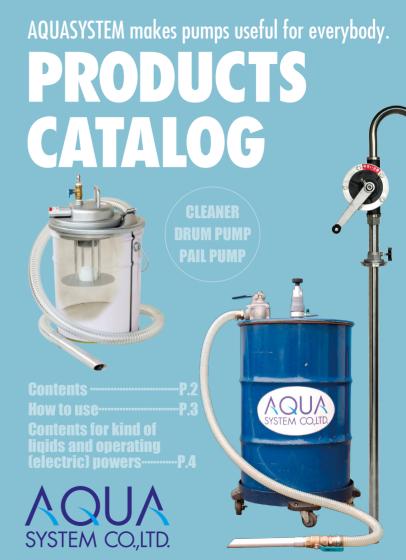
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# AQUASYSTEM Co., Ltd. JAPAN



# **Contents**



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

1-3-1 Kyo-machi, Hikone-shi, Shiga-pref., JAPAN 522-0081 Phone: +81-749-23-9139 Fax: +81-749-23-9122 English : trade@agsys.co.jp Thailand ; thai@agsys.co.jp Vietnam; vietnam@aqsys.co.jp China: china@aqsys.co.jp http://en.agsys.co.jp/ http://global.agsys.co.jp/

|                                       |              |                | Туре         | Cueling     |             | Air Type    | Discharge    |              |          | Electric Typ<br>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<br>Trichloroethylene  | 1.33<br>1.46 |                | •            | •           | •           |             | •            | •            | •        | •                         |           |
|                                       | 0.88         |                | •            | •           | •           |             | •            | •            | •        | •                         |           |
| Foluene                               |              |                | •            |             |             |             | •            | •            |          |                           | <u> </u>  |
| Naphtha<br>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<br>'Sulfuric acid | 0.8          |                | •            |             |             |             |              | •            |          |                           |           |
|                                       |              |                | 1            | 1           |             |             | 1            |              | 1        | 1                         | 1         |

# How to use

# ANNOUNCEMENT

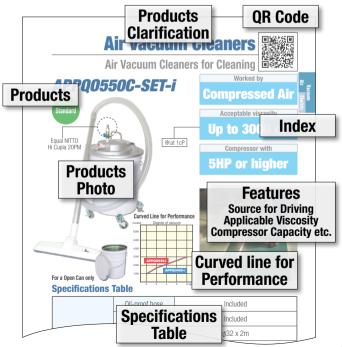
Please be noted that

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 |
|---------------------------|-------------|-----|---------------------|----------|---------|---------------|-------|---------|--------|--------------------------|------|
| New                       | Air         |     |                     |          | •       | •             | ٠     |         |        | CHD series               | 6    |
| New Products              | Electric    |     |                     |          | •       | •             | ٠     |         |        | CHD series               | 7    |
| ucts                      | Air         | •   |                     |          |         |               |       |         |        | APDQO-F series           | 8    |
|                           |             | •   |                     |          |         |               |       |         |        | AVC-55                   | 11   |
|                           |             | •   |                     |          |         |               |       |         |        | APPQO 550-i              | 12   |
|                           | Sucking Air | •   |                     |          |         |               |       |         |        | APPQO 400-i              | 12   |
|                           | (Cleaner)   | •   |                     |          |         |               |       |         |        | APPQ0550C-SET-i          | 13   |
| ×                         |             | •   |                     |          |         |               |       |         |        | APPQ0550S-i              | 13   |
| Vacuum                    |             | •   |                     |          |         |               | •     |         |        | AVC-550SUS-i (Stainless) | 14   |
| з                         | Electric    | •   |                     |          |         |               |       |         |        | EVC-550-i                | 15   |
|                           |             | •   |                     |          |         |               |       |         |        | APPQO-i                  | 16   |
|                           | Discharging | •   |                     |          |         |               |       |         |        | APPQO-H-i                | 17   |
|                           | Air         |     |                     |          |         |               |       |         | Powder | APPQO-CY series          | 18   |
|                           |             | •   |                     |          |         |               |       |         |        | APPQO-HP2-i              | 19   |
| Pail                      | Manual      | •   | •                   |          |         |               |       |         |        | P-S series               | 22   |
|                           |             | ٠   |                     |          |         |               |       |         |        | APD-R-i                  | 23   |
| Drum                      | Air         | ٠   | •                   |          | •       |               |       |         |        | APD series               | 24   |
| m                         | All         | ٠   | ٠                   |          | •       |               |       |         |        | APDQ-25 series           | 26   |
|                           |             | ٠   | •                   |          | ٠       |               |       |         |        | APDX-25 series           | 27   |
| _                         |             |     | ٠                   |          | •       |               |       |         |        | ACH series               | 28   |
| Portable, Hose Connection |             | ٠   | ٠                   |          | •       |               |       |         |        | AMVH series              | 29   |
| ole, H                    |             | ٠   | ٠                   |          | •       |               |       |         |        | AMH1 series              | 30   |
| ose                       | Air         | ٠   | •                   |          |         |               |       |         |        | DF series                | 31   |
| Conn                      |             | •   | •                   | •        |         |               |       |         |        | DF6H-20G-i               | 31   |
| lectic                    |             |     |                     |          | •       |               |       |         |        | DF2A-6PP-i               | 31   |
| Ξ                         |             | •   | •                   | •        |         |               |       |         |        | DF4P-15G-i               | 31   |
|                           |             | ٠   | •                   | •        |         |               |       |         |        | HR-25G-i                 | 32   |
| 모                         |             | •   | •                   |          |         |               |       |         |        | HR-2B-i                  | 32   |
| Drum                      |             | •   | •                   |          |         |               |       |         |        | HF-1000-i                | 32   |
|                           |             |     |                     |          | ٠       |               | ٠     |         |        | HRD-25SUS-i              | 33   |

