

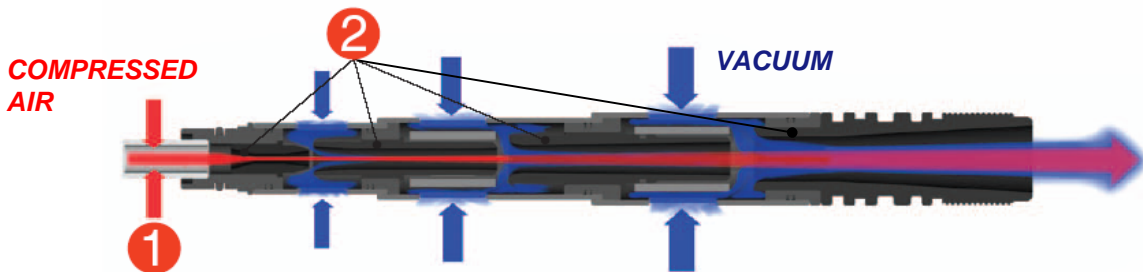
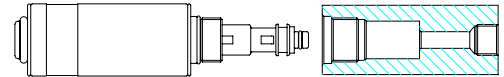
Vacuum Pump **NEW**

VTEC Vacuum Cartridge

PATENT &
PATENT PENDING

KR PAT No.629994
PCT No. PCT/KR2006/005638

The vacuum pump system is created by installing one or more VTEC Vacuum Cartridges into appropriate sized holes made in customer supplied material. The customer determines the design, size and style of the system.



- Vacuum is created with an air-jet system when ① compressed air (3-6bar) passes at high speed through the ② pump nozzles.

- Extremely compact in size and very light weight.
- High vacuum flow rate (3x higher) and an extremely quick response time (about 1.5x greater) compared to typical and conventional air-ejectors.
- Maintains vacuum despite fluctuations and drops in air pressure (operating using compressed air at a pressure of 1.7~6bar)
- Located at or near the point of use thus reducing system volume, increasing speed and reducing cycle time.



