# VKM73 / VKX73

## Features and Strengths

- Multi-stage vacuum ejector
- Integrated pleated filter with high dirt capacity & Auto-cleaning system
- Quick response time
- Long life time
- Compact size and light weight

## Specifications

| Description | VKM73 | VKX73 |
|---|---|---|
| Max. Vacuum level | -85 kPa | -92 kPa |
| Open Vacuum flow | 111 Nl/min | 94 Nl/min |
| Max. Feed pressure | 7 bar | 7 bar |
| Temperature | -20 ~ 80 °C | -20 ~ 80 °C |
| Noise level | 50 ~ 65 dbA | 50 ~ 65 dbA |
| Weight | 212 g | 212 g |

## Vacuum Flow

| Model | Max. vacuum (-kPa) | Vacuum flow (Nl/min) at different vacuum levels (-kPa) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
| VKM73 | 85 | 111 | 78 | 47 | 42 | 30 | 24 | 18 | 7.2 | 1.98 | - |
| VKX73 | 92 | 94 | 54 | 27 | 24 | 21 | 17 | 13.5 | 9 | 3.6 | 1.35 |

## Evacuation Time

| Model | Air Consumption (Nl/min) | Evacuation time in sec / liter to reach different vacuum levels (-kPa) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
| VKM73 | 40 ~ 58 | 0.08 | 0.21 | 0.38 | 0.59 | 0.88 | 1.29 | 1.98 | 3.87 | - |
| VKX73 | 49 ~ 66 | 0.1 | 0.3 | 0.57 | 0.9 | 1.34 | 1.84 | 2.58 | 3.81 | 7.2 |

# VKM74 / VKX74

## Features and Strengths

· Multi-stage vacuum ejector
· Integrated pleated filter with high dirt capacity & Auto-cleaning system
· Quick response time
· Long life time
· Compact size and light weight

## Specifications

| Description | VKM74 | VKX74 |
|---|---|---|
| Max. Vacuum level | -85 kPa | -92 kPa |
| Open Vacuum flow | 135 Nl/min | 109 Nl/min |
| Max. Feed pressure | 7 bar | 7 bar |
| Temperature | -20 ~ 80 °C | -20 ~ 80 °C |
| Noise level | 50 ~ 65 dbA | 50 ~ 65 dbA |
| Weight | 212 g | 212 g |

## Vacuum Flow

| Model | Max. vacuum (-kPa) | Vacuum flow (Nl/min) at different vacuum levels (-kPa) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
| VKM74 | 85 | 135 | 99 | 62 | 54 | 40 | 32 | 24 | 9.6 | 2.64 | - |
| VKX74 | 92 | 109 | 72 | 35 | 32 | 27 | 22 | 18 | 12 | 4.8 | 1.8 |

## Evacuation Time

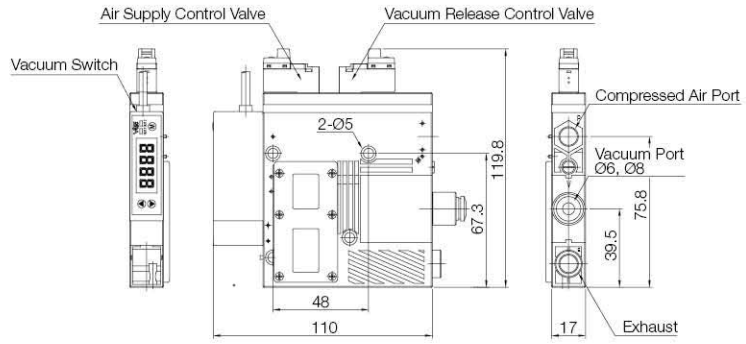
| Model | Air Consumption (Nl/min) | Evacuation time in sec / liter to reach different vacuum levels (-kPa) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
| VKM74 | 54 ~ 78 | 0.05 | 0.14 | 0.25 | 0.39 | 0.59 | 0.86 | 1.32 | 2.58 | - |
| VKX74 | 66 ~ 88 | 0.06 | 0.2 | 0.38 | 0.6 | 0.89 | 1.23 | 1.72 | 2.54 | 4.8 |

## Dimensions – VKM73 / VKX73 series

[ Unit : mm ]

