

AQUASYSTEM Co., Ltd. JAPAN



Contents



New Products

Vacuum Cleaners, Vacuum Pumps



Pail Pumps

Drum Pumps

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Portable Pumps

Electric Portable **Pumps**





Nozzles, Flow Meter, Pail / Drum Cock. Fans, Sweeper

P.36

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Viscosity Comparison Table

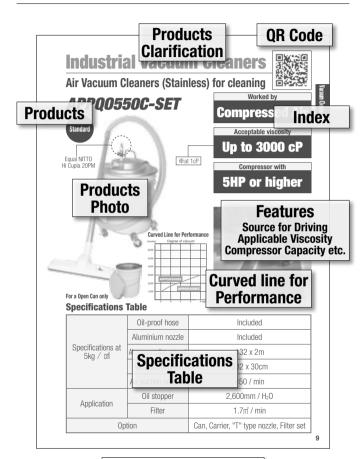
cP = cst x Sp. Gravity cst =ml/s

			Viscosit	at each temp	erature		-
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)

How to use



The places to be used

Type		0:	Keroser	Gas	Sol	Acid/	Water	Ad	Other	Mode	Pa
pe		<u>≅</u>	Kerosene, Light Oil	Gasoline	Solvent	Acid/ Alkaline	ater	Blue	her	ode e	Page
New (Drum)	Air	•								APDQO-FEX	4
rum)		•								APD-REX	5
		•								AVC-55	7
		•								APPQ0400(550)EX	8
l										APPQ0550CEX SET	9
							•			AVC-550SUSEX	10
√a	Sucking Air								Powder	APPQO-CY20EX	14
Vacuum	(Cleaner)								Powder	APPQO-CY32EX	14
3									Powder	APPQO-CY40EX	14
l		•	•							APPQO-HP2EX	
		•								APPQOEX	12
		•								APPQO-HEX	13
	Electric	•	•							EVC550EX	11
1		•								APD-20(25)EX	22
		•								APD-20(25)NEX	22
		•	•	•						APD-20(25)GEX	22
		•	•	•						APD-20(25)GNEX	22
1					•					APD-20(25)ASEX	22
					•					APD-20(25)ASNEX	22
			•		•		•			APD-20SUS(N)EX	22
		•								APDQ-25EX	22
1	Air	•	•	•						APDQ-25GEX	22
					•					APDQ-25ASEX	22
		•								APDX-25EX	23
0		•	•	•						APDX-25GEX	23
Drum					•					APDX-25ASEX	23
-						•	•			KFC103A-NEX	24
					•		•			KFC-104A-NEX	24
l		•	•	•						DF4(6)D-20GEX	25
1					•					DF4(6)D-20ASEX	25
		•	•							HR-2BEX	28
		•	•	•						HR-25GEX	28
l	Manual	•	•							HF-1000EX	29
l					•		•			HRD-25SUS(H)EX	29
				•	•		•			HRD-25SUSHMEX	29
		•	•							EVD-200EX	
	Electric	•	•							EVD-12EX	
			•							EVPD56-100EX	
		•	•							APP-C-ALEX	16
				•	•		•			APP-C-SUSEX	16
						•	•			APP-C-PPEX	16
	Discharging Air					•	•			MH21NA-VEX	18
Pai					•		•			MH316MA-VEX	18
=		•	•	•						DF4P-15GEX	17
					•		•			DF4P-15SUSEX	17
					•					DF4P-15ASEX	17
	Manual	•	•							P-SEX	19
	manaa				•		•			P-SX(SXT)EX	19

Air Air Air Air Air Air Air Air	Туре		Oil	Kerosene, Light Oil	Gasoline	Solvent	Acid/ Alkaline	Water	Ad Blue	Other	Model	Page
Air			•	•							ACHEX	27
Air Air Air Air Air Air Air Air	1		•	•							AMVHEX	26
Alif	l		•	•	•						AMH1-20(25)ALEX	26
Electric ■ Electric ■ ELYF56-200EX 32 ELYF86-200EX 32 CUBE-56KEX 33 TB-K24-MMEX 37 TB-K24-MMEX 37 TB-K24-MMEX 37 MK33-25DEX 37 MK33-25DLEX 37 MK33-25DLEX 37 MK33-25DLEX 37 FIOW Measuring Nozzle ■ MAL20(25)EX 36 GN-AL20(25)EX 36 GN-PP20(25)EX 36 GN-PP20(25)EX 36 GN-PP20(25)EX 36 GN-PP20(25)EX 36 GN-AL120(25)EX 36 GN-AL120(25)EX 36 GN-AL120(25)EX 36 GN-PP20(25)EX 36 GN-AL20(25)EX 36 GN-AL20(25)EX 36 GN-AL3025EX ATM-120(25)EX 36 GN-AL120(25)EX 36 GN-AL3025EX ATM-120(25)EX 36 GN-AL3025EX ATM-120(25)EX 36 GN-AL3025EX ATM-120(25)EX 36 GN-AL3025EX 37 ATM-120(25)EX 37 ATM-120	- P	Air				•		•				26
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Fan		Nozzle				_		_				
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ND-40(50)EX 38		Can				_		_				
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		Sweeper									AJL750SEX AJL920SEX	42



別級 New Products

Simple Filtering System / Cutting Liquid Recycling

APDOO-FEX

Recommendable to collect cutting oil, and for the maintenance service of cutting machines.

AIR TYPE Cleaner with filters for drum can.



Acceptable viscosity

Up to 500 cP

Compressor with

10HP or higher



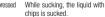


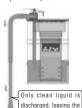


Carrier for drum can

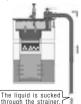
Top plate for open drum can







chips in the strainer



leaving the chips in the



- Due to Double filters with stainless made meshes (100 mesh and 400 mesh), cut powder is removed.
- Apply JIS approved drum can, and just fix APDQO-F on your own open drum can.
- Then, this will work as the pump with sucking discharging functions.
 No more troublesome machines maintenance is required, and

simple maintenance is assured. *A drum can is separately sold.