|                           | Туре                    | Oil | Kerosene, Light Oil | Gasoline | Solvent | Acid/Alkaline | Water | Ad Blue | Other | Model                              | Page |
|---------------------------|-------------------------|-----|---------------------|----------|---------|---------------|-------|---------|-------|------------------------------------|------|
| _                         |                         |     |                     |          | •       |               | •     |         |       | HRP-25 III-i                       | 33   |
| Drum                      |                         |     |                     |          | •       |               | ٠     |         |       | S-LXHS-i                           | 34   |
|                           |                         |     |                     |          | ٠       |               | ٠     |         |       | S-LX-i                             | 34   |
| Portab                    |                         | ٠   |                     |          |         |               |       |         |       | EV-200-i series                    | 35   |
| le, Hos                   | Electric                |     | •                   |          |         |               |       |         |       | EVP-56-i series                    | 36   |
| Portable, Hose Connection |                         |     | •                   |          |         |               |       |         |       | CUBE-56K-i                         | 37   |
| oction                    | Manual                  | •   | •                   |          |         |               |       |         |       | YATSUNAMI / KING / JIS-5K 10K type | 38   |
|                           |                         | ٠   | •                   | •        |         |               |       |         |       | GN-AL20/25-i                       | 40   |
|                           |                         |     |                     |          | ٠       |               | ٠     |         |       | GN-SUS20/25-i                      | 40   |
|                           | Flow<br>Measuring       |     |                     |          | •       |               | •     |         |       | GN-PP20/25-i                       | 40   |
|                           | Nozzle                  |     | •                   | •        |         |               |       |         |       | ATNH-20-i                          | 40   |
|                           |                         |     | •                   | •        |         |               |       |         |       | ATNH-25-i                          | 40   |
|                           |                         |     |                     |          |         |               | •     | •       |       | ATNP-SUS20-Ad-i                    | 40   |
|                           | Flow Meter              | ٠   | •                   |          |         |               |       |         |       | MK33D(0L)-25-i                     | 41   |
|                           |                         |     | •                   |          |         |               |       |         |       | TB-K24-FM/Ad-i                     | 41   |
|                           | Manual                  |     | •                   |          |         |               |       |         |       | GN-AL25K24-i                       | 41   |
| Ą                         |                         |     | •                   |          |         |               |       |         |       | ATNH-20/25K24-i                    | 41   |
| ces                       | Auto Stop Gun<br>Nozzle |     |                     |          |         |               |       | •       |       | ATNH-20Ad-i                        | 41   |
| Accessories               |                         |     |                     |          |         |               |       | •       |       | ATPS-20Ad-i                        | 41   |
| S                         |                         |     |                     |          |         |               |       |         |       | AFG-18/24-i                        | 42   |
|                           | Fan                     |     |                     |          |         |               |       |         |       | AFW series                         | 42   |
|                           |                         |     |                     |          |         |               |       |         |       | AFR series                         | 42   |
|                           |                         |     |                     |          |         |               |       |         |       | AJL550S-i                          | 44   |
|                           | Sweeper                 |     |                     |          |         |               |       |         |       | AJL750S-i                          | 44   |
|                           |                         |     |                     |          |         |               |       |         |       | AJL920S-i                          | 44   |
|                           | Holder                  |     |                     |          |         |               |       |         |       | Gun Holder GN-H                    | 45   |
|                           | Stand                   |     |                     |          |         |               |       |         |       | Drum Pump Stand D-STAND            | 45   |
|                           | Louis Chooker           | ٠   |                     |          |         |               |       |         |       | E-C-i                              | 46   |
|                           | Level Checker           | ٠   |                     |          |         |               | ٠     |         |       | ZKT-D-OL(W)-i                      | 46   |