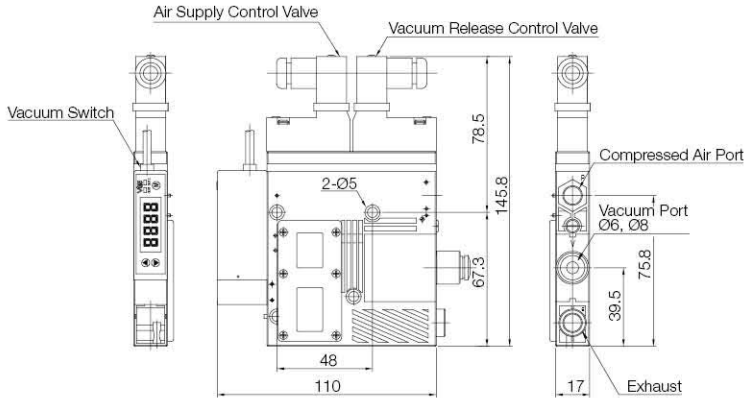
### Single unit

Control valve Connector type / Digital vacuum switch



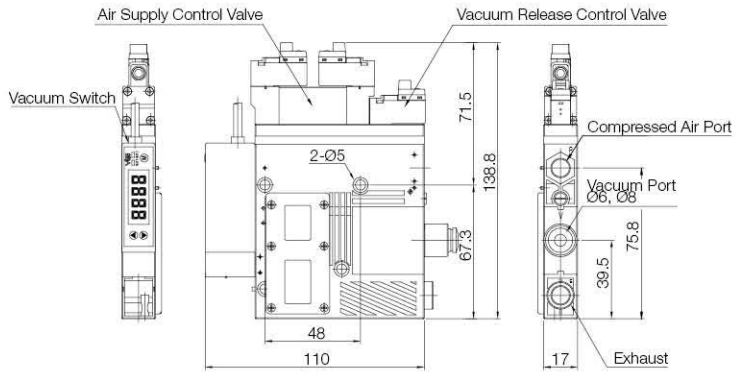

### Single unit

Control valve DIN type / Digital vacuum switch



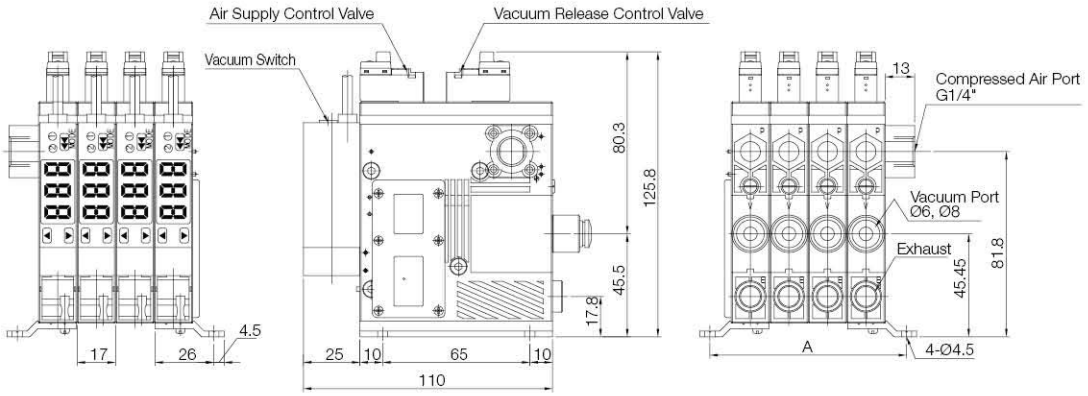

### Single unit

Control valve double solenoid type / Digital vacuum switch