Vacuum Pump **NEW**

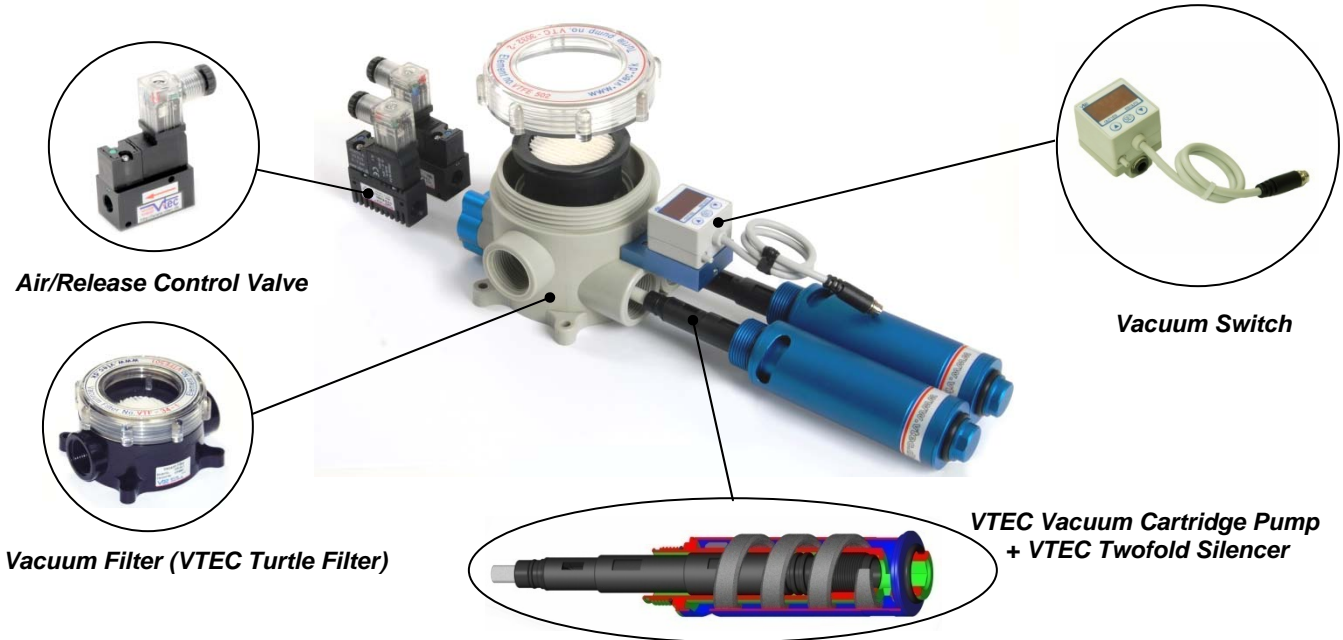


TURTLE – PUMP

Based on VTEC Vacuum Cartridge

**PATENT &
PATENT PENDING**

KR 10-0730323



- Patented design (KR10-0730323)
- High operational reliability despite fluctuating or low compressed-air pressure
- Integrated high dirt holding capacity pleated filter
- VTEC Twofold Silencer assures low noise levels (about 30% lower than conventional silencer)
- Adjustable exhaust direction.
- Optional air-saving(AS) kit available to minimize energy consumption
- Optional factory installed air control/vacuum release valves and vacuum switch available.
- Compact size and light weight
- Easily mountable and interchangeable vacuum cartridge

TURTLE – PUMP Based on VTEC Vacuum Cartridge



VTC Series

| | |
|---------------------|--------------------------------------|
| Max. vacuum level | : -93kPa (-27.462 inHg) |
| Max. flow rate | : 688 NI/ min (24.29 scfm) |
| Supply air pressure | : 3~6bar , max 7bar (43.5~87 psi) |
| Air consumption | : 194~304 NI/ min (6.85~10.73 scfm) |
| Supply air type | : Dry compressed air |
| Working temp. | : -20°C to +80°C |
| Noise level | : 50~60 dBA |

VTCL Series

| | |
|---------------------|-------------------------------------|
| Max. vacuum level | : -75kPa (-22.147 inHg) |
| Max. flow rate | : 724 NI/ min (25.56 scfm) |
| Supply air pressure | : 4~6bar , max 7bar (58~87 psi) |
| Air consumption | : 140~208 NI/ min (4.94~7.34 scfm) |
| Supply air type | : Dry compressed air |
| Working temp. | : -20°C to +80°C |
| Noise level | : 50~60 dBA |

► **VTC Model**

High vacuum level (-93kPa) at low compressed air pressure (3-6bar).

High vacuum flow rate to compensate for fluctuating or low compressed air pressure.

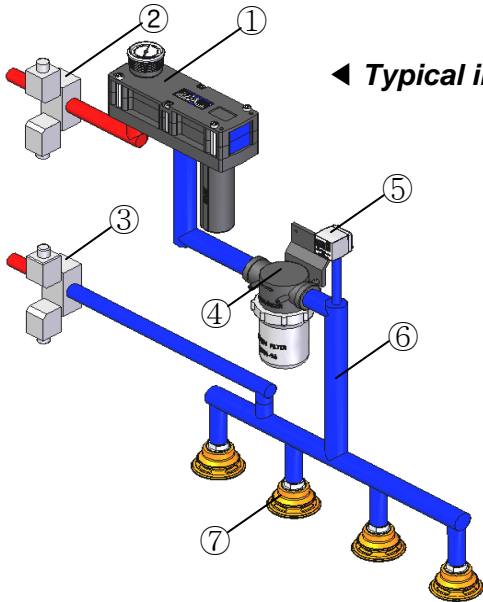
Suitable for sealed system applications such as lifting metal sheets or glass plate.

► **VTCL Model**

Extra high vacuum flow rate and suitable for non-sealed system applications.