Specifications Table

	APDQ-F
Applicable oils	Cutting Liquid, Oil
Max. Discharging Volume (L/min)	140
Max. Sucking Volume (L/min)	110
Discharge Head (m)	2.5
Weight (kg)	36.5
Option	Filter

New Products



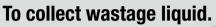
Pneumatic Pump For Drum Can



Vacuum Cleaners

To collect cutting powder.

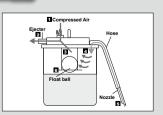
To change cutting liquid.





Mechanism of Suction

- 1. Supply the air compressed at 0.4~0.6Mpa.
- 2. Compressed air goes out through the ejector with high
- 3. The air inside tank is discharged by the vacuum force made by ejector.
- 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.



Industrial Vacuum Cleaners



Industrial Air Vacuum Cleaners For Pail Can



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

Carrier For Pail Can

Worked by **Compressed Air**

Acceptable viscosity

Up to 3000 cP

Compressor with

5HP or higher



Specifications Table

	Oil-proof hose	φ32 x 2m					
	Aluminium nozzle	φ32 x 30cm					
Specifications at 5Kg / cm²	Air consumption amount	450 / min					
	Vacuum degree	2,000mm / H ₂ O					
	Air suction amount	1.7㎡ / min					
Application	Oil stopper	Included					
Application	Filter	Option					
Op:	tion	Can, Carrier, "T" type nozzle, Filter set					

Industrial Vacuum Cleaners

Industrial Air Vacuum Cleaners For A Pail Can

APPOO 550EX

Worked by **Compressed Air**

Acceptable viscosity

Up to 3000 cP

Compressor with

3-5HP or higher

APPQO 400EX







Specifications Table

Mo	dels	APPQ0400EX	APPQ0550EX			
	Oil-proof hose	φ25 x 2m	φ32 x 2m			
	Aluminium nozzle	φ25 x 30cm	φ32 x 30cm			
Specifications at 5kg / cm²	Aluminium nozzle Air consumption amount Vacuum degree Air suction amount Oil stopper Filter	280 / min	450 / min			
5.tg / 6iii	Vacuum degree	2,000mm / H ₂ O	2,000mm / H ₂ O			
	Air suction amount	0.06m³ / min	0.08m³ / min			
Application	Oil stopper	Option	φ25 x 30cm φ32 x 30cm 280 / min 450 / min 2,000mm / H₂O 2,000mm / H₂O 0.06m² / min 0.08m² / min Option Included Option Included			
Application	Filter	Option	Included			
Option		Can, Carrier, "T" ty	pe nozzle, Filter set			

Curved Line for Performance

Industrial Vacuum Cleaners



Air Vacuum Cleaners (Stainless) For Cleaning

APPQ0550CEX-SET

Standard

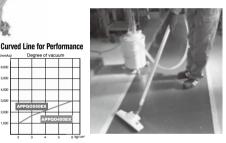


Acceptable viscosity

Up to 3000 cP

Compressor with

5HP or higher



Specifications Table

For a Open Can only

	Oil-proof hose	φ32 x 2m					
Specifications at 5kg / cm²	Aluminium nozzle	φ32 x 30cm					
	Air consumption amount	450 / min					
	Vacuum degree	2,000mm / H ₂ O					
	Air suction amount	0.08m³ / min					
Application	Oil stopper	Included					
Application	Filter	Included					
Opt	tion	Can, Carrier, "T" type nozzle, Filter set					

Degree of vacuum





Industrial Vacuum Cleaners

Air Vacuum Cleaners (Stainless) For Cleaning

AVC-550SUSEX (Stainless)

Worked by

Compressed Air

Acceptable viscosity

Up to 3000 cP

Compressor with

5HP or higher







Specifications Table

	Oil-proof hose	φ32 x 2m
	Aluminium nozzle	φ32 x 30cm
Specifications at 5kg / cm²	Aluminium nozzle φ32 x 30cm Air consumption amount 450 / min Vacuum degree 2,000mm / H₂O Air suction amount 0.08m² / min Oil stopper Included Filter Option	450 / min
51.g		2,000mm / H ₂ O
Application	Oil stopper	Included
Application	Filter	Option
Op:	tion	Can, Carrier, "T" type nozzle, Filter set

Electric Pail Vacuum Cleaner

The Cleaner For A Pail Can



Worked by AC220V

Acceptable viscosity

Up to 3000 cP



Specifications Table

Output (W)	1,050
Current (A)	10
Vacuum degree (Mpa)	0.21
Noize (db)	80 (No load, 1m height)
Hose size	Ф32 × 2m
Electoric cord	5m (with earth grip)
Weight (kg)	9.3
Option	Can, Carrier, "T" type nozzle, Filter set

For Open Can only

Industrial Vacuum Pumps

Air Type Vacuum Pump For Pail Can

Pesses All Type vacuum rump rump rum Van





Acceptable viscosity

Up to 1000 cP

Compressor with

1HP or higher



Specifications Table

	Oil-proof hose	φ25 x 2m
	Aluminium nozzle	φ25 x 30cm
Specifications at 5kg / cm²	Air consumption amount	100 / min
51.g. 5	at Air consumption amount 100 / min Vacuum degree 2,000mm / H ₂ O Air suction amount 0.075m² / min Oil stopper Included	
	Air suction amount	0.075m² / min
Application	Oil stopper	Included
Application	Filter	
Ор	tion	Can, Carrier, "T" type nozzle, Filter set

Industrial Vacuum Pumps

The Pump For Pail Can 🗟

Worked by

Compressed Air

Acceptable viscosity

Up to 5000 cP

Compressor with

5HP or higher







Specifications Table

APPQO-HEX

	Oil-proof hose	φ25 x 2m
	Aluminium nozzle	φ25 x 30cm
Specifications at 5kg / cm²	Air consumption amount	450 / min
21.9, 4	Vacuum degree	5,000mm / H₂O
	Air suction amount	0.08m³ / min
Application	Oil stopper	Included
Application	Filter	
0	ption	SUS can, Carrier, "T" type nozzle, Filter set





Air Pressure Pail Pumps

Air Type Cyclone Vacuum Cleaner

APPQ0-CY20/32/40EX



Compressor with

10HP or higher



- Pail can: Simply place on drum can.
- Collection ratio for dusts and powders:Better than 98% (according to our test data)
- No static electricity problem with a ground wire.
- Please visit our WEB (http://en.aqsys.co.jp) for details of specification.