#### **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<br>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<br>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<br>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<br/>"APPQOG" f</li> </ul> |              |               | Comp                       | ressed Air      |
| kerosine and<br>"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,<br>Kerosene | Solvent, Acid /<br>Alkaline liquids | Solvent, Acid /<br>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<br>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<br>(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<br>Body<br>Packing<br>Hose<br>1cP<br>500cP<br>1000cP<br>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<br>Oil, Gasoline | Solvents      | Kerosene<br>Oil, Gasoline | Solvents      | Kerosene<br>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,<br>Fuel oil A, Oil | Kerosene, Gasoline,<br>Diesel, Fuel oil A, Oil | Kerosene, Light oil,<br>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)<br>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

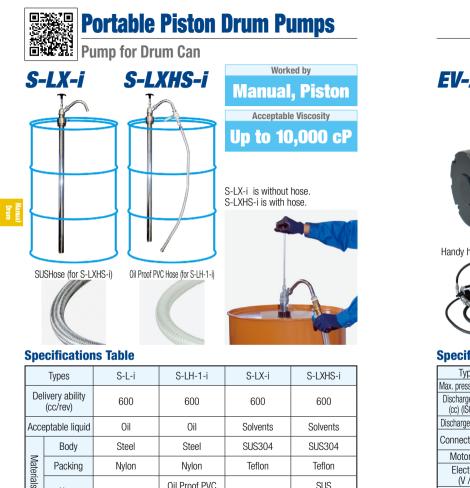
# HRD-25SUS-i



· 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<br>liquids | Solvents, Chemical, Diesel,<br>Fuel oil A, Oil |
|          | Body                     | PP,SUS       | SUS, Teflon, PPS                      | SUS  |
| Watenais | Packing                  | NBR          | Teflon                                | Teflon   |
| lais     | Hose                     | None         | None / SUS1.2m /<br>SUS1.2m           | None / SUS1.2m /<br>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

