Liquid in can is effectively discharged, better performance than electric and manual types.

# Vacuum pump for drum can, **discharging only**

## The pump to transfer, due to pressure difference in drum can.

- ■Workable at hazardous area, as no electricity used. (driven by compressed air)
- ■Available even for flammable liquid.
- ■Workable even for Nitrogen in cylinder.


Vacuum pump for drum can **discharging only** Compressor with higher than 1HP

## APD-R-i

Remarkable cost-reduction achieved, due to our own technology

| Model | | APD-R-i |
|---|---|---|
| Applicable liquid | | Oils |
| Height for Lifting | | 2m |
| Accessories | Nozzle | Ball Valve |
| | Hose (Long・Inner dia.) | NBR(2m×32φ) |
| | Ground Wire | Inclusive |
| Material/ Wet portion | Body/Nozzle | AL・Steel Plating |
| | Packing | NBR |
| Weight | | 4.4kg |

200L, based on JIS (Japanese Industrial Standard)
For closed drum can only (dia. G2)

**To discharge liquid effectively.**
Max. depth of remained liquid is 5cm (our test shows 1-2L)

**Dual safety design is applied.**
Pressure in a drum can is adjusted for safety.

**Workable, even in case of emergency.**
Once compressed air is filled, this keeps working until air completely gets out.

**Soundless Type**
Energy Saving Type (Most efficient for saving energy)

Vacuum pump for drum can **discharging only** Compressor with higher than 1HP

## APD-i series

Various Line-ups for various liquid/applications

| Model | | APD-20(25)-i | APD-20(25)N-i | APD-20(25)G-i | APD-20(25)GN-i | APD-20SUS-i | APD-20SUSN-i |
|---|---|---|---|---|---|---|---|
| Applicable liquid | | Oils | Oils | kerosene・Light oil・Gasoline | kerosene・Light oil・Gasoline | Solvent | Solvent |
| Discharging Volume | | 65(150)ℓ/min(1cp) | 55(80)ℓ/min(1cp) | 55(115)ℓ/min(1cp) | 50(70)ℓ/min(1cp) | 40ℓ/min(1cp) | 35ℓ/min(1cp) |
| Height for Lifting | | 2m | 2m | 2m | 2m | 2m | 2m |
| Accessories | Nozzle | Ball Valve | Manual Gun Nozzle | Ball Valve | Manual Gun Nozzle | Ball Valve | Manual Gun Nozzle |
| | Hose (Long・Inner dia.) | PVC(2m×25(32)φ) | PVC(2m×25(32)φ) | PVC(2m×20(25)φ) | PVC(2m×20(25)φ) | SUS304(2m×20φ) | SUS304(2m×20φ) |
| | Ground Wire | — | — | Inclusive | Inclusive | Inclusive | Inclusive |
| Material/ Wet portion | Body/Nozzle | AL | AL | AL | AL | SUS304 | SUS304 |
| | Packing | FKM | FKM | FKM | FKM | PTFE・FFKM | PTFE・FFKM |
| Weight | | 4.4(5.6)kg | 4.3(5.1)kg | 5.6(7.4)kg | 5.3(6.5)kg | 7.8kg | 7.6kg |

200L, based on JIS (Japanese Industrial Standard)
For closed drum can only (dia. G2)

**Several discharging methods!!**

Ball Valve Type, to keep smooth flow Manual Gun Nozzle type, to control with one hand.
Ball Valve Type, secure flowing volume. Manual Gun Type for convenience.




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AQUA SYSTEM CO.,LTD.

05

# Vacuum Pump for pail can

| Air type | Viscosity |
|---|---|
| Compressor/ 5HP / 3HP | Less than 3,000cP |

## Pump to transfer with compressed air
## To collect waste liquid in tank, To change oil

Applicable at hazardous area


- ●No motor assures little trouble, also applicable for liquid with foreign materials
- ●No electricity use assures safety at hazardous area

## This product works for both sucking/discharging the liquid.

# Vacuum pump for drum can, both for discharging and sucking

### Recommendable to transfer from drum can. Simple one-touch operation for sucking/discharging

**This works both for sucking/discharging with one-lever.**


Easy to switch sucking / discharging

**Adjustable Valve**

Discharging･sucking volumes can be adjustable with valve.



Air Coupler 30PF

Improved for easier fixing

**Adapter**

Easy to fix, due to bag-nut type.



- ■Automatically stopped, when liquid is full.
- ■Continuous operation is assured, even for the liquid with mixed materials.
- ■No electricity assures your safety even at hazardous area.
- ■Ground wire applied for static electricity for (G) and (AS) only.
- ■Effective collection for the liquids to viscosity up to 3,000cP.
- ■Very little trouble expected､as motor is not used. Also, smooth flow is assured even for the liquid with foreign materials.

*As main body is aluminum made, some limited liquids are not applicable.

**Ground Wire**
Standard for (G) and (AS) only

**Spring for sucking gate**
Spring head works for effectively discharging the liquid.

**Ejector**

Air Exhaust (Rc 1/4)

**Pressure Meter**

Better visible design

Visible to make sure of pressure in drum can.