APPQO-HP2EX



Worked by

Compressed Air

Acceptable viscosity

Up to 3000 cP

Compressor with

10HP or higher



- Collection power is 150% powerful Than existing APPQ0550.
- Powerful collection into drum can.
- Please visit our WEB (http://en.aqsys.co.jp) for details of specification.



Pail Pumps Options

									_			_				
		Types	A V C - 5 5	AVC-55PC	APPQ0400EX	APPQ0550EX	APPQ0550CEX-SET	APPQO-HP2EX	AVC-550SUSEX	EVC-550EX	EVC550 C-SETEX	APPQO-CY20EX	APPQO-CY32EX	APPQO-CY40EX	APPQOEX	APPQO-HEX
	Α	Main Nozzle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	В	Square Nozzle	•	•	-	•	•	•	•	•	•	-	-	-	-	-
Acı	С	Open Pail Can	-	•	-	-	•	-	-	-	•	-	-	-	-	-
Accessories	D	Pail Can Carrier 🔭	-	•	-	-	•	-	-	-	•	-	-	-	-	-
ries	Е	T Type Nozzle	-	-	-	-	•	-	-	-	•	-	-	-	-	-
	F	Filter Set	-	-	-	•	•	•	•	•	•	•	•	•	-	-
	G	Oil Stopper	•	•	•	•	•	•	•	•	•	-	-	-	•	•
	Α	Main Nozzle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	В	Square Nozzle	•	•	-	•	•	•	•	•	•	-	-	-	-	-
	С	Open Pail Can	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	D	Pail Can Carrier	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Е	T Type Nozzle	•	•	-	•	•	•	•	•	•	-	-	-	-	-
	F	Filter Set	•	•	•	•	•	•	•	•	•	•	•	•	-	-
	G	Oil Stopper	-	-	•	•	•	•	•	•	•	-	-	-	•	•
Option	Н	Closed Pail Can	-	-	-	-	-	-	-	-	-	-	-	-	-	-
tion	ı	Nozzle With Socket	•	•	•	•	•	-	•	•	•	-	-	-	•	•
	J	Brush Nozzle	•	•	-	•	•	-	•	•	•	-	-	-	-	-
	K	Silencer	•	•	•	•	•	-	-	-	-	-	-	-	-	-
	L	Pail Can Holder	•	•	•	•	•	-	-	-	•	•	•	•	•	•
	М	Sus Can	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	N	Top Plate 100L	•	•	-	•	•	•	•	•	•	•	•	•	-	-
	0	Top Plate 200L	•	•	-	•	•	•	•	•	•	•	•	•	-	-
	Р	Drum Can Carrier 🗬	•	•	-	•	•	•	•	•	•	•	•	•	-	-

*SUS can only.



Air Pressure Pail Pumps

The Pump For Pail Can





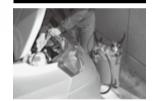
Discharge Head

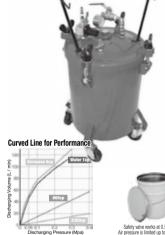
30m Max.

Acceptable viscosity

Up to 5000 cP

Discharging capacity
50L/min.





Specifications Table

Types		APP-CEX-AL	APP-CEX-SUS	APP-CEX-PP
Acceptable liquid		Diesel, Kerosene, Oil	Gasoline, Acid / Alkaline Solvents	Acid / Alkaline liquids
Materials	Body & Connecting Parts	Steel / AL. BC	Steel / SUS	Steel / PP
als	Packing	NBR	Fluorine Rubber	Fluorine Rubber
Operated by		Air Pressure		
Weight (without hose / kg) 23.0				

Air Pressure Pumps



The Pump For Pail Can 🗟 🕏



Worked by Compressed Air

Acceptable viscosity

Up to 2500-4000 cP

Discharging capacity

28-40L/min.



Specifications Table

Types		DF4P-15SUS EX	DF4P-15G EX	DF4P-15AS EX
Acceptable liquid		Solvent, Chemical	Diesel, Kerosene, Gasoline, Oil	Solvent
	Max viscosity	2,500	4,000	2,500
Max	delivery rate at 1cP (L)	28	40	28
Discharge Head (m)		40	40	40
	Body / Nozzle	Stainless	Aluminum	Aluminum
<u>≲</u>	Diaphragm	Hytrel	Hytrel	Teflon
Materials	Packing	Teflon	Teflon, Fluorine Rubber	Teflon
als	Hose	Stainless hose(\$15.2m)	Oil rubber hose(\$\phi15\cdot 2m)	Stainless hose(\$\phi15\cdot 2m)
Air consumption (NL/min)		250	250	250
Weight (kg)		6.0	5.6	5.2
	Option	Pail can (close type)		



Air Motor Pumps

The Pump For Pail Can





Worked by **Compressed Air**

Discharge Head

4.2m Max.

Acceptable viscosity

Up to 100 cP



Specifications Table

	Types	MH21NA-V	MH316MA-V
Acceptable liquid		Acid / Alkaline liquids	Acid / Alkaline liquids
Body & Connecting Parts PVDF / PVC / Hastelloy C		PP / PVDF / PVC / Hastelloy C	SUS316 / PTFE
Materials	Packing	Teflon, Fluoro-rubber	Teflon, Fluoro-rubber
	Operated by	Air	
	Weight (kg)	2.3	3.2

Manual Pumps



The Pump For Pail Can

P-S EX series



Worked by **Manual, Piston**

Acceptable viscosity

Up to 10,000 cP



Specifications Table

Types		P-S	P-SX	P-SXT
Acceptable 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 1.0		1.0
	Option		Pail can (close type)	

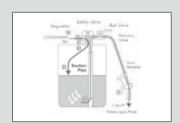
APD-EX series

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



Delivery Mechanism

- 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.
- A. Air pushes the surface of the liquids inside of the
- 5. The pushed liquid enters into the suction pipe.
- 6. Liquid enters into the hose and goes out through the nozzle.



