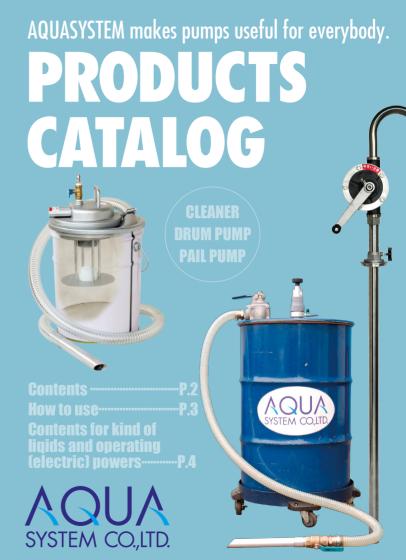
# http://en.aqsys.co.jp

# AQUASYSTEM Co., Ltd. JAPAN



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### **AQUASYSTEM Co., Ltd.**

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			Туре	Cueling		Air Type	Discharge			Electric Typ Discharge	
Cons			harge	Sucking	Davas	SUCKING /	Discharge				_
Cans			um	Drum	Drum		Others			Drum	
Viscosity	(0)		dium	Medium	Medium	Low	Mec			Low	
	Sp. Gravity	APD-20SUS(N)-i	DF6D-20SUS-i	APDQ-25AS-i	APDX-25AS-i	ACH-20SUS-i	AMVH-20SUS-i	AMH1-20SUS-i	CHD-20PP	CHD-20HP	CHD-20SUS
Acetone	0.79	•	•					•			
Ammonia water	0.68	•	•			•	•	•			
Isopropyl alcohol	0.79	•	•	•	•		•	•			
Ethyl alcohol	0.79	•	•				•				
Ethylene glycol	1.1	•	•	•	•		•	•	•	•	
Sodium chloride	2.17							•			•
Methylene chloride	1.32	•	•								
Hydrochloric acid											
Denity: 10-30	1.19										•
Hydrogen peroxide											
Density: 3	1.13	•	•					•	•	•	
Density: 20	1.13	•	•					•	•	•	
Density: 5/Temp. 50C	1.13	•	•					•	•	•	
Density: 90	1.13	•	•					•			<u> </u>
Gasoline	0.73	•	•	•	•			•			
Kylene	0.88	•	•	•	•	•	•	•			<u> </u>
Citric acid	1.54										•
Glycerin	1.27	•	•	•	•	•	•	•			
Chloroform	1.14	•	•	-	-	-	•	•	•	•	
Diesel oil	0.8-0.89	•	•	•	•	•	•	•	•	•	-
Kerosene	0.78-0.84	•	•	•	•	•	•	•	•	•	
*Acetic acid	0.10 0.01		-	-	-	-	-	-	-	-	-
Density: 10-50	1.7	•	•				•	•			
Ethyl acetate	0.9	-					-	•			-
Methyl acetate	0.9		•					•			
Hypochlorous acid	0.3		-					-			
Sodium hyprochlorite	1.15										•
Diethylene glycol	-	•	•	•	•			•			-
Dimethylformamide	0.93		•	-	-			•			
Nitric Acid (Density:10)	1.5	•	•					÷	•	•	•
Nitric Acid (Density: 10)	1.5	•	•					•	•	•	•
*Sodium hydroxide	1.0	•	•					•	•	•	-
Density: 10-50	2.13	•	•					•			-
Triethanolamine	1.12		•					•			
		•	•	•	•			•			
Trichloroethane Trichloroethylene	1.33 1.46		•	•	•		•	•	•	•	
	0.88		•	•	•		•	•	•	•	
Foluene			•				•	•			<u> </u>
Naphtha Bia Diseal	0.76		•	•	•			•	•	•	
Bio-Diesel	0.8-0.84		•	•	•			•	•	•	
Perchloroethylene	1.622		•	•	•			•	•	•	-
Butyl alcohol	0.81		-	•	•		•	-			
Propanol alcohol (Density 65)	0.8	•	•					•			
Hexane	0.67	•	•	•	•		•	•			-
Benzyl alcohol	1.04		•				•	•			
Benzene	0.88	•	•	•	•		•	•			L
Formaldehyde	1.08-1.11	•	•				•	•			
Water	1	•	•			•	•	•	•	•	•
Methyl alcohol	0.79	•	•	•	•		•	•			
Methyl isobuthyl ketone	0.8		•					•			
Methyl ethyl ketone 'Sulfuric acid	0.8		•					•			
			1	1			1		1	1	1

# How to use

# ANNOUNCEMENT

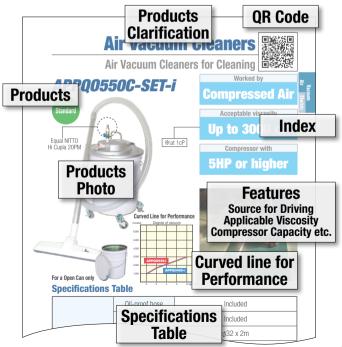
Please be noted that

1. All of our product models have been marked with "EX"(= Export) at the end.

This "E" mark is, however, to be changed to "-i" (= International) at the end.

2. All of specifications and qualities of our products remain unchanged.

This announcement shall be effective on Sep. 1, 2016.



	Туре	Oil	Kerosene, Light Oil	Gasoline	Solvent	Acid/Alkaline	Water	Ad Blue	Other	Model	Page
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ucts	Air	•								APDQO-F series	8
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_			٠		•					ACH series	28
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ole, H		٠	٠		•					AMH1 series	30
ose	Air	٠	•							DF series	31
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lectic					•					DF2A-6PP-i	31
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모		•	•							HR-2B-i	32
Drum		•	•							HF-1000-i	32
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	Туре	Oil	Kerosene, Light Oil	Gasoline	Solvent	Acid/Alkaline	Water	Ad Blue	Other	Model	Page
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le, Hos	Electric		•							EVP-56-i series	36
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#### **Specifications Table**

Тур	bes	CHD-20APP-i	CHD-20AHP-i	CHD-20ASUS-i
Acceptal	ole liquid	Acid and Alkaline liquid	Acid and Alkaline liquid	Solvents
Max. Visc	osity (cP)	100	100	100
Max. delivery	rate (L/min)	50	50	40
Materials	Body	PP	HP	SUS
IVIALEI IAIS	Hose (m)	PVC, 2	PVC, 2	SUS, 2
Air consump	otion (L/min)	760	760	760
Comp	ressor	Higher than 5	Higher than 5	Higher than 5
Weigh	nt (kg)	2.5	2.7	5.0

Worked by

**Discharge Head** 4m Max.

Gun Nozzle

· HP means "High Purity Polypropylene".

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### **Specifications Table**

Тур	Des	CHD-20PP-i	CHD-20HP-i	CHD-20SUS-i
Acceptat	ole liquid	Acid and Alkaline liquid	Acid and Alkaline liquid	Solvents
Max. Visc	osity (cP)	100	100	100
Max. delivery	rate (L/min)	55	55	45
Materials	Body	PP	HP	SUS
Materials	Hose (m)	PVC, 2	PVC, 2	SUS, 2
Curre	nt (A)	1.7	1.7	1.7
Volta	ge (V)	100	100	100
Pov	wer	170	170	170
Weigh	nt (kg)	2.5	2.8	5.0

HP means "High Purity Polypropylene".



# **Air Type Cleaner(with the filter) for tank cleaning**

Simple Filtering System / Cutting Liquid Recycling

\*A drum can is separately sold.





can be



It is filtered and cleaned, and then you can reuse it.



completely	collected	within 3	min,	and	dischr	ged
	wi	thin 2 mir	1 I			

#### **Specifications Table**

Types	APDQ0-FS-i	APDQO-FF-i			
Applicable oils	Cutting Liquid, Oil, Kerosene				
Max. Discharging Volume (L/min)	140				
Max. Sucking Volume (L/min)	110				
Discharge Head (m)	2	.5			
Weight (kg)	38.5	36.5			

eic.

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To keep job clean & easy, reducing 50% working time.