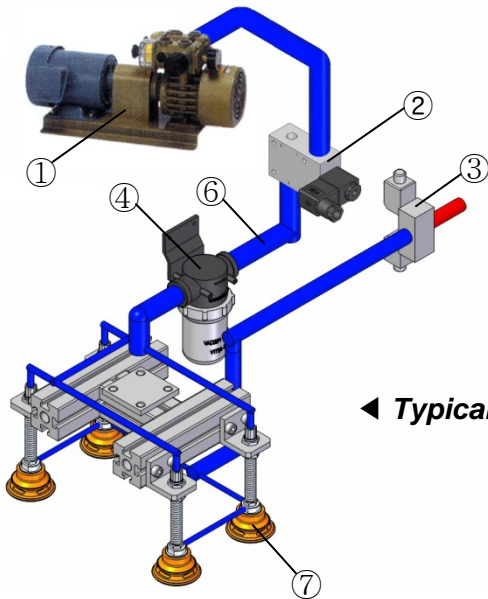
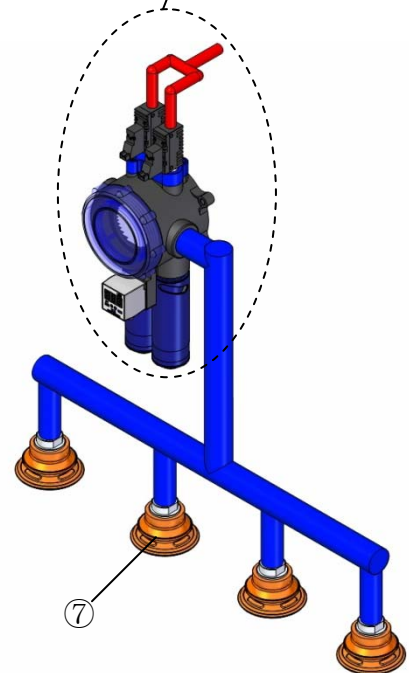
Vacuum level of -75kPa at a compressed air pressure of 6bar.

The VTEC Turtle Pump offers the convenience of a complete yet compact system.



▼ **New solution with VTEC Turtle Pump**

①+ ②+ ③+ ④+ ⑤+ ⑥



- ① Vacuum pump
- ② Air control valve
- ③ Vacuum release control valve
- ④ Vacuum filter
- ⑤ Digital vacuum switch
- ⑥ Main vacuum pipe line
- ⑦ Vacuum pad



V – PUMP

Based on VTEC Vacuum Cartridge



VS Series

| | |
|---------------------|------------------------------------|
| Max. vacuum level | : -93kPa (-27.462 inHg) |
| Max. flow rate | : 341 NI/ min (12.04 scfm) |
| Supply air pressure | : 3~6bar , max 7bar (43.5~87 psi) |
| Air consumption | : 97~152 NI/ min (3.42~ 5.36scfm) |
| Supply air type | : Dry compressed air |
| Working temp. | : -20 °C to +80 °C |
| Noise level | : 50~60 dBA |

VLS Series

| | |
|---------------------|-----------------------------------|
| Max. vacuum level | : -75kPa (-22.147 inHg) |
| Max. flow rate | : 362 NI/ min (12.78 scfm) |
| Supply air pressure | : 4~6bar , max 7bar (58~87 psi) |
| Air consumption | : 70~104 NI/ min (2.47~3.67scfm) |
| Supply air type | : Dry compressed air |
| Working temp. | : -20 °C to +80 °C |
| Noise level | : 50~60 dBA |

► VS Model

High vacuum level (-93kPa) at low compressed air pressure (3-6bar).

High vacuum flow rate to compensate for fluctuating or low compressed air pressure.

Suitable for sealed system applications such as lifting metal sheets or glass plate.