Drum Can Inlet's Shape





For Emergency Use

In case neither electricity nor compressed air is available, you can use APD-20 series pump by using manual air pump (foot pump or hand piston pump).

Nozzle type





Valve type



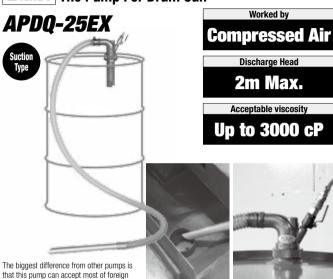


Specifications Table

Туре	S	APD-REX €	APD-20(25)EX	APD-20(25)NEX	APD-20(25)GEX	APD-20(25)GNEX	APD-20(25)ASEX	APD-20(25)ASNEX	APD-20SUS	APD-20SUSN
Functi	ion	Delivery	Delivery	Delivery	Delivery	Delivery	Delivery	Delivery	Delivery	Delivery
Accepta	able	General oil	General oil	General oil	Kerosene, Diesel, Gasoline	Kerosene, Diesel, Gasoline	Solvents	Solvents	Solvents, Acid and Alkaline liquids	Solvents, Acid and Alkaline liquids
Deale	Body	AL	AL	AL	AL	AL	AL	AL	SUS304	SUS304
Parts materials	Packing	Fluoro-Rubber	Fluoro-Rubber	Fluoro-Rubber	Fluoro-Rubber	Fluoro-Rubber	Teflon, Fluoro-Rubber	Teflon, Fluoro-Rubber	Teflon, Perflu	Teflon, Perflu
materiais	Hose	PVC (D25x2m)	PVC (D25x2m)	PVC (D25x2m)	Oil resistant rubber(D25x2m)	Oil resistant rubber(D25x2m)	SUS304 (D25x2m)	SUS304 (D25x2m)	SUS304 (D20x2m)	SUS304 (D20x2m)
Max	1cP	65 (150)	65 (150)	55 (80)	55 (115)	50 (70)	35 (115)	30 (70)	40	35
delivery	500cP	30 (60)	30 (60)	20 (40)	20 (45)	15 (30)	15 (30)	15 (30)	15	10
rate (L/min)	1000cP	15 (25)	15 (25)	9.5 (20)	7 (20)	7 (15)	6 (15)	6 (15)	5.5	5
Discharge	Head	Max 2m	Max 2m	Max 2m	Max 2m	Max 2m	Max 2m	Max 2m	Max 2m	Max 2m
Weight	(kg)	4.4	4.4	4.3	5.6	5.3	5.3	4.9	7.8	7.6

Vacuum Drum Pumps

The Pump For Drum Can



Specifications Table

materials, as well as high viscosity liquid.

•				
Types		APDQ-25EX	APDQ-25GEX	APDQ-25AS EX
Function	1	Suction	Suction	Suction
Acceptable	liquid	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
Discharge Head		Max 2m	Max 2m	Max 2m
Weight (kg)		3.3	4.4	4.0
Option		Drum can		

Air Pressure & Vacuum Drum Pumps



23

The Pump For Drum Can



Specifications Table

Types		APDX-25EX	APDX-25GEX	APDX-25AS EX
Function	า	Delivery / Suction	Delivery / Suction	Delivery / Suction
Acceptable	liquid	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	1cP	70 / 100	50 / 70	50 / 70
rate (L / min)	500cP	50 / 45	35 / 25	35 / 25
(in / out)	1000cP	30 / 20	20 / 10	20 / 10
Discharge Head (m)		2.0		
Weight (kg)		4.3	5.7	5.3
Option		Drum can		

Air Driven Motor Pumps

The Pump For Drum Can



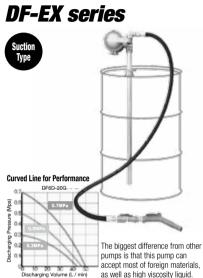
Specifications Table

Types		KFC103A-NEX	KFC104A-NEX	
	Acceptable liquid	Acid / Alkaline liquids	Solvent	
	Max viscosity (cP)	100	100	
Ma	ax delivery rate at 1cP	65L / min	65L / min	
	Discharge Head (m)	7.5	7.5	
×	Body / Nozzle	PP / PVDF / Hastelloy C / PVC	SUS304 / PVDF	
Materials	Packing	Teflon, Fluoro-rubber	Teflon, Fluoro-rubber	
als	Hose	Reinforced PVC (D25x2m)	SUS304 (D25x2m)	
	Weight (kg)	5.8	9.9	
	Option	Drum	ı can	

Air Diaphragm Pumps



The Pump For Drum Can



Worked by

Compressed Air

Acceptable viscosity

1000-4000 cP

Discharging capacity

30-55L /min.



Specifications Table

Types		DF4D-20GEX	DF4D-20ASEX	DF6D-20GEX	DF6D-20ASEX	
Ac	ceptable liquid	General oil, Diesel, Gasoline, Kerosine	Solvent	General oil, Diesel, Gasoline, Kerosine	Solvent	
Max	x viscosity (cP)	4000	1000	4000	1000	
Max	delivery rate at 1cP	30L / min	30L / min	55L / min	55L / min	
Dis	charge Head (m)		40			
	Body / Nozzle	AL				
<u>s</u>	Diaphragm	Hytrel	Teflon	Heytrel	Teflon	
Materials	Packing	Teflon, Fluoro-rubber	Teflon	Teflon, Fluoro-rubber	Teflon	
als	Hose	Oil resistant rubber(D20x2m)	SUS304 (D20x2m)	Oil resistant rubber(D20x2m)	SUS304 (D20x2m)	
	Air consumption		250 NI	_ / min		
1	Weight (kg)	7.5	6.1	8.5	7.1	
	Option		Drum	n can		

mps

Portable Type Pumps

Recommendable For Continuous Operation

AMH1-20/25EX



Discharge Head

10-15m Max.