---



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

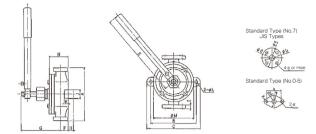
# YATSUNAMI / KING / JIS-5K·10K type



#### **Specifications Table**

| Тур             | Des            | YATSUNAMI / Standard<br>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<br>ו   | Weight  | Companion   |
| lange                              | Types  | Dia.  | A  | В   | С   | N<br>E  | lain E<br>F   | Body<br>G  | Dime<br>H   | ensic<br>J   | n<br>K  | L  | м   | N  | a   | Fla<br>b   | nge I<br>c  | Dime<br>d   | nsior<br>f   | n<br>g   | Weight<br>(kg)  | Companion<br>Flange Dia   |
| lange                              | Types<br>JIS10K-15   | Dia.<br>15  | A<br>200   | B<br>132  | C<br>165  | N<br>E<br>330   | lain E<br>F<br>30   | G<br>135   | Dime<br>H<br>20   | ensic<br>J<br>35   | n<br>K<br>15  | L<br>11  | M<br>137  | N<br>70  | -   | Fla<br>b<br>70   | nge l<br>c<br>95  | Dime<br>d<br>20   | nsior<br>f<br>15   | n<br>g<br>4-15   | Weight<br>(kg)<br>6.6   | Companion<br>Flange Dia   |
| lange Type                         | Types<br>JIS10K-15<br>JIS10K-20  | Dia.<br>15<br>20  | A<br>200<br>200  | B<br>132<br>132   | C<br>165<br>165   | N<br>E<br>330<br>330  | lain E<br>F<br>30<br>30   | Body<br>G<br>135<br>135  | Dime<br>H<br>20<br>20   | J<br>35<br>35  | n<br>K<br>15<br>15  | L<br>11<br>11  | M<br>137<br>137   | N<br>70<br>70  |   | Fla<br>b<br>70<br>75   | nge I<br>c<br>95<br>100   | Dime<br>d<br>20<br>20   | nsior<br>f<br>15<br>15   | g<br>4-15<br>4-15  | Weight<br>(kg)<br>6.6<br>6.6  | Companion<br>Flange Dia   |
| lange Type (JIS                    | Types<br>JIS10K-15<br>JIS10K-20<br>JIS10K-25   | Dia.  | A<br>200<br>200<br>220   | B<br>132<br>132<br>146  | C<br>165<br>165<br>177  | N<br>E<br>330<br>330<br>365   | lain E<br>F<br>30<br>30<br>33   | G<br>G<br>135<br>135<br>145  | Dime<br>H<br>20<br>20<br>17   | ensic<br>J<br>35<br>35<br>37   | n<br>K<br>15<br>15  | L<br>11<br>11  | M<br>137<br>137<br>153                                      | N<br>70  | •   | Fla<br>b<br>70<br>75<br>90   | nge I<br>c<br>95<br>100<br>125  | Dime<br>d<br>20<br>20<br>25   | nsior<br>f<br>15<br>15<br>20   | g<br>4-15<br>4-15<br>4-19  | Weight<br>(kg)<br>6.6<br>6.6<br>9.0   | Companion<br>Flange Dia<br>-<br>-   |
| lange Type (JIS :                  | Types<br>JIS10K-15<br>JIS10K-20  | Dia.<br>15<br>20<br>25  | A<br>200<br>200  | B<br>132<br>132   | C<br>165<br>165   | N<br>E<br>330<br>330  | lain E<br>F<br>30<br>30   | Body<br>G<br>135<br>135  | Dime<br>H<br>20<br>20   | J<br>35<br>35  | n<br>K<br>15<br>15  | L<br>11<br>11  | M<br>137<br>137   | N<br>70<br>70<br>75                                      | -   | Fla<br>b<br>70<br>75   | nge I<br>c<br>95<br>100   | Dime<br>d<br>20<br>20   | nsior<br>f<br>15<br>15   | g<br>4-15<br>4-15  | Weight<br>(kg)<br>6.6<br>6.6  | Companion<br>Flange Dia<br>-<br>-<br>-  |
| lange Type (JIS                    | Types<br>JIS10K-15<br>JIS10K-20<br>JIS10K-25<br>JIS10K-32  | Dia.<br>15<br>20<br>25<br>32  | A<br>200<br>200<br>220<br>250  | B<br>132<br>132<br>146<br>168   | C<br>165<br>165<br>177<br>204   | N<br>E<br>330<br>330<br>365<br>400                                  | lain E<br>F<br>30<br>30<br>33<br>40   | G<br>135<br>135<br>145<br>165  | Dime<br>H<br>20<br>20<br>17<br>24   | ensic<br>J<br>35<br>35<br>37<br>42   | n<br>K<br>15<br>15<br>16<br>20  | L<br>11<br>11<br>11<br>16  | M<br>137<br>137<br>153<br>178                               | N<br>70<br>70<br>75<br>93                                | -   | Fla<br>b<br>70<br>75<br>90<br>100  | nge I<br>95<br>100<br>125<br>135  | Dime<br>d<br>20<br>20<br>25<br>32   | nsior<br>f<br>15<br>15<br>20<br>20   | g<br>4-15<br>4-15<br>4-19<br>4-19  | Weight<br>(kg)<br>6.6<br>6.6<br>9.0<br>11.5   | Companion<br>Flange Dia<br>-<br>-<br>-  |