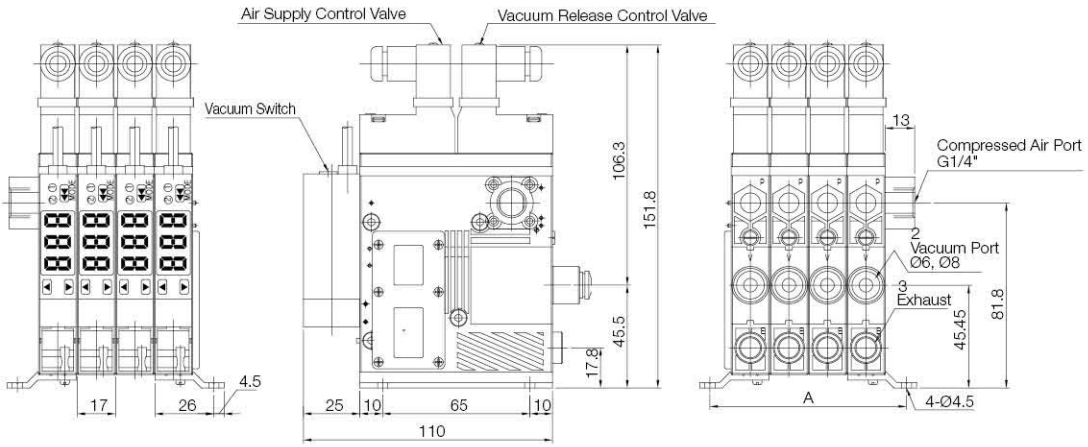
## Manifold unit

Control valve Connector type / Digital vacuum switch



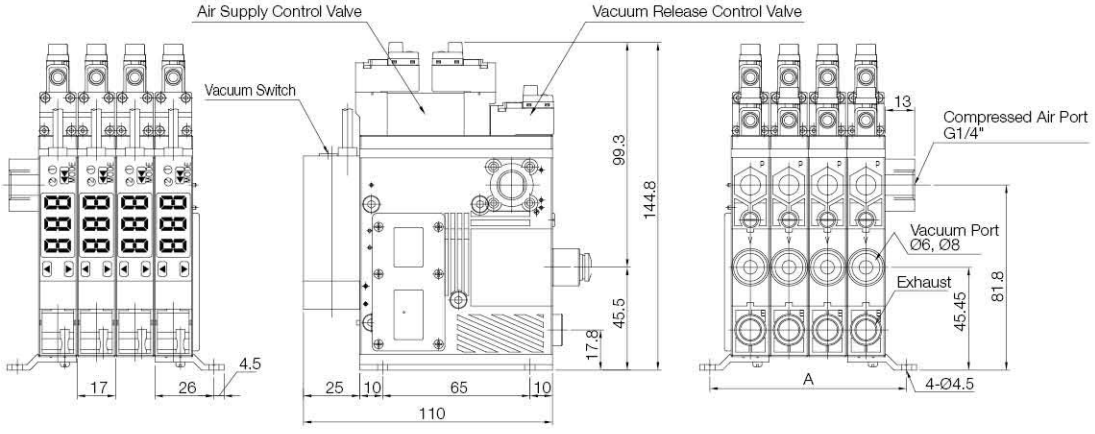

## Manifold unit

Control valve DIN type / Digital vacuum switch




## Manifold unit

Control valve double solenoid type / Digital vacuum switch

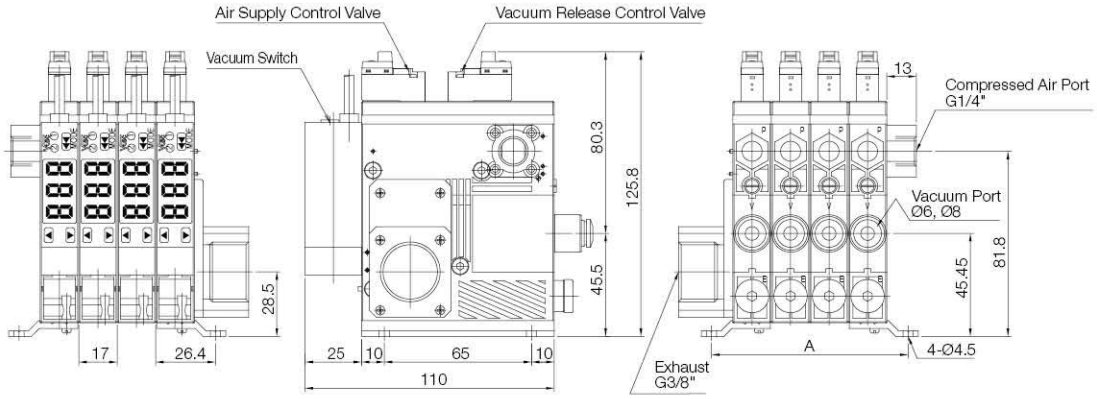


## Dimensions

[ Unit : mm ]