Acceptable viscosity

Up to 2000 cP

Discharging capacity

32-40L/min.

Curved Line for Performance

Authority Street

AMMH-20 EX



Specifications Table

Types		AMH1-20 EX	AMH1-25 EX
Acceptable liquid		Kerosene, Oil, Bio diesel, Gasoline, Diesel	Kerosene, Oil, Bio diesel, Gasoline, Diesel
Max viso	cosity (cP)	2,000	2,000
Max delivery	rate at 1cP (L)	32	40
Discharg	e Head (m)	10	15
Materials	Body	Aluminum	Aluminum
Packing		Teflon	Teflon
Weight (kg)		7.2	7.5
Op	otion	Handy hose set, Drum set	

Portable Type Pumps

Recommendable For Continuous Operation

ACH-20 EX

Worked by

Compressed Air

Discharge Head

5m Max.

Discharging capacity

50L/min.



Specifications Table

Ту	ре	ACH-20 EX
Acceptal	ole liquid	Kerosene, Oil(under 100cP), Diesel
Max visc	osity (cP)	100
Max delivery r	ate at 1cP (L)	50
Discharge	Head (m)	5.0
Materials	Body	Aluminum
iviateriais	Packing	NBR
Weigh	nt (kg)	4.2
Opt	ion	Handy hose set, Drum set

ven Pumps

Portable Rotary Drum Pumps

The Pump For Drum Can

HR-2B EX







Specifications Table

Types		HR-2B EX	HR-25G EX
Delivery ability (cc / rev)		240	240
Acceptable liquid		Kerosene, Light oil, Fuel oil A, Oil	Kerosene, Gasoline, Diesel, Fuel oil A, Oil
	Body	FC casting	FC casting
Materials	Packing	NBR	NBR, Teflon
Hose		PE (Φ25X1.2m)	PVC (Φ25x1.2m) (Oil resistant) ground wire
	Weight (kg)	7.0	6.6

Portable Rotary Drum Pumps

The Pump For Drum Can

HF-1000 EX

HRD-25SUS EX





Specifications Table

	Types	HF-1000 EX	HRD-25SUS EX		
Del	livery ability (cc / rev)	1,000	220		
1	Acceptable liquid	Kerosene, Light oil, Fuel oil A, Oil	Solvents, Chemical, Diesel, Fuel oil A, Oil		
~	Body	AL, Zn alloy	SUS		
Materials	Packing	NBR	Teflon		
S	Hose	PE (Φ32-19X1.2m)	None OP. SUS304 Φ20x1.2m		
	Weight (kg)	8.0	7.4		

nd Rotary Pumps



The Pump For Drum Can

EV-200EX series



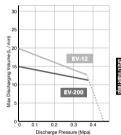
Discharging capacity

15L/min.

Available

220V

Curved Line for Performance





EVH-200EX (Handy hose set)



 $EVD\text{-}200EX \; \text{(Drum set)}$



Specifications Table

Types	EV-200EX	EVH-200EX	EVD-200EX	EV-12EX	EVH-12EX	EVD-12EX
Max pressure (Mpa)	0.45	0.45	0.45	0.45	0.45	0.45
Discharge Volume (cc) (ISO32oil)	15L / min	15L / min	15L / min	15L / min	15L / min	15L / min
Discharge head (m)	30	30	30	30	30	30
Connection Size	In:Rc1, Out:Rc1 3/4	In:Rc1, Out:Rc1 3/4	In:Rc1, Out:Rc1 3/4	In:Rc1, Out:Rc1 3/4	In:Rc1, Out:Rc1 3/4	In:Rc1, Out:Rc1 3/4
Motor (HP)	1/2	1/2	1/2	3/4	3/4	3/4
Electricity (V / A)	AC230V Single / 3.9A	AC230V Single / 3.9A	AC230V Single / 3.9A	DC12V / 35A	DC12V / 35A	DC12V / 35A
Weight (kg)	12.0	16.8	16.8	14.2	19.0	19.0
Max Viscosity (cP)	2500	2500	2500	2500	2500	2500
Option		Handy hose set	Drum set		Handy hose set	Drum set



Electric Portable Pumps



Electric Portable Pumps

Worked By Electricity



Specifications Table

opoomoutiono lubio			
Туре	EVP-56 EX	EVPH-56EX	EVPD-56EX
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 / 22A	AC230V Single / 22A	AC230V Single / 22A
Weight (kg)	7.4	12.2	12.2
Max Viscosity	-	-	-
Option	-	Handy hose set	Drum set

Electric Pumps



The Pump Can Be Use In Auto Stop Measuring



Specifications Table

	Ту	ре	CUBE-56EX				
	Acceptal	ole liquid	Kerosene, Diesel				
	Max deliver	y rate at 1c	56				
	Discharge	Head (m)	2.0				
_	В	ody / Nozzle	Aluminum, Steel				
Materials		Packing	NBR				
erial	Ele	ctricity (V / A)	AC230V Single				
» ا		Hose	Oil rubber hose (\$\phi 20.3m), with strainer				
	Weigh	nt (kg)	24				
Llege	longth	In (m)	2.0				
Hose	length	Out (m)	3.0				
	Opt	ion	Stand type, Tabietop type				



Semi Rotary Wing Pumps

Recommendable For The Engine Of The Generator, And Drinking Water Filtration Device Of Emergency

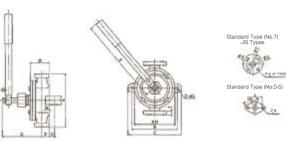
YATSUNAMI / KING / JIS-5K·10K type



Specifications Table

-			
Тур	oes	YATSUNAMI / Standard JIS-5K•10K type	KING
Acceptal	ole liquid	oil	oil
Discharge Vo	lume(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
ivialeriais	Packing	NBR	NBR
Connect	tion Size	JIS 5K / 10K 15-50	Rc1 / 2/Rc2

