCD digital display)			—			Turbine(LCD digital display)
	Suction Side	G1female	200LSuction pipe for drum, with coupler and strainer				Oil-resistant rubber hose(Φ25×2m) with coupler and strainer				
Material of wetted parts	Main Unit	FC	FC/Bs	FC	FC/Bs	FC	FC/Bs	FC	FC/Bs	FC	
	Packing	NBR	NBR/FKM								
Power Cable (m)	2										
Weight (Kg)	7.4	12	13.4	12.4	14.4	12	13.4	12.4	14.4		
Available mounting options *Not included with the standard product	—										
		Measuring Manual gun(GN-AL3025K24)				Measuring Auto-stop gun(ATNH-25K24)				MK33-25D Disk Flow meter(Mechanical digital display)	

*Additional fittings required when installing optional gun nozzles or flowmeters

Manual Pump

Hand Rotary Pump

HR Series

For kerosene,
diesel & A-heavy
oil transfer



- Easy operation—just turn the handle

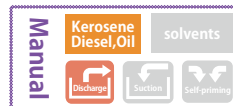
HF-1000

High discharge:
1 L per turn



- 60-mesh strainer
- *Material changes to transparent PVC when hose is extended

ERF-20B



For kerosene and
diesel transfer
from tanks



- Hose connection available on both ends
- Threaded on both ends (Rc 3/4)
- With base
- *Base-less type also available as an option

No electricity required—ideal for fuel supply during emergencies.
Helps business continuity when stocked as emergency equipment.



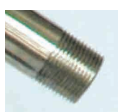
Hand Rotary Pump

HRD-25SUS Series

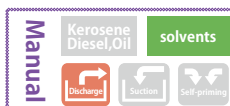


- Handles flammable solvents
- Choose specifications based on liquid type

Important Note for Purchase
SUS hose can be retrofitted
(with threading)

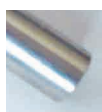


HRP-25 III Series



- Lightweight and easy to replace
- Securely mounts to drum with adapter
- 40-mesh strainer prevents contamination
- For liquids with specific gravity ≤ 1.1

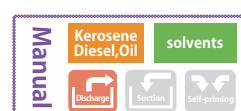
Important Note for Purchase
When retrofitting
SUS hose, a dedicated
discharge pipe is
required



Safely dispenses solvents. Sealed adapter prevents
evaporation and earth cable reduces static risk.

Hand Piston Pump

S-L / S-LX Series



Pump high-viscosity oil by moving
handle up and down



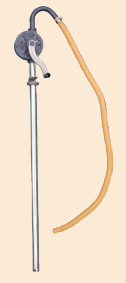







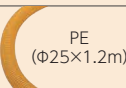
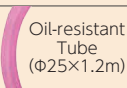
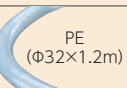
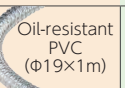
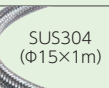
- Discharges when handle is pulled up via vertical piston action
- *Pull slowly for higher-viscosity liquids
- Siphon action works for low-viscosity liquids

Smooth extraction
of gear oil hardened
in low temperatures.
Cost-effective design
helps reduce expenses.














HR/HF/ERF/S-L/S-LX/HRD/HRP Series Specifications

 Kerosene, Diesel, Oil
 Solvent

No.	1	2	3	4	5	6	7	8	
Image									
Model	HR-2B	HR-25G	HF-1000	ERF-20B	S-L	S-LH-1	S-LX	S-LXHS	
Type	Hand-crank Type 200L Closed Drum			Hand-crank Type threaded on both ends	Piston Type 200L Closed Drum				
Liquid	Kerosene-Diesel A-type Heavy Oil-Oil	Gasoline Kerosene-Diesel A-type Heavy Oil-Oil	Kerosene-Diesel A-type Heavy Oil-Oil				Solvent*		
Viscosity (cP)	500				10,000				
Discharge Volume (cc/rev•1 stroke)	240		1,000	200	600				
Max. Lifting Head (m)	2								
Accessories	Adapter	○		—	○				
	Earth Cable	—	○	—					
	Strainer	—	40 mesh	60 mesh	—	6.5mm diameter with 5 holes			
	Hose Material (I.D. x Length)	 PE (Φ25×1.2m)	 Oil-resistant Tube (Φ25×1.2m)	 PE (Φ32×1.2m)	Screw Connection (Rc3/4)	None (Recommended Φ19)	 Oil-resistant PVC (Φ19×1m)	None (Recommended Φ19)	 SUS304 (Φ15×1m)
Material of wetted parts	Main Unit	FC Cast Iron AL (Adapter)		AL/Zinc	FC Cast Iron STKR	Steel UPE Resin (Adapter)		SUS304 SUS303 (Adapter)	
	Packing	NBR	NBR/PTFE	NBR		PA		PTFE	
Weight (Kg)	6.5	6.6	8	5.3	1.8	2.4	1.9	3.3	

*When using solvents, ensure compatibility with materials. Contact us for details.

No.	9	10	11	12	13	14	15	16
Image								
Model	HRD-25SUS	HRD-25SUSH	HRD-25SUSHM	HRP-25Ⅲ	HRP-25ⅢH	HRP-25ⅢHM	HRP-25Z	HRP-25ZM
Type	Hand-crank Type 200L Closed Drum							
Liquid	Solvent*							
Specific Gravity	1.5 or less			1.1 or less				
Viscosity (cP)	500							
Discharge Volume (cc/rev・1 stroke)	220			200				
Max. Lifting Head (m)	2							
Accessories	Adapter	○	○ Sealed Type	○	○ Sealed Type	○	○ Sealed Type	
	Earth Cable	—	○	—	○	—		
	Valve					—	○	
	Strainer	40 mesh						
Hose Material (I.D. x Length)	Screw Connection (Rc3/4)	 SUS304 (Φ19×1.2m)	None (Recommended I.D.Φ25)	 SUS304 (Φ19×1.2m)	 PP (Φ25×1.2m)			
Material of wetted parts	Main Unit	SCS13(Equivalent to SUS304)/PTFE		SUS/PTFE/PPS		PPS/PP/PTFE		
	Packing	PTFE/FFKM						
Weight (Kg)	7.4	8	8.7	3.2	3.8	4.5	2.4	2.8

*When using solvents, ensure compatibility with materials. Contact us for details.

Tank Cleaning Filtration Cleaner

Air-operated Tank Cleaning Filtration Cleaner

APDQO-F Series

For reuse and tank cleaning



- Enables reuse of cutting fluid
- Extends tool life
- Cleans in as short as 5 minutes
- Separates cutting fluid and chips
- Recovers and returns filtered cutting fluid

Stainless Filter Type

APDQO-FS
APDQO-FS100

Nonwoven Filter Type

APDQO-F F
APDQO-F F 100

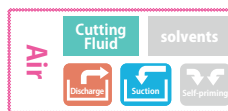
Bag Filter Type

APDQO-FB #1 • #2
APDQO-FB100 #1 • #2

Optional
Drum Carrier
DC-NBR100/200



See P.35



Compressor:
10 HP

Viscosity:
Max. 500 cP



1 Switching Valve
Switches liquid IN/OUT



2 Transparent Top Plate



3 Ejector Knob
Switches supply air
(Clockwise: Suction /
Counterclockwise: Discharge)

4 Air Coupler Plug (Male)



Auto-stop safety
valve activates
when full



Allows a single operator to complete machine tool cleaning quickly.
Reduces odors and maintains a clean work environment, enhancing both productivity and comfort.



Circulating Filtration Cleaner

J-F Series

Circulates and filters without stopping machining

Equipped with dewatering function

J-FS

Stainless Filter
for Chips

Standard: 40 mesh
Optional: Available
in 30, 60, 80, 100,
150, 200, and 400
mesh



J-FF

Nonwoven Filter
for Polishing

Suitable for aluminum,
stainless, BC (CAC),
resin, and sludge
polishing
Equivalent to 400
mesh



J-FB

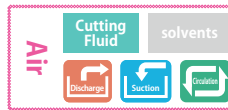
(J-FB #1)
(J-FB #2)

Bag Filter

Easy to clean and
resistant to clogging
100 / 200 mesh
available



J-FS

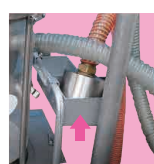


Compressor:
5 HP

Viscosity:
Max. 500 cP



1 Discharge port inlet



4 Visible recovered material



2 With carrier



3 Discharge port

- Cleans without stopping machine
- Extends tool life
- Reduces machine cleaning time
- Compact design allows use in tight spaces
- Diaphragm circulation type

*Always use with air filter and lubricator.

Collected chips can be easily disposed

Filter can be removed by lifting the top cover and reusable after cleaning



Cutting Fluid Reuse

Filters out sludge and chips

1 Dirty Cutting Fluid



Cutting fluid before cleaning

1 Collect and filter contaminated fluid













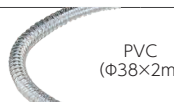
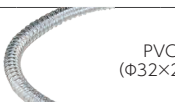
2 Cleaned Cutting Fluid











Cutting fluid with chips removed

2 Switch valve to reuse filtered fluid

APDQO-F / J-F Series Specifications

No.	1	2	3	4	5	6	7	8	
Image									
Model	APDQO-FS	APDQO-FF	APDQO-FB #1	APDQO-FB #2	APDQO-FS100	APDQO-FF100	APDQO-FB100#1	APDQO-FB100#2	
Compatible Containers	For 200L open drum cans				For 100L open drum cans				
Liquids	Water-soluble Cutting Fluid								
Viscosity (cP)	500								
Air Consumption during suction (L/min)	690				320				
Max. Suction Lift (m)	2.5								
Max. Discharge Volume (L/min) at 1cP	140				110				
Max. Suction Volume (L/min) Supply Air Hose:D:φ6.5 mm	130				100				
Max. Suction Volume (L/min) Supply Air Hose: D:φ12	160				120				
Accessories	Filter	 SUS 40 mesh	 Non-woven Fabric Filter approx. 400 mesh 2PCS	 Synthetic Fiber Bag Filter 100mesh 3PCS	 Synthetic Fiber Bag Filter 200mesh 3PCS	 SUS 40 mesh	 Non-woven Fabric Filter approx. 400 mesh 2PCS	 Synthetic Fiber Bag Filter 100mesh 3PCS	 Synthetic Fiber Bag Filter 200mesh 3PCS
	Nozzle	 Straight Valve				 Straight Pipe			
	Discharge Hose Material (I.D. x Length)	 PVC (φ38×2m)				 PVC (φ32×2m)			
	Suction Hose Material (I.D. x Length)								
	Air Connection Port	Air Coupler Plug (male)							
Material of wetted parts	Main Unit/Nozzle	AL/Acrylic/Steel/Bs							
	Packing	NBR/FKM							
Weight (kg)	42.5	43			30.5	30.7			

*Drum is not included

No.	9	10	11	12	
Image					
Model	J-FS	J-FF	J-FB #1	J-FB #2	
Compatible Containers	—				
Liquids	Water-soluble Cutting Fluid				
Viscosity (cP)	500				
Air Consumption during suction (L/min)	230				
Max. Suction Lift (m)	4				
Max. Discharge Volume (L/min) at 1cP					
Max. Suction Volume (L/min) Supply Air Hose:D:φ 6.5 mm	60				
Max. Suction Volume (L/min) Supply Air Hose: D:φ 12					
Accessories	Filter	 SUS 40 mesh	 Non-woven Fabric Filter approx. 400 mesh 2PCS	 Synthetic Fiber Bag Filter 100mesh 3PCS	 Synthetic Fiber Bag Filter 200mesh 3PCS
	Nozzle	 Straight Pipe			
	Discharge Hose Material (I.D. x Length)	 Reinforced PVC (Φ25×3m)			
	Suction Hose Material (I.D. x Length)	 PVC (Φ32×1.5m)			
	Air Connection Port	Air Coupler Plug (male)			
Material of wetted parts	Main Unit/Nozzle	AL/Acrylic			
	Packing	ABS resin/NBR			
Weight (kg)	36.3	37			

*Drum is not included.

Filter type can be changed even after purchase!

APDQO-F Series



J-F Series

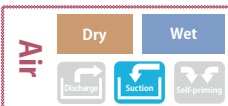


*For nonwoven filter type includes 2 filters and 3 bag filters included for bag filter type as a standard.

Vacuum Cleaner

Air-operated Vacuum Cleaner

APPQ0550 Series



For cleaning cutting machines and collecting oil from grease traps

Compressor: 5 HP

Viscosity: Max. 3,000 cP

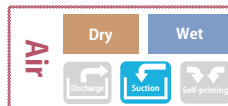


- Main unit is fully washable
- Capable of continuous operation
- Automatically stops when the tank is full (excluding APPQ0550S)

*Do not use with flammable liquids or dust explosion hazards

Air-operated Vacuum Cleaner (with Silencer)

APPQ0600 Series



Minimal noise with high performance

Compressor: 5 HP

Viscosity: Max. 3,000 cP



① Equipped with an omnidirectional exhaust silencer

With swivel joint

- Simply place on a standard 20L pail
- Capable of continuous operation
- 17% noise reduction compared to previous models
- Suction power improved by 12%
- Swivel joint for easier hose handling
- Nozzle pocket prevents drips

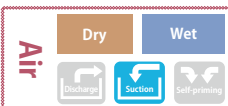
*Do not use with flammable liquids or dust explosion hazards

Air-driven operation enables safe machine-area cleaning and sludge collection by eliminating ignition risks and reducing maintenance through high durability.



Air-operated Vacuum Cleaner

AVC-550SUS Series



**Made of all stainless steel
Minimizes rust with water exposure**

Compressor: 5 HP

Viscosity: Max. 3,000 cP



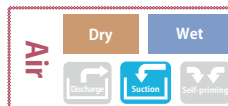
- Stainless steel pail (APPQO-SK) recommended

Ideal for cleaning grease traps and drains in food factories. Fully washable for hygienic reuse and designed to reduce operator fatigue.

*Do not use with flammable liquids or dust explosion hazards

Large-capacity Air-operated Vacuum Cleaner

APPQO-HP2



Fast, high-volume recovery – up to 200L

Compressor: 10 HP

Viscosity: Max. 3,000 cP



APPQO-HP2 *Drum and top plate are optional

- 150 L/min intake reduces work time (for water)
- Fits 50L, 100L, and 200L drum cans (top plate required)
- 3/8 or larger air hose is recommended
















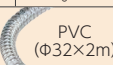
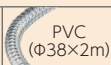
Quickly collects oil contaminated with sludge and chips into drums. Collected drums can be directly handed over to waste processors, streamlining the work process.

*Do not use with flammable liquids or dust explosion hazards



AVC-550SUS / APPQO550•600 / APPQO-HP2 Series Specifications

Oil Water

No.	1	2	3	4	5	6	
Image							
Model	AVC-550SUS	APPQO550S	APPQO550	APPQO600S	APPQO600	APPQO-HP2	
Collected Material	Water, Water-soluble Liquids, Debris, Metal Chips (Between 100 μm and 1cm)*1	Oil, Cutting Fluid, Debris, Metal chips (Between 100μm and 1cm)*1					
Viscosity (cP)		3,000					
Air Consumption (L/min)	673	525		475		1,050	
Recommended Supply Pressure (MPa)		0.4~0.6					
Max. Suction Volume (L/min)		80		90		150	
Max. Suction Head (m)		2					
Accessories	Oil Stopper (Overflow-safe Design)	 Ball Material (PVC)	—	 Ball Material (PE)	—	 Ball Material (PE)	 Ball Material (PVC)
	Nozzle	 Main Nozzle (Straight) Rectangular Nozzle	 Main Nozzle (Straight)	 Main Nozzle (Straight) Rectangular Nozzle	 Main Nozzle (Straight)	 Main Nozzle (Straight) Rectangular Nozzle	
	Hose Material (I.D. × Length)		 PVC (Φ32×2m)				 PVC (Φ38×2m)
	Filter Set	○ *2	—	○ *2	—	○ *2	
	Air Connection Port	Air Coupler Plug (Male)					
Material of Wetted Parts	Main Unit・Nozzle	SUS	AL/SUS				AL/SUS/SPHC
	Packing		NBR				NBR/CR rubber
Weight (Kg)	5	4.8	6.5	3.9	5.6	6	

*Do not use with flammable liquids or dust explosion hazards

*1 For dry use only: Collects dust ≥100 μm. Not suitable for explosive dusts like aluminum powder.

*2 The APPQO550S/600S does not include a filter set and cannot collect dust.

Key difference between models with 'S' at the end and those without 'S'.

Models with 'S' suffix: Minimally equipped!

Ideal for collecting liquids (18L or less) and light debris.

The following parts are not included!

Oil stopper (no automatic shut-off when full)



Filter set (dust cannot be collected)



Models without 'S' suffix:

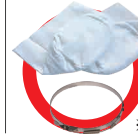
Automatic shut-off when full
Recommended for dust collection

Includes the following parts:

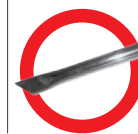
Oil stopper (automatic shut-off when full)
APPQO-OS



Filter set (blocks dust from the air exhaust port)
APPQO-FT






Rectangular Nozzle
KN550



*If adding the filter set to APPQO550S/600S later, an oil stopper is also required.

AVC-550SUS-SET / APPQO550-SET•600-SET Specifications

Oil Water

No.	7	8	9
Image			
Model	AVC-550SUS-SET	APPQO550-SET	APPQO600-SET
Collected Material	Water, Water-soluble Liquids, Debris, Metal Chips (Between 100 μm and 1cm)*1	Oil, Cutting Fluid, Debris, Metal chips (Between 100 μm and 1cm)*1	
Viscosity (cP)		3,000	
Air Consumption (L/min)	673	525	475
Recommended Supply Pressure (MPa)		0.4~0.6	
Max. Suction Volume (L/min)		80	90
Max. Suction Head (m)		2	
Accessories	Oil Stopper (Overflow-safe Design)	Ball Material (PVC)	Ball Material (PE)
	Nozzle	Main Nozzle•Rectangular Nozzle•T-shaped Nozzle	
	Hose Material (I.D. × Length)	PVC (Φ32×2m)	
	Filter Set	APPQO-FT	
	Open Pail	APPQO-SK (SUS Pail)	APPQO-OP (Steel Pail)
	Pail Band	—	BAND-P
	Carrier	S-CARRY	CARRY
	Air Connection Port	Air Coupler Plug (Male)	
Material of Wetted Parts	Main Unit•Nozzle	AL/SUS	
	Packing	NBR	
Weight (Kg)	12.5	12	11.1

*Do not use with flammable liquids or dust explosion hazards

*1 For dry use only: Collects dust ≥100 μm. Not suitable for explosive dusts like aluminum powder.

