

VKM61 / VKX61

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	VKM61	VKX61
Max. Vacuum level	-85 kPa	-92 kPa
Open Vacuum flow	37 NI/min	31 NI/min
Max. Feed pressure	7 bar	7 bar
Temperature	-20 ~ 80 °C	-20 ~ 80 °C
Noise level	50 ~ 65 dbA	50 ~ 65 dbA
Weight	213.5 g	213.5 g

Vacuum Flow

Model	Max. vacuum (-kPa)	Vacuum flow (NI/min) at different vacuum levels (-kPa)									
		0	10	20	30	40	50	60	70	80	90
VKM61	85	37	26	16	14	10	8	6	2.7	0.66	-
VKX61	92	31	18	9	8	7	5	4	2.7	1.2	0.46

Evacuation Time

Model	Air Consumption (NI/min)	Evacuation time in sec / liter to reach different vacuum levels (-kPa)								
		10	20	30	40	50	60	70	80	90
VKM61	15 ~ 21	0.218	0.556	1	1.576	2.356	3.44	5.27	10.216	-
VKX61	21 ~ 24	0.258	0.796	1.516	2.4	3.56	4.91	6.896	10.16	19.19

VKM62 / VKX62

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	VKM62	VKX62
Max. Vacuum level	-85 kPa	-92 kPa
Open Vacuum flow	74 NI/min	62 NI/min
Max. Feed pressure	7 bar	7 bar
Temperature	-20 ~ 80 °C	-20 ~ 80 °C
Noise level	50 ~ 65 dbA	50 ~ 65 dbA
Weight	213.5 g	213.5 g

Vacuum Flow

Model	Max. vacuum (-kPa)	Vacuum flow (NI/min) at different vacuum levels (-kPa)									
		0	10	20	30	40	50	60	70	80	90
VKM62	85	74	52	31	28	20	16	12	4.8	1.32	-
VKX62	92	62	36	18	16	13	11	9.0	5.4	2.4	0.9

Evacuation Time

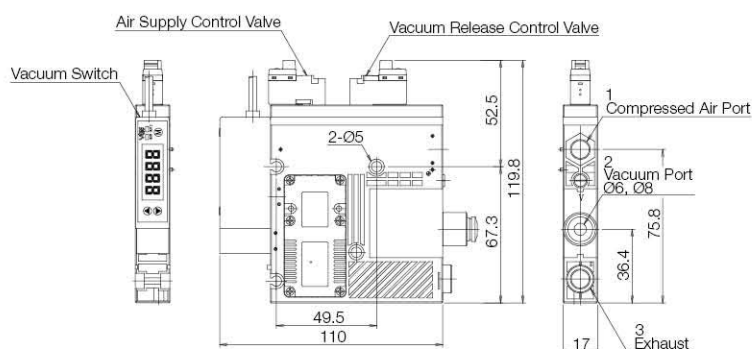
Model	Air Consumption (NI/min)	Evacuation time in sec / liter to reach different vacuum levels (-kPa)								
		10	20	30	40	50	60	70	80	90
VKM62	30 ~ 42	0.109	0.278	0.5	0.788	1.178	1.72	2.635	5.158	-
VKX62	43 ~ 48	0.129	0.398	0.758	1.2	1.78	2.455	3.445	5.08	9.549

Dimensions – VKM61 / VKX61 series

[Unit : mm]