YATSUNAMI / KING / JIS5K·10K



≾	Turnon	Dia.				N	lain E	Body	Dim	ensic	n					Fla	nge I	Dime	nsior	1	Weight	Companion
'ATSU	Types	Dia.	Α	В	С	Е	F	G	Н	J	К	L	М	N	а	b	С	d	f	g	(kg)	Flange Dia.
NAM	NO.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
	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
Standard	2	25	208	146	177	365	33	145	22	36	15	11	156	75	12	66	56	25	15	2-M8	7.2	Rc1
dard	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
Туре	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
Ж	7	50	329	235	282	600	50	225	25	48	25	16	240	115	-	105	130	50	20	4-M12	22.3	Rc2

П	Types	Dia.				M	lain E	Body	Dim	ensic	n					Fla	nge I	Dime	nsior	١	Weight	Companion
-lange	Types	Dia.	Α	В	С	Е	F	G	Н	J	К	L	M	N	a	b	С	d	f	g	(kg)	Flange Dia.
ge]	JIS5K-15	15	194	132	165	330	30	135	20	35	15	11	137	70	-	60	80	20	14	4-12	5.9	-
Гуре	JIS5K-20	20	194	132	165	330	30	135	20	35	15	11	137	70	-	65	85	20	14	4-12	5.9	-
2	JIS5K-25	25	210	146	177	365	33	145	17	37	16	11	153	75	-	75	95	25	15	4-12	7.6	-
S	JIS5K-32	32	248	168	204	400	40	165	24	42	20	16	178	93	-	90	115	32	16	4-15	10.5	-
웃	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	329	235	282	600	50	225	25	48	25	16	240	115		105	130	50	18	4-15	20.7	-

П	Types	Dia.				M	ain E	Body	Dim	ensic	n					Fla	nge I	Dime	nsior	1	Weight	
Flange	Types	Dia.	Α	В	С	Е	F	G	Н	J	К	L	М	N	а	b	С	d	f	g	(kg)	Flange Dia.
	JIS10K-15	15	200	132	165	330	30	135	20	35	15	11	137	70	-	70	95	20	15	4-15	6.6	-
Туре	JIS10K-20	20	200	132	165	330	30	135	20	35	15	11	137	70	-	75	100	20	15	4-15	6.6	-
2	JIS10K-25	25	220	146	177	365	33	145	17	37	16	11	153	75	-	90	125	25	20	4-19	9.0	-
S	JIS10K-32	32	250	168	204	400	40	165	24	42	20	16	178	93	-	100	135	32	20	4-19	11.5	-
Š	JIS10K-40	40	298	198	235	460	45	195	20	46	20	16	205	100	-	105	140	40	20	4-19	14.6	-
	JIS10K-50	50	330	235	282	600	50	225	25	48	25	16	240	115	-	120	155	50	20	4-19	20.7	-

-	Tunno	Dia.					Main	Body	Dime	nsion	1					Fla	nge [Dimen	sion	
ZING	Types	Dia.	Α	В	С	Е	F	G	Н	J	K	L	M	N	а	b	С	d	f	g
0		15	180	126	153	330	21	131	19	35	12	11	131	64	11	60	44	20	11	2-M8
iali	1	20	180	126	153	330	21	131	19	35	12	11	131	64	11	60	44	20	11	2-M8
dard		25	203	137	170	360	27	141	18	36	13	11	146	71	12	66	56	25	12	2-M8
-		32	232	155	190	400	31	165	20	36	14	15	170	75	15	76	61	32	12	2-M10
Уpе	5	40	265	168	211	460	38	183	17	40	18	16	198	95	16	85	72	40	14	2-M10
	7	50	312	197	234	600	45	215	31	49	20	16	218	103	-	105	130	50	14	4-M12

Flow Meter

MK33D(0)-25EX

Manual Type (Acceptable For The Liquid Under 0.15Mpa)

GN-AL20/25EX GN-SUS20/25EX GN-PP20/25EX

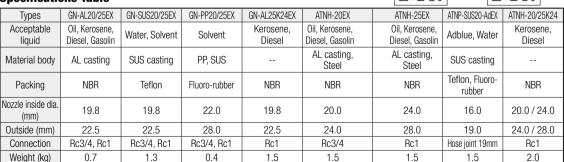


Auto stop type (Acceptable for the liquid under 0.2Mpa and flow range 30-80L/min)

ATNH-20EX ATNH-25EX ATNP-SUS20-AdE



Specifications Table



Recommendable For Measuring The Volume Of Discharged Liquid

TB-K24EX



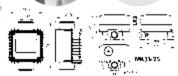


Nozzle & Meter

GN-AL25K24EX ATNH-20/25K24







Specifications Table

Types	MK33D(0)-25EX	TB-K24EX
Acceptable liquid	Kerosene, Diesel (Oil)	Kerosene, Diesel
Packing	NBR	NBR
Connection	G1	G1
Weight (kg)	0.4	0.4
Remarks	-	Battery Powerd



Drum Cock

Recommendable For Subdivision Of Liquid For Pail Can And 18L (Dripproof Filling, Keep Horizon Fally)

PE-66(40)EX

BV-40(50)EX







SP-40(50)EX ND-40(50)EX BVA-40(50)EX











DMA-5EX











DMN-30EX

DMY-100/150/200/250EX







Specifications Table

Ш	I/	/loaeis	PE-bb	BV-40	BA-20	BVA-40(50)	SP-40(50)	SP-L40	ND-40(50)		
-	Ассер	table Liquid		Low Viscosity Oil, Wa	shing Liquid, Wax			Gasoline, Water, Solvent	High Viscosity Oil		
ſ		Can				Pail Can,	18LCan				
Ī	Mater	Body	Hard Polyethylene, 66 Nylon	Hard Brass (Chrome Plating), 66 Nylon	Hard Brass (Chrome	Plating), SUS304		SUS 304			
	erials	Packing	Hard Brass (Chrome Plating)		NBR			Silicon Teflon Coating			
Ī	Spe	cification	Mass: 80g	Mass: 280g	Mass: 600g	Mass: 640g(750g) with pipe	Mass: 650g(760g) Mass: 650g(760g) with pipe, and with pipe and handle lever rock handle lever rock				
Ī		ernal Dia. itting gate	External Discharging	Gate of can. Dia.41	External Discharging	Gate of can. Dia.48.8	External Discharging Gate of can. Dia.41 (Ext. Dia. 48.8)				