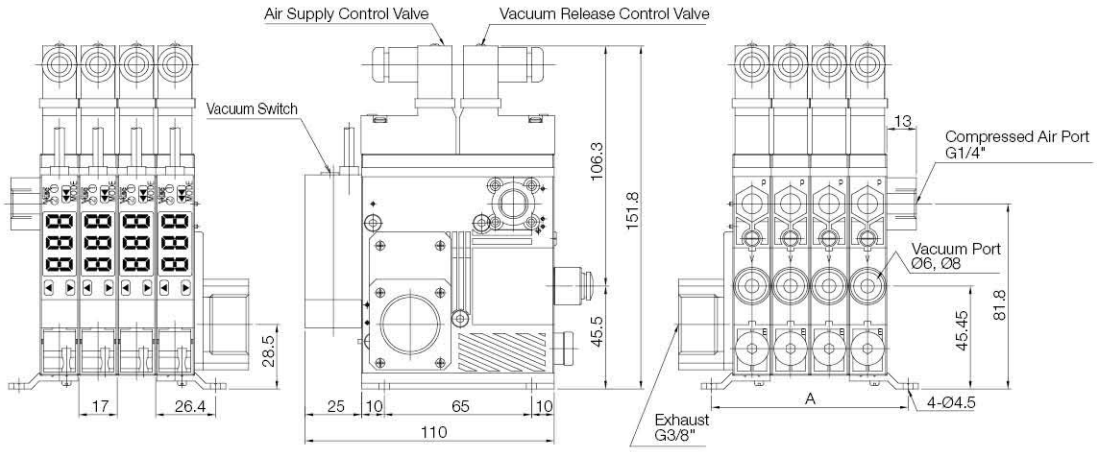
### Manifold unit with central exhaust

Control valve Connector type / Digital vacuum switch



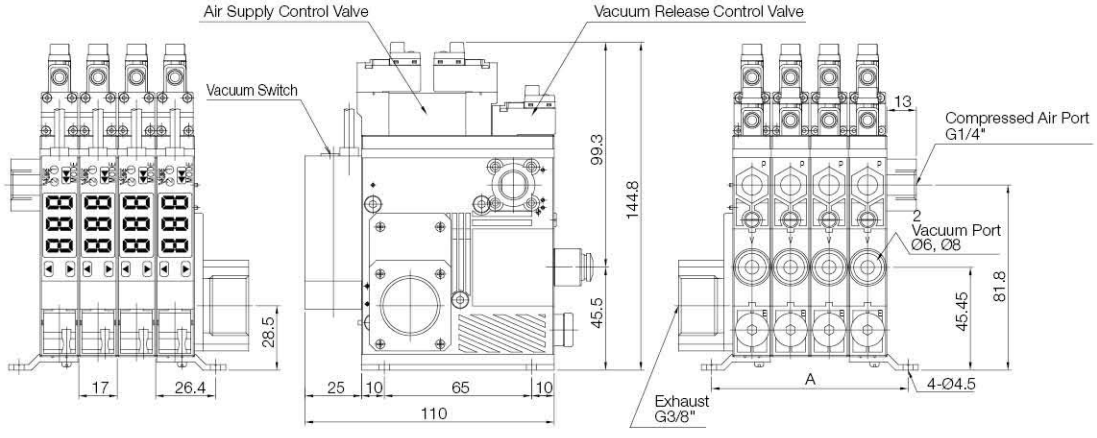

### Manifold unit with central exhaust

Control valve DIN type / Digital vacuum switch

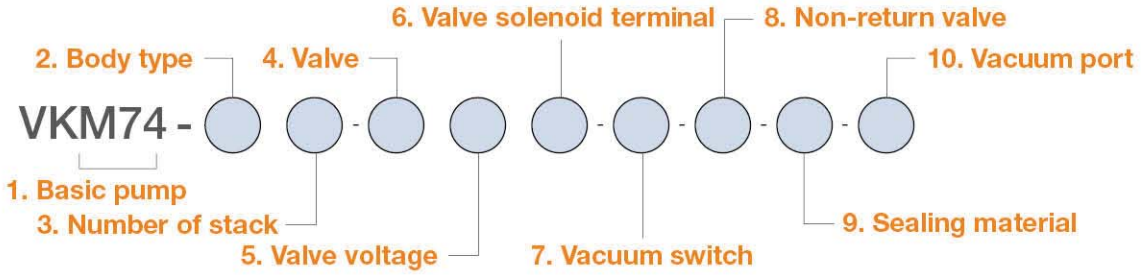



### Manifold unit with central exhaust

Control valve double solenoid type / Digital vacuum switch



## Build an Ordering No.




| 1. Basic pump | Description | Symbol |
|---|---|---|
| | Mega Keyboard pump – "X" type | VKX73 |
| | Mega Keyboard pump – "M" type | VKM73 |
| | Mega Keyboard pump – "X" type | VKX74 |
| | Mega Keyboard pump – "M" type | VKM74 |