Accessories for various vacuum cleaner sets

④ Filter Set



① Main Nozzle• Rectangular Nozzle



⑤ Pail-specific Band

*AVC550SUS-SET does not include this accessories



② T-shaped Nozzle

*Set including nozzle and extension pipe



⑥ Open Pail

*AVC550SUS-SET includes Stainless Steel (SUS) Pail



③ Oil Stopper



⑦ Carrier

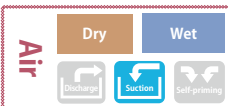
*The model of "Carrier" for SUS Pail is (S-CARRY).



Vacuum Cleaner

Air-operated Vacuum Cleaner

APPQO400 Series



Reliable air-operated vacuum cleaner
Safe from electric leakage

Compressor:
3 HPViscosity:
Max. 3,000 cP

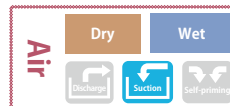
- Automatically stops when the tank is full (excluding APPQO400S)
- Compatible with air compressors of 3 HP (2.25 kW) or higher
- 3 options available based on the type of liquid collected

Safe for use in hazardous environments like gas stations and automotive factories.
The air-operated vacuum quickly collects waste oil, requires no electricity, and responds instantly to leaks.

*Do not use with flammable liquids or dust explosion hazards
*Only solvents that do not affect the material should be used.

Air-operated Cyclone Cleaner

APPQO-CY Series



Minimum particle size for dust collection: 5.5 μm.
(micrometers)

Compressor:
5 HP

APPQO-CY25

Exclusively
for Dust
Collection



- Equipped with earth cable as standard
- Equipped with anti-static hose

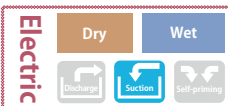
*As an industrial vacuum, it is not suitable for collecting powders that directly enter the human body (e.g., food powders, pharmaceuticals)

The cyclone design efficiently collects dust into pail cans, with a filterless system that prevents clogging for continuous operation.

This product must not be used with materials that pose a risk of dust explosion (such as metal powder, aluminum shavings, toner, etc.).

Electric Vacuum Cleaner

EVC-550 Series



Wide compatibility to suit various factory environments

Viscosity:
Max. 3,000 cP

*Please clean the internal filter regularly

EVC-550-SET

- Automatically stops when tank is full
- *Motor does not stop *Do not use with flammable substances
- Also available in 200V

Overcomes pail vacuum capacity limits by using 200L drums for efficient waste collection and reduced cleaning frequency.

*Do not use with flammable liquids or dust explosion hazards



Air Control Unit (Optional)



Handheld Switch Set

ON/OFF switch at your fingertips

Handheld Switch
SWA5

- Prevents unnecessary air consumption

*Compatible models (See P.35)

*Not compatible with Slim Nozzle Socket or Suisui Nozzle

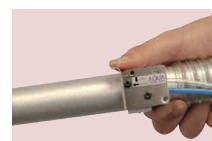
Foot Switch Set

ON/OFF control while standing

Foot Switch
SWAF
















- Hands-free operation
- Convenient foot control

*Compatible models (See P.35)



APPQO400 / APPQO-CY Series Specifications

■ Kerosene, Diesel, Oil ■ Solvents

No.		1	2	3	4	5	6	7
Image								
Model		APPQO400S	APPQO400	APPQO400G	APPQO400AS	APPQO-CY25	APPQOCY25-SET	APPQO-CY32
Collected Material		Oil, Cutting Fluid, Debris, Metal Chips (Between 100μm and 1cm)*1		Kerosene, Diesel	Solvent*	Dust(5.5μm~100μm)*2		
Viscosity (cP)		3,000				—		
Air Consumption (L/min)		315				580		
Recommended Supply Pressure (MPa)					0.4~0.6			
Max. Suction Volume (L/min)		60				Depends on Powder Type		
Max. Suction Head (m)					2			
Accessories	Oil Stopper (Overflow-safe Design)	—	○ Ball Material (PE)			—		
	Nozzle				 Main Nozzle (Straight)			
	Hose Material (I.D. × Length)	 PVC (Φ25×2m)	 Oil-resistant PVC (Φ25×2m)	 PP (Φ25×2m)		 Antistatic PVC (Φ25×2m)	 Antistatic PVC (Φ32×2m)	
	Filter Set	—	Available as a Paid Option (APPQO-FT)			2PCS for APPQO-CY25/32 are installed inside (Dust above 5μm)		
	Open Pail	—				 APPQO-OP (Steel pail)	—	
	Carrier	—				 CARRY	—	
	Air Connection Port	Air Coupler Plug (Male)						
Material of Wetted Parts	Main Unit・Nozzle	AL/SUS				AL/SUS/SPHC		
	Packing	NBR			FKM	NBR		
Weight (Kg)		4.5	4.9			8	11.5	8

*When using solvents, ensure compatibility with materials / *Do not use with materials that pose a dust explosion hazard or with flammable liquids.

*1 APPQO400S does not include a filter set, therefore, not suitable for dust collection.

*2 CY series is specifically designed for collecting dust (5.5 μm to 100 μm). Aluminum powder and explosive dusts not allowed.

EVC-550 Series Specifications

■ Oil

No.	8	9
Image		
Model	EVC-550	EVC-550SET
Collected Material	Oil, Cutting Fluid, Debris, Metal Chips (Between 100μm and 1cm)	
Viscosity (cP)	3,000	
Power Supply /Current	100V・11A	
Max. Suction Volume (L/min)	80	
Max. Suction Head (m)	2	
Accessories	Oil Stopper (Overflow-safe Design)	○ Ball Material (PVC)
	Nozzle	Main Nozzle, Rectangular Nozzle
	Hose Material (I.D. × Length)	PVC (Φ32×2m)
	Filter Set	Dust (Between 100μm and 1cm) *1
	Open Pail	—
	Pail Band	—
	Carrier	—
Material of Wetted Parts	Main Unit・Nozzle	SUS/SPHC/AL
	Packing	CR rubber/NBR
Weight (Kg)	9.3	15.5

*Do not use with flammable liquids or dust explosion hazards

*1For dry use only: Collects dust ≥100 μm. Not suitable for explosive dusts like aluminum powder.

Cleaner compatible with air control unit

[Handheld switch] Models with the suffix (AH) are included.
[Foot switch] Models with the suffix (AF) are included.

Insert installation image



APPQO550-AH



APPQO550-SET-AH

Compatible models are as follows:

APPQO550 series

P.29 Specifications [2] [3] [8]

AVC-550SUS series

P.29 Specifications [1] [7]

APPQO600 series

P.29 Specifications [4] [5] [9]

APPQO400 series

P.31 Specifications [1] [2] [3] [4]

For retrofitting, see compatible optional accessories (See P.35)

The design has been updated!



T-shaped Nozzle Set
APPQO-TN



Filter Set
APPQO-FT



For details
*Performance remains unchanged

Vacuum Cleaner

20L Pail with Drain Cock

APPQO-OPC



Ideal for dispensing liquids from pail cans



Twist the cock

APPQO600
*Installation image

Model	APPQO-OPC
External dimensions(mm)	Φ276×360 *Excluding the drain cock
Weight (kg)	2.1

Top Plate and Carrier (2pcs Set)

Pail can cleaner compatible with drum cans!

For 200L Drum Cans *Models end with "TC200"



Installation image

Drum Top Plate



DTB200



Drum Carrier



DC-NBR200

For 100L Drum Cans *Models end with "TC100"



Installation image

Drum Top Plate



DTB100



Drum Carrier



DC-NBR100

Compatible Models

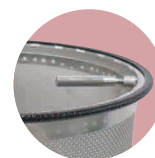
APPQO550-TC200	APPQO-CY32-TC200	EVC550-TC200
APPQO550-TC100	APPQO-CY32-TC100	EVC550-TC100
APPQO600-TC200	APPQOHP2-TC200	
APPQO600-TC100	APPQOHP2-TC100	

Mesh Filter

APPQO-MF



Separates and filters out foreign matter from liquids

Equipped with
convenient handleAPPQO550
*Installation image

Model	APPQO-MF
External dimensions(mm)	Φ283×268
Weight (kg)	1.4

Compatible Models

APPQO600	APPQO550	APPQO400
----------	----------	----------

Drum, Top Plate and Carrier (3pcs Set)

Drum can be used as collection tanks

For 200L Drum Can Set *Models end with "DTC200"

For 200L Open Drum
(with Bolt Band Lid)

DRUM-OP200

Drum Top Plate
DTB200Drum Carrier
DC-NBR200

For 100L Drum Can Set *Models end with "DTC100"

For 100L Open Drum
(with Bolt Band Lid)

DRUM-OP100

Drum Top Plate
DTB100Drum Carrier
DC-NBR100

For 50L Drum Can Set *Models end with "DTC50"

JFE 50L Open Drum
(with Bolt Band Lid)

DRUM-OP50

Drum Top Plate
DTB50Drum Carrier
DC-NBR50

Compatible Models

APPQO550-DTC200	APPQO-CY25-DTC200	APPQOHP2-DTC200
APPQO550-DTC100	APPQO-CY25-DTC100	APPQOHP2-DTC100
APPQO550-DTC50	APPQO-CY25-DTC50	APPQOHP2-DTC50
APPQO600-DTC200	APPQO-CY32-DTC200	EVC550-DTC200
APPQO600-DTC100	APPQO-CY32-DTC100	EVC550-DTC100
APPQO600-DTC50	APPQO-CY32-DTC50	EVC550-DTC50

TC (100・200) / DTC (50・100・200) Series Specifications




Oil

No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Image																
Model	APPQO550					APPQO600					APPQO-HP2 *1					
Set-suffix	TC200	TC100	DTC200	DTC100	DTC50	TC200	TC100	DTC200	DTC100	DTC50	TC200	TC100	DTC200	DTC100	DTC50	
Collected Material	Oil, Cutting Fluid, Debris, Metal chips (Between 100μm and 1cm) *Do not use with materials that pose a dust explosion hazard or with flammable liquids.															
Viscosity (cP)	3,000															
Air Consumption (L/min)	525					475					1,050					
Recommended Supply Pressure (MPa)	0.4~0.6															
Max. Suction Volume (L/min)	80					90					150					
Max. Suction Head (m)	2															
Accessories	Open Drum	—		200L	100L	50L	—		200L	100L	50L	—		200L	100L	50L
	Drum Top Plate DTB	200	100	200	100	50	200	100	200	100	50	200	100	200	100	50
	Drum Carrier DC-NBR	200	100	200	100	50	200	100	200	100	50	200	100	200	100	50
	Oil Stopper (Overflow-safe Design)	*Operates during wet use and liquid collection														
	Filter Set	*For dry use / *Chips (Between 100μm and 1cm) Not suitable for explosive dusts like aluminium powder														
	Nozzle	Main Nozzle (Straight) / Rectangular Nozzle														
	Hose Material (I.D. × Length)	PVC (Φ32×2m)										PVC (Φ38×2m)				
Material of Wetted Parts	Main Unit・Nozzle	AL/SUS										AL/SUS/SPHC				
	Packing	NBR										NBR/CR rubber				
Weight (Kg)	21.7	14.5	41.7	26.1	16.5	20.8	13.6	40.8	25.2	15.6	21.2	14	41.2	25.6	16	

*Top Plate (DTB50) and Carrier (DC-NBR50) only compatible with our DRUM-OP50.

*1 Hyphen(-) is removed from the cleaner model when sold as a set

Oil

No.	16	17	18	19	20	21	
Image							
Model	APPQO-CY25 *1			APPQO-CY32 *1			
Set-suffix	DTC200	DTC100	DTC50	DTC200	DTC100	DTC50	
Collected Material	Dust(5.5μm~100μm) *Do not use with materials that pose a dust explosion hazard or with flammable liquids.						
Air Consumption (L/min)	580						
Recommended Supply Pressure (MPa)	0.4~0.6						
Max. Suction Head (m)	2						
Accessories	Open Drum	200L	100L	50L	200L	100L	50L
	Drum Top Plate DTB	200	100	50	200	100	50
	Drum Carrier DC-NBR	200	100	50	200	100	50
	Oil Stopper (Overflow-safe Design)	—					
	Filter	2PCS for APPQO-CY25/32 are installed inside. (Dust above 5μm)					
	Nozzle	 Main Nozzle					
	Hose Material (I.D. × Length)	 Antistatic PVC (Φ25×2m)			 Antistatic PVC (Φ32×2m)		
Material of Wetted Parts	Main Unit・Nozzle	AL/SUS/SPHC					
	Packing	CR rubber/NBR					
Weight (Kg)	47.5	27.5	18	47.5	27.5	18	

*Top Plate (DTB50) and Carrier (DC-NBR50) only compatible with our DRUM-OP50.

*1 Hyphen(-) is removed from the cleaner model when sold as a set

No.	22	23	24	25	26	
Image						
Model	EVC-550 *1					
Set-suffix	TC200	TC100	DTC200	DTC100	DTC50	
Collected Material	Oil, Cutting Fluid, Debris, Metal chips (Between 100μm and 1cm) *Do not use with materials that pose a dust explosion hazard or with flammable liquids.					
Viscosity (cP)	3,000					
Power Supply / Current	100V・11A					
Max. Suction Volume (L/min)	80					
Max. Suction Head (m)	2					
Accessories	Open Drum	—		200L	100L	50L
	Drum Top Plate DTB	200	100	200	100	50
	Drum Carrier DC-NBR	200	100	200	100	50
	Oil Stopper (Overflow-safe Design)	*Operates during wet use and liquid collection				
	Filter Set	*For dry use / *Chips (Between 100μm and 1cm) Not suitable for explosive dusts like aluminium powder				
	Nozzle	 Main Nozzle (Straight) / Rectangular Nozzle				
	Hose Material (I.D. × Length)	 PVC (Φ32×2m)				
Material of Wetted Parts	Main Unit・Nozzle	SUS/SPHC				
	Packing	CR rubber/NBR/PVC				
Weight (Kg)	25.2	18	45.2	29.6	20	

Vacuum Pump

Air-operated Vacuum Pump

APPQO-H Series

Compressor:
5 HPViscosity:
Max. 5,000 cP

APPQO-H

APPQO-SK
Recommended SUS can (optional)

- High-vacuum type capable of suction from 5 m below
- Capable of collecting high-viscosity liquids
- Dedicated stainless can recommended due to high vacuum pressure
- Automatically stops when tank is full

*Do not use with flammable liquids

SUS cans below recommended spec (e.g., 0.4 mm thick) may be damaged

APPQO Series

Compressor:
1 HPViscosity:
Max. 1,000 cP

APPQO

APPQO-OP
Recommended open pail can (optional)

- For liquid collection into open pail cans
- Automatically stops when tank is full

*Do not use with flammable liquids

APPQ Series

Compressor:
1 HPViscosity:
Max. 1,000 cPAPPQ-CL
Recommended closed pail can (optional)

- For liquid collection into closed pail cans
- O.D. $\phi 19$ nozzle enables suction in narrow spaces
- Automatically stops when tank is full

*Do not use with flammable liquids























Vacuum Pump Series Specifications

☐ Kerosene, Diesel, Oil ☐ Solvents

No.	1	2	3	4	5	6	7	8	9
Image									
Model	APPQO-H	APPQO-HG	APPQO-HAS	APPQO	APPQOG	APPQOAS	APPQ	APPQG	APPQAS
Liquid	Oil	Kerosene, Diesel	Solvent *	Oil	Kerosene, Diesel	Solvent *	Oil	Kerosene, Diesel	Solvent *
Viscosity (cP)	5,000			1,000					
Compatible Pail (*Optional)	JIS standard 20L SUS Pail			JIS standard 20L Open Pail			JIS standard 20L Closed Pail		
Air Consumption (L/min)	525			105					
Max. Suction Volume (L/min)	80			75			60		
Max. Suction Head (m)	5			2			1.5		
Accessories	Overflow-safe Design			○					
	Nozzle								
	Hose Material (I.D.×Length)			Main Nozzle (Straight)					
	PVC (Φ25×2m)	Oil-resistant PVC (Φ25×2m)	PP (Φ25×2m)	PVC (Φ25×2m)	Oil-resistant PVC (Φ25×2m)	PP (Φ25×2m)	PVC (Φ19×2m)	Oil-resistant PVC (Φ19×2m)	PP (Φ19×2m)
Material of attached parts	Air Connection Port			Air Coupler Plug (Male)					
	Main Unit+Nozzle			AL					
	Packing Float			NBR SUS			FKM SUS		
Weight (Kg)	4.9			3.4	3.7	3.4	1.5		

*Use only solvent-compatible materials.

Compatible Optional Accessories List

Option Name (Model)	Page	P.26~27	P.28~29				P.30~31				P.34		
	Series Model	APDQO-F	APPQO 550	APPQO 600	AVC- 550SUS	APPQO- HP2	APPQO 400	APPQO- CY25	APPQO- CY32	EVC-550	APPQO-H	APPQO	APPQ
Steel Open Pail (APPQO-OP)			●	●	●	●	●	●	●	●		●	
Stainless Steel Open Pail (APPQO-SK)			●	●	●	●	●	●	●	●	●	●	
Steel Closed Pail (APPQ-CL)													●
Dedicated Carrier for Steel Pail (CARRY)			●	●	●	●	●	●	●	●		●	●
Dedicated Carrier for Stainless Steel Can (S-CARRY)			●	●	●	●	●	●	●	●	●	●	
Dedicated Band for Steel Pail (BAND-P)			●	●			●						
Dedicated Band for Steel Pail (BAND-V)					●	●		●	●	●			
Oil Stopper (APPQO-OS)			●	●			●						
Filter Set (APPQO-FT) <small>*Includes mounting band</small>			●	●	●	●	●			●			
Filter 2PCS (APPQO-FT2) <small>*Additional mounting band required</small>			●	●	●	●	●			●			
Open Drum 200L・100L・50L (DRUM-OP200/100/50)		● (N/A 50L)	●	●	●	●	●	●	●	●	●		
Drum Carrier 200L・100L・50L (DC-NBR200/100/*50)		● (N/A 50L)	●	●	●	●	●	●	●	●	●		
Drum Top Plate 200L・100L・50L (DTB200/100/*50)			●	●	●	●	●	●	●	●	●		
Rectangular Nozzle			● (KN550)	● (KN550)	● (KN550SUS)	● (KNHP2)			● (KN550)	● (KN550)			
T-shaped Nozzle (APPQO-TN) <small>*Nozzle body + extension pipe</small>			●	●	●				●	●			
Sui Sui Nozzle (APPQO-SN120) (APPQO-SN80)			●	●	●				●	●			
Round Brush Nozzle (APPQO-MB-SET)			●	●	●				●	●			
Slim Nozzle Socket (APPQO550-SH) (APPQO400-SH)			● (550)	● (550)	● (550)		● (400)	● (400)	● (550)	● (550)	● (400)	● (400)	
Slim Nozzle O.D. φ15 (KN-15-1000) (KN-15-500) (KN-15-200)			●	●	●		●	●	●	●	●	●	
Silencer (S30N) (S50N)			● (S50N)				● (S30N)						
Handheld Switch (SWA5/4) <small>*Incompatible with Slim Nozzle Socket and Sui Sui Nozzle</small>			● (SWA5)	● (SWA5)	● (SWA5)		● (SWA4)	● (SWA4)	● (SWA5)		● (SWA4)	● (SWA4)	
Foot Switch (SWAF)			●	●	●	●	●	●	●				

*Stainless open pail can (APPQO-SK) is compatible with the dedicated pail band (BAND-P). *Top Plate (DTB50) and Carrier (DC-NBR50) only compatible with our DRUM-OP50.