► VLS Model

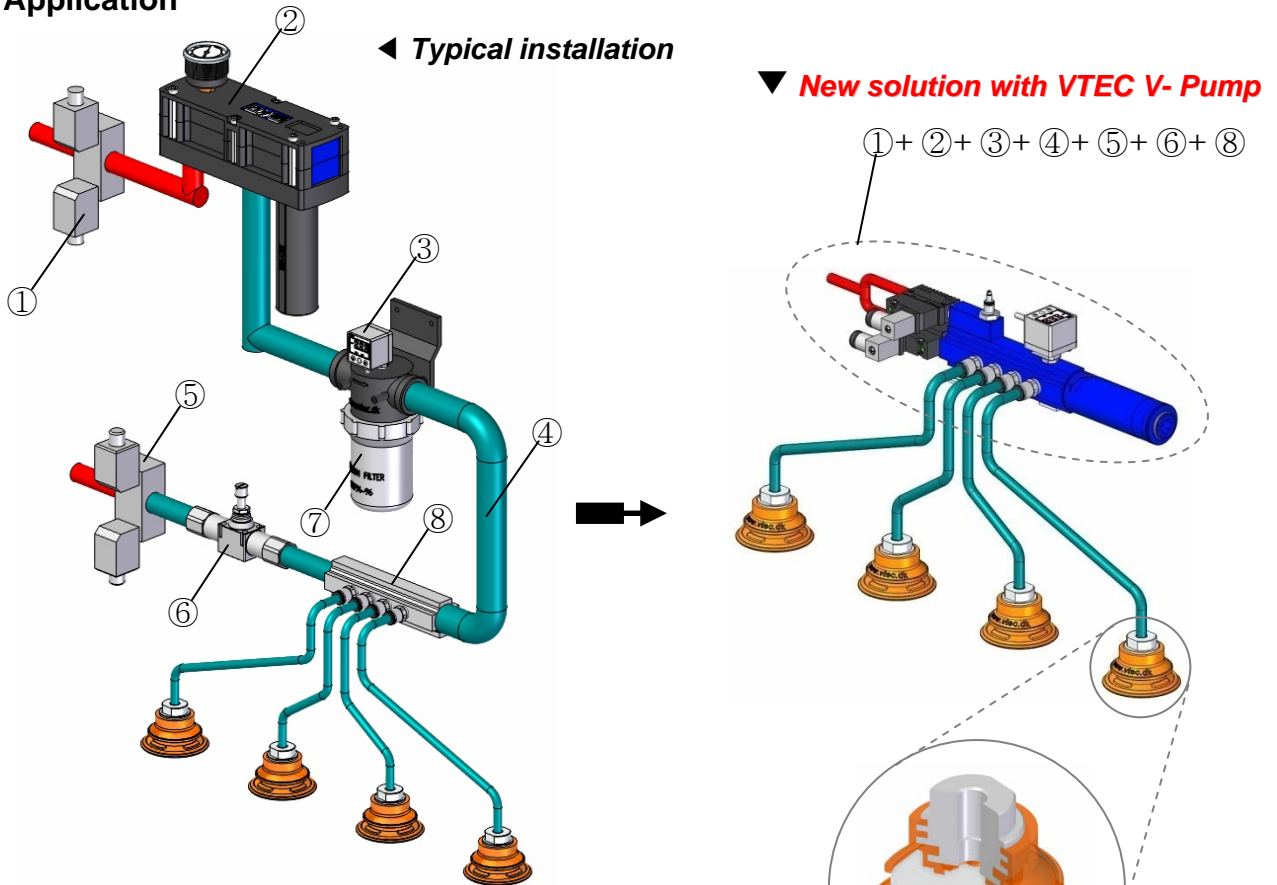
Extra high vacuum flow rate and suitable for non-sealed system applications.

Vacuum level of -75kPa at a compressed air pressure of 6bar.

The VTEC V-PUMP's features

- Multiple connection alternatives up to 8 ports.
- Minimum installation space.
- Lower capital cost.
- Faster response time.
- Easy to install.
- Easy to maintain and repair.
- Long life time.

Application



- | | |
|-------------------------|----------------------------------|
| ① Air control valve | ⑤ Vacuum release control valve |
| ② Vacuum pump | ⑥ Vacuum release adjusting valve |
| ③ Digital vacuum switch | ⑦ Vacuum filter |
| ④ Main vacuum pipe line | ⑧ Distributor (Manifold) |



V – PUMP

Based on VTEC Vacuum Cartridge



- High operational reliability despite fluctuating or low compressed air pressure
- Easy to distribute vacuum (multiple connection alternatives up to 8ports)
- Quick response time
- Long life time
- VTEC Twofold Silencer assures low noise levels (about 30% lower than conventional silencer)
- Adjustable exhaust direction.
- Optional air-saving(AS) kit available to minimize energy consumption
- Optional factory installed air control/vacuum release valves and vacuum switch available.
- Easily mountable and interchangeable vacuum cartridge

VTEC Products Line-up



Vacuum Pumps



Suction Cups (Vacuum Pads)



Vacuum Filter and Accessories



Vacuum conveyors



Swivel Arms(Robotic)



Motion Technologies

• VTEC Service Networks

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Distributor



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- Poland
- Turkey
- China
- Indonesia
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- UK