200L, based on JIS (Japanese Industrial Standard)
For closed drum can only (dia. G2)

PVC hose | Oil resistant hose | SUS hose

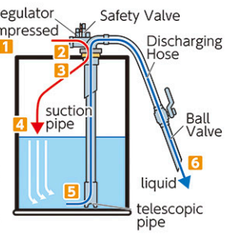
**APDX1-25-i (Both for discharging and sucking)**

Vacuum pump for drum can **both for discharging and sucking** Compressor with higher than 3HP

## APDX1-25-i This works both for sucking/discharging with one-lever.

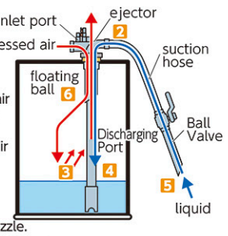
| Model | | APDX1-25-i | APDX1-25G-i | APDX1-25AS-i |
|---|---|---|---|---|
| Applicable liquid | | Oils | kerosene･Light oil･Gasoline | Solvent |
| Air Consumption | | 167ℓ/min | 167ℓ/min | 167ℓ/min |
| Discharging Volume | | 100ℓ/min (1cp) | 70ℓ/min (1cp) | 70ℓ/min (1cp) |
| Height for Lifting･Sucking | | 2m | 2m | 2m |
| Accessories | Nozzle | Ball Valve | Ball Valve | Ball Valve |
| | Hose (Long･ Inner dia.) | PVC(2m×32φ) | NBR(2m×25φ) | SUS304(2m×25φ) |
| | Ground Wire | — | Inclusive | Inclusive |
| Material/ Wet portion | Body/Nozzle | AL･Steel Plating | AL･Steel Plating | AL･Steel Plating |
| | Packing | NBR | NBR | PTFE･FKM |
| Weight | | 4.3kg | 5.7kg | 5.3kg |

### Discharging




1. Fill compressed air with 0.1-1 Mpa.
2. Reduce to 0.05Mpa with regulator.
3. Pressure reduced air goes into the tank.
4. The compressed air works to lower liquid surface in tank.
5. The pushed liquid gets into pipe.
6. Discharge the liquid from nozzle, after filtered.

### Sucking




1. Fill compressed air with 0.4-0.6 Mpa.
2. Without getting into tank, air is pushed out from ejector.
3. Negative pressure is generated in ejector, and air in the tank is pushed out.
4. As negative pressure is generated in tank, outside air is sucked in.
5. Liquid is sucked through nozzle.
6. Once liquid is full, floating ball works to stop sucking at air discharging port.

## To collect various liquids, kerosene, light oil, cutting liquids with foreign materials etc.

# Vacuum pump for drum can, sucking only

### Pressure difference in drum can works to transfer the liquid.

**Adapter**

Improved for easier fixing

Easy to fix, due to back-nut

**Adjustable Valve**

Sucking volume is adjustable due to adjustable valve.

Air Coupler 30PF

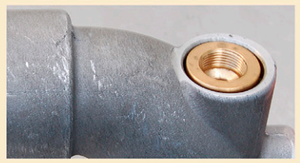
- ■Automatically stopped, when liquid is full.
- ■Continuous operation is assured, even for the liquid with mixed materials.
- ■No electricity assures your safety even at hazardous area.
- ■Ground wire applied for static electricity for (G) and (AS) only.
- ■Effective collection for the liquids to viscosity up to 3,000cP.
- ■Very little trouble expectd､as motor is not used. Also, smooth flow is assured even for the liquid with foreign materials.

*As main body is aluminum made, some limited liquids are not applicable.

**Ground Wire**
Standard for (G) and (AS).only

**Ejector**

Air Exhaust (Rc 1/4)



200L, based on JIS (Japanese Industrial Standard)
For closed drum can only (dia. G2)

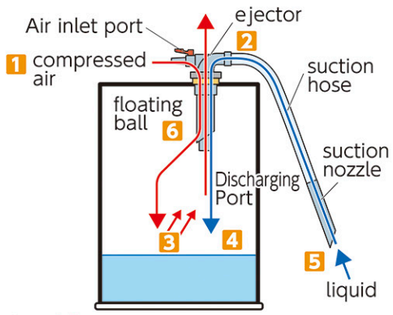
PVC hose | Oil resistant hose | SUS hose

**APDQ1-25-i (Sucking only)**

Vacuum pump for drum can **sucking only** Compressor with higher than 3HP

## APDQ1-25-i Collection after washing

| Model | | APDQ1-25-i | APDQ1-25G-i | APDQ1-25AS-i |
|---|---|---|---|---|
| Applicable liquid | | Oils | kerosene･Light oil･Gasoline | Solvent |
| Air Consumption | | 167ℓ/min | 167ℓ/min | 167ℓ/min |
| Max. sucking capacity | | 80ℓ/min (1cp) | 50ℓ/min (1cp) | 50ℓ/min (1cp) |
| Sucking Height | | 2m | 2m | 2m |
| Accessories | Nozzle | Straight pipe | Straight pipe | Straight pipe |
| | Hose (Long･ Inner dia.) | PVC(2m×32φ) | NBR(2m×25φ) | SUS304(2m×25φ) |
| | Ground Wire | — | Inclusive | Inclusive |
| Material/ Wet portion | Body/Nozzle | AL･Steel Plating | AL･Steel Plating | AL･Steel Plating |
| | Packing | NBR | NBR | PTFE･FKM |
| Weight | | 3.3kg | 4.4kg | 4.0kg |




### Sucking

1. Fill compressed air with 0.4-0.6 Mpa.
2. Without getting into tank, air is pushed out from ejector.
3. Negative pressure is generated in ejector, and air in the tank is pushed out.
4. As negative pressure is generated in tank, outside air is sucked in.
5. Liquid is sucked through nozzle.
6. Once liquid is full, floating ball works to stop sucking at air discharging port.