# **Industrial Vacuum Cleaners**



Compressed Air

Float bal

#### Mechanism of Suction

- 1. Supply the air compressed at 0.4~0.6Mpa.
- 2. Compressed air goes out through the elector with high speed.
- 3. Air inside tank is discharged by vacuum force made by eiector.
- 4. The pressure inside the tank becomes minus pressure.
- 5. Dust or liquid can be sucked through a nozzle.
- 6. When the tank becomes full of liquid, the float ball shuts the spout of sucking air. Then, cleaner stops working.



# **Air Vacuum Cleaners**



Industrial Air Vacuum Cleaners for Pail Can





Worked by

#### Carrier For Pail Can **Specifications Table**

Holder For Pail Can

AVC-55PC:with Pail Can, Carrier

Economica

Type

	Oil-proof hose	¢32 x 2m		
	Aluminium nozzle	¢32 x 30cm		
Specifications at 5Kg / cm	Air consumption amount	520 / min		
	Vacuum degree	2,600mm / H <sub>2</sub> 0		
	Air suction amount	1.7m <sup>°</sup> / min		
Application	Oil stopper	Included		
Application	Filter	Option		
Opt	tion	Can, Carrier, "T" type nozzle, Filter set		

For Open Can Only Simply remove top plate of standard pail can (for oil), then it can be a Open Can. This is a pail can of which

all top plate can be removed (upper cover of a can)



# 🔠 Air Vacuum Cleaners

Industrial Air Vacuum Cleaners for Pail Can



#### **Specifications Table**

Moo	dels	APPQ0400-i	APPQ0550-i
	Oil-proof hose	¢25 x 2m	¢32 x 2m
Creations at	Aluminium nozzle	¢25 x 30cm	¢32 x 30cm
Specifications at 5kg / cm	Air consumption amount	340 / min	520 / min
ong / uii	Vacuum degree	2,600mm / H <sub>2</sub> 0	2,600mm / H <sub>2</sub> 0
	Air suction amount	1.1㎡ / min	1.7m³ / min
Application	Oil stopper	Included	Included
Application	Filter	Option	Included
Opt	ion	Can, Carrier, "T" ty	pe nozzle, Filter set
Compore	ssor (HP)	3	5

We have "APPQ0400G" for kerosene and oil, "APPQ0400AS" for solvents.

# **Air Vacuum Cleaners**



Air Vacuum Cleaners for Cleaning







Curved Line for Performance





Simple and Economical type.

**Option** 



For details of "APPQOC-550SET-i" and "APPQ0550S" refer to specification table of "APPQ0550"

T-Type Nozzle

Onen oil can

Pail can carre



# **Air Vacuum Cleaners**

Air Vacuum Cleaners (Stainless) for Cleaning







#### **Specifications Table**

	Oil-proof hose	¢32 x 2m		
	Aluminium nozzle	¢32 x 30cm		
Specifications at 5kg / ៣	Air consumption amount	520 / min		
ong / om	Vacuum degree	2,600mm / H <sub>2</sub> 0		
	Air suction amount	1.7m³ / min		
Application	Oil stopper	Included		
Application	Filter	Included		
Op	tion	Can, Carrier, "T" type nozzle, Filter set		

# **Electric Pail Vacuum Cleaner**



=

Cleaner for A Pail Can Worked by EVC-550-j **AC220V** Acceptable Viscosity Up to 3000 cP "EVC-550SET-i"is includes the options. **Option** -Type Nozzle For Open Can only

#### **Specifications Table**

Output (W)	1,050
Current (A)	11
Vacuum degree (Mpa)	0.21
Noize (db)	90 (No load, 1m height)
Hose size	Φ32 × 2m
Electoric cord	5m (with earth grip)
Weight (kg)	9.2
Option	Can, Carrier, "T" type nozzle, Filter set

<u>, na s</u> i	a Air	<b>Vacuum</b>	Pumne	
	5			0
		'ype Vacuum F		
APP	<b>10-i</b>			Vorked by
<ul> <li>We have "APPQOG" f</li> </ul>			Comp	ressed Air
kerosine and "APPQOAS"	d oil,		Accep	table Viscosity
solvent.			Up to	1000 cP
	//		Com	pressor with
			1HP	or higher
	K	1	2	
Specific	ations	Table		
Moo	dels	APPQO-i	APPQOG-i	APPQOAS-i
Cont	ainer	Open Pail Can	Open Pail Can	Open Pail Can
Acceptal	ole liquid	Oil	Kerosene,Light Oil	Solvents
Suction Am	ount (L/min)	60	60	60
Oil-Pro	of Hose	PVC φ25×2m	Oil-Proof PVC $\phi$ 25×2m	PP φ25×2m
Martin	Body		Aluminum	
Materials	Packing	NE	3R	Florine
Weigh	nt (Kg)	4.9	5.2	4.8

High Vacuum Pump for Pail Can Worked by APPQO-H-i **Compressed Air** High Acceptable Viscosity Vacuum Up to 5000 cP • We have "APPQO-HG" for kerosine and oil. "APPQO-Compressor with HAS" for solvents. **5HP or higher** For SUS Can only

Air Vacuum Pumps

#### **Specifications Table**

Models		APPQO-H-i APPQO-HG-i		APPQO-HAS-i			
Cont	ainer	Open Pail Can	Open Pail Can	Open Pail Can			
Acceptal	ole liquid	Oil	Kerosene,Light Oil	Solvents			
Suction Am	ount (L/min)	80	80	80			
Oil-Pro	of Hose	PVC ¢25×2m	Oil-Proof PVC φ25×2m	PP φ25×2m			
Materials	Body		Aluminum				
IVIALEITAIS	Packing	NE	3R	Florine			
Weigh	nt (Kg)	6.0	6.0	4.0			

Vacuum

r Vacuui



# **Air Cyclone Cleaners**

Air Type Cyclone Cleaners for Pail Can



#### **Specifications Table**

<u> </u>							
Mo	dels	APPQO-CY25-i	APPQO-CY32-i				
Cont	ainer	Open Pail Can	Open Drum Can (100L)				
Acceptal	ble liquid	-	-				
Oil-Pro	of Hose	¢25×2m	¢32×2m				
Materials	Body	AL, SUS, SPHC	AL, SUS, SPHC				
IVIALEI IAIS	Packing	CR rubber	CR rubber				
Weigh	nt (kg)	6.5	6.3				

· You need to use Top Plate for 100L Drum Can

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- · Collection ratio for dusts and powders: Better than 98%(according to our test
- · No static electricity ploblem with a

# **Air Vacuum Pail Pumps**

Air Type High Power Vacuum Cleaner

APPQO-HP2-i

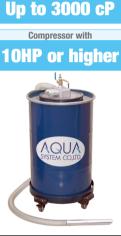


- Collection power is 150% more powerful than existing APPQ0550.
- · Powerful collection into drum can.
- · Drum Can, Top Plate, Drum Can Carrier are options.