*CARRY cannot be used with APPQO-SK. Use S-CARRY for compatibility with APPQO-SK.

Pail & 18L Can Pumps

Manual Pail Pump P-S Series



**Easy dispensing
from pail or 18L cans**



Viscosity:
Max. 10,000 cP



P-SX

- Capable of dispensing high-viscosity liquids
- Standard $\Phi 40$ adapter for 41mm pail/18L can openings. *Optional $\Phi 50$ adapter available
- Discharges when handle is pulled upward

Safely dispenses high-viscosity liquids without lifting containers, reducing operator strain and offering a cost-effective solution.

Air Pressure Pump APP-C1 Series

Made to order



**Simply insert pail or 18L can
Discharges high-viscosity liquids**

Compressor:
1HP

Viscosity:
Max. 10,000 cP



APP-C1-AL (For Oil)



APP-C1-SUS (For Solvents)



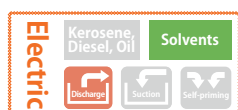
*Cannot be used with cans exceeding product dimensions (I.D.: 328 mm, Depth: 420 mm)

- Compatible with high-viscosity oil and solvents up to 10,000 cP
- Large discharge pipe
- Minimal residue, no pulsation
- 30m lift capacity enables high-pressure transfer to elevated or distant locations
- Direct pressure application to 20-23L pails and 18L cans

Fits various pail sizes for efficient grease dispensing with minimal residue and waste.



Electric Pail Pump MH Series



Viscosity:
Max. 100 cP



MH21N-V

- Quick dispensing of low-viscosity liquids
- Transfers to elevated locations
- Compatible with poly cans and 18L cans
- Equipped with ball valve
- Available in stainless steel and resin types

Air-operated Pail Pump MH Series



Compressor:
3HP

Viscosity:
Max. 100 cP



MH316MA-V

- Ideal for dispensing flammable low-viscosity liquids
- Elevated transfer capable
- Compatible with poly cans and 18L cans
- Equipped with ball valve
- Available in stainless steel and resin types

*Air filter and lubricator must be used

Air-operated Diaphragm Pump DF4P Series

Made to order



Compressor:
3HP

Viscosity:
Max. 4,000 cP



DF4P-15G

- Ideal for dispensing viscous oils
- Efficient transfer of medium-viscosity liquids
- Handles flammable liquids and minor solid contamination
- Ideal for horizontal or high-lift transfer
- Lifting capacity: 20-30 m
- *Hose extension possible. Discharge volume varies with head and distance.

*Air filter and lubricator must be used

P-S Series Specifications

■ Kerosene, Diesel, Oil ■ Solvent

No.	1	2	3
Image			
Model	P-S	P-SX	P-SXT
Liquid	Oil Kerosene, Diesel	Solvent*	
Viscosity (cP)		10,000	
Discharge Volume (cc/ stroke)		200	
Max. Discharge Head (m)		2	
Hose Material (I.D. × Length)	PVC (Φ12×35cm)	PTFE (Φ12×35cm)	
Material of wetted parts	Main Unit/ Nozzle	Steel (Chrome plating)	SUS304
	Packing	PA	PTFE
	Adapter	POM (Φ40)	*No liquid contact *Φ50 optional
Weight(Kg)		1	










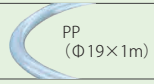

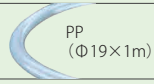
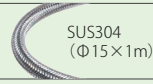
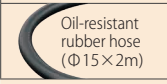

APP-C1 Series Specifications

■ Oil ■ Solvent

No.	4	5
Image		
Model	APP-C1-AL	APP-C1-SUS
Liquid	Oil	Solvent*
Viscosity (cP)	10,000	
Discharge Volume (L/min) at 1cP	190	
Max. Discharge Head (m)	30(When using at 0.3 MPa)	
Air Connection Port	Air Coupler Plug (male)	
Material of wetted parts	Main Unit	SS400
	Wetted Parts	AL/SUS304
Packing *When pouring liquid directly	NBR	FKM
Weight(Kg)	28	

MH/DF4P Series Specifications

■ Kerosene, Diesel, Oil ■ Solvent

No.	6	7	8	9	10	11	12	
Image								
Model	MH21N-V	MH316M-V	MH21NA-V	MH316MA-V	DF4P-15G	DF4P-15AS	DF4P-15SUS	
Liquid	Solvent*				Oil, Gasoline, Kerosene, Diesel	Solvent*		
Viscosity (cP)	100				4,000	2,500		
Power Source	Electric 100V				Air			
Power (W) / Fuse (A)	156/2	123/2.5			—			
Air Consumption (L/min)	—		540			250		
Recommended Pressure (MPa)	—		0.3~0.7		0.3~0.5	0.1~0.3		
Discharge Volume (L/min) at 1cP	25	30	15	20	40	28		
Max. Discharge Head (m)	4.2	5	3	4.2	40	30		
Max. Suction Head (m)	—					2		
Accessories	Nozzle	—				 Ball Valve Nozzle	 Ball Valve Nozzle	
	Hose Material (I.D. x Length)	 PP (Φ 19×1m)	 SUS304 (Φ 15×1m)	 PP (Φ 19×1m)	 SUS304 (Φ 15×1m)	 Oil-resistant rubber hose (Φ 15×2m)	 SUS304 (Φ 15×2m)	
	Air Connection Port	—				Air Coupler Plug (male)		
	Earth Cable	—				○		
Inhalation Pipe O.D. (Φ)	32	27.5	32	27.5	38		25	
Material of wetted parts	Main Unit	PP/PVC	SUS316 PTFE	PP/PVC	SUS316 PTFE	AL/SUS/Bs		SUS
	Packing	PTFE/FKM	PTFE	PTFE/FKM	PTFE	NBR/FKM TPC-ET *1		PTFE/FFKM
Weight(Kg)	2.3	3.8	2.9	3.2	5.6	5.2	6	

*Solvents must be compatible with the material. *1: TPC-ET refers to a thermoplastic elastomer (polyester-polyether type).

Wing Pump

Yatsunami Wing Pump

YATSUNAMI Series

Manual

 Kerosene
Diesel, Oil
Water
Discharge Suction Self-priming

 Viscosity:
Max. 5,000 cP


Suction Head 6 m (2.5 m when dry), Discharge Head 15 m.
For refueling and emergency water supply.



2 flange types available

Round flange
JIS 5K and 10K typesThreaded type with
companion flange

- Proven reliability with years of trusted use on vessels
- 2 types: threaded with companion flange and JIS standard round flange
- Available with key parts in bronze (for oil) or all bronze construction (for water)

King Wing Pump

KING Series

Manual

 Kerosene
Diesel, Oil
Water
Discharge Suction Self-priming

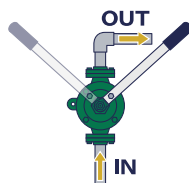

For emergency fuel transfer



- Suction Head 6 m (2.5 m when dry), Discharge Head 15 m
- More compact than the Yatsunami Wing Pump
- Only key parts made of gunmetal (for oil use)

Regarding piping direction

Wing pumps cannot be used with the piping orientation changed. Install with the suction side facing downward and the discharge side upward. The internal valve is designed to close by gravity—if installed sideways or upside down, the valve will not close properly, preventing liquid discharge.



Differences between Yatsunami and King

Compared to the Yatsunami, the King has a smaller face-to-face dimension and lower discharge volume. Round flange and all-bronze types are not available for the King.

Wing Pump

HWA Series

Manual

 Kerosene
Diesel, Oil
Water
Discharge Suction Self-priming

Manual water supply pump made of aluminum—lightweight design



- Suction Head 6 m (2.5 m when dry), Discharge Head 15 m
- Threaded flange

Wing Pump

Mounting Base Series
Made to order

Manual

 Kerosene
Diesel, Oil
Water
Discharge Suction Self-priming

Emergency Pump: Ideal for municipal use and easy warehouse storage



Set Includes

- 1 mounting base (available in stainless steel or steel)
- Wing Pump: 1 unit (single-pump model) or 2 units (dual-pump model)
- Includes one male coupler each for suction and discharge

With 2 units



*Hose and female coupler shown for illustration purposes only

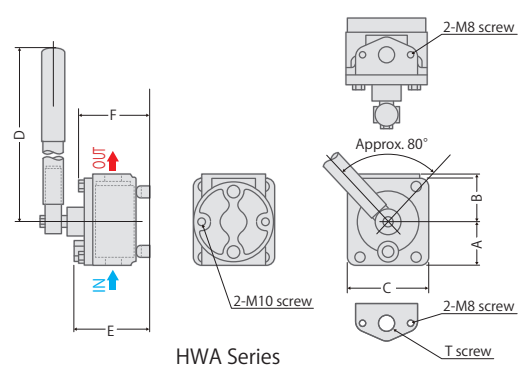
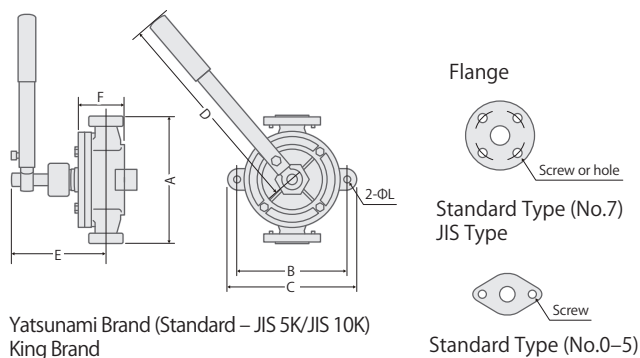
- Mounting base available in stainless steel or steel
- Ideal for supplying water or oil in emergency and disaster situations
- Equipped with lockable wheels for easy transport
- Simple operation—just move the handle side to side

Wing Pump Series Specifications

■ Kerosene, Diesel, Oil
 ■ Water

Image		<div></div> <div>For Oil</div> <div></div> <div>For Water</div>						<div></div> <div>For Oil</div> <div></div> <div>For Water</div>											
Series		YATSUNAMI						KING						HWA					
Oil Model (Below 5,000cP)		No.0-15	No.1-20	No.2-25	No.3-32	No.5-40	No.7-50	No.0-15	No.1-20	No.2-25	No.3-32	No.5-40	No.7-50	—					
Material of Wetted Parts		Main Unit:FC Key Components:CAC Handle:AL Packing:NBR (non-asbestos)																	
Weight(Kg)		5		7.1	9.5	15	22.5	4.4		6	7.8	11	19						
Water Model		BC-No.0	BC-No.1	BC-No.2	BC-No.3	BC-No.5	BC-No.7	—						HWA-0	HWA-2				
Material of Wetted Parts		Main Unit Key Components:CAC/SUS Handle:AL Packing:PTFE/NBR(non-asbestos)												Main Unit:AL/SUS/CAC Packing:NBR					
Weight(Kg)		5.5		7.4	9.5	15	22.5							2.3					
Discharge Volume (cc/stroke)		240		400	650	1,100	2,000	175		240	400	650	1,100	240	400				
Connection Flange (Companion Flange Except HWA)		Rc1/2 (15A)	Rc3/4 (20A)	Rc1 (25A)	Rc1"1/4 (32A)	Rc1"1/2 (40A)	Rc2 (50A)	Rc1/2 (15A)	Rc3/4 (20A)	Rc1 (25A)	Rc1"1/4 (32A)	Rc1"1/2 (40A)	Rc2 (50A)	Rc1/2 (15A)	Rc3/4 (20A)				
Drawing Main Unit Dimensions *Reference below	A	180		208	245	295	329	180		203	232	265	312	55	70				
	B	132		146	168	198	235	126		137	155	168	197	60	70				
	C	165		177	204	235	282	153		170	190	211	234	102	120				
	D	330		365	400	460	600	330		360	400	460	600	365	400				
	E	135		145	179	195	225	131		141	165	183	215	94	104				
	F	67		75	95	103	115	64		71	75	95	103	88	98				

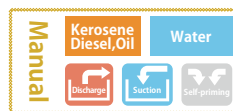
Image		<div>For Oil</div> <div>For Water</div>											
Series		YATSUNAMI											
Oil Model (Below 5,000cP)		5K-15	5K-20	5K-25	5K-32	5K-40	5K-50	10K-15	10K-20	10K-25	10K-32	10K-40	10K-50
Material of Wetted Parts		Main Unit:FC Key Components:CAC Handle:AL Packing:NBR (non-asbestos)											
Weight(Kg)		6.2		7.2	10.5	13.6	22.5	6.6		9	11	14.6	25
Water Model		BC5K-15	BC5K-20	BC5K-25	BC5K-32	BC5K-40	BC5K-50	BC10K-15	BC10K-20	BC10K-25	BC10K-32	BC10K-40	BC10K-50
Material of Wetted Parts		Main Unit Key Components:CAC/SUS Handle:AL Packing:PTFE/NBR(non-asbestos)											
Weight(Kg)		6.2		7.2	10.5	15	22.5	6.8		9.3	13	17.5	25
Discharge Volume (cc/stroke)		240		400	650	1,100	2,000	240		400	650	1,100	2,000
Connection Flange Diameter (Round Flange)		JIS5K-15A	JIS5K-20A	JIS5K-25A	JIS5K-32A	JIS5K-40A	JIS5K-50A	JIS10K-15A	JIS10K-20A	JIS10K-25A	JIS10K-32A	JIS10K-40A	JIS10K-50A
Drawing Main Unit Dimensions *Reference below	A	194		210	248	293	329	200		220	250	298	330
	B	132		146	168	198	235	132		146	168	198	235
	C	165		177	204	235	282	165		177	204	235	282
	D	330		365	400	460	600	330		365	400	460	600
	E	135		145	165	195	225	135		145	165	195	225
	F	70		75	93	100	115	70		75	93	100	115



Single Diaphragm Pump

Manual Diaphragm Pump

HDO (1) Series



For water or fuel transfer in emergencies or locations without power source. Outstanding suction performance, even manually operated.

Hose Nipple Type



HDO1-20P

For toilet water, emergency tanks, or well water transfer



Main Applications



For field irrigation, camping, and outdoor water use

Hose Nipple Type



HDO-20ALA

Threaded Type



HDO-20/25/32/40ALB

Coupler Connection Type

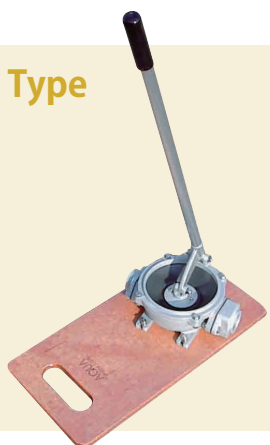


HDO-20AL0Z

- Handles water with some sand or bilge water
 - Compatible with high-viscosity liquids and waste oil
 - Suction from 8 m below and discharge up to 8 m
- *Excluding HDO-32 (40) ALB

Standing Action Type

ST-HDOS-32 (40) ALB



Emergency Water Supply Kit

KT-HDOS-32 (40) ALB



How to use: HDO series

Just move the lever up and down—easily transfers liquid!



How to replace the packing

Simply remove the cover and center retainer (top) for easy replacement. Flange packing can also be replaced by removing the bolts on each flange. *Be sure to confirm the unit size.



20AL Packing Set
(For Aluminum Hand Diaphragm)

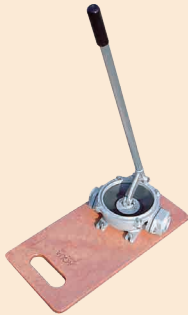


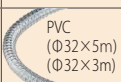
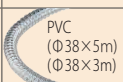


32 (40) AL Packing Set
(For Aluminum Hand Diaphragm)

 Kerosene, Diesel, Oil, Water

Air-operated Dump Pump (Air-operated Hand Pump)	Electric Pump (Electric Hand Pump)	Electric Pump For Kerosene And Diesel	Isk Cleaning Filtration Cleaner	Vacuum Cleaner Vacuum Pump	Pail & 181 Can Pumps	Wing Pump Diaphragm Pump	AddBlue Pump for Drum	Air-operated Industrial Fan/Blower	Cock / Rack	Gun Nozzle/Flow Meter	Eco Sweeper/Station Trolley	Liquid Level Indicator	Heating Jacket Others
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■ Kerosene, Diesel, Oil, Water

No.	8	9	10	11	12	
Image						
Model	ST-HDOS-32ALB	ST-HDOS-40ALB	KT-HDOS-32ALB	KT-HDOS-40ALB	HDO-50AL	
Liquids (Below 5000cP)	Water, Kerosene, Diesel, Oil				Water, Kerosene, Diesel, Oil	
Discharge Volume (cc/stroke)	1,300				2,000	
Suction Head (m)	5				4	
Discharge Head (m)	7					
Accessories	Footplate	○				
	Threaded Flange	Rc1"1/4	Rc1"1/2	Rc1"1/4	Rc1"1/2	Suction Side: R2 Discharge Side: Rc2
	Lever Coupler	—		32A	40A	—
	Hose Material (I.D.× Length)	None Recommended (Φ 32)	None Recommended (Φ 38)	 PVC (Φ 32×5m) (Φ 32×3m)	 PVC (Φ 38×5m) (Φ 38×3m)	None Recommended (Φ 50)
Material	Main Unit•Handle	AL				
	Packing	NBR (Reinforced with Fabric)				
Weight(Kg)	5.3		12.5	14	9.2	

The diagram illustrates the two strokes of a hand pump. On the left, the **Suction** stroke is shown where the handle is pulled up, creating a vacuum that draws water into the cylinder through the **Inlet Valve**. On the right, the **Discharge** stroke is shown where the handle is pushed down, forcing the water out through the **Discharge Valve**. Both diagrams label the **Diaphragm (Membrane)** and the **Discharge Valve**.

A pump consisting of a diaphragm (membrane) and two valves. Diaphragm moves (up-down/side-side) to change volume for suction and discharge.