| lange Type (JIS                    | Types<br>JIS10K-15<br>JIS10K-20<br>JIS10K-25<br>JIS10K-32<br>JIS10K-40   | Dia.<br>15<br>20<br>25<br>32<br>40  | A<br>200<br>200<br>220<br>250<br>298   | B<br>132<br>132<br>146<br>168<br>198                                      | C<br>165<br>165<br>177<br>204<br>235  | N<br>E<br>330<br>330<br>365<br>400<br>460                           | lain E<br>F<br>30<br>30<br>33<br>40<br>45<br>50                                 | G<br>135<br>135<br>145<br>165<br>195<br>225                                  | Dime<br>H<br>20<br>20<br>17<br>24<br>20<br>25                                   | ensic<br>J<br>35<br>35<br>37<br>42<br>46<br>48   | n<br>K<br>15<br>15<br>20<br>20<br>25  | L<br>11<br>11<br>11<br>16<br>16<br>16  | M<br>137<br>137<br>153<br>178<br>205                        | N<br>70<br>70<br>75<br>93<br>100                         | -   | Fla<br>b<br>70<br>75<br>90<br>100<br>105                                     | nge I<br>c<br>95<br>100<br>125<br>135<br>140  | Dime<br>d<br>20<br>20<br>25<br>32<br>40<br>50   | nsion<br>f<br>15<br>15<br>20<br>20<br>20<br>20   | g<br>4-15<br>4-15<br>4-19<br>4-19<br>4-19<br>4-19                                  | Weight<br>(kg)<br>6.6<br>9.0<br>11.5<br>14.6<br>20.7  | Companion<br>Flange Dia<br>-<br>-<br>-<br>-<br>-<br>-   |
| lange Type (JIS 10K)               | Types<br>JIS10K-15<br>JIS10K-20<br>JIS10K-25<br>JIS10K-32<br>JIS10K-40   | Dia.<br>15<br>20<br>25<br>32<br>40  | A<br>200<br>220<br>250<br>298<br>330   | B<br>132<br>132<br>146<br>168<br>198<br>235                               | C<br>165<br>165<br>177<br>204<br>235<br>282                                       | N<br>E<br>330<br>330<br>365<br>400<br>460<br>600                    | lain E<br>F<br>30<br>30<br>33<br>40<br>45<br>50                                 | G<br>135<br>135<br>145<br>165<br>195<br>225<br>Main                          | Dime<br>H<br>20<br>20<br>17<br>24<br>20<br>25<br>Bod                            | ensic<br>J<br>35<br>35<br>37<br>42<br>46<br>48<br>y Dir                                    | n<br>15<br>15<br>16<br>20<br>25<br>nens   | L<br>11<br>11<br>11<br>16<br>16<br>16  | M<br>137<br>137<br>153<br>178<br>205<br>240                 | N<br>70<br>75<br>93<br>100<br>115                        | -   | Fla<br>b<br>70<br>75<br>90<br>100<br>105<br>120                              | nge I<br>95<br>100<br>125<br>135<br>140<br>155  | Dime<br>d<br>20<br>20<br>25<br>32<br>40<br>50   | nsior<br>f<br>15<br>15<br>20<br>20<br>20<br>20   | 9<br>4-15<br>4-15<br>4-19<br>4-19<br>4-19<br>4-19<br>4-19                          | Weight<br>(kg)<br>6.6<br>9.0<br>11.5<br>14.6<br>20.7  | Comparion<br>Flange Dia<br>-<br>-<br>-<br>-<br>-  |
| lange Type (JIS 10K) KING          | Types<br>JIS10K-15<br>JIS10K-20<br>JIS10K-22<br>JIS10K-32<br>JIS10K-32<br>JIS10K-40<br>JIS10K-50<br>Types      | Dia.<br>15<br>20<br>25<br>32<br>40<br>50  | A<br>200<br>220<br>250<br>298<br>330   | B<br>132<br>132<br>146<br>168<br>198<br>235                               | C<br>165<br>165<br>177<br>204<br>235<br>282<br>B                                  | N<br>E<br>330<br>365<br>400<br>460<br>600<br>C                      | E   | 30dy<br>G<br>135<br>135<br>145<br>165<br>195<br>225<br>Main<br>F             | Dime<br>H<br>20<br>20<br>17<br>24<br>20<br>25<br>Bod                            | ensic<br>J<br>35<br>35<br>37<br>42<br>46<br>48<br>y Din<br>H                               | n<br>K<br>15<br>16<br>20<br>25<br>nens  | L<br>11<br>11<br>11<br>16<br>16<br>16<br>16<br>sion                              | M<br>137<br>153<br>178<br>205<br>240<br>K                   | N<br>70<br>70<br>75<br>93<br>100<br>115<br>L             | -<br>-<br>-<br>-  | Fla<br>b<br>70<br>75<br>90<br>100<br>105<br>120<br>N                         | nge I<br>95<br>100<br>125<br>135<br>140<br>155  | Dime<br>d<br>20<br>20<br>25<br>32<br>40<br>50<br>F<br>b   | nsior<br>f<br>15<br>20<br>20<br>20<br>20<br>20   | 9<br>4-15<br>4-15<br>4-19<br>4-19<br>4-19<br>4-19<br>e Dime<br>c d                 | Weight<br>(kg)<br>6.6<br>9.0<br>11.5<br>14.6<br>20.7<br>ensior<br>f   | Companion<br>Flange Dia<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  |