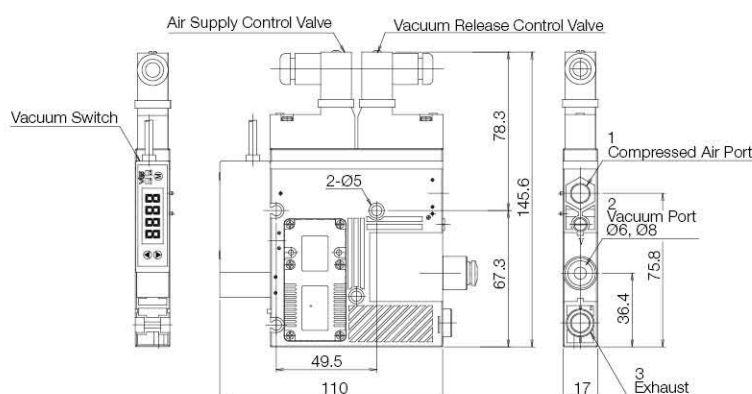
Single unit

Control valve Connector type / Digital vacuum switch



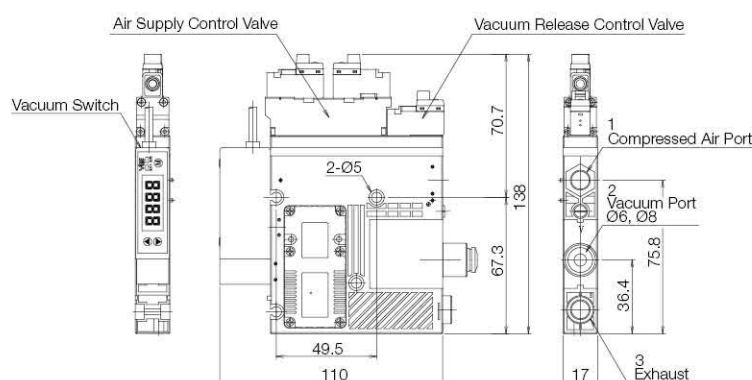
Single unit

Control valve DIN type / Digital vacuum switch



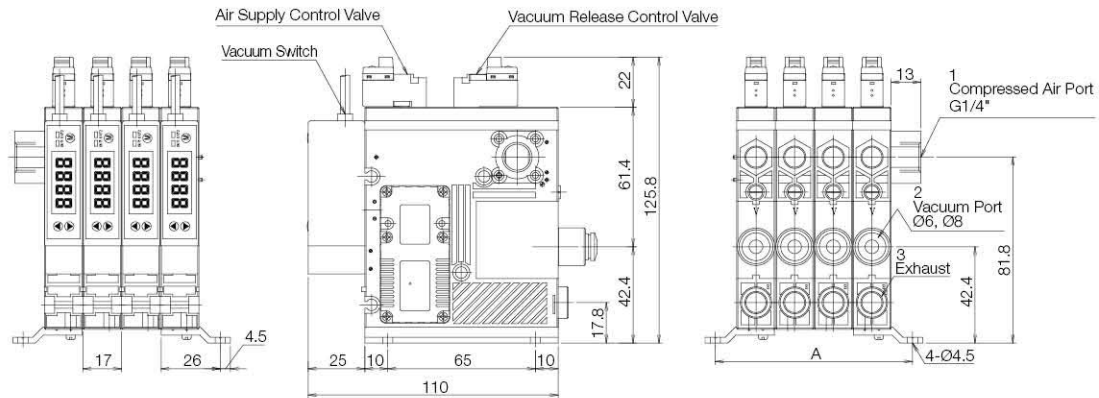
Single unit

Control valve double solenoid type / Digital vacuum switch