The diagram compares two types of pumps. On the left, a **Submersible Pump** is shown partially submerged in a blue liquid. It has a red body and a black discharge hose. A red arrow labeled "Discharge" points to the right, and a red arrow labeled "Suction" points upwards into the pump. On the right, a **Diaphragm Pump** is shown above a blue liquid. It has a grey body and a black discharge hose. A red arrow labeled "Discharge" points to the right, and a red arrow labeled "Suction" points upwards into the pump. A hand is shown operating the pump handle, which is connected to the pump body by a long rod.

- No need to submerge the pump body
- Works even in narrow spaces if the hose fits
- No power cord required

Single Diaphragm Pump

Electric Hybrid Diaphragm Pump

EDO Series

Made
to
order

Manual
Electric

Kerosene
Diesel, Oil

Water

Discharge

Suction

Self-priming



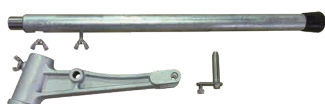
For use by apartments and municipalities as emergency equipment to supply water during disasters.

Ideal for long-distance
transfer from water trucks



EDO-50

*Coupler is optional.

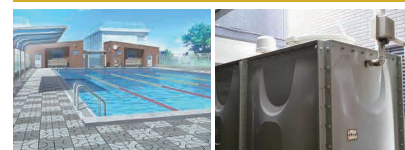


Includes Manual Handle Set



Convenient hybrid type—can
operate manually when necessary.

Main Applications



Ideal for pumping from pools and water tanks

- Max. discharge: 100 L/min, 3m cord
- High performance: suction 4m/5m, discharge 7m/12m
- Can be used manually without power by attaching a handle

**Automating groundwater pumping significantly
reduces labor and cuts operation time from half a
day to about one hour, greatly improving efficiency.**

Air-operated Diaphragm Pump

ADO Series

Made
to
order

Air

Kerosene
Diesel, Oil

Water

Discharge

Suction

Self-priming

Compressor:
3HP

Viscosity:
Max. 5,000 cP



Ideal for tunnel and underground construction

Handles emergency drainage in
factories and tolerates minor debris



- Usable in locations without electricity
- Suitable for narrow spaces where submersible pumps can't be used
- Capable of transferring liquids with minor debris



ADO-40



ADO-50

① Stepless Air Speed Controller
(Optional Accessory)



② Just twist the air coupler



Capable of drawing liquid from small inlets where submersible pumps can't fit.

Background

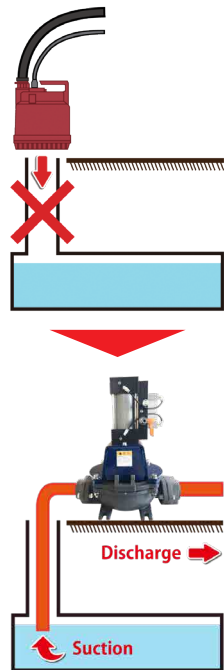
- Struggled with draining water in areas too small for submersible pumps.
- While a fixed deep-well pump was available, it required equipment like a power panel, making it difficult to relocate.

Solution

- The diaphragm pump doesn't need to be submerged—just drop the hose into the water to start suction.
- Easy to relocate.

Effect

- Drains water where submersible pumps can't—just insert the hose into a narrow opening while keeping the pump on the ground.
- Portable design allows flexible operation at different sites.



Main Applications



Tunnel cutting work



Irrigation channels and narrow bore operations







Manhole sludge removal



Sludge transfer work

EDO / ADO Series Specifications

□ Kerosene, Diesel, Oil, Water

No.	1	2	3	4	5
Image					
Model	EDO-40	EDO-50	EDO-50H	ADO-40	ADO-50
Liquids (Below 5000cP)	Water, Oil, Kerosene, Diesel				
Drive Method	Electric 100V/Manual			Air:3HP Air connection port: Air Coupler Plug (Male) (0.4~0.6Mpa)	
Air Consumption(L/min)	—			133	200
Frequency (Hz) Rated Current (A) Rated Rotation Speed (rpm) Power Consumption (W)	80/60 5.1/4.5 1,420/1,700 345/325	50/60 8.7/7.9 1,440/1,730 632/604		—	
Output Shaft Torque (Nm)	50Hz:47 60Hz:39.2	50Hz:94 60Hz:78	50Hz:187 60Hz:156		
Max. Discharge Volume	50Hz:25L/min 60Hz:30L/min	50Hz:80L/min 60Hz:100L/min	50Hz:40L/min 60Hz:50L/min	40L/min	100L/min
Max. Suction Head (m)	4	5		4	
Max. Discharge Head (m)	7		12	7	
Accessories	Carrier	○		—	
	Threaded Flange	Rc1"1/2	Suction Side:R2 Discharge Side: Rc2		Suction Side:R2 Discharge Side: Rc2
	Hose Material (I.D. × Length)	None Recommended(Φ 38)	None Recommended(Φ 50)		None Recommended(Φ 38)
Material	Pump・Handle	AL/SUS			
	Packing	NBR(Reinforced with fabric)			
Weight(Kg)	36.5	60		8.8	13.9

*Coupler is optional.

AdBlue Pump for Drum

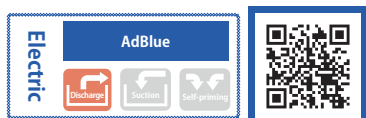
AdBlue®
アドブルー

AQUA SYSTEM is a certified AdBlue equipment manufacturer recognized by the German Association of the Automotive Industry.

Pump for Resin Drum Ad STAR

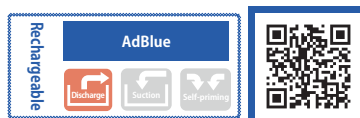
Ad-1 Series

Ad-1 Electric Type



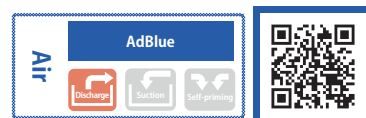
- Standard circuit breaker (automatically shuts off for overheating or overcurrent)

Ad-1L Rechargeable Type



- Dispenses approx. 6 drums per charge
- Lithium battery charging time: 2 hours
- Max. discharge rate: 30 L/min (HIGH mode)
- Continuous operation: HIGH - 20 min / LOW - 40 min

Ad-1 Air Air-operated Type



Compressor:
3 HP

- Air motor type has been used in fire-prohibited areas

*When mounted on resin drums, a separate drum adapter is required: Kodama Resin Drum G2-A (for Ø58 mm) / Sanko Resin Drum G2-B (for Ø58.5 mm)

Electric Diaphragm Pump D-SET100



- Securely fixed to the top of the drum for safety
- Includes suction pipe and mounting plate for drum

Hand Rotary Pump HRB-20P



Options



Adapter G2-A for
Kodama resin drums



Adapter G2-B for
Sanko resin drums

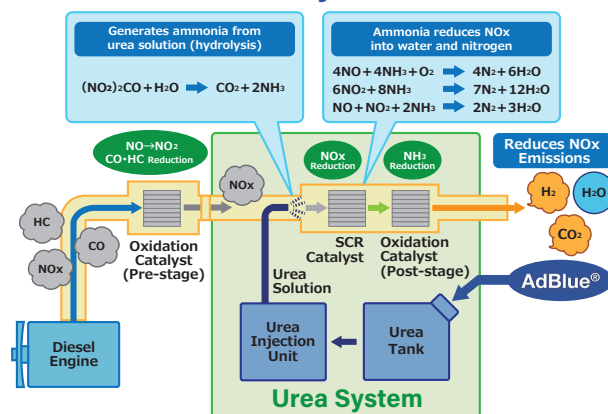
- Easy to use with hand-crank operation
- Optional hose connection available
- Durable stainless steel discharge pipe

We are a licensed AdBlue® equipment provider.

AdBlue is widely used in trucks, buses, construction, and agricultural machinery.

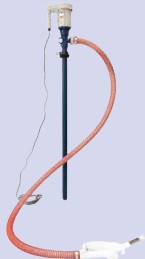

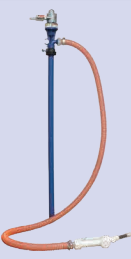















As a pioneer in AdBlue pump manufacturing, we develop, import, and sell AdBlue products tailored to the Japanese market.

Urea System



Ad-1 Series / D-SET100 / HRB-20P Specifications

AdBlue

No.		1	2	3	4	5
Image						
Model		Ad-1	Ad-1L	Ad-1 Air	D-SET100	HRB-20P
Liquid		AdBlue				
Power Source		Electric 100V	Lithium Charging	Air	Electric 100V	Manual
Supply Air Pressure (Mpa)		—		0.3 *1	—	
Air Consumption (L /min)		—		235	—	
Max. Discharge Rate (L/min) at 1cP		30	30(At HIGH)	25	22	240cc/1 stroke
Max. Discharge Head (m)		5	HIGH:4 LOW:2	3	6	2
Accessories	Power Supply Cable (m)	2.9	Motor side1.4 Outlet side1.1	—	2	—
	Nozzle	 Manual Gun GN-PPS25-Ad			 Manual Gun GN-PPS20-Ad	
	Hose Material (I.D. x Length)	 Reinforced PVC (Φ25×2m)			 Oil-resistant Rubber Hose (Φ19×4m)	
Material	Main Unit・Nozzle	PP/SUS/PTFE/ETFE				PPS
	Packing	FKM				FKM
Weight (kg)		2.8	3	2.6	16	2
Options *Not included in the standard model.	Manual Metering Gun Nozzle	 GN-PPS25-AdK24				—
	Auto-stop Gun Nozzle	 ATNP-PP25-Ad Set to HIGH when using with Ad-1L	—		 ATNP-SUS20-Ad  ATNH-20Ad	
	Auto-stop Gun Nozzle with Meter	 ATNP-PP25K24 Set to HIGH when using with Ad-1L	—		 ATNP-SUS20K24	
		—	—		 ATPS-20Ad	
	Carrier for Resin Drums	 For details on TORRY-D, see P.48  For details on S-Trolley, see P.61				

*Appearance may change without prior notice *Use a regulator to reduce pressure

AdBlue Pump for IBC Container

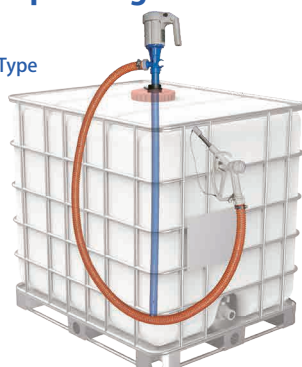
IBC Container Pump Ad STAR

Ad-2 Series



For dispensing AdBlue from IBC containers

Ad-2 Electric Type



- Easy dispensing with manual gun nozzle
- Standard circuit breaker (automatic shutoff for heat and overcurrent)

Option

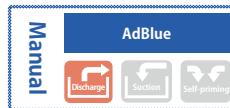
3-port Cap
KK-3A



*For IBC container Ø150 only

Gravity Flow Hose Set

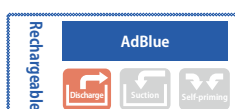
JEH Series



Dispenses by gravity from bottom of IBC container

- Easy dispensing with manual gun nozzle
- A 2-port cap with refill coupler and air vent is mounted on the top of the container
- Compatible with two types of bottom container connections: 50A coupler type and threaded cap type

Ad-2L Rechargeable Type



Charger

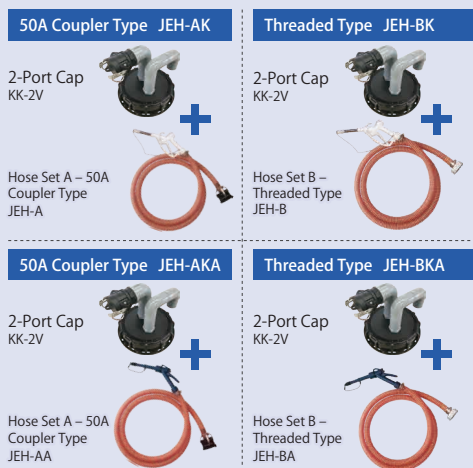
- Dispenses approx. 6 drums per charge
- Lithium charging time: 2 hours
- Max. discharge rate: 30 L/min (HIGH mode)
- Continuous operation: HIGH-20 min/ LOW-40 min

Ad-2 Air Air-operated Type



Compressor:
3 HP

- Air motor type has been used in fire-prohibited areas



Electric IBC Container Pump

IBC Series



Hooks onto container frame with built-in nozzle holder

Includes Metering Auto-stop Gun
IBC-MASTER



Accessories Included



Metered Auto-stop
Gun Nozzle
ATPS-20A d
*Not a preset type

- Includes metering auto-stop gun with flow check at hand
- Equipped with 3D filter

Includes Auto-stop Gun and Flow Meter
IBC-MASTER-K24



Accessories Included



Auto Stop Gun Nozzle
ATNH-20Ad
Flow Meter
TB-K24-Ad

- Allows you to check usage volume
- Equipped with resin auto-stop gun and digital flow meter (LCD display) next to the pump
- Equipped with 3D filter

Includes Manual Gun Nozzle
IBC-BASIC100



Accessories Included
















- Easy one-handed dispensing with manual gun nozzle
- Includes resin manual gun nozzle

*Available as a special specification: can be connected to IBC tank discharge valves (piston valve or camlock-type piston valve)
Please contact the manufacturer for more information regarding IBC series.

Ad-2 / IBC Series Specifications

AdBlue

No.		1	2	3	4	5	6
Image							
Model		Ad-2 Air	Ad-2L	Ad-2	IBC-MASTER	IBC-MASTER-K24	IBC-BASIC100
Liquid		AdBlue					
Power Source		Air-operated Pressure(0.3Mpa) Consumption (235L/min)	Lithium Charging	100V			
Max. Discharge Rate (L/min) at 1cP		25	30(at HIGH)	30	20		22
Max. Discharge Head (m)		3	HIGH:4 LOW:2	5	6		
Accessories	Power Supply Cable (m)	—	Motor side 1.4 Plug side1.1	2.9	2		
	Flow Meter	—			○	—	
	Nozzle	 Manual Gun GN-PPS25-Ad			 Metered Auto-stop Gun Nozzle ATPS-20Ad	 Auto Stop Gun Nozzle ATNH-20Ad	 Manual Gun GN-PPS20-Ad
	Discharge Hose Material (I.D. x Length)	 Reinforced PVC (Φ25×3m)			 EPDM (Φ19×6m)		
	Suction Hose Material (I.D. x Length)	—			 PVC (Φ19×1.5m)		
	Material	Main Unit・Nozzle	PP/SUS PTFE/ETFE			PP/SUS/PE	
Packing		FKM			FKM/EPDM		
Weight (kg)		2.9	3.3	3.1	12		

*Appearance may change without prior notice. *The Auto Stop Gun Nozzles (ATNP-PP25Ad, ATNP-PP25K24, ATPS-20Ad) cannot be attached to "Ad-2 Air".

Ad-2 Series Compatible Optional Nozzles *1



Auto Stop Gun Nozzle with Meter
GN-PPS25-AdK24



Auto Stop Gun Nozzle
ATNP-PP25Ad
(Ad-2, Ad-2L only)



Metered Auto-stop Gun Nozzle
ATNP-PP25K24
(Ad-2, Ad-2L only)

Container Air Vent













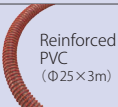
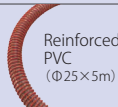
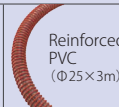
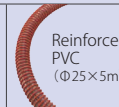

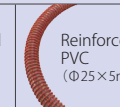
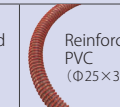
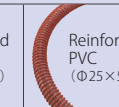

1 Port Cap KK-1



3 Port Cap KK-3A

JEH Series Specifications (For IBC container filling 2-port cap Ø150, outlet port 50A)

AdBlue

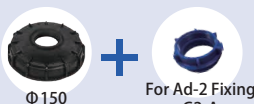
No.	7	8	9	10	11	12	13	14	
Image									
Model	JEH-AK3	JEH-AK5	JEH-BK3	JEH-BK5	JEH-AKA3	JEH-AKA5	JEH-BKA3	JEH-BKA5	
Liquid	AdBlue								
Accessories	IBC Container side Connection port	 50A Coupler		 Screw Cap		 50A Coupler		 Screw Cap	
	Nozzle	 Manual Gun GN-PPS25-Ad *Discharge port outer diameter Φ18				 Basic Manual Gun GN1-POM25 *Discharge port outer diameter Φ19			
	Hose Material (I.D. x Length)	 Reinforced PVC (Φ25×3m)	 Reinforced PVC (Φ25×5m)	 Reinforced PVC (Φ25×3m)	 Reinforced PVC (Φ25×5m)	 Reinforced PVC (Φ25×3m)	 Reinforced PVC (Φ25×5m)	 Reinforced PVC (Φ25×3m)	 Reinforced PVC (Φ25×5m)
	2 Port Cap								
Material	Main Unit・Nozzle	PP/PVC				POM (Polyacetal resin) Reinforced PVC (Polyvinyl chloride)			
	Packing	NBR							
Weight (kg)	2.5	3.2	2.5	3.2	2.3	3.1	2.5	3.1	

*Appearance may change without prior notice.

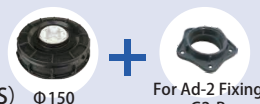
Regarding Installation

*Please check the lid size of your IBC container. The JEH series is for Φ150 (144.5mm) openings. For the Ad-2 Series, a separate adapter may be required depending on the container manufacturer.

Kodama
IBC-1000D
IBC-1000B



Sanko
1000
1000TC
(2) (3) (4) (5)



Schütz

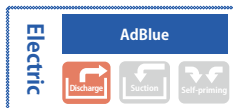


*No adapter required for installation

AdBlue Pump

Bag-in-Box Pump
(Battery/Electric Type) Ad AUTO

Ad-3 Series



Convenient pump for dispensing
from Bag-in-Box



BIB Mounting Image

① Dry-prevention Cap

- Box lifting not required
- Dispenses approx. 26 boxes with 2D-size batteries
- Includes 2.5 m hose (no hose extension)
- Includes straight nozzle

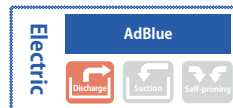
*Auto-stop function not available



Cable with clip
(for 12V battery)
*Included with
Ad-3-100

Electric Diaphragm Pump

EV(Ad) Series



Convenient for refueling trucks,
construction, and agricultural
heavy machinery



EV-100Ad



EV-12(24) Ad

- Easy hose connection with hose nipple (recommended hose ID: Ø19 mm)
- Diaphragm pump type

Battery-type Pump Set

AdBOX



24V battery-powered pump kit



- Easy to move with integrated carrier
- Powered by heavy machinery or vehicle battery
- Diaphragm pump type
- Pump, filter, 10 m DC cable, and auto-stop gun stored in one box

Drum Transport Carrier

TORRY-D



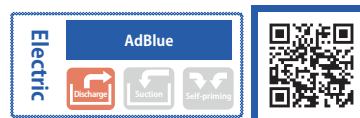
Ideal for drum transport
Large wheels for easy movement



Usage Image

- Equipped with anti-tip lock for safe transport
- Dimensions: L851 × W760 × H1070 mm
- Weight: 20 kg; made of steel for high durability in harsh

SSD-25Ad



Dispenses only the required amount per user, convenient usage tracking

*Not a built-in tank dispenser



① Large LCD Screen

Large screen displays volume during dispensing
Displays current time, preset value, and actual dispensed volume

② One-Touch Key Button

Magnetic user-registered key enables quick login (optional)



③ Easy Operation Management

Generates user- and period-based reports as receipts
Simplifies monthly usage tracking and reporting



④ Equipped with convenient auto-stop and preset functions

Data import to PC via dedicated software

With optional software and manager key, usage data can be imported to a PC











Preset function ensures accurate dispensing. Auto-stop prevents over-discharge for precise usage control.