| lange Type (JIS 10K) KING          | Types<br>JIS10K-15<br>JIS10K-20<br>JIS10K-25<br>JIS10K-32<br>JIS10K-40<br>JIS10K-50<br>Types<br>N0.0           | Dia.<br>15<br>20<br>25<br>32<br>40<br>50<br>Dia<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15   | A<br>200<br>220<br>250<br>298<br>330<br>3.   | B<br>132<br>132<br>146<br>168<br>235<br>A<br>80                           | C<br>165<br>165<br>177<br>204<br>235<br>282<br>B<br>126                           | N<br>E<br>330<br>365<br>400<br>460<br>600<br>C<br>153               | ain E<br>F<br>30<br>30<br>33<br>40<br>45<br>50<br>E<br>330                      | G<br>135<br>135<br>145<br>195<br>225<br>Main<br>F<br>21                      | Dime<br>H<br>20<br>20<br>17<br>24<br>20<br>25<br>Bod<br>6<br>131                | J<br>35<br>35<br>37<br>42<br>46<br>48<br>y Din<br>H<br>19                                  | n<br>K<br>15<br>15<br>16<br>20<br>20<br>25<br>nens  | L<br>11<br>11<br>16<br>16<br>16<br>16<br>sion<br>J                               | M<br>137<br>153<br>178<br>205<br>240<br>K<br>12             | N<br>70<br>70<br>75<br>93<br>100<br>115<br>L<br>11       | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | Fla<br>b<br>70<br>75<br>90<br>100<br>105<br>120<br>N<br>64                   | nge I<br>c<br>95<br>100<br>125<br>135<br>140<br>155<br>a<br>111                             | Dime<br>d<br>20<br>20<br>25<br>32<br>40<br>50<br>F<br>F<br>60<br>60   | nsion<br>f<br>15<br>15<br>20<br>20<br>20<br>20<br>20<br>20<br>1<br>ang                               | g<br>4-15<br>4-15<br>4-19<br>4-19<br>4-19<br>4-19<br>e Dime<br>c d<br>4<br>20      | Weight<br>(kg)<br>6.6<br>9.0<br>11.5<br>14.6<br>20.7<br>ension<br>f<br>11   | Companion<br>Flange Dia<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  |
| lange Type (JIS 10K) KING          | Types<br>JIS10K-15<br>JIS10K-20<br>JIS10K-20<br>JIS10K-32<br>JIS10K-32<br>JIS10K-50<br>Types<br>N0.0<br>1      | Dia.<br>15<br>20<br>25<br>32<br>40<br>50<br>Dia<br>18<br>20<br>25<br>32<br>40<br>50   | A<br>200<br>220<br>250<br>298<br>330<br>3.<br>5<br>11<br>1<br>1<br>1<br>1            | B<br>132<br>146<br>168<br>235<br>A<br>80<br>80                            | C<br>165<br>165<br>177<br>204<br>235<br>282<br>8<br>8<br>126                      | M<br>E<br>330<br>365<br>400<br>460<br>600<br>C<br>153<br>153        | ain E<br>F<br>30<br>30<br>33<br>40<br>45<br>50<br>E<br>330<br>330               | Body<br>G<br>135<br>135<br>145<br>165<br>195<br>225<br>Main<br>F<br>21<br>21 | Dime<br>H<br>20<br>20<br>17<br>24<br>20<br>25<br>Bod<br>6<br>131<br>131         | U 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  | n<br>K<br>15<br>15<br>16<br>20<br>25<br>25<br>  | L<br>111<br>111<br>116<br>116<br>116<br>116<br>116<br>116<br>116<br>11           | M<br>137<br>153<br>178<br>205<br>240<br>K<br>12<br>12       | N<br>70<br>75<br>93<br>100<br>115<br>L<br>11<br>11       | -<br>-<br>-<br>-<br>-<br>-<br>M<br>131<br>131   | Fla<br>b<br>70<br>75<br>90<br>100<br>105<br>120<br>N<br>64<br>64             | nge I<br>c<br>95<br>100<br>125<br>135<br>140<br>155<br>40<br>155<br>111<br>111              | d           20           20           20           20           25           32           40           50           F           b           6C           6C | nsion<br>f<br>15<br>15<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | g<br>4-15<br>4-19<br>4-19<br>4-19<br>4-19<br>4-19<br>4-19<br>4-19<br>4-19          | Weight<br>(kg)<br>6.6<br>9.0<br>11.5<br>14.6<br>20.7<br>ensior<br>f<br>11<br>11                                       | Companior<br>Flange Dia<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  |