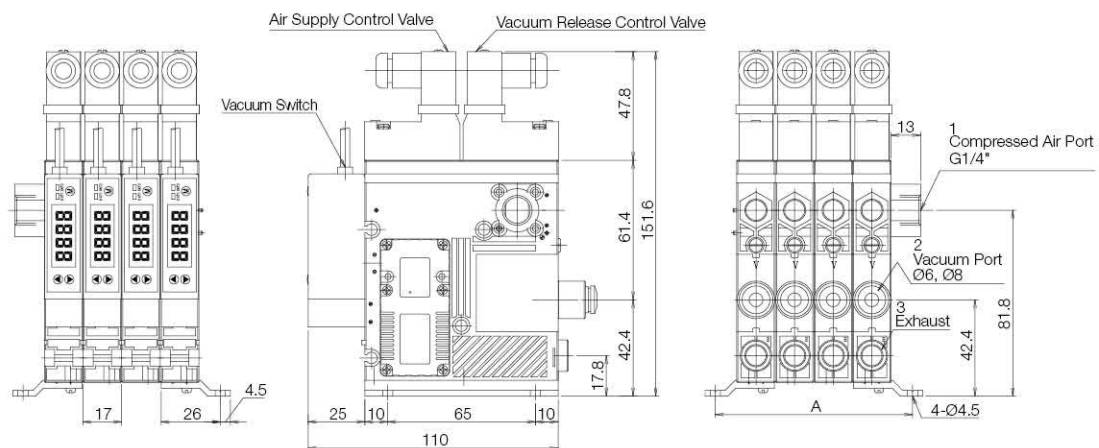
Manifold unit

Control valve Connector type / Digital vacuum switch



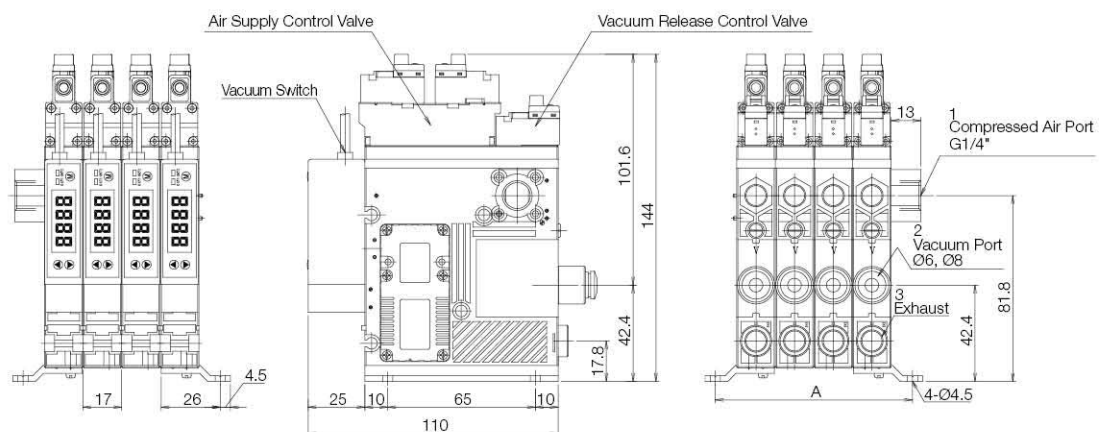
Manifold unit

Control valve DIN type / Digital vacuum switch



Manifold unit

Control valve double solenoid type / Digital vacuum switch

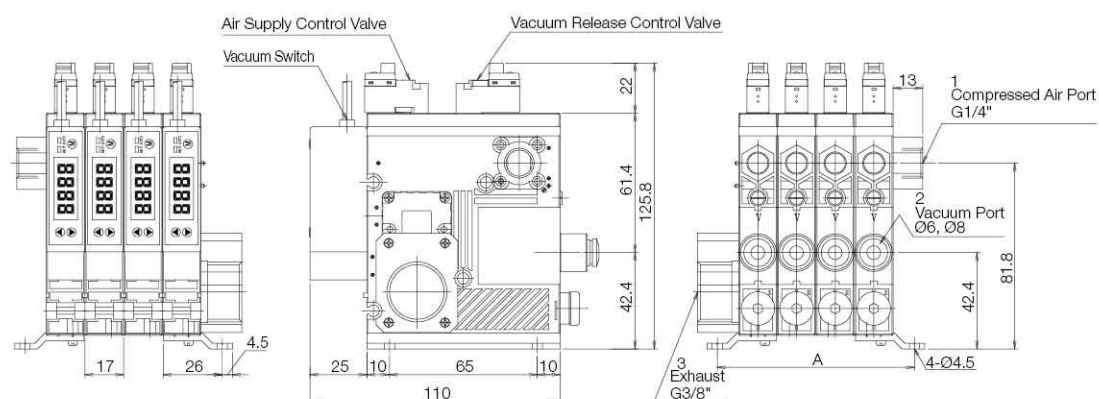


Dimension

[Unit : mm]