N	/lodel	DMO-10EX	DMY-20EX	DMY-100EX	DMY-150EX	DMY-200EX	DMY-250EX	DMN-30EX	DMA-5EX					
Dia. of fl	owing route	13	9.2	12.5	16	20	24.5	40	3.6					
Li	iquid	Low viscosity oil, Kerosene, Diesel, Gasoline	Solvent, Water	Oil, Sol	vent, Water, Kero	sene, Diesel		High viscosit	y oil, Solvent					
(Can			Drum Can										
Material	Body	Brass, SUS		SUS 304										
Material	Packing	NBR			Silio	con Teflon Coating								
Spec	cification	Mass: 880g	Mass: 860g	Mass: 1180g	Mass: 1480g	Mass: 1980g	Mass: 2280g	Mass: 915g	Mass: 240g					
Internal Dia	. for fitting gate			Dia. 57.3										

RACKT-MEX RACK1-MEX







RACK2-MEX RACK-MEX(sus)

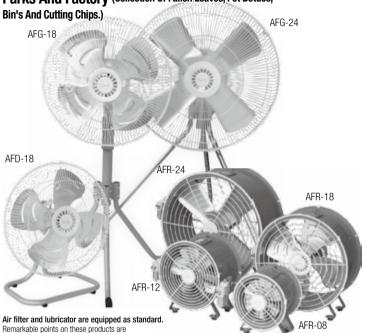






Industrial Fans Worked By Air Motor Type

Recomendable For Cleaning Of Parking Areas, Parks And Factory (Collection Of Fallen, Leaves, Pet Bottles,



- · With longer life motor, workable with the depressed air.
- Neither fire nor explosion is expected, as no electricity is required.
- Air hose can be easily connected with one-touch movement. Once valve is open, this fan start working immediately.
- Revolution number is steplessly adjustable with the valve. So, you can easily find the most suitable condition.
- · Various kinds and sizes give you wide choices.
- . 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.

AFG-18/24EX AFREX series AFWEX series



Specifications Table

	Types	AFG-18	AFG-24	AFD-18		
	Dia. of fan (mm)	450	600	450		
7>	Air pressure (Mpa)	0.5	0.6	0.5		
Air motor	Flow (m³ / min)	30	50	30		
	Revolution (rpm)	1,500	1,000	1,500		
=	Air consumption (m³ / min)	0.21	0.39	0.21		
	Weight (kg)	7.8	11.7	7.2		
Available air pressure (Mpa)		0.4-0.5	0.4-0.5	0.4-0.5		
Нр		3	5	3		

	Types		AFR-08	AFR-12	AFR-18	AFR-24	AFW-18	AFW-24	
	Dia. of fan (mm)		200	300	450	600	450	600	
	- A	Air pressure (Mpa)	0.5	0.5	0.5	0.6	0.5	0.6	
	ir n	Flow (m³ / min)	30	30	50	50	30	50	
noto	Revolution (rpm)	4,700	2,000	2,000	1,300	1,500	1,000		
	Air motor	Air consumption (m³ / 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	
	A۱	vailable air pressure (Mpa)	0.4-0.6	0.4-0.6	0.4-0.6	0.6	0.4-0.6	0.4-0.6	
	Нр		2	3	3	5	3	5	

Pushing-Gleaner Eco Sweeper Collectable From Casting Metal Iron Up To Pet Bottle.



recommendable to collect fallen leaves to pet bottles at narrow



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



recommendable for fine rubbishes such as casting power up to allen leaves at factory and/or wide areas.

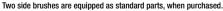






Just push SWEEPER, while walking, then rubbishes can be easily collected. . Just push SWEEPER while walking in the factory, street.

- 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.