### **Specifications Table**

Mo	dels	APPQO-HP2-i	
Acceptable liquid		Oil	
Suction Amount (L/min)		150	
Oil-Pro	of Hose	¢38×2m	
Materials	Body	AL, SUS, SPHC	
IVIALEITAIS	Packing	NBR	
Weigł	nt (kg)	6.0	

You need to use Top Plate for 100L Drum Can



Worked by

**Compressed Air** 

Acceptable Viscosity

# **Pail Pumps Options**

# **Cleaner Options**

		Types	AVC - 55	AVC-55PC	APPQ 0400-i	APPQ 0550-i	APPQ.0550C-i-SET	APPQ0550S-i	APPQO-HP2-i	AVC-550SUS-i	EVC-550-i	EVC550 C-SET-i	APPQO-CY20-i	APPQO-CY32-i	A P P Q O - i	APPQO-H-i
	А	Main Nozzle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	В	Square Nozzle	•	•	-	•	•	-	•	•	•	•	-	-	-	-
Acc	С	Open Pail Can 🧊	-	•	-	-	•	-	-	-	-	•	-	-	-	-
Accessories	D	Pail Can Carrier 🛛 🕂	-	•	-	-	•	-	-	-	-	•	-	-	-	-
ries	Ε	T Type Nozzle	-	-	-	-	٠	-	-	-	-	•	-	-	-	-
	F	Filter Set 🛛 🌏	-	-	-	•	•	-	•	•	•	•	•	•	-	-
	G	Oil Stopper 🛛 🍧	•	•	•	•	•	-	•	•	•	•	-	-	•	•
	А	Main Nozzle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	В	Square Nozzle	•	•	-	•	٠	•	٠	•	•	•	-	-	-	-
	С	Open Pail Can 🏼 🧊	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	D	Pail Can Carrier 🛛 🕂	•	•	•	•	٠	•	٠	•	٠	•	•	•	•	•
	Ε	T Type Nozzle	•	•	-	•	•	•	•	•	•	•	-	-	-	-
	F	Filter Set	•	•	•	•	•	•	•	•	•	•	•	•	-	-
	G	Oil Stopper 🛛 🍧	-	-	•	•	•	•	•	•	•	•	-	-	•	•
_	Н	Closed Pail Can	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Option	Ι	Nozzle With Socket 🦯	•	•	•	•	•	•	-	•	•	•	-	-	•	•
1	J	Brush Nozzle	٠	٠	-	•	•	•	-	•	•	•	-	-	-	-
	Κ	Silencer	•	•	•	•	•	•	-	-	-	-	-	-	-	-
	L	Pail Can Holder 🧠	•	•	•	•	•	•	-	-	-	•	•	•	•	•
	М	Sus Can	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Ν	Top Plate 100L	•	•	-	٠	•	•	•	•	•	•	•	•	-	-
	0	Top Plate 100LImage: Colorador of the second se	•	•	-	•	•	•	•	•	•	•	•	•	-	-
	Р	Drum Can Carrier 🛛	•	•	-	•	•	•	•	•	•	•	•	•	-	-
	Q	Drum Can 200L 🛛 🧧														

# You can change "Pail Can Pumps" to "Drum Can Pumps" if you use the options.





# Manual Pumps

Drun Air



# Worked by **Manual, Piston Acceptable Viscosity** Up to 10,000 cP

Use: To supply for working oil to the NC lathe. To subdivide brake oil, engine oil, mission oil



#### **Specifications Table**

	Types	P-S-i	P-SX-i	P-SXT-i
Ac	cceptable liquid	General oil, Diesel, Kerosene	Solvent, Acid / Alkaline liquids	Solvent, Acid / Alkaline liquids
Materials	Body & Connecting Parts	Steel	SUS304	SUS316
erials	Packing	Nylon	Teflon	Teflon
	Hose	PVC	Teflon	Teflon
	Operated by		Hands & Piston	
Weight (kg)		1.0 1.0 1.		1.0
Option Pail can (close type)				



#### **Specifications Table**

	Types	APD-R-i
	Function	Delivery
	Acceptable	General oil
Durla	Body	AL
Parts materials	Packing	Fluoro-Rubber
materialo	Hose	PVC (D25x2m)
Max.	1cP	65
delivery	500cP	30
rate (L/min)	1000cP	15
Ma	ax. Discharge Head	2m
	Weight (kg)	4.4



# **Air Pressure Drum Pumps**

Pneumatic Pump for Drum Can Safe, Efficient, Silent And Durable





#### **Drum Can Inlet's Shape**



APD series utilize closed drum cans.

#### **Specifications Table**



#### **Nozzle type**



PVC Hose

Oil resistant rubber Hose





**Delivery Mechanism** 

the nozzle.

safety valves, pressure gauges.

No maintenance is required.

1. Compressed air of 0.1~1 MPa is let in.

2. Regulator is set to decompress air to 0.05 MPa. Decompressed air enters into the drum can.

4. Air pushes the surface of the liquids inside of the can.

The pushed liquid enters into the suction pipe.

6. Liquid enters into the hose and goes out through

APD series are very safe because they have regulators.

Air

APD-20(25)-i APD-20(25)N-i APD-20(25)G-i APD-20(25)GN-i APD-20(25)AS-i APD-20(25)ASN-i APD-20SUS-i APD-20SUSN-i Types Function Deliverv Deliverv Deliverv Deliverv Deliverv Deliverv Deliverv Deliverv Acceptable General oil General oil Kerosene, Diesel, Gasoline Kerosene, Diesel, Gasoline Solvents Solvents Solvents, Acid and Alkaline liquids Solvents, Acid and Alkaline liquids AI SUS304 Body AI AI AI AI AI SUS304 Parts materials Fluoro-Rubber Fluoro-Rubber Fluoro-Rubber Fluoro-Rubber Teflon, Fluoro-Rubber Teflon, Fluoro-Rubber Packing Teflon, Perflu Teflon, Perflu Oil resistant rubber Oil resistant rubber PVC (D25(32)x2m) PVC (D25(32)x2m) SUS304 (D25(32)x2m) SUS304 (D25(32)x2m) SUS304 (D20x2m) SUS304 (D20x2m) Hose (D25(32)x2m) (D25(32)x2m) Max. rate 65 (150) 55 (115) 50 (70) 35 (115) 35 1cP 55 (80) 30 (70) 40 :. delivery e (L/min) 500cP 30 (60) 20 (40) 20 (45) 15 (30) 15 (30) 15 (30) 15 10 1000cP 15 (25) 9.5 (20) 7 (20) 7 (15) 6 (15) 6 (15) 5.5 5 Max. Discharge Head 2m 2m 2m 2m 2m 2m 2m 2m 7.8 7.6 Weight (kg) 4.4 (5.6) 4.3 (5.1) 5.6 (7.4) 5.3 (6.5) 5.3 (7.5) 4.9 (5.7)



# Air Vacuum Drum Pumps

Drum Air

**APDQ-25 series** 

Pump for Drum Can

Suction

Type

Air Drum



The biggest difference from other pumps is that this pump can accept most of foreign materials, as well as high viscosity liquid.

#### **Specifications Table**

-					
Types	Types		APDQ-25G-i	APDQ-25AS-i	
Functior	Function		Suction	Suction	
Acceptable I	iquid	General oil	Diesel Gasoline, Kerosine	Solvent	
	Body	AL	AL	AL	
Parts materials	Packing	NBR	NBR	Teflon, Fluoro-rubber	
	Hose	PVC (D32x2m) Oil resistant rubber (D25x2m)		SUS304 (D25x2m)	
Max. delivery rate (L / min)	1cP	80	50	50	
Max. Discharg	e Head	2m	2m	2m	
Weight (kg)		3.3 4.4		4.0	
Option		Drum can			



We apply newly designed adapter for easier fixing on a drum





Air Pressure & Vacuum Drum Pumps

The biggest difference from other pumps is, that you can switch either for sucking or discharging. Then this pump works for double roles.

#### **Specifications Table**

Types		APDX-25G-i	APDX-25AS-i	
Function			Delivery / Suction	
Acceptable liquid		Diesel Gasoline, Kerosine	Solvent	
Body	AL	AL	AL	
Packing	NBR	NBR	Teflon, Fluoro-rubber	
Hose	PVC (D32x2m)	Oil resistant rubber (D25x2m)	SUS304 (D25x2m)	
1cP	100 / 70	70 / 50	70 / 50	
500cP	45 / 50	25 / 35	25 / 35	
1000cP	20 / 30	10 / 20	10 / 20	
Head (m)	2.0			
Weight (kg)		5.7 5.3		
	Drum can			
	iquid Body Packing Hose 1cP 500cP 1000cP Head (m)	iquid         General oil           Body         AL           Packing         NBR           Hose         PVC (D32x2m)           1cP         100 / 70           500cP         45 / 50           1000cP         20 / 30           Head (m)         End	Delivery / Suction         Delivery / Suction           iquid         General oil         Diesel Gasoline, Kerosine           Body         AL         AL           Packing         NBR         NBR           Hose         PVC (D32x2m)         Oil resistant rubber (D25x2m)           1cP         100 / 70         70 / 50           500cP         45 / 50         25 / 35           1000cP         20 / 30         10 / 20           Head (m)         2.0           g)         4.3         5.7	