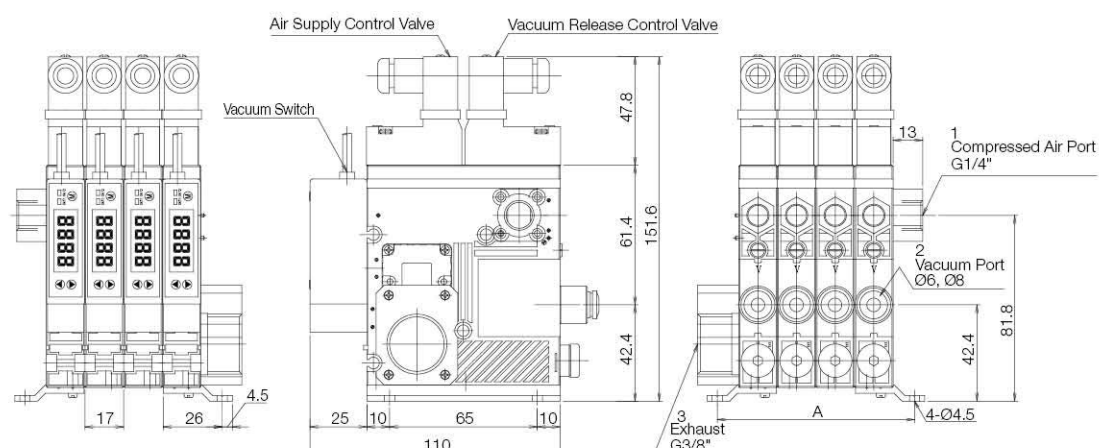
Manifold unit with central exhaust

Control valve Connector type / Digital vacuum switch



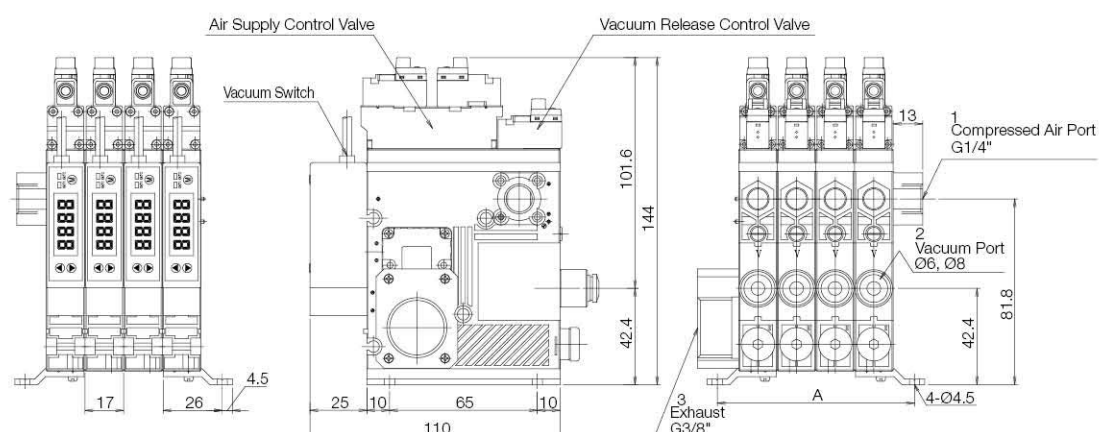
Manifold unit with central exhaust

Control valve DIN type / Digital vacuum switch



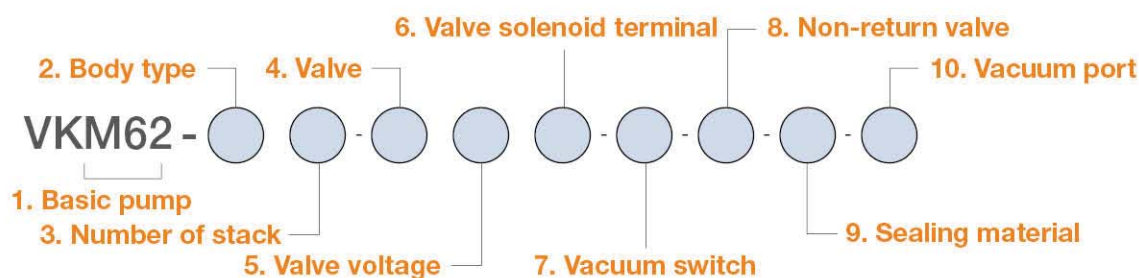
Manifold unit with central exhaust

Control valve double solenoid type / Digital vacuum switch



VACUUM PUMPS / Keyboard pumps – Midi series

Build an Ordering No.



1. Basic pump	Description	Symbol
	Midi Keyboard pump – “X” type	VKX61
	Midi Keyboard pump – “M” type	VKM61
	Midi Keyboard pump – “X” type	VKX62
	Midi Keyboard pump – “M” type	VKM62
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	

I 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

I Spare Parts – Filter

Part No.	Description
FCK62-A3-6	Filter cover case for Ø6 hose fitting, Fix bolt
FCK62-A3-6-N	Filter cover case for Ø6 hose fitting, Fix bolt, Gasket
FCK62-F3-6	Filter cover case for Ø6 hose fitting, Fix bolt, Filter element
FCK62-F3-6-N	Filter cover case for Ø6 hose fitting, Fix bolt, Gasket, Filter element
FCK62-A3-8	Filter cover case for Ø8 hose fitting, Fix bolt
FCK62-A3-8-N	Filter cover case for Ø8 hose fitting, Fix bolt, Gasket
FCK62-F3-8	Filter cover case for Ø8 hose fitting, Fix bolt, Filter element
FCK62-F3-8-N	Filter cover case for Ø8 hose fitting, Fix bolt, Gasket, Filter element
VTFE-K62	Filter element