*Please contact the manufacturer for more information regarding SSD-25Ad.

Ad-3 / EV / Ad-BOX / SSD-25Ad Series Specifications

□ AdBlue

No.	1	2	3	4	5	6	7	
Image								
Model	Ad-3	Ad-3-100	EV-100A d	EV-12A d	EV-24A d	AdBOX	SSD-25A d	
Container	Back-in box(BIB)		—					
Liquid	AdBlue							
Power Source	2 AA batteries *1	100V		12V	24V		100V	
Rated (minutes)	—		5 mins (auto-stop function)	20				
Max. Discharge Rate (L/min) at 1cP	5	9	26	25			28	
Lifting Head (m)	1.5		6					
Accessories	Power Supply Cable (m)	—	4	2			10	2.7
	Nozzle	 Straight		—			 Auto-stop Gun ATNH-20Ad	
	Hose Material (I.D. x Length)	Oil-resistant Rubber Hose (Φ15×2.5m)		None Recommended (Φ19)			Oil-resistant Rubber Hose Suction (Φ19×2m) Discharge (Φ19×6m)	Reinforced PVC Suction (Φ25×2.5m) Discharge (Φ25×3m)
Material	Main Unit・Nozzle	HDPE(High-density polyethylene) PP/SUS		PP・SUS				
	Packing	NBR		NBR/EPDM				FKM/NBR/EPDM
Weight (kg)	0.4	0.7	3.6			16	57.6	

*Appearance may change without prior notice. *1 Operating temperature for Ad-3 (battery type only) is 5–40°C.

Air-operated Industrial Fan

Oil-free Stand-type Industrial Fan

AFG-18NL / AFG-24NL

Air

Compressor:
3 HP(18NL)
5 HP(24NL)



No oiling required for lubricator—uses oil-free air motor

Stand Type



■ AFG-18 (24) NL

- Two fan sizes available: 450 mm and 600 mm
- Stable stand design prevents tipping

Adjustable angle
(vertical and horizontal);
usable as a circulator



AFG-18NL

Safe for use in electrically restricted areas like paint booths, with ventilation, drying, and air circulation to prevent heatstroke, enhance working conditions, and ease maintenance.



■ Oil-free Air Motor

- No lubricator or oiling required
- Used in some explosion-proof areas
- Speed(RPM) adjustable via air valve control
- Usable as a circulator with adjustable angle
- Suitable for continuous operation; long service life
- Silencer and air filter included as standard

No oiling required



Oil-free Floor-type Industrial Fan

AFF-18NL

Air

Compressor:
3 HP

Smooth to move with carrier
For ventilation and air circulation

Floor Type



AFF-18NL

- Usable as a circulator
- Easy to move with carrier

70° angle adjustment



Portable design with carrier allows easy movement between work sites. One unit covers multiple areas, improving work environments while minimizing equipment costs.



Oil-free Tabletop Industrial Fan

AFD-18NL

Air

Compressor:
3 HP

Powerful performance as other models
Compact design to fit on a workbench

Tabletop Type



AFD-18NL

- Lightweight and compact-can be placed on desks or stands
- Control allows fine airflow adjustment

Comes with air filter and male air coupler plug



*Common across all series

Usable in tight spaces where stand or floor models won't fit. Provides ventilation and airflow to improve work environments, safe for fire-restricted areas.



Oil-free Wall-mounted Industrial Fan

AFK-18NL

Air

Compressor:
3 HP

Mounts on walls or pillars to save space
Air valve and filter can be operated at hand



Wall-mounted Type



AFK-18NL

- Mounts directly to wall or pillar with screws
- Air filter installable separately via extension hose
- For ventilation in high heat and humidity

*Includes 2 m air supply hose

Wall-/pillar-mounted to save floor space and keep pathways clear.
Safe, tip-free design-ideal for ventilating and circulating air in heat-prone areas.



Cool Mister

ACM Series

Air

Compressor:
3 HP

Easy to install on your industrial fan



ACM-A

Includes dedicated 1L container



AFG-18NL Installation example

Generates mist using compressed air

- Lowers temperature by up to -8°C
- Air-operated, safe for use in hazardous zones
- Adjustable valve allows approx. 8 hours of operation with 1L
- Usable in high heat and humidity (0-60°C)
- Dedicated container included
- Compatible with large 10L water tanks
- Mist and airflow adjustable via needle valve
- For air-operated (ACM-A) or electric (ACM-E) fans

Coupler Differences






For air-operated fans (ACM-A)



For electric fans (ACM-E)



AFG / AFF / AFD / AFK Series Specifications

No.	1	2	3	4	5
Image					
Model	AFG-18NL	AFG-24NL	AFF-18NL	AFD-18NL	AFK-18NL
Type	Stand-Type		Floor-Type	Tabletop Type	Wall-mounted Type
Oil Lubrication	Oil-free Type				
Oscillation (Left/Right)	○ (70°)	○ (55°)	○ (70°)		
Angle (Up/Down)	7 Levels (80°)	4 Levels (40°)	7 Levels (70°)	4 Levels (40°)	7 Levels (68°)
Fan Diameter (mm)	450	600	450		
Compressor Horse Power (HP)	3	5	3		
Air Pressure (MPa)	0.4~0.6				
Air Consumption (m³/min)	0.33	0.46	0.33		
Maximum Air Flow (m³/min)	250	280	250		
Maximum Rotation Speed (rpm)	1,800	1,000	1,800		
Operating Ambient Temperature(°C)	0~60				
Air Connection Port	Air Coupler Plug (male)				
Material (Main unit/ Wing)	Steel/AL				
Weight (kg)	7.5	12.6	10.4	7.2	7

*Performance may vary depending on air pressure and piping conditions

ACM Series Specifications

No.	6	7
Image		
	*The image shows ACM-A. Coupler section differs by model.	
Model	ACM-A	ACM-E
Type	Exclusive for air-operated fan	Exclusive for electric fan
Nozzle Type	Twin-fluid	
Mist Spray Volume	Adjustable	
Water Consumption/1h	Valve opening 90 degrees/12L 1mm/0.09L 2mm/0.96L	
Water Supply	Tank•Exclusive Container	
Compressor Horse Power (HP)	3	
Air Pressure (Mpa)	0.4~0.6	
Air Consumption (m³/min)	0.33	
Air Connection Port	Air Coupler Plug (male)	
Wetted parts material	Main unit	POM/SUS/Water-resistant polyurethane/PVC
	Packing	FKM
Accessories	S-hook / Steel Plate (65×45) Exclusive Container	
Weight (kg)	1	

Air-operated Blower

Oil-free Axial Flow Blower

AFR-08NL / AFR-12NL

Air

Compressor:
5 HP

Powerful airflow for rapid ventilation
Covers a wider area than standard electric models



AFR-12NL

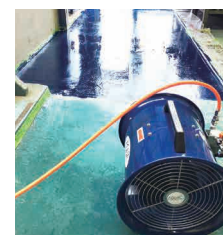
AFR-08NL

- 1/4 the weight of standard explosion-proof models
- Usable in fire-prohibited areas
- Duct hose optional

Rear air intake



This ventilation equipment is safe for use in explosion-proof and fire-restricted areas. Ideal for improving work environments in automotive plants, paint booths, and other specialized settings.



Oil-free Axial Flow Blower

AFR-18NL

Air

Compressor:
5 HP

Blasts away stagnant air in an instant!
Equipped with casters for easy mobility



AFR-18NL



Portability example

- Easy to move with casters
- Durable motor for continuous use
- Safe for fire-prohibited areas; no electricity used
- Oscillation function (up/down)
- Rotation speed control via air valve
- Oil-free type without lubricator
- Stable design resists tipping

Stepless airflow and adjustable angle allow versatile use—from personal cooling to ventilating large indoor spaces.



Optional Duct for AFR Series



- For ventilating manholes and tanks
- Ideal for use in fire-prohibited areas
- Two types: with or without earth cable
- Can be extended



Optional Duct for AFR Series

Model	Compatible blower	Length	I.D.(Φ)	Weight(Kg)
D-08 With earth cable	AFR-08NL Dedicated	5m	230	3.8
D-12 With earth cable	AFR-12NL Dedicated		320	6
D-18 With earth cable	AFR-18•18NL Dedicated		500	8
D-08V Without earth cable	AFR-08NL Dedicated		200	2.3
D-12V Without earth cable	AFR-12NL Dedicated		300	3.3
D-18V Without earth cable	AFR-18•18NL Dedicated		600	7.8

*Extension available



Simply insert into the grease inlet and rotate
Helps improve durability and maintain performance



GRU

Patent pending

- Helps reduce maintenance costs
- Attaches directly for easy greasing
- Reusable with grease refills
- Compatible with our air-operated industrial fans
(*Compatible with some brands, with exceptions)
- Recommended: 2 turns per use
- Grease capacity: 4 turns (3.8 cc)
- 0.47 cc per turn

How to Use

1 Remove the tank cap



2 Refill grease into the container



3 Fill grease up to approx. 10 mm from the top, then tighten the tank cap to Mark 1



4 Attach to the product and tighten to Mark 2 (about 4 turns) to supply one dose of grease

Fix to product – Grease supply image
(AFG-18NL sold separately)

Designed for low maintenance—requires grease replenishment only twice a year for continuous use. Reduces maintenance time and cost by eliminating the need for frequent inspections or professional servicing.

AFR Series Specifications

No.	1	2	3
Image			
Model	AFR-08NL	AFR-12NL	AFR-18NL
Type	Axial Flow Type		
Oil Lubrication	Oil-free Type		
Fan Diameter (mm)	200	300	450
Compressor Horse Power (HP)	5		
Air Pressure (Mpa)	0.4~0.6		
Air Consumption (m ³ /min)	0.35	0.45	0.42
Maximum Air Flow (m ³ /min)	120	200	300
Maximum Rotation Speed (rpm)	3,300	2,800	1,300
Operating Ambient Temperature(°C)	0~60		
Air Connection Port	Air Coupler Plug (male)		
Material (Main unit/ Wing)	Steel/Resin		Steel/AL
Weight (kg)	7.7	9.4	18.5

*Performance may vary depending on air pressure and piping conditions

GRU Specifications

No.	4
Image	
Model	GRU
Operation Method	Manual Screw Type
Connection Diameter	1/8
Material(Main unit)	AL
Tank Capacity (cc)	3.8
Weight (kg)	0.06

*Not compatible with AFR Series

Cock / Rack

Pail Cock

PC-40PP



No need to puncture the can
Non-pulsating,
splash-free pail cock



PC-40PP

① Air Vent Float

Releases air to prevent sudden discharge and ensure smooth, splash-free flow.

- No dripping after use
- Equipped with air vent float
- Lightweight all-resin construction
- Easy to install



Simply insert and
turn the lever



Rotate after use to
prevent dripping

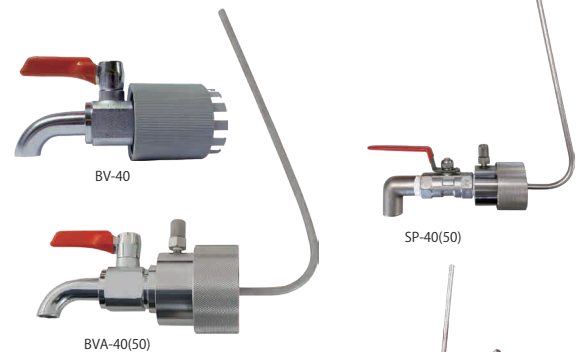
Enables safe liquid dispensing without
puncturing air vents, minimizing splashing.
Allows sealed storage after use, preventing
content degradation.

Pail Cock

BV / SP / ND Series



Ideal for dispensing liquids from pail or 18L cans
Convenient spout for easy dispensing



BV-40

SP-40(50)

BVA-40(50)

Simple installation
-just push into the can opening!



Pail can (P)

18L can (I)

*Choose P or I type according to the container
Model suffix indicates (P/I)

- Easy to install; can be stored with the cock attached
- Compatible with high-viscosity liquids (ND type)
- Models available to suit different liquids
- Place the can horizontally to dispense liquid by gravity
- Two mounting port sizes available
- Air vent type requires no can puncture

Pail Cock Installation Method



1. Remove the cap



2. Rotate the cock's locknut to expose the claws



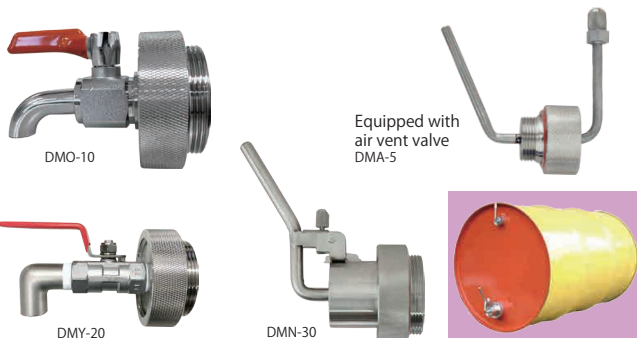
3. Insert into the can opening and secure with the locknut

Drum Cock

DM Series



Ideal for dispensing liquids from drum cans
Convenient spout for easy dispensing

Equipped with
air vent valve
DMA-5

DMO-10

DMY-20

DMN-30

Simple installation-just
push into the can opening!

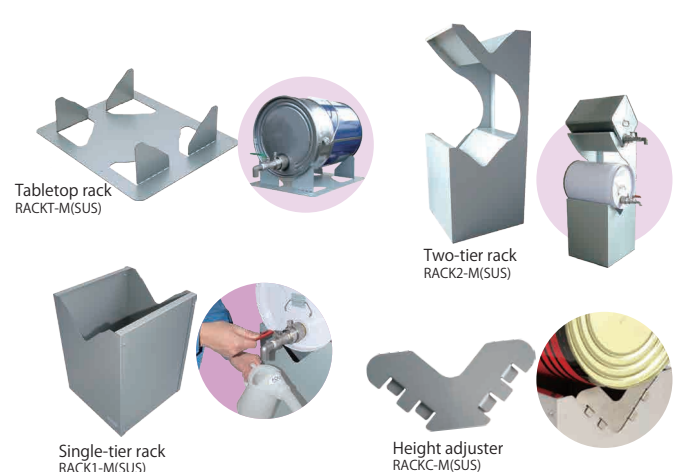
- Models available to suit different liquids
- Easy to install; can be stored with cock attached
- Compatible with high-viscosity liquids (DMN type)
- Place can horizontally to dispense by gravity

Pail Rack

RACK Series



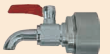
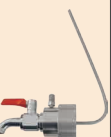
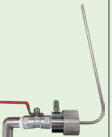




Organizing the workspace and saving space
Improves liquid dispensing efficiency

Tabletop rack
RACK1-M(SUS)Two-tier rack
RACK2-M(SUS)Single-tier rack
RACK1-M(SUS)Height adjuster
RACKC-M(SUS)

Pail Cans / 18L Cans – PC-40PP / BV / SP / ND Series Specifications

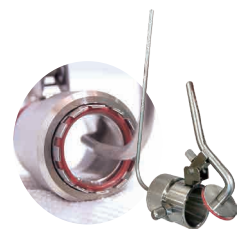
Oil Solvent

No.	1	2	3	4	5	6	7
Image							
Model	PC-40PP	BV-40	BV-50	BVA-40I(P) BVA-50I(P)	SP-40I(P) SP-50I(P)	SP-L40I(P) SP-L50I(P)	ND-40I(P) ND-50I(P)
Liquid	Low to Medium-viscosity Oil, Detergent, Water, Wax, etc.				Low-viscosity Solvent*		High-viscosity Oil, Solvent*
Mounting Can Opening O.D. (Φ)	40.8		48.8		40:40.8/50:48.8		
Flow Path Diameter (Φ)	16	13			9.2		40
Valve Diameter	—	3/4			1/2		—
Air Vent Pipe	○	—			○		
Lever Lock Function	—					○	—
Wetted parts material	Main unit	PP Polyurethane Foamed resin	Brass Chrome plating Nylon 66	Brass Chrome plating SUS304		SUS304	
	Packing	NBR				PTFE/FKM (EPT is also available) *1	
Weight (kg)	0.13	0.28	0.6	40:0.64 50:0.75	40:0.65 50:0.76		40:0.76 50:0.68

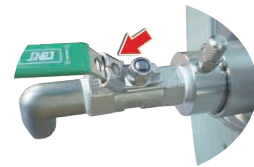
*Solvents must be compatible with the material.

*1 For solvents incompatible with FKM (e.g., acetone, MEK), please request EPT specification.

*O.D. stands for Outer Diameter



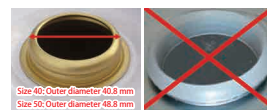
ND-40 (50)



SP-L40 (50)
Lever lock feature






Custom support for resin spouts available

For resin openings, custom order is required. Not compatible with standard models.



Drum Can – DM Series Specifications

Oil Solvent

No.	8	9	10	11	12	13	14	15
Image								
Model	DMO-10	DMY-20	DMY-100	DMY-150	DMY-200	DMY-250	DMN-30	DMA-5
Liquid	Low to Medium ~viscosity Oil, Detergent	Low-viscosity Solvent*	Medium-viscosity Oil , Solvent*				High-viscosity Oil, Solvent*	Type: Air vent
Mounting Diameter (inch)			G2					G3/4
Flow Path Diameter (Φ)	13	9.2	12.5	16	20	24.5	40	3.6
Valve Diameter	3/4	1/2	3/4	1	1*1/4	1*1/2	—	
Wetted parts material	Main unit	Bs/SUS304 Chrome plating	SUS304					FKM/ PTFE are also available
	Packing	NBR	PTFE					
Weight (kg)	0.88	0.86	1.18	1.48		2.28	0.92	0.24

*Solvents must be compatible with the material.