| lange Type (JIS 10K) KING Standard | Types<br>JIS10K-15<br>JIS10K-20<br>JIS10K-25<br>JIS10K-32<br>JIS10K-40<br>JIS10K-50<br>Types<br>N0.0<br>1<br>2 | Dia.<br>15<br>20<br>25<br>32<br>40<br>50<br>Dia<br>15<br>225<br>32<br>40<br>50<br>25<br>225<br>22<br>25<br>22<br>25<br>22<br>25<br>22<br>25<br>22<br>25<br>22<br>25<br>22<br>25<br>22<br>25<br>20<br>25<br>20<br>25<br>20<br>25<br>20<br>25<br>20<br>25<br>20<br>25<br>20<br>25<br>20<br>25<br>20<br>25<br>20<br>25<br>20<br>25<br>20<br>25<br>20<br>25<br>20<br>25<br>20<br>25<br>20<br>25<br>20<br>20<br>25<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | A<br>200<br>220<br>250<br>258<br>330<br>330<br>5<br>11<br>5<br>2                     | B<br>132<br>132<br>146<br>168<br>235<br>A<br>80<br>5<br>3                 | C<br>165<br>165<br>177<br>204<br>235<br>282<br>B<br>126<br>126<br>137             | M<br>E<br>330<br>365<br>400<br>460<br>600<br>C<br>153<br>153<br>153 | ain E<br>F<br>30<br>30<br>33<br>40<br>45<br>50<br>E<br>330<br>330<br>330<br>360 | 300dy<br>G<br>135<br>135<br>145<br>165<br>225<br>Main<br>F<br>21<br>21<br>27 | Dime<br>H<br>20<br>17<br>24<br>20<br>25<br>80d<br>6<br>131<br>131<br>131<br>141 | ensic<br>J<br>35<br>35<br>37<br>42<br>46<br>48<br>48<br>48<br>48<br>19<br>19<br>19<br>18   | n<br>K<br>15<br>16<br>20<br>25<br>20<br>25<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3                                       | L<br>111<br>111<br>16<br>16<br>16<br>16<br>16<br>16<br>55<br>35<br>35            | M<br>137<br>153<br>178<br>205<br>240<br>K<br>12             | N<br>70<br>70<br>75<br>93<br>100<br>115<br>L<br>11       | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | Fla<br>b<br>70<br>75<br>90<br>100<br>105<br>120<br>N<br>64<br>64<br>64<br>71 | nge I<br>c<br>95<br>100<br>125<br>135<br>140<br>155<br>24<br>8<br>4<br>11<br>11<br>11<br>12 | Dime<br>d<br>20<br>20<br>25<br>32<br>40<br>50<br>F<br>b<br>60<br>60<br>60<br>60<br>60   | nsion<br>f<br>15<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>4<br>4<br>4<br>5<br>5                  | g<br>4-15<br>4-19<br>4-19<br>4-19<br>4-19<br>4-19<br>6 Dime<br>c d<br>4 20<br>6 25 | Weight<br>(kg)<br>6.6<br>6.6<br>9.0<br>11.5<br>14.6<br>20.7<br>f<br>11.1<br>11<br>11<br>11                            | Companion<br>Flange Dia<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  |
| lange Type (JIS                    | Types<br>JIS10K-15<br>JIS10K-20<br>JIS10K-20<br>JIS10K-32<br>JIS10K-32<br>JIS10K-50<br>Types<br>N0.0<br>1      | Dia.<br>15<br>20<br>25<br>32<br>40<br>50<br>Dia<br>18<br>20<br>25<br>32<br>40<br>50   | A<br>200<br>220<br>250<br>298<br>330<br>3.<br>11<br>5<br>11<br>5<br>2<br>2<br>2<br>2 | B<br>132<br>132<br>146<br>168<br>198<br>235<br>A<br>80<br>80<br>103<br>32 | C<br>165<br>165<br>177<br>204<br>235<br>282<br>8<br>8<br>126<br>126<br>126<br>137 | M<br>E<br>330<br>365<br>400<br>460<br>600<br>C<br>153<br>153        | ain E<br>F<br>30<br>30<br>33<br>40<br>45<br>50<br>E<br>330<br>330               | Body<br>G<br>135<br>135<br>145<br>165<br>195<br>225<br>Main<br>F<br>21<br>21 | Dime<br>H<br>20<br>20<br>17<br>24<br>20<br>25<br>Bod<br>6<br>131<br>131         | ensic<br>J<br>35<br>35<br>37<br>42<br>46<br>48<br>y Din<br>H<br>19<br>19<br>18<br>12<br>20 | n<br>K<br>15<br>15<br>16<br>20<br>25<br>16<br>20<br>25<br>16<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 | L<br>111<br>111<br>16<br>16<br>16<br>16<br>16<br>16<br>16<br>16<br>16<br>16<br>1 | M<br>137<br>153<br>178<br>205<br>240<br>K<br>12<br>12<br>13 | N<br>70<br>75<br>93<br>100<br>115<br>L<br>11<br>11<br>11 | -<br>-<br>-<br>-<br>-<br>-<br>M<br>131<br>131   | Fla<br>b<br>70<br>75<br>90<br>100<br>105<br>120<br>N<br>64<br>64             | nge I<br>c<br>95<br>100<br>125<br>135<br>140<br>155<br>40<br>155<br>111<br>111              | d           20           20           20           20           25           32           40           50           F           b           6C           6C | nsion<br>f<br>15<br>15<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | g<br>4-15<br>4-19<br>4-19<br>4-19<br>4-19<br>4-19<br>6 Dime<br>c d<br>4 20<br>6 25 | Weight (kg)<br>6.6<br>6.6<br>9.0<br>11.5<br>14.6<br>20.7<br>f<br>11.<br>11.<br>11.<br>12.<br>12.<br>12.<br>12.<br>12. | Companion<br>Flange Dia.<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- |