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# **Portable Type Pumps**

Recommendable for The Liquid of Low Viscosity



#### **Specifications Table**

Types		ACH-20AL-i	ACH-20SUS-i
Acceptal	ole liquid	Kerosene	Solvents
Max. visc	osity (cP)	5	5
Max. delivery	rate at 1cP (L)	50	50
Discharge	Head (m)	5	5
Matariala	Body	Aluminum	SUS
Materials	Packing	NBR	Fluorine
Weigh	nt (kg)	4.5	6.4
Compres	ssor (HP)	Higher than 5	Higher than 5

# **Portable Type Pumps**



Recommendable for The Liquids of Low and Medium Viscosity



#### **Specifications Table**

Types		AMVH-20FC-i	AMVH-20SUS-i
Acceptat	ole liquid	Kerosene, Oil	Solvents
Max. viscosity (cP)		1,500	1,500
Max. delivery	rate at 1cP (L)	45	45
Discharge	Head (m)	10	10
Materials	Body	FC, AL, SUS	SUS
IVIALEITAIS	Packing	Teflon	Teflon
Weigh	nt (kg)	7.8	9.7
Compres	ssor (HP)	Higher than 5	Higher than 5



Air htäl, helun

# **Portable Type Pumps**

Recommendable for The Liquids of Low and Medium Viscosity (Up to 2,000cP)



### **Specifications Table**

Тур	ies	AMH1-20FC-i	AMH1-20SUS-i
Acceptat	ole liquid	Kerosene, Oil	Solvents
Max. visc	osity (cP)	2,000	2,000
Max. delivery i	rate at 1cP (L)	32	32
Discharge	Head (m)	15	15
Materials	Body	Aluminum	SUS
waterials	S Packing Teflon		Teflon
Weigh	nt (kg)	7.2	8.8
Compres	sor (HP)	Higher than 3	Higher than 3



#### **Specifications Table**

Тур	Types		DF2A-6PP-i	DF6D-20G-i	DF6D-20SUS-i	DF4P-15G-i
Acceptable liquid		Kerosene Oil, Gasoline	Solvents	Kerosene Oil, Gasoline	Solvents	Kerosene Oil, Gasoline
Max. viscosity (cP)		4,000	1,000	4,000	2,500	3,000
Max. delivery	rate at 1cP (L)	50	40	50	35	40
Discharge	Head (m)	40	30	40	30	40
Materials	Body	Aluminum	PP	Aluminum	SUS	Aluminum
IVIALEI IAIS	Packing	Hytrel/Nitrile	Teflon	Teflon	Teflon	Teflon
Weigh	nt (kg)	6	3	8.5	7.5	5.6
Но	Hose		-	Oil Proof 2m	SUS,2m	Oil Proof 2m
Compres	Compressor (HP)		Higher than 1	Higher than 3	Higher than 3	Higher than 3

# **Portable Rotary Drum Pumps**

**Pump for Drum Can** 

# HR-2B-i HR-25G-i HF-1000-i



#### **Specifications Table**

	Types	HR-2B-i	HR-25G-i	HF-1000-i
Delive	ery ability (cc / rev)	240	240	1,000
Acc	eptable liquid	Kerosene, Light oil, Fuel oil A, Oil	Kerosene, Gasoline, Diesel, Fuel oil A, Oil	Kerosene, Light oil, Fuel oil A, Oil
	Body	FC casting	FC casting	AL, Zn alloy
Materials	Packing	NBR	NBR, Teflon	NBR
ials	Hose	PE (¢25X1.2m)	PVC (Φ25x1.2m) (Oil resistant) ground wire	PE (\$32-19X1.2m)
V	Veight (kg)	7.0	6.6	8.0

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# **Portable Rotary Drum Pumps**

**Pump for Drum Can** 

# HRB-20P-i HRP-25III-i

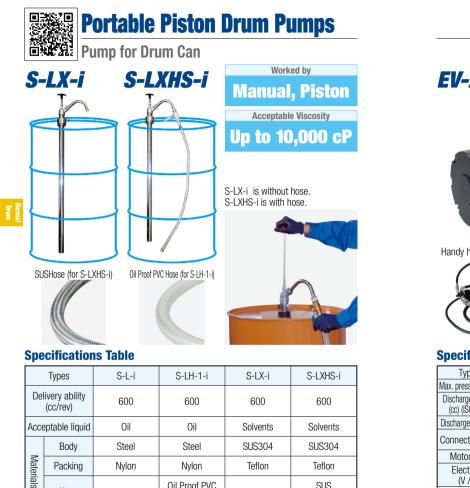
# HRD-25SUS-i



· The picture is "HRD-25SUSHM-i".

#### **Specifications Table**

	Types	HRB-20P-i	HRP-25III/H/HM-i	HRD-25SUS/H/HM-i
Del	ivery ability (cc / rev)	240	200	220
Ac	ceptable liquid	Water,Adblue	Solvents,Acid and Alkaline liquids	Solvents, Chemical, Diesel, Fuel oil A, Oil
	Body	PP,SUS	SUS, Teflon, PPS	SUS
Watenais	Packing	NBR	Teflon	Teflon
lais	Hose	None	None / SUS1.2m / SUS1.2m	None / SUS1.2m / SUS1.2m
	Weight (kg)	2.0	3.2/3.8/4.5	7.4/8.0/8.7





Packing

Hose

Weight (kg)

Nylon

---

1.9

Nylon

Oil Proof PVC

(019×1m)

3.3

Teflon

--

1.9

Teflon

SUS

 $(\phi 15 \times 1m)$ 

3.3

(V / A)

Weight (kg)

Max. Viscosity (cP)

Option

/ 3.9A

12.0

2500

---

/ 3.9A

16.8

2500

Handy hose set

/ 3.9A

16.8

2500

Drum set

19.0

2500

Handy hose set

DC12V / 35A

19.0

2500

Drum set

DC12V / 35A DC12V / 35A

14.2

2500

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For

Kerosene, Diesel

# **Electric Portable Pumps**





### Pump with Auto Stop Measuring Function



-

-

1000023 TOTAL

## CUBE-56K-i



Simply switch ON/OFF to start/stop the operation.



Kerosene,

Diese

This Product can be used only for non-trading purpose only.

\*Don't use gasoline.

#### **Specifications Table**

	Ту	ре	CUBE-56K-i			
	Acceptat	ole liquid	Kerosene, Diesel			
	Max. deliver	y rate at 1c	56			
	Discharge	Head (m)	2.0			
7	B	ody / Nozzle	Aluminum, Steel			
Materials		Packing	NBR			
erial	Ele	ctricity (V / A)	AC230V Single			
0		Hose	Oil rubber hose (\$\$\phi20.3m\$), with strainer			
	Weigh	it (kg)	24			
Цоро	length	In (m)	2.0			
HUSE	lengul	Out (m)	3.0			
	Opt	ion	Stand type, Table top type			

	second a star	the Co
	C 3011 0	2/
	6 /// J	

**EVP-56-i** series



Available

**220V** 

**Discharging capacity** 

56L/min.