Pail Can / 18L Can – RACK Series Specifications

No.	16	17	18	19	20	21	22	23
Image								
Model	RACKT-M	RACKT-SUS	RACK1-M	RACK1-SUS	RACK2-M	RACK2-SUS	RACKC-M	RACKC-SUS
Type	Tabletop		Single-tier rack		Two-tier rack		Height adjuster	
Material	Steel (Plating)	SUS	Steel (Plating)	SUS	Steel (Plating)	SUS	Steel (Plating)	SUS
Size	330×400×95		290×290×400		350×325×830		—	
Weight (kg)	0.98	0.96	3.59	3.64	7.52	7.8	0.1	

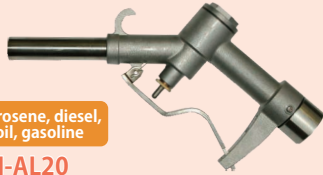
Gun Nozzle

Manual Gun Nozzle

GN (1) Series



Discharges when gripped, stops when released. Ideal for portioning by gravity flow.



Kerosene, diesel,
oil, gasoline
GN-AL20
GN-AL25

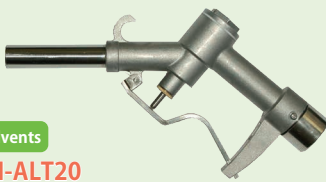


Kerosene, diesel, oil
GN-AL3025

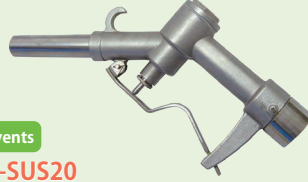


- Convenient when attached to the hose end of an electric or air-operated pump
- Usable with gravity flow

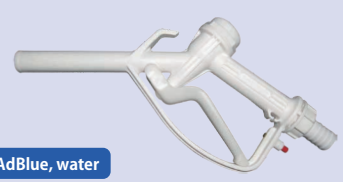
*Be mindful of operating pressure



Solvents
GN-ALT20
GN-ALT25



Solvents
GN-SUS20
GN-SUS25



AdBlue, water
GN-PPW20



AdBlue (solvents), water
GN-PP20
GN-PP25



AdBlue, water
GN-PPS20-Ad
GN-PPS25-Ad



AdBlue, water, water-soluble
fluids (neutral), kerosene, diesel
GN1-POM20
GN1-POM25

Auto Stop Gun Nozzle

ATNB / ATNH / ATNP Series



Works with your existing pump - automatically stops when liquid reaches full level.



Kerosene, diesel,
medium-viscosity oil
ATNB-20

- Automatically stops when full
- Adjustable with 45° swivel
- Viscosities up to 1,500 cP
- Prevents overflows to reduce costs
- Equipped with proprietary sensor technology



Kerosene, diesel
ATNH-20



Kerosene, diesel
ATNH-25



Kerosene, diesel
ATNH-FA (Exclusive for FA-100)



Solvents
ATNH-20T
ATNH-25T



AdBlue, water
ATNH-20Ad



AdBlue, water
ATNP-PP25-Ad



AdBlue, water
ATNP-SUS20-Ad

*Auto stop function will not activate if flow rate is insufficient *Ensure proper pressure and flow range

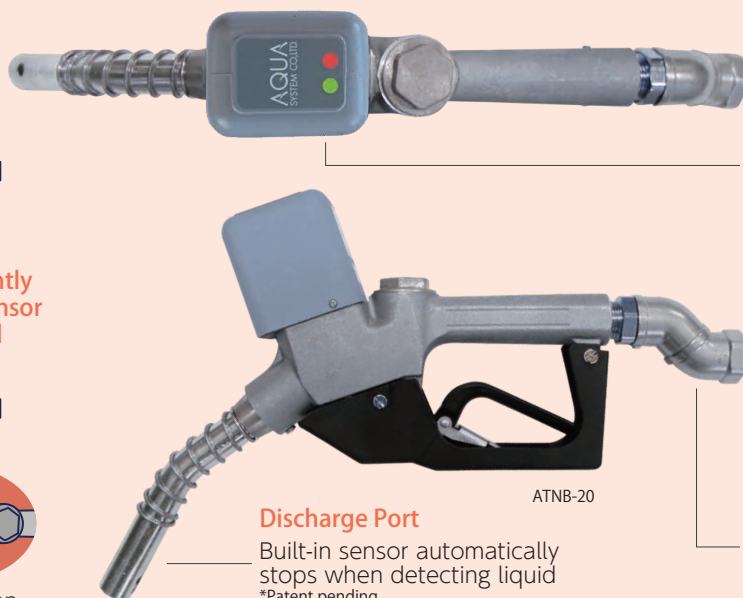
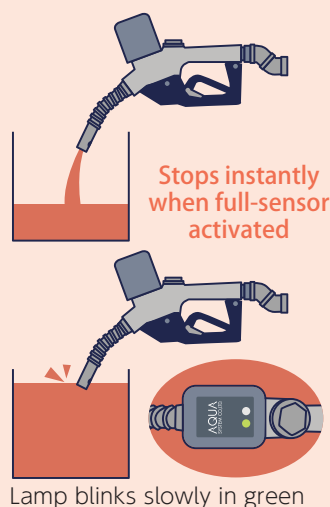
*Cannot be used with gravity flow. A separate pump is required. (compatible with ATNB-20 only) *Please contact the manufacturer for more information regarding GN-AL3025 & ATNH-20Ad

Sensor Auto Stop Nozzle (ATNB-20)

Equipped with battery-powered auto stop function
Enables transfer without a main pump unit



Patent Pending



Indicator lamp

Battery status easily visible with lamp
*Two-color indicator: green and red

Discharge Port

Built-in sensor automatically stops when detecting liquid
*Patent pending

45°swivel

Adjustable to desired angle
*Connection port: Rc 3/4









Manual Gun Nozzle GN (1) Series – Specifications

■ Kerosene, Diesel, Oil ■ Solvent ■ AdBlue

No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Image														
Model	GN-AL20	GN-AL25	GN-AL3025	GN-ALT20	GN-ALT25	GN-SUS20	GN-SUS25	GN-PPW20	GN-PP20	GN-PP25	GN-PPS20-Ad	GN-PPS25-Ad	GN1-POM20	GN1-POM25
Liquid	Kerosene, Diesel, Gasoline, Oil		Kerosene, Diesel, Oil	Solvent*				AdBlue, Water	AdBlue, Water, Solvent*			AdBlue, Water	AdBlue, Water, Water-Soluble Liquid (Neutral), Kerosene, Diesel	
Max. Pressure (MPa)	0.15		1	0.15				0.3	0.15			0.3	0.2	
Included Fitting				Swivel				Hose Nipple	Swivel (With cap and chain)			Hose Nipple	Hose Nipple (With cap and chain)	Hose Nipple
Connection Diameter	Rc 3/4	Rc 1	G1	Rc 3/4	Rc 1	Rc 3/4	Rc 1	Φ25 G1 male when removed	Rc 3/4	Rc 1	Φ20 G1 male when removed	Φ25 G1 male when removed	Φ20	Φ25
Recommended Hose	20A		25A	20A	25A	20A	25A	I.D. Φ25	20A	25A	I.D. Φ19	I.D. Φ25	I.D. Φ19	I.D. Φ25
Discharge Pipe O.D. (mm)	22.3		25	22.3				25.5	28			18	19	
Wetted parts material	Main unit	AL/SUS		AL/Bs		AL/SUS		SUS	PP/SUS		PTFE/PP/SUS		PP/SUS	
	Packing	NBR/FKM		NBR		PTFE/FFKM		NBR	FKM		NBR		POM	
Weight (kg)	0.7		0.6	0.7		1.3		0.2	0.4			0.5	0.2	

Auto Stop Gun Nozzle ATNB/ATNH/ATNP Series – Specifications

■ Kerosene, Diesel, Oil ■ Solvent ■ AdBlue

No.	15	16	17	18	19	20	21	22	23	
Image										
Model	ATNB-20	ATNH-20	ATNH-25	ATNH-FA	ATNH-20T	ATNH-25T	ATNH-20Ad	ATNP-PP25-Ad	ATNP-SUS20-Ad	
Liquid	Kerosene, Diesel, Medium Viscosity Oil	Kerosene, Diesel			Solvent*		AdBlue, Water			
Flow Rate (L/min)	0~100	30~80	60~90		30~80		15~45	20~80		
Max. Pressure (MPa)	0.2							0.35	0.15~0.35	0.3
Included Fitting	45-degree Swivel	Swivel		Exclusive for Koshin FA-100	Swivel		Hose Nipple (G1 male when removed)	Hose Nipple with cap and chain	Hose Nipple	
Connection Diameter	R c 3/4		R c 1		R c 3/4	R c 1	Φ20	Φ25	Φ20	
Recommended Hose	20A		25A		20A	25A	I.D. Φ19	I.D. Φ25	I.D. Φ19	
Discharge Pipe O.D. (mm)	24		30		24		19			
Wetted parts material	Main unit	AL					SUS/PP		SUS/Nylon	
	Packing	NBR/PTFE Nylon	NBR/FKM			PTFE/FFKM		FKM		
Weight (kg)	1.7	1.5				2	0.7		2.3	

*Use only solvents that are compatible with the material. Contact us for details. Additional parts may be required to connect to your existing pump.

*The auto stop gun nozzle cannot be used with gravity flow. A separate pump is required. (compatible with ATNB-20 only)

*Please contact the manufacturer for more information regarding GN-AL3025 & ATNH-20Ad

Gun Nozzle / Flow meter

Metered Gun Nozzle

GN (1) / ATNH / ATPS / ATNP (with flow meter) Series



Manage usage with built-in metering nozzle

Manual metered gun nozzle series



Metered auto-stop gun nozzle series



*Cannot be used with gravity flow. A separate pump is required. (compatible with ATNB-20 only)

Simple Turbine Flow Meter (LCD Display)

TB-K24 Series



Manage kerosene and diesel usage with pump



Display panel orientation adjustable

*TB-K24FM requires a Torx driver (T10)
*TB-K24-Ad requires a precision screwdriver (+1).

For Managing AdBlue



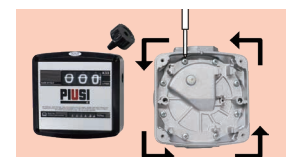
- Compact size for easy integration with gun nozzles
- Display panel can be rotated in 4 directions
- Calibration repeatability: $\pm 0.2\%$
- LCD digital display (uses two AAA batteries)
- *Uses parallel threads—take care to prevent leaks during connection

Simple Disk Flow Meter (Mechanical Digital Display)

MK33 Series



Manage kerosene, diesel and oil (up to 1,000 cP)



Display panel orientation adjustable










*Requires (+2) screwdriver

- Large, easy-to-read display
- Mechanical digital display
- Two types: MK33-25D for kerosene/diesel, MK33-25OL for oil
- Calibration repeatability: $\pm 0.2\%$
- *Uses parallel threads—take care to prevent leaks during connection

*Please contact the manufacturer for more information regarding ATPS, TB-K24 and MK33 series.







Metered Gun Nozzle GN (1) / ATNH / APTS / ATNP (with Flow Meter) Series – Specifications

■ Kerosene, Diesel, Oil

No.	1	2	3	4	5	6	7	8	9	10	
Image											
Model	GN1-POM20K24	GN1-POM25K24	GN-AL20(25)K24	GN-AL3025K24	GN-AL3025K24FA	GN-K600A	ATNH-20K24	ATNH-25K24	ATNH-FAK24	ATPS-10	
Nozzle Type (measuring method)	Manual (turbine)					Manual (oval gear)	Auto stop when full (turbine)			Quantitative preset (oval gear)	
Liquid	Kerosene, Diesel					Oil (below 2,000cP)	Kerosene, Diesel			Oil (below 2,000cP)	
Flow Rate (L/min)	6~120					8~60	30~80	60~90	30~80	1~30	
Max. Pressure (MPa)	0.2		0.15	1		0.21~7	0.2			0.21~7	
Accessories (Fitting Size)	Swivel		Swivel 20: Rc3/4 25: Rc1	Swivel (Rc1)	Exclusive fittings for Koshin FA-100	Swivel (G3/4)	Swivel (Rc3/4)	Swivel (Rc1)	Exclusive fittings for Koshin FA-100	Swivel (G1/2 female)	
Discharge Pipe O.D. (mm)	19		22.3	25		27	24	30	24	13.5	
Wetted parts material	Main unit	POM/SUS/PP		AL/PP/Iron/SUS/FRP * 1		AL/PP/Iron/SUS/FRP * 1					
	Packing	NBR		NBR/FKM			NBR	NBR/FKM			NBR
Weight (kg)	0.5		1.3			2.9	2.1			1.7	

*Appearance may change without notice *Not suitable for gravity flow *Additional parts may be required to connect to your existing pump *1 FRP stands for fiber-reinforced plastic

AdBlue

No.	11	12	13	14	15	16	17	18
Image								
Model	GN1-POM20 AdK24	GN1-POM25 AdK24	GN-PP25K24	GN-SUS20(25)K24	GN-PPS25-AdK24	ATPS-20Ad	ATNP-PP25K24	ATNP-SUS20K24
Nozzle Type (measuring method)	Manual (turbine)					Auto stop when full (turbine)		
Liquid	AdBlue*Water / water-soluble liquid (neutral)			AdBlue,Water				
Flow Rate (L/min)	6~120					15~45	20~80	
Max. Pressure (MPa)	0.2		0.15		0.3	0.15~0.35	0.2	0.3
Accessories (Fitting Size)	Hose Nipple		Swivel (Rc1) cap chain	Swivel 20:Rc3/4 25:Rc1	Hose Nipple (Φ25) G1 male when removed, cap chain	Hose Nipple (Φ20) G1 male when removed	Hose Nipple (Φ25) G1 male when removed, cap chain	Swivel (Rc3/4)
Discharge Pipe O.D. (mm)	19		28	22.3	18	19		
Wetted parts material	Main unit	POM/SUS/AL/PP		PP/SUS				SUS Nylon
	Packing	NBR		NBR/FKM PTFE	PTFE/NBR FFKM	NBR/FKM	FKM	NBR/FKM
Weight (kg)	0.7		1	1.9		1		2.1

*Appearance may change without notice *Not suitable for gravity flow *Additional parts may be required to connect to your existing pump

■ AdBlue

How Auto Stop Works

1 In use – red arrows indicate liquid flow

Air is drawn in

① Pulling the lever lifts the pin, opens the valve, and allows flow.

Discharge liquid and air

② Discharge when the nozzle's sensor section is pressed.

2 Auto Stop Mechanism
Blue arrows indicate internal movements





Liquid level

Discharge port is blocked

When liquid or foam blocks the port, the lever automatically returns and the flow stops.

Flow Meter Series – Specifications

■ Kerosene, Diesel, Oil ■ AdBlue

No.	19	20	21	22
Image				
Model	TB-K24-FM	TB-K24-Ad	MK33-25D	MK33-25OL
Measuring method	Turbine (LCD digital display)		Disc (mechanical digital display)	
Liquid	Kerosene, Diesel		Kerosene, Diesel	Oil (below 1,000cP)
Max. Pressure (MPa)	2		1	
Connection Diameter	G1 male / G1 female (Entry/Exit can be changed)		G1 female on both ends	
Flow Rate (L/min)	6~120		20~120	
Max. scale display (L)	Cumulative	5 digit (0.01~99999)		3 digit (999.9/Right scale 0.1)
	Cumulative total	6 digit (0.1~999999)		6 digit (999999)
Accuracy (%)			±1 (Repeatability 0.2)	
Max. scale display (L)	Main unit	AL/PVDF SUS316 Ceramic	PP/SUS	
	Packing	—	AL Polybutylene terephthalate (PBT) resin	
Weight (kg)			NBR	
Weight (kg)	0.4		2	

*Appearance may change without notice *Not suitable for gravity flow *TB-K24-Ad is not suitable for use with pure water.

Eco Sweeper / Station Trolley

Battery-operated Vacuum Cleaner Eco Sweeper

AJL780E

Battery



Easy cleaning with light effort
Auto-rotating side brush reaches every corner



AJL780E



Adjustable height with brush-down function



Simple battery charging (6 hours)



One-touch operation



Removable dust box

- Power assist reduces physical strain
- Brush-down function adjusts to floor height
- Adjustable handle height and angle
- Stands upright for compact storage
- Easy operation; runs approx. 2.5 hours on full charge



Manual Eco Sweeper

AJL Series

Manual



Picks up debris just by walking—no electricity required
Ideal for factories, parking lots, roads, and large areas



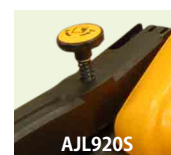
AJL550S



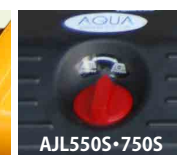
AJL750S



AJL920S



AJL920S



AJL550S-750S

Adjustable side brush height



AJL920Sのみ

Equipped with roller brush



One-touch removable dust box

- Collects PET bottles and cans (AJL550S / AJL750S)
- Roller brush picks up fine debris (AJL920S)
- Dual side brushes prevent debris from escaping

Efficiently cleans large facility floors with simple push-and-walk operation. Reduced daily cleaning time from 1 hour to just 10 minutes, greatly improving productivity.



S-Trolley



**Solves heavy transport and refueling
Just load and push the drum with pump**



Image: Drum with pump attached

- Can run over bumps up to 3cm
- Integrated frame for mounting power source or generator
- Drum setup with lifting handle
- Stable design with drum-fixing brackets
- Equipped with secure fixed casters

How to place the drum



① Attach the "lifting handle" hook to the drum.



② Place the drum in front of the station trolley and lift it using the handle to slide the base under the drum.



③ Secure the drum with brackets for stable transport.



④ Install a power source pump such as an air tank to complete setup.