| 2. Body type | Description | Symbol |
|---|---|---|
| | Single unit | S |
| | Manifold unit | M |
| | Manifold unit with central exhaust type | E |

| 3. Number of stack | Description | Symbol |
|---|---|---|
| | Single stack | 1 |
| | 2 stacks | 2 |
| | 3 stacks | 3 |
| | 4 stacks | 4 |
| | 5 stacks | 5 |
| | 6 stacks | 6 |
| | 7 stacks | 7 |
| | 8 stacks | 8 |

| 4. Valve | Description | Symbol |
|---|---|---|
| | Air control valve : N.C (Normal Closed) / Vacuum release valve : N.C (Normal Closed) | A |
| | Air control valve : N.O (Normal Open) / Vacuum release valve : N.C (Normal Closed) | B |
| | Air control valve : N.C (Normal Closed) | C |
| | Air control valve : N.O (Normal Open) | D |
| | Vacuum release valve : N.C (Normal Closed) | E |
| | Air control valve : Double solenoid valve / Vacuum release valve : N.C (Normal Closed) | W |
| | - Double solenoid valve "W" is available only with DC24V and Connector type valve terminal | |

| 5. Valve voltage | Description | Symbol |
|---|---|---|
| | AC110V | 1 |
| | AC220V | 2 |
| | DC24V | 3 |

| 6. Valve terminal | Description | Symbol |
|---|---|---|
| | Solenoid Terminal, DIN, No LW | 1 |
| | Solenoid Terminal, DIN, Lamp, No LW | 2 |
| | Solenoid Terminal, Conn, Lamp & 0.3m LW: Only available with DC24V | 3 |
| | Solenoid Terminal, DIN, 2 in 1 BUS cable: Not available with Double Solenoid Valve | 2B |
| | Solenoid Terminal, DIN, 3 in 1 BUS cable: Not available with Double Solenoid Valve | 3B |
| | Solenoid Terminal, DIN, 4 in 1 BUS cable: Available with Double Solenoid Valve | 4B |
| | - 3B and 4B are available only with DC24V and C or PC vacuum switch | |

## Build an Ordering No.

| 7. Vacuum switch | Description | Symbol |
|---|---|---|
| | No vacuum switch | Blank |
| | Digital switch, No analog supply, M8-4pins, NPN | C |
| | Digital switch, No analog supply, M8-4pins, PNP | PC |
| | Digital switch, No analog supply, Grommet, NPN | G |
| | Digital switch, No analog supply, Grommet, PNP | PG |
| | Digital switch, Analog supply, Grommet, NPN | GA |
| | Digital switch, Analog supply, Grommet, PNP | PGA |

| 8. Non-return valve | Description | Symbol |
|---|---|---|
| | No non-return valve | Blank |
| | Non-return valve | N |

| 9. Sealing material | Description | Symbol |
|---|---|---|
| | NBR | Blank |
| | VITON | V |
| | EPDM | E |

| 10. Vacuum port | Description | Symbol |
|---|---|---|
| | Ø6 hose fitting | 6 |
| | Ø8 hose fitting | 8 |

## Spare Parts – Filters

| Part No. | Description |
|---|---|
| FCK72-A3-6 | Filter cover case for Ø6 hose fitting, Fix bolt |
| FCK72-A3-6-N | Filter cover case for Ø6 hose fitting, Fix bolt, Gasket |
| FCK72-F3-6 | Filter cover case for Ø6 hose fitting, Fix bolt, Filter element |
| FCK72-F3-6-N | Filter cover case for Ø6 hose fitting, Fix bolt, Gasket, Filter element |
| FCK72-A3-8 | Filter cover case for Ø8 hose fitting, Fix bolt |
| FCK72-A3-8-N | Filter cover case for Ø8 hose fitting, Fix bolt, Gasket |
| FCK72-F3-8 | Filter cover case for Ø8 hose fitting, Fix bolt, Filter element |
| FCK72-F3-8-N | Filter cover case for Ø8 hose fitting, Fix bolt, Gasket, Filter element |
| VTFE-K72 | Filter element |