EVPH-56-i

#### **Specifications Table**

Туре	EVP-56-i	EVPH-56-i	EVPD-56-i	
Max. pressure (Mpa)	0.15	0.15	0.15	
Discharge Volume (cc) (ISO32oil)	56L / min	56L / min	56L / min	
Discharge head (m)	10	10	10	
Connection size	In:Rc1, Out:Rc1	In:Rc1, Out:Rc1	In:Rc1, Out:Rc1	
Motor (HP)	1/2	1/2	1/2	
Electricity (V / A)	AC230V Single / 3.9A	AC230V Single / 3.9A	AC230V Single / 3.9A	
Weight (kg)	7.4	12.2	12.2	
Max. Viscosity (cP)	5	5	5	
Option	-	Handy hose set	Drum set	

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# **Semi Rotary Wing Pumps**

Recommendable for Engine of The Generator, and Drinking Water Filtration Device Of Emergency

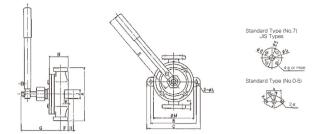
# YATSUNAMI / KING / JIS-5K·10K type



#### **Specifications Table**

Тур	Des	YATSUNAMI / Standard JIS-5K•10K type	KING
Acceptal	ole liquid	oil	oil
Discharge Vol	ume (cc / str)	240-2000	175-1100
Suction / Disch	narge Head (m)	2.5 / 15.0	2.5 / 15.0
Materials	Body	FC / CAC	FC / CAC
Maleriais	Packing	NBR	NBR
Connect	ion Size	JIS 5K / 10K 15-50	Rc1 / 2/Rc2