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



				M	lanual Typ	ре			Air Type					
	_	Discharge												
Cans	Drum Pail							Drum						
Viscosity		Low		igh	Low High				Low Medium					
riccounty				~	≥ S	z		ف ا	_					
		HRD-25SUSEX	LX(LXHS)Ð	DMN-30E	SP-40(50)EX / MWC40SUSEX	ND-40(50)EX	P-SXEX	P-SXTE)	KFC104A-NEX	KFC103A-NE)	DF6D-20AS / DF4D-20ASEX	DF6D- 20SUSEX		
	Sp. Gravity	25S	X	300	86) Š	2	灵	4 4	👺	-20 -20	₩.		
	uravity	ISI	모	×		👸			À	À	ASE AS			
										×				
Acetone	0.79	•	•	•	•	•	•	•	•		•	•		
Ammonia water	0.68	•	•	•	•	•	•	•	•		•	•		
Isopropyl alcohol	0.79	•	•	•	•	•	•	•	•		•	•		
Ethyl alcohol	0.79	÷	•	•	•	•	•	•	•		•	•		
Ethylene glycol Sodium chloride	2.17	•	•	•	•	•	•	•	•	•	•	-		
Methylene chloride	1.32	•	•	•	•	•	•	•	•	_		•		
*Hydrochloric acid	1.52	_	_	_	_	_	_	_	_			_		
Denity: 10-30	1.19									•	I			
Hydrogen peroxide	15								-	_				
Density: 3	1.13	•	•	•	•	•	•	•	•	•	•	•		
Density: 20	1.13	•	•	•	•	•	•	•	•	•	•	•		
Density: 5/Temp. 50C	1.13	•	•	•	•	•	•	•	•		•	•		
Density: 90	1.13	•	•	•	•	•	•	•			•	•		
Gasoline	0.73	•	•	•	•	•	•	•	•		•	•		
Xylene	0.88	•	•	•	•	•	•	•	•		•	•		
Citric acid	1.54			_		_	_	•		•	_	_		
Glycerin	1.27		•	•		•	•	•			•	•		
Chloroform	1.14	•	•	•	•	•	•	•	•			•		
Diesel oil	0.8- 0.89	•	•	•	•	•	•	•	•		•	•		
Kerosene	0.78- 0.84	•	•	•	•	•	•	•	•		•	•		
*Acetic acid	0.01													
Density: 10-50	1.70	•	•	•	•	•	•	•	•	•		•		
Ethyl acetate	0.90	•	•	•	•	•	•	•	•		•	•		
Methyl acetate	0.90	•	•	•	•	•	•	•	•		•	•		
Hypochlorous acid														
Sodium hyprochlorite	1.15									•				
Diethylene glycol	-	•	•	•	•	•	•	•	•	•	•	•		
Dimethylformamide	0.93				_	_	_	•						
Nitric Acid (Density:10)	1.50	•	•	•	•	•	•	•	•	•	-	•		
Nitric Acid (Density:30)	1.50	•	•	•	•	•	•	•	•	•		•		
*Sodium hydroxide Density: 10-50	2.13	•	•	•	•	•	•	•	•	•		•		
Triethanolamine	1.12	•	•	•	•		•	•	•	_	•			
Trichloroethylene	1.33	•		•	•		•	÷	•					
Trichloroethane	1.46	÷	•	•		•	•	÷	•		•	•		
Toluene	0.88	•	•	•	•	•	•	Ť	•		•	•		
Naphtha	0.76	•	•	•	•	•	•	•	•		•	•		
Bio-Diesel	0.8- 0.84	•	•	•	•	•	•	•	•		•	•		
*Perchloroethylene	1.622	•	•	•	•	•	•	•	•		•	•		
Butyl alcohol	0.81	•	•	•	•	•	•	·	•		•	•		
Propanol alcohol (Density 65)	0.80	•	•	•	•	•	•	•	•			•		
Hexane	0.67	•	•	•	•	•	•	•	•		•	•		
Benzyl alcohol	1.04	•	•	•	•	•	•	•	•			•		
Benzene	0.88	•	•	•	•	•	•	•	•		•	•		
Formaldehyde	1.08- 1.11	•	•	•	•	•	•	•	•		•	•		
Water	1.00	•	•	•	•	•	•	•	•	•		•		
Methyl alcohol	0.79	•	•	•	•	•	•	•	•		•	•		
Methyl isobuthyl ketone	0.80	•	•	•	•	•	•	•	•		•	•		
Methyl ethyl ketone	0.80	•	•	•	•	•	•	•	•		•	•		
*Sulfuric acid	1.04									•				
Density: 10-30	1.84									_				

	ŀ		Direct	Air Type		Sucking	Electric Type Sucking			
				harge		Discharge				
Cans		Pail				Others	Dr	um		ail
Viscosity			ow		igh	Medium			ow	Į
	Sp. Gravity	MH316MA-VEX	MH21NA-VEX	APP-C-SUSEX	APP-C-PPEX	AMH1-ALEX	KFC104-NEX	KFC103-NEX	MH316M-VEX	
Acetone	0.79	ê		ê						Ť
Ammonia water	0.68	_•		•						1
Isopropyl alcohol	0.79			•						Ť
Ethyl alcohol	0.79	•		•						I
Ethylene glycol	1.10	•	\Box	•	\sqsubseteq	•	•		•	I
Sodium chloride	2.17		•		•			•		Į
Methylene chloride	1.32	•			\bot		•			ĺ
*Hydrochloric acid	لببا				_			_		Ţ
Denity: 10-30	1.19					\perp		_		1
Hydrogen peroxide	112	_		_			_			Т
Density: 3	1.13	•	•	•	•	\vdash	•		•	ļ
Density: 20	1.13	•	•	•	•		•		•	+
Density: 5/Temp. 50C	1.13	•		-	-	\vdash	_		_	+
Density: 90 Gasoline	1.13 0.73	_		•						+
Gasoline Xylene	0.73	÷	—		—				+	+
Xylene Citric acid	1.54			_		_		•		+
Glycerin	1.54		_		_			_		+
Chloroform	1.14	•				_			•	t
	0.8-									+
Diesel oil	0.89	•		•		•	•		-	1
Kerosene	0.78-	•		•		•	•	l	•	
*Acetic acid										Ţ
Density: 10-50	1.07	•					•	•		Ī
Ethyl acetate	0.90	•		•						I
Methyl acetate	0.90	•		•						I
Hypochlorous acid					•					ĺ
Sodium hyprochlorite	1.15		•		•	\Box		•		Į
Diethylene glycol	- 1	•	•	•	•	•	•	•	•	Į
Dimethylformamide	0.93		L_	_	-	\Box			L_	ļ
Nitric Acid (Density:10)	1.50	•	•	•	•	$\overline{}$	•	•	•	1
Nitric Acid (Density:30)	1.50	•	•	•	•	\vdash	•	•	•	+
*Sodium hydroxide	2.13	•		•		\vdash		•	•	+
Density: 10-50 Triethanolamine	1.12	_			_	\vdash	_	_	_	+
Tricthoroethylene	1.12	×		-			•		•	+
Trichloroethane	1.46	÷			\vdash		•	_		+
Toluene	0.88	-		Ĭ						+
Naphtha	0.76	Ť		ě						t
	0.8-						_		_	t
Bio-Diesel	0.84	_		_			•		_	1
*Perchloroethylene	1.622	•		•		\Box	•		•	Į
Butyl alcohol	0.81	•	\Box	•		•			\bot	Į
Propanol alcohol (Density 65)		•		•						Į
Hexane	0.67	•	_	•	_	•			_	ļ
Benzyl alcohol	1.04	•		•						+
Benzene	0.88	•	-	•	-	_				ļ
Formaldehyde	1.08-	•		•						1
Water	1.00	•	•	•	•	\vdash	_	•	•	ļ
Methyl alcohol	0.79	•		•	-	•				+
Methyl isobuthyl ketone	0.80			-	-	\vdash			-	+
Methyl ethyl ketone	0.80	•								L
*Sulfuric acid Density: 10-30	1.84					_				Т
Deliaity, 10°30	1.04				_					L