4 customizable station trolley sets for different applications

① Kerosene/Diesel Set



Refuels multiple forklifts in factory parking lots

- APD-20GATNK24
- Air drum pump (with metered auto-stop nozzle)
- Air tank (optional)
- Station trolley



② Oil Set



Refuels golf carts

- K33APD-20
- Air drum pump (with flow meter)
- Air tank (optional)
- Station trolley



③ Mobile Battery Set



Fuel supply for disaster-affected areas

- TDP1M33 (Electric type)
- Kerosene/diesel drum pump
- Portable power supply (optional)
- Station trolley



④ Lithium Set for AdBlue







Refuels trucks

- Ad-1LATNPK24
- Rechargeable drum pump (with metered auto-stop nozzle)
- Station trolley



AJL Series Specifications

No.	1	2	3	4	
Image					
Model	AJL550S	AJL750S	AJL920S	AJL780E	
Collectable Items	Plastic bottle (0.5~1L), empty cans, paper waste, fallen leaves, bolts, etc.		Sand, small stones, fallen leaves, bolts, etc.	Fine dust, dirt, sand, fallen leaves, glass shards, bolts, paper waste, etc.	
Inlet (mm)	250	380	650	380	
Dust Collection Capacity (m³/h)	2,200	3,000	3,680	3,800	
Accessories	Dust BOX Capacity (L)	25	50	40	
	Side Brush	○ (2PCS)			
	Roller Brush	—		○ (1PC)	
Outer Diameter (mm)	Overall Length (A)	700	1,120	1,350	1,080
	Overall Width (B)	570	750	970	920
	Overall Height (C)	1,070	940	1,060	1,060
	Handle Height (D)	220	300	390	280
Weight (kg)		7	13.2	23.8	18.5

S-Trolley Specifications

No.	5	
Image		
Material	S-Trolley	
Material	Iron	
Load Capacity (kg)	250	
Tire Pressure (KPa)	248	
Outer Diameter (mm)	Overall Length	970
	Overall Width	810
	Overall Height	938
Weight (kg)		32.5

*Lifting handle is optional

AJL780E

Compact vertical storage



280mm

Liquid Level Indicator

Laser-type Liquid Level Gauge

GDE Series

Electric

Battery



Instantly visualizes residual liquid with easy setup
Portable non-contact type for carrying anywhere

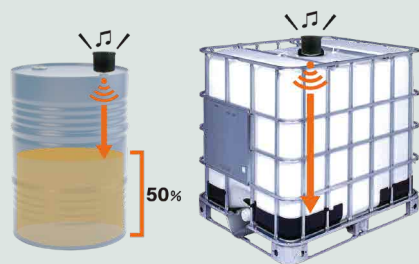
NEW



GDE-CL (Standard Type)

- Quickly verifies remaining liquid in drums
- Non-contact laser type keeps you clean from liquid
- Compatible with oil, kerosene, diesel, water, waste fluid, and cutting fluid
- Portable battery-powered model for indoor use
- Equipped with external signal output for high versatility
- Compatible with JIS 200L drums, resin (poly) drums, IBC tanks, and other tanks
- Mountable on small drum bung (G3/4)
- Buzzer volume adjustable
- Runs approx. 3 months on four AA alkaline batteries (used 3 times/day)

Easy setup displays accurate volume on LCD panel



Easy setup tailored to container type
 Compatible with steel drums, resin (poly) drums, and IBC tanks
 Other tanks also configurable



Unit selection available

Units: [L / % / mm]
 Remaining volume displayed on LCD panel

Wireless transmission for remote monitoring
Real-time checking via PC application

NEW



GDE-CLW (Wireless type / Sub-unit)



GDE-W (Main unit)

Eliminates manual inventory checks



200L drum installation image



AC100V power cable (for wireless type / main unit)



USB cable (main unit only)

- Standard model with added wireless functionality
- Remote monitoring system for real-time tracking
- Battery-powered with power cable for extended use
- 1 main unit can manage up to 15 sub-units
- High versatility with external signal output function
- Sends data to main unit every 30 sec via USB
- Wireless communication range approx. 50 m
- *Varies by environment and obstacles
- Battery lasts ~1 day; power cable use recommended
- *Varies by usage and conditions

See specifications on **P.65**

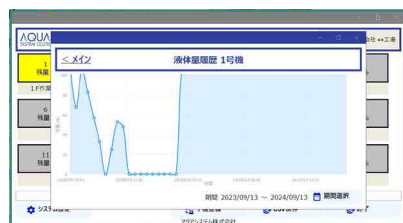
*GDE-W (Main unit) cannot be used alone. Please purchase together with GDE-CLW (Sub-unit).
 *For PC app use, one GDE-CLW per tank is required.
 *Kindly refer to applicable national laws for import/export regulations.

Check multiple tank levels at once with the remote monitoring system!

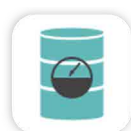
- 1 Attach the wireless sub-unit (GDE-CLW) to each tank
- 2 Sends data to the main unit (GDE-W) every 30 seconds
- 3 Monitor up to 15 units simultaneously

View liquid level trends in graph form

Visually track changes to optimize refill timing
Efficient fluid management via centralized monitoring

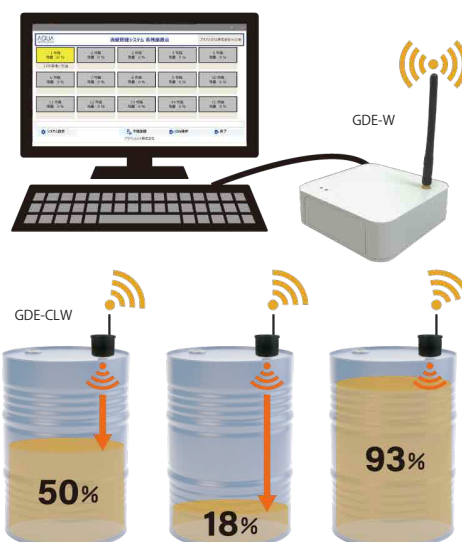


- Data downloadable in CSV format
- Data retention up to 1 year



PC-exclusive liquid management app required

*App is for "GDE-CLW / GDE-W wireless types" only. Not compatible with "GDE-CL standard type."



Sensor-type Liquid Level Gauge

GDB Series

Battery



Affordable, battery-powered gauge for easy use
Instant alert with sound and light for full/empty tank



GDB-CF (Full)

GDB-CL (Empty)



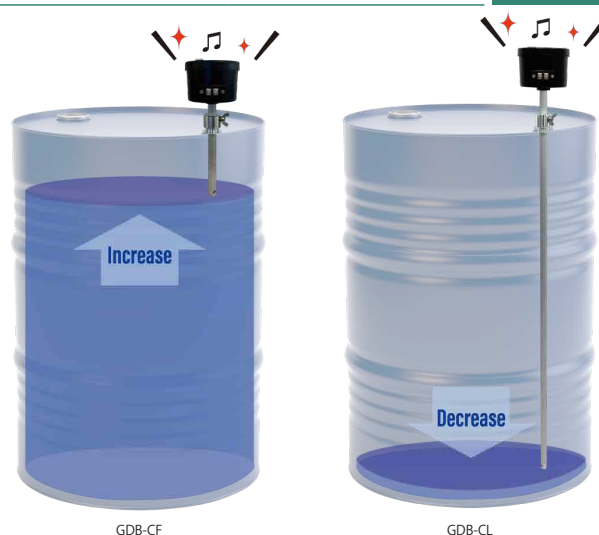
Switch

Alerts full/empty status with red flashing light



External output terminal

Outputs buzzer activation signal to external devices via wiring



GDB-CF

GDB-CL

- Easy one-touch operation—beginner-friendly
- Smooth checking within 3 minutes of startup
- Lighter, affordable, and installation-free
- Compatible with oil, kerosene, diesel, water, and waste fluid
- High versatility with external signal output function
- Contact-type sensor detects when the pipe tip touches liquid
- Mountable on G3/4 bung of JIS-standard 200L drums
- Red flashing light and 15-second buzzer alert when full or empty
- Portable battery-powered model for indoor use
- Runs approx. 3 months on four AA alkaline batteries (used 3 times/day)

Mounted on waste liquid collection drums, the full-tank detector gives audio and visual alerts to prevent overflow, improve safety, and enable efficient waste liquid management.



*To prevent malfunction, use the "GDB-CL (Empty)" with at least 10 mm above from the bottom.
*Kindly refer to applicable national laws for import/export regulations.

See specifications on **P.65**

Liquid Level Indicator

Air-operated Liquid Level Gauge

GDA Series

Air



Safe, reliable monitoring in fire-prohibited areas with air-operated pumps.

NEW



GDA-HH (Full)

GDA-HL (Empty)



GDA-HH

Pump stops when tank is full

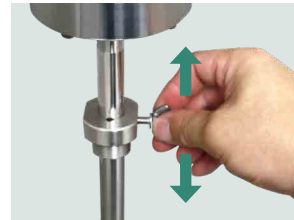
Air supply stops automatically when liquid reaches pipe tip (OFF). Resumes operation when liquid level drops (ON).



GDA-HL

Pump stops when tank is empty

Air supply stops automatically when liquid leaves the pipe tip (OFF). Resumes operation when liquid level rises (ON).



Adjustment Adapter

Adjustable liquid level height



Forced Discharge Ring

Pull to discharge remaining liquid (Empty type only)

- Easily set liquid level line with adjustment adapter
- Compatible with solvents, water, cutting fluid, oil, kerosene, and diesel

*Solvents and chemicals must be non-corrosive to materials

- Mountable on G3/4 bung of JIS-standard 200L drums

*Supports IBC tanks and other containers with special configurations

- Operates with compressed air at 0.3–0.6 Mpa

• After pump stops, only GDA-HL allows additional discharge

*Pump operates while the forced discharge ring is pulled

Air-type Liquid Level Gauge+Air pump = All-Air Set

Controls liquid level using compressed air for safe, low-cost management

Applicable Pumps



DF4H-15G



PST-20G

See P.12



ACHD-20AL



AMVHD-20FC



AMH1D-20FC

See P.14

A liquid level detection system used in sewage treatment plants and chemical factories where methane gas is present.
Enables reliable level control in hazardous zones, supporting stable and safe plant operations.



*Kindly refer to applicable national laws for import/export regulations.



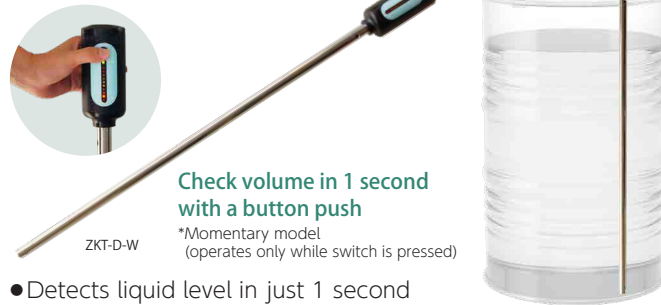
For managing residual liquid in drums



- Lightweight and affordable
- Yellow below 30%, red below 10% remaining
- Displayed in %, with ± 5 cm accuracy margin
- *Float cannot be removed when over 65%
- *Kevlar thread may snap if pulled too forcefully










For monitoring liquid level inside non-visible containers



- Detects liquid level in just 1 second
- Durable stainless steel liquid-contact pipe
- Lightweight and easy to carry
- Capacitance-type sensor
- 10-level LED display for liquid level
- Available for drum and pail cans, for oil or water use
- *Not suitable for flammable liquids

GDE / GDB / GDA Series Specifications

 Kerosene, Diesel, Oil
 Solvent






No.	1	2	3	4	5	6	7	
Image								
Model	GDE-CL	GDE-CLW	GDE-W	GDB-CF	GDB-CL	GDA-HH	GDA-HL	
Power Source (Pressure)	4 AA batteries	AC 100V (recommended) / 4 AA batteries	AC100V power supply	4 AA batteries		Air (0.3~0.6) *1		
Liquid	Oil, Kerosene,Diesel *2		—	Oil, Kerosene,Diesel *2		Oil, Kerosene, Diesel, Solvent		
Viscosity(cP)	3,000		—	500		3,000		
Connection Diameter	G3/4		—	G3/4				
Temperature Range	Operation (°C)	0~60 (Environment-dependent)		0~40 (Environment-dependent)		-10~40 (Environment-dependent)		0~60 (Environment-dependent)
	Storage (°C)	0~60 (Environment-dependent)			-10~60 (Environment-dependent)		0~60 (Environment-dependent)	
Liquid Temperature(°C)	0~60		—	0~40		0~60		
Dimensions(mm)	Φ106×91	Φ106×203 (Including antenna section)	125×125×154	97×265	97×1,070	178×460	178×1,160	
Connection parts material	Main unit	—		AL		SUS304		
	Packing	—		NBR/PTFE		—		
Weight (kg)	0.45	0.46	0.23	0.4	0.7	1.8	2.2	

*Solvents and chemicals must be non-corrosive to materials. *Kindly refer to applicable national laws for import/export regulations.

*1 Pump performance not guaranteed. Use at recommended pressure. *2 Suitable for wastewater that does not contain solvents or chemicals.

E-C / ZKT Series Specifications

 Kerosene, Diesel, Oil
 Water

No.	8	9	10	11	12
Image					
Model	E-C	ZKT-D-OL	ZKT-D-W	ZKT-P-OL	ZKT-P-W
Container	200L drum			Pail	
Power Source	Float type	AC adapter for 100-240V; 2 AA batteries (alkaline recommended) *Both types can be used together			
Liquid	Kerosene, Diesel, Oil (500cP or less)	Oil(500cP or less)	Water	Oil(500cP or less)	Water
Connection Diameter (Insertion Tube Diameter)		Φ21.7)			
Temperature Range	Operation (°C)	-10~35 (Environment-dependent)			
	Storage (°C)	-40~80 (Environment-dependent)			
Operating Humidity (%)		35~85 (Condensation-free)			
Dimensions(Φ × mm)		80×120(Display section) 22×300(Float)		65×500(L360)	
Wetted parts material	Main Unit	Body :PE/Float: PP Internal Gear: ABS Kevlar thread			
		SUS304/PTFE			
Weight (kg)		0.2		1.3	
				0.9	

Heating Jacket / Others

Heating Jacket

HTJ Series

Electric



Heating jacket for warming liquids and reducing viscosity.



HTJ-A-P
For 18L/Pail Cans



HTJ-C-100D
For 100L Drums



HTJ-HHD
For 200L Drums



HTJ-HP2D
For 200L Drums



HTJ-IBC2-90
For IBC Containers
(*Top cover optional)

- Fully covers container to retain heat
- Foldable for compact storage
- * Not for use with flammable liquids

Cuts liquid defrosting time in containers by half compared to water baths method, even in cold winter conditions. Improves work efficiency and productivity.

UV & Heat Protection Cover

COVER Series

For outdoor storage in cold or tropical regions
Protects containers from sun, rain, and wind



IBC Container Cover
IBC-COVER



Drum Cover
JD-COVER

- Open/close with hook-and-loop tape
- Blocks light and heat to prevent temperature rise



Product Installation Example

Drum Pump Head Cover
P-COVER

Gun Holder

GN-H



Mounting Image



- Keeps nozzle organized
- Easy installation with hex wrench
- Compatible with manual and auto-stop nozzles
- * Not for thick nozzles like ATPS-10
- Size (H/W/D): 73.2×51×70 mm
- Material: SUS (stainless steel)

* Vertical storage is possible with auto-stop guns, but may tilt if the hose retains excess liquid

Drum Pump Stand

D-STAND



Mounting image

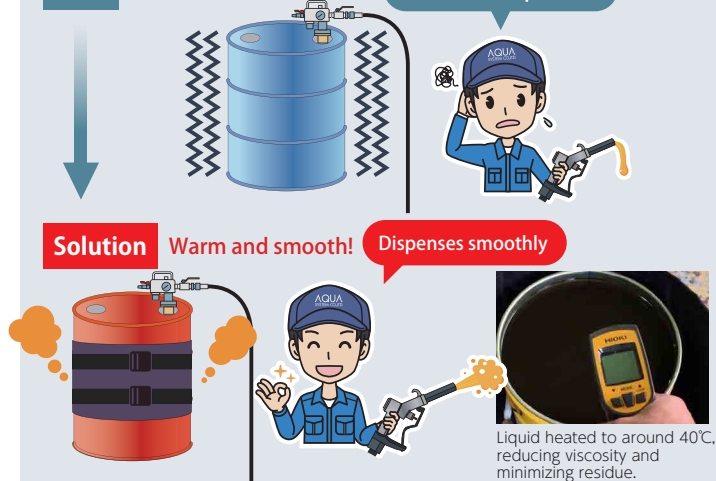
- Keeps suction pipe clean
- Drip tray prevents pump liquid drips
- Height adjustable
- With hose hook
- Material: SUS (stainless steel)
- Size (H/W/D): 520×410×996 mm

Solving the issue with a heating jacket

Heating reduces viscosity, enabling smoother discharge.

Issue Hardened and stuck...

Hard to dispense

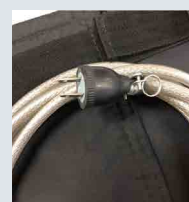


Liquid heated to around 40°C, reducing viscosity and minimizing residue.

Key Features



Snug-fit band



Standard 100V plug



Integrated thermostat with temperature control



Insulating black polyurethane-coated nylon



Compact foldable design

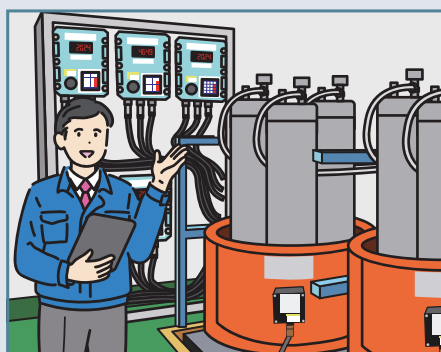


IBC top cover (optional)

Explosion-proof heating jacket for hazardous areas: Case Study

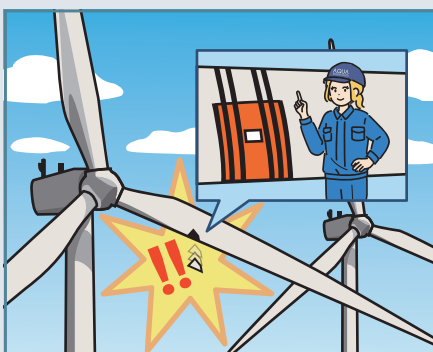
Orange jacket for safe use in explosion-proof areas. Designed for hazardous zones to solve on-site challenges.

Custom models are available



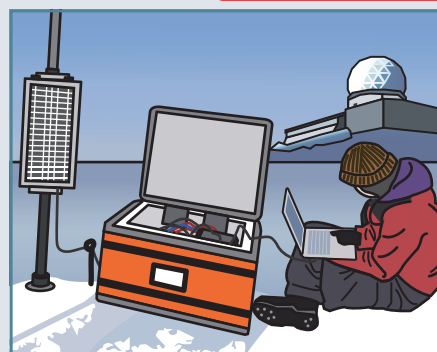
Container for semiconductor use

Installed at container base to prevent gas blockage from cooling and improve temperature control and productivity



Wind turbine blade







Heating jacket shortens bonding time when repairing large wind turbine blades.



Monitoring Equipment in Cold Regions

Heated to shorten startup time and ensure smooth operation in snowy, cold environments.