### YATSUNAMI / KING / JIS5K·10K



ž	Types	Dia.				N	lain E	Body	Dime	ensic	n					Fla	nge I	Dime	nsior	n	Weight	Companion
YATSUNAMI Standard	Types	Dia.	А	В	С	E	F	G	Н	J	Κ	L	Μ	Ν	а	b	С	d	f	g	(kg)	Flange Dia.
ΝA	N0.0	15	180	132	165	330	30	135	20	35	18	11	137	67	10	60	44	20	12	2-M8	5.3	Rc1/2
ŝ	1	20	180	132	165	330	30	135	20	35	18	11	137	67	10	60	44	20	12	2-M8	5.3	Rc3/4
tanc	2	25	208	146	177	365	33	145	22	36	15	11	156	75	12	66	56	25	15	2-M8	7.2	Rc1
lard	3	32	245	168	204	400	44	179	21	43	15	16	178	95	15	76	61	32	15	2-M10	8.9	Rc1 1/4
Type	5	40	295	198	235	460	45	195	20	43	20	16	205	103	16	85	72	40	18	2-M10	13.6	Rc1 1/2
æ	7	50	329	235	282	600	50	225	25	48	25	16	240	115	-	105	130	50	20	4-M12	22.3	Rc2
						N	lain E	Body	Dime	ensic	n					Fla	nge I	Dime	nsior	ı	Weight	Companion
Fla	Types	Dia.	A	в	С	E	F	G	Н	J	К	L	м	N	а	b	с	d	f	g	(kg)	Flange Dia.
lange.	JIS5K-15	15	194	132	165	330	30	135	20	35	15	11	137	70	-	60	80	20	14	4-12	5.9	
Type	JIS5K-20	20	194	132	165	330	30	135	20	35	15	11	137	70		65	85	20	14	4-12	5.9	-
ĕ	JIS5K-25	25	210	146	177	365	33	145	17	37	16	11	153	75		75	95	25	15	4-12	7.6	
SIC)	JIS5K-32	32	248	168	204	400	40	165	24	42	20	16	178	93		90	115	32	16	4-15	10.5	
뜆	JIS5K-40	40	293	198	235	460	45	195	20	43	20	16	205	100		95	120	40	18	4-15	13.6	-
~	JIS5K-50	50		-	-	-				_		-	-	_							-	
	06-766IC	50	329	235	282	600	50	225	25	48	25	16	240	115	-	105	130	50	18	4-15	20.7	-
	3123N-30	50	329	235	282			_	_		_	16	240	115							1	
Flar	Types	Dia.				N	lain E	Body	Dime	ensic	n				-	Fla	nge I	Dime	nsior	ייייי ו	Weight	Companion
lange	Types	Dia.	A	В	С	N E	lain E F	Body G	Dime H	ensic J	n K	L	м	N	a	Fla b	nge I c	Dime d	nsior f	n g	Weight (kg)	Companion Flange Dia
lange	Types JIS10K-15	Dia. 15	A 200	B 132	C 165	N E 330	lain E F 30	G 135	Dime H 20	ensic J 35	n K 15	L 11	M 137	N 70	-	Fla b 70	nge l c 95	Dime d 20	nsior f 15	n g 4-15	Weight (kg) 6.6	Companion Flange Dia
lange Type	Types JIS10K-15 JIS10K-20	Dia. 15 20	A 200 200	B 132 132	C 165 165	N E 330 330	lain E F 30 30	Body G 135 135	Dime H 20 20	J 35 35	n K 15 15	L 11 11	M 137 137	N 70 70		Fla b 70 75	nge I c 95 100	Dime d 20 20	nsior f 15 15	g 4-15 4-15	Weight (kg) 6.6 6.6	Companion Flange Dia
lange Type (JIS	Types JIS10K-15 JIS10K-20 JIS10K-25	Dia.	A 200 200 220	B 132 132 146	C 165 165 177	N E 330 330 365	lain E F 30 30 33	G G 135 135 145	Dime H 20 20 17	ensic J 35 35 37	n K 15 15	L 11 11	M 137 137 153	N 70	•	Fla b 70 75 90	nge I c 95 100 125	Dime d 20 20 25	nsior f 15 15 20	g 4-15 4-15 4-19	Weight (kg) 6.6 6.6 9.0	Companion Flange Dia - -
lange Type (JIS :	Types JIS10K-15 JIS10K-20	Dia. 15 20 25	A 200 200	B 132 132	C 165 165	N E 330 330	lain E F 30 30	Body G 135 135	Dime H 20 20	J 35 35	n K 15 15	L 11 11	M 137 137	N 70 70 75	-	Fla b 70 75	nge I c 95 100	Dime d 20 20	nsior f 15 15	g 4-15 4-15	Weight (kg) 6.6 6.6	Companion Flange Dia - - -
lange Type (JIS	Types JIS10K-15 JIS10K-20 JIS10K-25 JIS10K-32	Dia. 15 20 25 32	A 200 200 220 250	B 132 132 146 168	C 165 165 177 204	N E 330 330 365 400	lain E F 30 30 33 40	G 135 135 145 165	Dime H 20 20 17 24	ensic J 35 35 37 42	n K 15 15 16 20	L 11 11 11 16	M 137 137 153 178	N 70 70 75 93	-	Fla b 70 75 90 100	nge I 95 100 125 135	Dime d 20 20 25 32	nsior f 15 15 20 20	g 4-15 4-15 4-19 4-19	Weight (kg) 6.6 6.6 9.0 11.5	Companion Flange Dia - - -
lange Type (JIS	Types JIS10K-15 JIS10K-20 JIS10K-25 JIS10K-32 JIS10K-40	Dia. 15 20 25 32 40	A 200 200 220 250 298	B 132 132 146 168 198	C 165 165 177 204 235	N E 330 330 365 400 460	lain E F 30 30 33 40 45 50	G 135 135 145 165 195 225	Dime H 20 20 17 24 20 25	ensic J 35 35 37 42 46 48	n K 15 15 20 20 25	L 11 11 11 16 16 16	M 137 137 153 178 205	N 70 70 75 93 100	-	Fla b 70 75 90 100 105	nge I c 95 100 125 135 140	Dime d 20 20 25 32 40 50	nsion f 15 15 20 20 20 20	g 4-15 4-15 4-19 4-19 4-19 4-19	Weight (kg) 6.6 9.0 11.5 14.6 20.7	Companion Flange Dia - - - - - -
lange Type (JIS 10K)	Types JIS10K-15 JIS10K-20 JIS10K-25 JIS10K-32 JIS10K-40	Dia. 15 20 25 32 40	A 200 220 250 298 330	B 132 132 146 168 198 235	C 165 165 177 204 235 282	N E 330 330 365 400 460 600	lain E F 30 30 33 40 45 50	G 135 135 145 165 195 225 Main	Dime H 20 20 17 24 20 25 Bod	ensic J 35 35 37 42 46 48 y Dir	n 15 15 16 20 25 nens	L 11 11 11 16 16 16	M 137 137 153 178 205 240	N 70 75 93 100 115	-	Fla b 70 75 90 100 105 120	nge I 95 100 125 135 140 155	Dime d 20 20 25 32 40 50	nsior f 15 15 20 20 20 20	9 4-15 4-15 4-19 4-19 4-19 4-19 4-19	Weight (kg) 6.6 9.0 11.5 14.6 20.7	Comparion Flange Dia - - - - -
lange Type (JIS 10K) KING	Types JIS10K-15 JIS10K-20 JIS10K-22 JIS10K-32 JIS10K-32 JIS10K-40 JIS10K-50 Types	Dia. 15 20 25 32 40 50	A 200 220 250 298 330	B 132 132 146 168 198 235	C 165 165 177 204 235 282 B	N E 330 365 400 460 600 C	E	30dy G 135 135 145 165 195 225 Main F	Dime H 20 20 17 24 20 25 Bod	ensic J 35 35 37 42 46 48 y Din H	n K 15 16 20 25 nens	L 11 11 11 16 16 16 16 sion	M 137 153 178 205 240 K	N 70 70 75 93 100 115 L	- - - -	Fla b 70 75 90 100 105 120 N	nge I 95 100 125 135 140 155	Dime d 20 20 25 32 40 50 F b	nsior f 15 20 20 20 20 20	9 4-15 4-15 4-19 4-19 4-19 4-19 e Dime c d	Weight (kg) 6.6 9.0 11.5 14.6 20.7 ensior f	Companion Flange Dia - - - - - - - - - - - - - - - - - - -
lange Type (JIS 10K) KING	Types JIS10K-15 JIS10K-20 JIS10K-25 JIS10K-32 JIS10K-40 JIS10K-50 Types N0.0	Dia. 15 20 25 32 40 50 Dia 15 15 15 15 15 15 15 15 15 15	A 200 220 250 298 330 3.	B 132 132 146 168 235 A 80	C 165 165 177 204 235 282 B 126	N E 330 365 400 460 600 C 153	ain E F 30 30 33 40 45 50 E 330	G 135 135 145 195 225 Main F 21	Dime H 20 20 17 24 20 25 Bod 6 131	J 35 35 37 42 46 48 y Din H 19	n K 15 15 16 20 20 25 nens	L 11 11 16 16 16 16 sion J	M 137 153 178 205 240 K 12	N 70 70 75 93 100 115 L 11	- - - - - - - - - - - - - - - - - - -	Fla b 70 75 90 100 105 120 N 64	nge I c 95 100 125 135 140 155 a 111	Dime d 20 20 25 32 40 50 F F 60 60	nsion f 15 15 20 20 20 20 20 20 1 ang	g 4-15 4-15 4-19 4-19 4-19 4-19 e Dime c d 4 20	Weight (kg) 6.6 9.0 11.5 14.6 20.7 ension f 11	Companion Flange Dia - - - - - - - - - - - - - - - - - - -
lange Type (JIS 10K) KING	Types JIS10K-15 JIS10K-20 JIS10K-20 JIS10K-32 JIS10K-32 JIS10K-50 Types N0.0 1	Dia. 15 20 25 32 40 50 Dia 18 20 25 32 40 50	A 200 220 250 298 330 3. 5 11 1 1 1 1	B 132 146 168 235 A 80 80	C 165 165 177 204 235 282 8 8 126	M E 330 365 400 460 600 C 153 153	ain E F 30 30 33 40 45 50 E 330 330	Body G 135 135 145 165 195 225 Main F 21 21	Dime H 20 20 17 24 20 25 Bod 6 131 131	U 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	n K 15 15 16 20 25 25 	L 111 111 116 116 116 116 116 116 116 11	M 137 153 178 205 240 K 12 12	N 70 75 93 100 115 L 11 11	- - - - - - M 131 131	Fla b 70 75 90 100 105 120 N 64 64	nge I c 95 100 125 135 140 155 40 155 111 111	d           20           20           20           20           25           32           40           50           F           b           6C           6C	nsion f 15 15 20 20 20 20 20 20 20 20 20 20 20 20 20	g 4-15 4-19 4-19 4-19 4-19 4-19 4-19 4-19 4-19	Weight (kg) 6.6 9.0 11.5 14.6 20.7 ensior f 11 11	Companior Flange Dia - - - - - - - - - - - - - - - - - - -
lange Type (JIS 10K) KING Standard	Types JIS10K-15 JIS10K-20 JIS10K-25 JIS10K-32 JIS10K-40 JIS10K-50 Types N0.0 1 2	Dia. 15 20 25 32 40 50 Dia 15 225 32 40 50 25 225 22 25 22 25 22 25 22 25 22 25 22 25 22 25 22 25 20 25 20 25 20 25 20 25 20 25 20 25 20 25 20 25 20 25 20 25 20 25 20 25 20 25 20 25 20 25 20 25 20 20 25 20 20 20 20 20 20 20 20 20 20	A 200 220 250 258 330 330 5 11 5 2	B 132 132 146 168 235 A 80 5 3	C 165 165 177 204 235 282 B 126 126 137	M E 330 365 400 460 600 C 153 153 153	ain E F 30 30 33 40 45 50 E 330 330 330 360	300dy G 135 135 145 165 225 Main F 21 21 27	Dime H 20 17 24 20 25 80d 6 131 131 131 141	ensic J 35 35 37 42 46 48 48 48 48 19 19 19 18	n K 15 16 20 25 20 25 3 3 3 3 3 3 3 3 3	L 111 111 16 16 16 16 16 16 55 35 35	M 137 153 178 205 240 K 12	N 70 70 75 93 100 115 L 11	- - - - - - - - - - - - - - - - - - -	Fla b 70 75 90 100 105 120 N 64 64 64 71	nge I c 95 100 125 135 140 155 24 8 4 11 11 11 12	Dime d 20 20 25 32 40 50 F b 60 60 60 60 60	nsion f 15 20 20 20 20 20 20 20 4 4 4 5 5	g 4-15 4-19 4-19 4-19 4-19 4-19 6 Dime c d 4 20 6 25	Weight (kg) 6.6 6.6 9.0 11.5 14.6 20.7 f 11.1 11 11 11	Companion Flange Dia - - - - - - - - - - - - - - - - - - -
lange Type (JIS	Types JIS10K-15 JIS10K-20 JIS10K-20 JIS10K-32 JIS10K-32 JIS10K-50 Types N0.0 1	Dia. 15 20 25 32 40 50 Dia 18 20 25 32 40 50	A 200 220 250 298 330 3. 11 5 11 5 2 2 2 2	B 132 132 146 168 198 235 A 80 80 103 32	C 165 165 177 204 235 282 8 8 126 126 126 137	M E 330 365 400 460 600 C 153 153	ain E F 30 30 33 40 45 50 E 330 330	Body G 135 135 145 165 195 225 Main F 21 21	Dime H 20 20 17 24 20 25 Bod 6 131 131	ensic J 35 35 37 42 46 48 y Din H 19 19 18 12 20	n K 15 15 16 20 25 16 20 25 16 3 3 3 3 3 3 3 3 3 3 3 3 3	L 111 111 16 16 16 16 16 16 16 16 16 16 1	M 137 153 178 205 240 K 12 12 13	N 70 75 93 100 115 L 11 11 11	- - - - - - M 131 131	Fla b 70 75 90 100 105 120 N 64 64	nge I c 95 100 125 135 140 155 40 155 111 111	d           20           20           20           20           25           32           40           50           F           b           6C           6C	nsion f 15 15 20 20 20 20 20 20 20 20 20 20 20 20 20	g 4-15 4-19 4-19 4-19 4-19 4-19 6 Dime c d 4 20 6 25	Weight (kg) 6.6 6.6 9.0 11.5 14.6 20.7 f 11. 11. 11. 12. 12. 12. 12. 12.	Companion Flange Dia. - - - - - - - - - - - - - - - - - - -

# **Variety of Nozzles**

# **Flow Meter**

Manual Type (Acceptable for Liquid Under 0.15Mpa)



Auto stop type (Acceptable for liquid under 0.2Mpa and flow range 30-80L/min)