# **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,<br>Diesel, Gasolin | Water,<br>Solvent | Solvent       | Kerosene,<br>Diesel |                      | Oil, Kerosene,<br>Diesel, Gasolin | Adblue,<br>Water         | Kerosene,<br>Diesel | Adblue          | Adblue          | Acceptable<br>liquid   | Kerosene,<br>Diesel (Oil) | Kerosene,<br>Diesel/Adble |
| Sweep      | Material<br>body       | AL casting                        | SUS casting       | PP            |                     | AL casting,<br>Steel | AL casting,<br>Steel              | SUS casting              |                     | SUS             | SUS             | Packing                | NBR                       | NBR                       |
| er Hold    | Packing                | NBR                               | Teflon            | Fluoro-rubber | NBR                 | NBR                  | NBR                               | Teflon,<br>Fluoro-rubber | NBR                 | Fluorine        | Fluorine        | Connection             | G1                        | G1                        |
| ler Sta    | Nozzle<br>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<br>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)<br>Flow (m <sup>1</sup> / min)<br>Revolution (rpm)<br>Air consumption (m <sup>1</sup> / min)<br>Weight (kg)<br>vailable air pressure (Mpa)<br>Compressor (HP)<br>Types<br>Dia. of fan (mm)<br>Air pressure (Mpa)<br>Flow (m <sup>1</sup> / min)<br>Revolution (rpm)<br>Air consumption (m <sup>1</sup> / min)<br>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** 

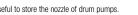






It's useful to store the nozzle of drum pumps.





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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,<br>Gear Oil 75W              | 400    | 260    | 180      | 125            | 90       | 70    | 53          |
| 120 Machine Oil                                  | 620    | 400    | 265      | 180            | 130      | 95    | 75          |
| 30 Oil for freezer,<br>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,<br>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<br>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<br>Formaldehyde                        | 0.88        |                      |                   |              | •      |         | -         | -        |            | - <b>-</b>        |
| Water  | 1.00-1.11   | •                    | •                 | •            | •      | •       | •         | •        | •          |                   |
| Methyl alcohol                                 | 0.79        |                      | •                 | •            | •      |         | •         | -        | •          | •                 |
| Methyl alconol<br>Methyl isobuthyl ketone      | 0.79        |                      | •                 | •            | •      | •       |           |          |            |                   |
| Methyl isobutnyl ketone<br>Methyl ethyl ketone | 0.8         |                      | •                 | •            | •      | •       |           |          |            | -                 |
| Sulfuric acid                                  | 0.0         | -                    | -                 | -            | -      | -       |           |          |            | -                 |
|  |             |                      |                   |              |        |         |           |          |            |                   |