HTJ Series Specifications

No.	1	2	3	4	5	6	7	8	
Image									
Model	HTJ-A-P	HTJ-B-50D	HTJ-C-100D	HTJ-D-200D	HTJ-HHD	HTJ-HP2D	HTJ-IBC1-40	HTJ-IBC2-90	
Recommended Container	20L Pail 18L Can	50L Drum	100L Drum	200L Drum			IBC Container		
Standard Capacity (L)	25	50	100	210			1,000		
Circumference (mm)	870-1,020	1,100-1,250	1,400-1,650	1,800-1,950			4,060-4,310		
Height (mm)	400	460	370	440	850		950		
Power Supply (V)	100								
Power (W)	200	250	400	450	1,100	2,060(1,030×2)	1,400	2,800(1,400×2)	
Integrated Thermostats Temperature (℃)	0~90					0~160		-5~40	0~90
Outer Covering Material	Polyurethane-coated nylon (black)					Silicone-coated fiberglass cloth	Polyurethane-coated nylon (black)		
Internal Insulation Material	Polyurethane-coated nylon (black)				Silicone-coated fiberglass cloth				
Power Cable (m)	5								
Weight (kg)	2		3		6	8	11	15	

*The set temperature refers to the internal heating wire temperature. Liquid inside the container will not reach this temperature.

*HTJ-IBC1-40 and HTJ-IBC2-90 come with fall prevention hooks

Chemical Resistance Table

● indicates compatibility. Please refer to the product details on the listed page.

Chemical	Organic Solvent																	Acids and Alkalis										Others					
Series Model <div>Air Electric Manual </div>	Reference page	Acetone (Compatible with EPDM)	Isopropyl Alcohol (IPA)	Ethanol (Ethyl Alcohol)	Ethylene Glycol	Xylene (Xylol)	Dimethylformamide	Diethylene Glycol	Thinner	Trichloroethylene (Trike)	Toluene	Hexane	Formalin (Formaldehyde)	(Methylene chloride) Dichloromethane	Methanol (Methyl Alcohol)	Methyl Isobutyl Ketone (MIBK)	"Methyl Ethyl Ketone (MEK)	Sodium Chloride (Table Salt)	Hydrochloric Acid (Concentration 30%)	Hydrogen Peroxide (Concentration 30%)	Hydrogen Peroxide (Concentration 90)	Citric Acid	Ethyl acetate, butyl acetate, methyl acetate	Sodium Hypochlorite (also known as bleach)	Nitric Acid (concentration 30)	Sulfuric Acid (caustic soda, concentration 50)	Sulfuric Acid (concentration 30) (diluted sulfuric acid)	Antifreeze (coolant fluid)	Bio diesel (BDF)	White gasoline	Water (non-potable)		
APD-20AS(N) 25AS(N) ※EPDM with gasket	8	*1	●		●	●		●			●	●			●		*1							*1					●	●			
APD-20SUS(N)	8	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●				●	●		●		●	●		●	●	●	●	
APDS-25(32) SUS、APDS-1(1.5) s	8	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●				●	●		●		●	●		●	●		●	
APDQ1-25AS	10		●		●	●		●			●	●			●															●			
APDQS-25(32) SUS	10	●	●	●	●	●		●	●		●	●	●		●						●					●	●		●	●		●	
APDQS-1(1.5) s	10		●	●	●			●	●			●	●		●						●					●	●		●	●		●	
APDX1-25AS	10		●		●	●		●			●	●			●														●	●			
CHD-20APP(V)	12																			●					●							●	
CHD-20AHP(V)	12																		●	●	●	●		●	●	●	●					●	
CHD-20APP(HP) N	12																				●					●						●	
CHD1-20ASUS(N) (V)	12	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●			●	●			●		●	●		●	●	●	●	
DF4(6) D-20(AS)	12	●	●		●	●		●			●	●	●		●	●	●			●				●					●	●	●		
PST-20SUS/DF6D-20SUS	12	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●			●	●			●		●	●		●	●	●	●	
ACH(SUS)	14					●																							●			●	
AMVH(SUS)	14		●		●	●				●	●	●																	●		●	●	
AMH1(SUS)	14	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●			●	●		●		●	●		●	●	●	●	●	
CHD-20PP(V)	18																			●					●							●	
CHD-20HP(V)	18																		●	●	●	●		●	●	●	●					●	
CHD-20PP(HP) N	18																				●					●						●	
CHD1-20SUS(N) (V)	18				●			●		●			●	●	●					●					●	●		●	●	●	●	●	
EMM-25PP	18																									●						●	
EMM-25SUS	18		●	●	●	●		●		●	●	●	●	●	●											●	●		●	●	●	●	
SHC-100	18	●			●	●		●			●		●			●	●				●	●							●	●		●	
HRD-25SUS(H) (HM)	24	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●			●	●		●		●	●		●	●	●	●	●	
HRP-25 III (H) (HM)	24	●	●	●	●	●			●		●	●	●	●	●	●	●			●				●		●	●		●	●	●	●	
HRP-25Z(M)	24		●	●	●			●	●				●		●				●	●	●	●		●		●	●	●	●			●	
S-LX(HS)	24	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●				●	●		●		●	●		●	●	●	●	
AVC-550SUS	28																												●			●	
APPQO400AS	30				●			●																					●	●			
APPQO-HAS、APPQOAS、APPQAS	34		●		●			●				●																	●	●			
P-SX	36	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●				●	●		●		●	●		●	●	●	●	
P-SXT	36	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●	●	●	●	●	●	●		●	●	●	●	
MH21N-V	36							●											●	●			●		●	●	●	●	●			●	
MH316M-V	36				●			●		●				●							●					●	●		●	●		●	
APP-C1-SUS	36		●	●	●	●		●		●	●	●	●	●	●					●	●				●	●		●	●			●	
MH21NA-V	36							●											●	●		●			●	●		●				●	
MH316MA-V	36	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●				●			●		●	●		●	●	●	●	
DF4P-15AS	36	●	●	●	●	●		●			●	●	●		●	●	●				●								●	●			
DF4P-15SUS	36	●	●	●	●	●		●	●		●	●	●	●	●	●	●				●	●				●	●		●	●	●	●	
SP-40(50)(L40)(L50)、ND-40(50)	54	*1	●	●	●	●		●	*2	●	●	●				*2	*1				●	●		*1		●	●		●	●	●	●	
DMY-20(100)(150)(200)(250)DMN-30	54	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●				●	●		●		●	●		●	●	●	●	
GN-ALT20(25)	56	●	●		●	●		●		●	●	●	●		●	●	●				●	●		●					●	●			
GN-PP20(25)	56							●																		●	●			●	●		●
GN-SUS20(25)	56	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●				●	●		●		●	●		●	●	●	●	
GN1-POM20(25)	56			●	●																								●			●	
ATNH-20T(25T)	56	●	●		●	●					●	●	●			●	●	●						●						●			
ZKT-D(P)-W	65				●			●		●				●							●					●	●			●			

*1. It can be used by specifying EPT/EPDM. *2. It can be used by specifying PTFE.

Kinematic Viscosity Compatibility Chart

The higher the value of viscosity (kinematic viscosity), the greater the thickness.
For oil, as the temperature increases, the viscosity decreases, and as the temperature decreases, the viscosity increases.

Unit: [cSt] [mm²/s (square millimeters per second)]

ISO-VG	SAE*1		0℃	5℃	10℃	15℃	20℃	25℃	30℃	35℃	40℃
	Engine oil*2	Gear oil									
1500	—	250	—	—	—	14, 000	8, 000	5, 000	3, 100	2, 200	1, 500
1000	—	—	—	—	14, 000	8, 000	5, 000	3, 100	2, 100	1, 500	1, 000
680	—	140	—	14, 000	8, 000	5, 000	3, 000	2, 100	1, 400	950	680
460	—	—	14, 000	8, 000	4, 800	3, 000	1, 900	1, 100	900	620	460
320	60	90	9, 500	5, 500	3, 300	2, 100	1, 400	900	650	—	320
220	50	—	5, 500	3, 200	2, 200	1, 300	900	600	420	—	220
150	40	85W	3, 200	2, 000	1, 250	800	550	380	280	—	150
100	30	80W	2, 000	1, 200	800	500	350	250	180	—	100
68	20	55W	1, 100	650	440	300	210	150	130	—	68
32	10	—	400	260	180	125	90	70	53	—	32

- *1 1 Since the SAE grade has a wide viscosity range, it is matched with the highest viscosity ISO grade.
*2 How to interpret the viscosity of multi-grade oils:
Example: When engine oil is 5W-30, the "30" indicates the viscosity.
The "30" in SAE engine oil corresponds to ISO-VG 100, with a viscosity of 350 cSt (mm²/s) at 20℃.

To convert Kinematic Viscosity (cSt) to Dynamic Viscosity (cP).

Our pumps specify the maximum permissible viscosity in cP (centipoise).
cP can be obtained by multiplying the kinematic viscosity (cSt) by the specific gravity.

Formula:

$cP=cSt\times\text{Specific Gravity}$

The specific gravity of lubricating oils and engine oils typically ranges from 0.80 to 0.90. Examples of conversions are as follows:

Conversion example 1: Oil with ISO-VG 68 (at 20℃)	Conversion example 2: 10W-40 engine oil (at 15℃)
If the specific gravity is 0.8 → 210 (cSt) × 0.8 = 168 cP If the specific gravity is 0.9 → 210 (cSt) × 0.9 = 189 cP → The viscosity will be approximately 168 to 189 cP.	SAE grade "40" viscosity at 15℃ → 800 cSt If the specific gravity is 0.8 → 800 (cSt) × 0.8 = 640 cP If the specific gravity is 0.9 → 800 (cSt) × 0.9 = 720 cP →The viscosity will be approximately 640 to 720 cP

Verify the oil's viscosity grade and liquid temperature, then select the appropriate pump accordingly

Viscosity Compatibility Chart by Model (series)

Viscosity Range(cP)	Air	Electric	Manual
<20,000	PST P.12	—	—
<10,000	APP-C1 P.36		S-L/S-LX P.24 /P-S P.36
<5,000	APPQ0-H P.34 /ADO P.42	EVC-550 P.30 EDO P.42	HDO (1) P.40
<4,000	APDS P.8 /APDQS P.10 /DF (G) P.12		
<3,000	APD P.8 APDQ1/APDX1 P.10 APPQ0550/APPQ0600 AVC-550SUS/APPQ0-HP2 P.28 APPQ0400 P.30		
<2,500	DF (AS/SUS) P.12		
<2,000	AMH1 P.14		
<1,500	AMVH P.14	EV (100/200/12) P.16	HR/HRF-1000/ERF-20B HRD-25SUS/HRP-25 III P.24
<1,000	APPQ0/APPQ P.34	EV (100H) P.16	
<500	APDQ0-F/J-F P.26	EMH P.16	
<100	CHD (1) -20A P.12 MH P.36	CHD (1) -20 P.18 /MH P.36	
<80		SFC/SHC-100 P.18	
<50		EMM P.18	
<10	ACH P.14		

*Pumps for kerosene and diesel are excluded.

Technical Information

Glossary and unit details
frequently used in the catalog.

Customer Q&A is available on our website!



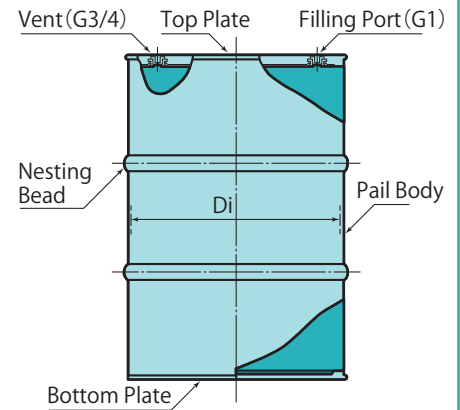
JIS Drums

JIS Drums Excerpt Table 1

Type	Nominal Capacity (L)	Inner Diameter (mm) Di		Nesting Bead (mm)	Capacity (L)
		Value	Tolerance		
Type 1	200	567	±3	Above 7	212.0
Type 2	120	450	±3	Above 5	123.6
	100				103.0
Type 3	80	390	±3	Above 3	82.4
	60				61.8
	50				51.5

JIS Drums Excerpt Table 2

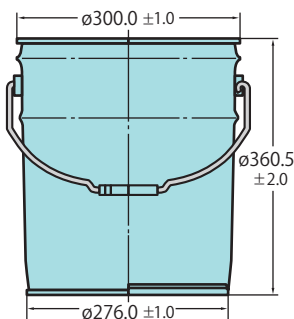
Type	Subdivision				
	Grade H	Grade M	Grade LM		Grade L
			Body	Top & Bottom Plates	
Type 1	1.6	1.2	1.2	1.2	1.0
Type 2	1.2	1.0	1.0	1.0	0.8
Type 3	1.0	0.8	0.8	0.8	0.6



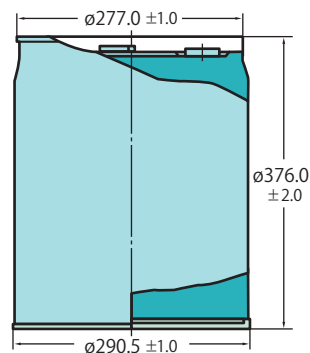
*Resin-lined or resin drums are considered non-standard.

Pail Can

Open Pail Can (20L)

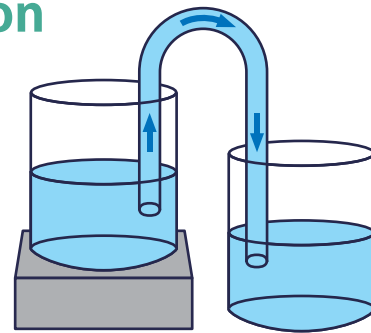


Closed Pail Can (20L)



*If resin-lined, considered non-standard.

Siphon



Used to move liquid from a drum to a lower container (e.g., pail can) by passing over a higher point. If the drum is positioned higher than the destination container, the liquid flow creates a vacuum in the tube, allowing the liquid to be drawn up and continue flowing naturally.

Discharge Volume / Head

The height a pump can raise fluids such as water.

The actual head is the height from the suction water surface to the discharge water surface. Adding the head losses in the suction and discharge pipes, plus the velocity head of the discharged water, gives the total head.

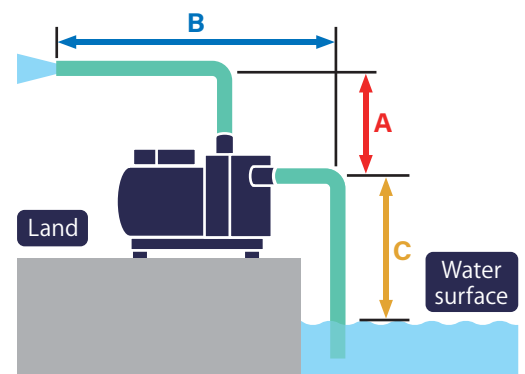
Total Head (m):

Height from water surface to the end of the discharge hose or pipe.

Simple Calculation:

Height from surface to outlet + total head loss

Formula: $A + C + (A + B + C) / 10 = \text{Total Head}$



Aqua System is a trusted pump manufacturer, committed to supporting your needs with reliability and proximity.



Since our founding in 1957, we have embraced the motto “Little head, great wit,” and as a specialized pump manufacturer, we have developed a wide range of products to meet diverse liquid handling needs—from kerosene and diesel to oil and solvents. We strive to develop future-oriented products that delight our customers, backed by our extensive know-how and reliable technology.

■ Corporate Philosophy

- Let's enjoy creating useful products together
- Let's bring joy to everyone
- Let's make everyone happy

With these as our guiding words, we strive for a better life for people around the world and harmony with the global environment.

■ Company Overview

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■ Overseas Subsidiaries

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■ Product Development



■ ISO Certified

We aim to contribute to the global society by delivering optimal products and information that earn customer trust and satisfaction. We are committed to continuous quality improvement and strict daily management to ensure safety and reliability.



■ SDGs

We are a participant in DHL's GoGreen Plus program, contributing to CO₂ reduction in transportation.

Product Inquiry Form

FAX +81-749-23-9122

Year Month Day

Company Name		Address	
Department/Section		Contact Person	
TEL		FAX	

● Liquids (★ Fields are mandatory.)

Liquid Name ★		Liquid Temperature	°C
Viscosity	cP (°C)	Manufacturer Name	
Foreign Substance Contamination:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Concentration	% pH
Container Material	<input type="checkbox"/> Iron (Steel) <input type="checkbox"/> Stainless Steel <input type="checkbox"/> Resin	Corrosion Resistance	<input type="checkbox"/> AL <input type="checkbox"/> SUS <input type="checkbox"/> NBR <input type="checkbox"/> PVC <input type="checkbox"/> FKM <input type="checkbox"/> PTFE

● Desired Conditions (★ Fields are mandatory.)

Power Source ★	<input type="checkbox"/> Manual <input type="checkbox"/> Air <input type="checkbox"/> Electric (100V ・ 200V ・ 12V ・ 24V) <input type="checkbox"/> No Preference		
Desired Product Name (if applicable)			
Application ★	<input type="checkbox"/> Transfer liquid from a drum to another location <input type="checkbox"/> Collect liquid into a drum Type of Drum Can (Open / Closed)		
	<input type="checkbox"/> Transfer liquid from (Pail Can / 18L Can) to another location <input type="checkbox"/> Collect liquid into (Pail Can / 18L Can) Type of (Pail Can / 18L Can) (Open / Closed)		
	<input type="checkbox"/> Other : Transfer liquid from () to ()		
	Installation Method	<input type="checkbox"/> Fixed Type <input type="checkbox"/> Mobile Type	
For Electric Operation (Mandatory if the power source is electric) ★	Explosion-Proof	<input type="checkbox"/> Required <input type="checkbox"/> Not Required	
	Wiring	<input type="checkbox"/> Required (Mobile Type / Outlet) <input type="checkbox"/> Not Required	
	Switch	<input type="checkbox"/> Required (Explosion-Proof / Non-Explosion-Proof) <input type="checkbox"/> Not Required	
Installation Method	Connection Type	(Hose / Piping)	
For Air Operation	Presence of Compressor	<input type="checkbox"/> Yes (HP) <input type="checkbox"/> No	
Head ★	Suction : (m)	Discharge : (m)	
Horizontal Transfer ★	Suction : (m)	Discharge : (m)	
Discharge Flow Rate	Require approximately (ℓ /min)		
Installation Location	<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor <input type="checkbox"/> Other ()		

● Other

【Kindly provide detailed information, including drawings or diagrams, application, pump connection, and overall system layout.】

To facilitate smooth pump selection and reduce response time, please provide as much information as possible.

AQUASYSTEM CO.,LTD.

As a comprehensive manufacturer of drum pumps, we will select the most suitable pump for your needs.

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