# ATNH-20-i ATNH-25-i ATNP-SUS20-Ad-i



#### **Specifications Table**

**Recommendable for Measuring Volume Of Discharged Liquid** 





Nozzle & Meter

# GN-AL25K24-i ATNH-20/25K24-i ATNH-20Ad-i ATPS-20Ad-i



#### **Specifications Table**

im (m line	Types	GN-AL20/25-i	GN-SUS20/25-i	GN-PP20/25-i	GN-AL25K24-i	ATNH-20-i	ATNH-25-i	ATNP-SUS20-Ad-i	ATNH-20/25K24	ATNH-20Ad-i	ATPS-20Ad-i	Types	MK33D(0L)-25-i	TB-K24-FM/Ad-i
k Fan		Oil, Kerosene, Diesel, Gasolin	Water, Solvent	Solvent	Kerosene, Diesel		Oil, Kerosene, Diesel, Gasolin	Adblue, Water	Kerosene, Diesel	Adblue	Adblue	Acceptable liquid	Kerosene, Diesel (Oil)	Kerosene, Diesel/Adble
Sweep	Material body	AL casting	SUS casting	PP		AL casting, Steel	AL casting, Steel	SUS casting		SUS	SUS	Packing	NBR	NBR
er Hold	Packing	NBR	Teflon	Fluoro-rubber	NBR	NBR	NBR	Teflon, Fluoro-rubber	NBR	Fluorine	Fluorine	Connection	G1	G1
ler Sta	Nozzle Outside (mm)	22.5	22.5	28.0	22.5	24.0	28.0	19.0	24.0 / 28.0	19.0	19.0	Nozzle Outside (mm)		
pu	Connection	Rc3/4, Rc1	Rc3/4, Rc1	Rc3/4, Rc1	Rc1	Rc3/4	Rc1	Hose joint 19mm	Rc3/4, Rc1	Hose joint 19mm	Hose joint 19mm	Weight (kg)	2.0	0.4
Level (	Weight (kg)	0.7	1.3	0.4	1.5	1.5	1.5	1.5	2.0	0.7	1.0	Remarks		Battery Powered

# **Industrial Fans Worked By Air Motor Type**



With longer life motor, workable with the depressed air.

#### We recommend the below cases, in particular.

- Ventilation, blowing at factory and/or warehouse. In particular, recommendable at the place with the risk of fire or explosion.
- At the working areas, only the depressed air is available.

These fans are worked by compressed air. We recommend at the place with risk of fire or explosion.

#### The Image for Operation



Compresso

#### **Specifications Table**

Types	AFG	·18-i	AFG	·24-i	AFD	·18-i	
Dia. of fan (mm)	450		600		450		
Air pressure (Mpa)	0.	.5	0.	.6	0.5		
Flow (m <sup>°</sup> / min)	3	0	5	0	3	0	
Revolution (rpm)	1,5	i00	1,0	00	1,5	i00	
Air consumption (m <sup>*</sup> / min)	0.:	21	0.:	39	0.:	21	
Weight (kg)	7.	.8	11	.7	7.	.2	
vailable air pressure (Mpa)	0.4	-0.5	0.4	-0.5	0.4	·0.5	
Compressor (HP)	3	3	Ę	5	3		
Types	AFR-08-i	AFR-12-i	AFR-18-i	AFR-24-i	AFW-18-i	AFW-24-i	
Dia. of fan (mm)	200	300	450	600	450	600	
Air pressure (Mpa)	0.5	0.5	0.5	0.6	0.5	0.6	
Flow (m <sup>*</sup> / min)	30	30	50	50	30	50	
Revolution (rpm)	4,700	2,000	2,000	1,300	1,500	1,000	
Air consumption (m <sup>*</sup> / min)	0.17	0.21	0.33	0.42	0.21	0.39	
Weight (kg)	9.3	12	15.5	21.8	7.8	11.7	
Available air pressure (Mpa)		0.4-0.6	0.4-0.6	0.6	0.4-0.6	0.4-0.6	
Compressor (HP)							
	Air pressure (Mpa) Flow (m <sup>1</sup> / min) Revolution (rpm) Air consumption (m <sup>1</sup> / min) Weight (kg) vailable air pressure (Mpa) Compressor (HP) Types Dia. of fan (mm) Air pressure (Mpa) Flow (m <sup>1</sup> / min) Revolution (rpm) Air consumption (m <sup>1</sup> / min) Weight (kg)	Dia. of fan (mm)         45           Air pressure (Mpa)         0.           Flow (m² / min)         3           Revolution (rpm)         1,5           Air consumption (m² / min)         0.1           Weight (kg)         7           vailable air pressure (Mpa)         0.4           Compressor (HP)         3           Types         AFR-08-i           Dia. of fan (mm)         200           Air pressure (Mpa)         0.5           Flow (m² / min)         30           Revolution (rpm)         4,700           Air consumption (m² / min)         0.17           Weight (kg)         9.3	Dia. of fan (mm)         450           Air pressure (Mpa)         0.5           Flow (m² / min)         30           Revolution (rpm)         1,500           Air consumption (m² / min)         0.21           Weight (kg)         7.8           railable air pressure (Mpa)         0.4-0.5           Compressor (HP)         3           Types         AFR-08-i           AFR-12-i         Dia. of fan (mm)           Dia. of fan (mm)         200           Air pressure (Mpa)         0.5           Flow (m² / min)         30           Revolution (rpm)         4,700           Air consumption (m² / min)         0.17           Weight (kg)         9.3         12	Dia. of fan (mm)         450         60           Air pressure (Mpa)         0.5         0.7           Flow (m² / min)         30         5           Revolution (rpm)         1,500         1,0           Air consumption (m² / min)         0.21         0.3           Weight (kg)         7.8         11           vailable air pressure (Mpa)         0.4-0.5         0.4           Compressor (HP)         3         5           Types         AFR-08-i         AFR-12-i           AFR-18-i         Dia. of fan (mm)         200         300           Air pressure (Mpa)         0.5         0.5         0.5           Flow (m² / min)         30         30         50           Revolution (rpm)         4,700         2,000         2,000           Air consumption (m² / min)         0.17         0.21         0.33           Weight (kg)         9.3         12         15.5	Dia. of fan (mm)         450         600           Air pressure (Mpa)         0.5         0.6           Flow (m² / min)         30         50           Revolution (rpm)         1,500         1,000           Air consumption (m² / min)         0.21         0.39           Weight (kg)         7.8         11.7           vailable air pressure (Mpa)         0.4-0.5         0.4-0.5           Compressor (HP)         3         5           Types         AFR-08-i         AFR-12-i         AFR-18-i         AFR-24-i           Dia. of fan (mm)         200         300         450         600           Air pressure (Mpa)         0.5         0.5         0.6         Flow (m² / min)         30         30         50           Revolution (rpm)         4,700         2,000         2,000         1,300         Air consumption (m² / min)         0.17         0.21         0.33         0.42           Weight (kg)         9.3         12         15.5         21.8	Dia. of fan (mm)         450         600         45           Air pressure (Mpa)         0.5         0.6         0.7           Flow (m² / min)         30         50         3           Revolution (rpm)         1,500         1,000         1,5           Air consumption (m² / min)         0.21         0.39         0.1           Weight (kg)         7.8         11.7         7           vailable air pressure (Mpa)         0.4-0.5         0.4-0.5         0.4           Compressor (HP)         3         5         3           Types         AFR-08-i         AFR-12-i         AFR-18-i         AFR-24-i         AFW-18-i           Dia. of fan (mm)         200         300         450         600         450           Air pressure (Mpa)         0.5         0.5         0.6         0.5         50         30           Revolution (rpm)         4,700         2,000         2,000         1,300         1,500           Air consumption (m² / min)         0.17         0.21         0.33         0.42         0.21           Weight (kg)         9.3         12         15.5         21.8         7.8	

Air Hose

# **Eco Sweeper**

# **New Products**

# **Friendly Product for Environment** Pushing Cleaner Eco Sweeper Collectable from Casting Metal Iron Up To Pet Bottle-







#### AJL550S-i

recommendable to collect fallen leaves to pet bottles at narrow paths.



recommendable to collect fallen leaves to pet bottles at narrow paths. This model has wider working range than AJL550S-i





#### Just push SWEEPER, while walking, then rubbishes can be easily collected.

- · Just push SWEEPER while walking in the factory, street.
- Good for making the circumstances clean.
- · Some models are recommendable to collect pet bottles, and/or empty can. (AJL550S/750S) Good for making the circumstances clean.
- · Sweeping brush can be replaceable.
- The height of all the models can be adjustable, which makes wider collectable opportunities.
- Two side brushes are equipped as standard parts, when purchased.
- Side brushes are equipped at both sides for all the models. These side brushes work well to collect fine rubbishes. The brushes can be easily replaceable.

Types	AJL550S-i	AJL750S-i	AJL920S-i
A (mm)	700	1,120	1,350
B (mm)	570	750	940
C (mm)	1,350	970	1,060

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# **Drum Pump Stand D-STAND**

**Gun Holder & Drum Pump Stand** 

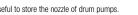






It's useful to store the nozzle of drum pumps.





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 It's useful to store the drum pumps. · The Saucer to guard liquid dripping is equipped

as standard.

# **Level Checker**

Recommendable to control the remaining amount of liquid



- This product is to measure the liquid level (or reside amount) in drum can specified by JIS.
  The accuracy allowance is within approx.+/- 5%.
- No electric power is required.







- Portable and light
- Only AA batteries are applicable.
- LED indicator(with 10 levels) immediately shows the height of liquid in a drum can.

Туре	ZKT-D-OL-i	ZKT-D-W-i			
Container	Drum Can	Drum Can			
Acceptable liquid	Oil	Water			
Measurement(mm)	¢65×990	φ65×990			
Weight (kg)	1.3	1.3			

#### **Viscosity Comparison Table**

cP = cst x Sp. Gravity

			Viscosit	y at each temp	perature		
Liquid	0	5	10	15	20	25	30/35
60 Spindle Oil	87	60	40	30	22	17	13
90 Oil for freezer	122	90	65	48	36	28	23
150 Oil for freezer	240	160	110	80	60	46	36
90 Turbine Oil	290	200	140	100	75	63	40
150 Spindle Oil	360	230	150	100	75	55	46
SAE-10W	300	220	150	110	85	65	36
ISO 32 Working Oil, Gear Oil 75W	400	260	180	125	90	70	53
120 Machine Oil	620	400	265	180	130	95	75
30 Oil for freezer, Engine Oil 5W-20 (30)	700	420	280	190	130	95	75
140 Turbine Oil	750	500	320	240	170	120	95
SAE-20W ISO46	800	530	370	260	190	140	105
160 Machine Oil	900	600	400	285	190	140	105
ISO 68 Lubrication Oil, Engine Oil 10W 30(40)	1,050	650	440	300	210	150	130
180 Turbine Oil	1,100	700	460	320	220	160	120
200 Turbine Oil	1,300	800	550	360	260	180	135
SAE-80 Gear Oil	1,400	900	600	400	280	200	150
SAE-30 Gear Oil 85W	1,800	1,150	750	500	340	240	180
ISO 100 Engine Oil 20W 40 (50)	2,000	1,200	800	500	350	250	180
SAE-40	2,700	1,600	1,050	720	500	340	250
ISO 150	3,200	2,000	1,250	800	550	380	280
SAE-90 Gear Oil	4,200	2,500	1,800	1,000	700	480	340
SAE-50	5,000	3,000	1,800	1,200	800	530	380
ISO 220	5,500	3,200	2,200	1,300	900	600	420
SAE-60	9,000	5,500	3,400	2,000	1,350	900	650
ISO 320	9,500	5,500	3,300	2,100	1,400	900	650
SAE-140 Gear Oil	10,000	6,000	3,800	2,300	1,400	1,000	700
ISO 460	14,000	8,000	4,800	3,000	1,900	1,100	900
ISO 680		14,000	8,000	5,000	3,000	2,100	1,400
ISO 1000			14,000	8,000	5,000	3,100	2,100/1,500
ISO 1500				14,000	8,000	5,000	3,100/2,200

#### How to read the above table

 First of all, to make sure the kind of liquid, viscosity and the temperature when used. Make sure where you liquid with viscosity is found under the temperature to be used. If you find your liquid at the colored column in the above table, it is acceptable.
 If you find on the non-colored column, such a liquid is not acceptable.

The acceptable table in the above shows just indication for your information, and they are not guaranteed figures. Please make sure of acceptable viscosity for each our product.

» Generally, viscosity degree drops, when the temperature are goes up.

if you have the information of oil manufacturer and the kind of liquid, viscosity information becomes available.

Viscosity information for our pump is described in cP, and in case covert ion to cP is required, you can get by the formula of cP = cst X Sp. Gravity. (In case of water, simply multiply by 1.00)

		Manual Type Air Type								
Cans		Discharge								
		Drum			Pail		Drum			
Viscosity		Low Low High			High					Medium
	Sp. Gravity	HRP-25III(H,HM)-i	HRD-25SUS(H,HM)+i	S-LX(LXHS)-i	P-SX-i	P-SXT-i	CHD-20APP	CHD-20HP	CHD-20ASUS	APD-20(25)AS(N)-i
Acetone	0.79	•	•	•	•	•				
Ammonia water	0.68	•	•	•	•	•				
Isopropyl alcohol	0.79	•	•	•	•	•				•
Ethyl alcohol	0.79	•	•	•	•	•	•	•		
Ethylene glycol	1.1	•	•	•	•	•	•	•		•
Sodium chloride	2.17						•	•		
Methylene chloride	1.32		•	•	•	•				
*Hydrochloric acid										
Denity: 10-30	1.19								•	
Hydrogen peroxide										
Density: 3	1.13	•	•	•	•	•	•	•	•	
Density: 20	1.13	•	•	•	•	•	•	•	•	
Density: 5/Temp. 50C	1.13	٠	•	•	•	•	•	•		
Density: 90	1.13		•	•	•	•				
Gasoline	0.73		•	•	•	•	•	•		•
Xylene	0.88	•	•	•	•	•	•	•		•
Citric acid	1.54					•			٠	
Glycerin	1.27			•	•	•				•
Chloroform	1.14	•	•	•	•	•	•	•		-
Diesel oil	0.8-0.89	•	•	•	•	•	•	•		•
Kerosene	0.78-0.84	•	•	•	•	•	•	•		•
Acetic acid										
Density: 10-50	1.7	•	•	•	•	•				
Ethyl acetate	0.9	•	•	•	•	•				
Methyl acetate	0.9	•	•	•	•	•				
Hypochlorous acid										
Sodium hyprochlorite	1.15								•	
Diethylene glycol	-		•	•	•	•				•
Dimethylformamide	0.93		-	-	-	•				-
Nitric Acid (Density:10)	1.5	•	•	•	•	•	•	•	•	
Nitric Acid (Density: 10)	1.5	•	•	•	•	•	•	•	•	
Sodium hydroxide	1.0	-	-	-	-	-	-	-	-	
Density: 10-50	2.13	•	•	•	•	•				
Triethanolamine	1.12		•	•	•	•				
Trichloroethane	1.12			•	•	•				•
Trichloroethylene	1.33		•	•	•		•	•		+ -
Toluene	0.88	•	•	•	•	•	•	•		•
Naphtha	0.88	•	•	•	•	•	•	•		
Naprina Bio-Diesel	0.76									•
*Perchloroethylene	1.622	•	•		•	•	•			+ -
Butyl alcohol	0.81	-	•	•	•	•	•	•		•
Propanol alcohol (Density 65)	0.81	•	•	•	•	•	•	•		+ -
Hexane	0.67	•	•	•	•	•	•	•		•
Benzyl alcohol	1.04	-	•	•				•		+
Benzene	0.88	•	•	•	•		•	•		•
Benzene Formaldehyde	0.88				•		-	-		- <b>-</b>
Water	1.00-1.11	•	•	•	•	•	•	•	•	
Methyl alcohol	0.79		•	•	•		•	-	•	•
Methyl alconol Methyl isobuthyl ketone	0.79		•	•	•	•				
Methyl isobutnyl ketone Methyl ethyl ketone	0.8		•	•	•	•				-
Sulfuric acid	0.0	-	-	-	-	-				-