X - Minimultiple Pump

Max. vacuum level : -92 kPa (-27.17 inHg)

Max. flow rate : 32 Nl/min x N Stack (1.13scfm x N stack)

Supply air pressure : 4~6bar, max 7bar (58~87 psi, max 101.5psi)

Supply air type : Dry compressed air

Working temperature : -20℃ ~ 80℃

Noise level : 55~65 dBA

Main Advantages

This X-Minimultiple pump model uses individual pumps to make up the complete unit, each pump is in itself a multi stage ejetor unit. The X-Minimultiple pump has the same external dimensions to that of the M-Minimultiple pump, however the internal ejetor system is different to enable higher levels of vacuum to be achieved. The X-Minimultiple pump is a pump that bridges the gap between the High Flow VTM pump range and the High Vacuum VTH Range, giving a balance of the two. Each individual pump can be stacked togerher thus creating a modular manifold based system.

The advantages of this unit is that it can be operated using just one control valve whilst retaining individual vacuum lines separate to one another, therefore if any leakage or surface deformation occurs and one pad loses its vacuum, it does not effect the vacuum level in the other pads. Pumps can be stacked up from 2-16 units depending upon requirements. The pumps can have seal material options of Viton® & EPDM for corrosive and acidic applications.

Order No.

VTX5 x 6 - A3 CL - 4 V

① ② ③ ④ ⑤ ⑥

① Model – Capacity equivalent to electricity motor pump size

•	**VTX5**	– 0.05KW
	VTX10	– 0.1KW

② Vacuum stack

	2	– 2 stack	10	– 10 stack
	3	– 3 stack	11	– 11 stack
	4	– 4 stack	12	– 12 stack
	5	– 5 stack	13	– 13 stack
•	**6**	– 6 stack	14	– 14 stack
	7	– 7 stack	15	– 15 stack
	8	– 8 stack	16	– 16 stack
	9	– 9 stack		

※ Remark : VTX5 maximum stack up to 16 stack (above 12 stack complete with 2 Silencer)
VTX10 maximum stack up to 12 stack (above 6 stack complete with 2 Silencer)

③ Air supply control valve

	A1	– AC110V
	A2	– AC220V
•	**A3**	– DC24V

④ Solenoid Terminal

	DN	– DIN type without lead wire
	DL	– DIN type with lamp without lead wire
•	**CL***	– Connector type with lamp & 0.3m lead wire

* Available only with DC24V

⑤ Vacuum port, inner dia of tube

	2	– Ø2
•	**4**	– Ø4

⑥ Sealing

	No mark	– Standard (NBR)
•	**V**	– Viton®
	E	– EPDM

Characteristics

Model	max. vacuum -kPa(-inHg)	Max. vacuum flow (Nl/m)	air consumption (Nl/m)	noise level (dBA)	weight (g)	min hose inner Ø (within 2m)		
						air supply	vacuum	exhaust
VTX5x2stack	92 (27.17)	24x2	43.2-48	55-60	67	⟩2	⟩2.5	3/8"X1
VTX5x3stack		24x3	64.8-72	55-60	80	⟩2	⟩2.5	3/8"X1
VTX5x4stack		24x4	84.4-96	60-63	247	⟩4	⟩2.5	3/8"X1
VTX5x5stack		24x5	108-120	60-63	255	⟩4	⟩2.5	3/8"X1
VTX5x6stack		24x6	129.6-144	60-63	281	⟩4	⟩2.5	3/8"X1
VTX5x7stack		24x7	151.2-168	60-63	299	⟩4	⟩2.5	3/8"X1
VTX5x8stack		24x8	172.8-192	60-63	317	⟩6	⟩2.5	3/8"X1
VTX5x9stack		24x9	194.4-216	60-63	335	⟩6	⟩2.5	3/8"X1
VTX5x10stack		24x10	216-240	60-63	353	⟩6	⟩2.5	3/8"X1
VTX5x11stack		24x11	237.6-264	60-63	371	⟩6	⟩2.5	3/8"X1
VTX5x12stack		24x12	259.2-288	60-63	389	⟩6	⟩2.5	3/8"X2
VTX5x13stack		24x13	280.8-312	60-63	417	⟩6	⟩2.5	3/8"X2
VTX5x14stack		24x14	302.4-336	60-63	435	⟩8	⟩2.5	3/8"X2
VTX5x15stack		24x15	324-360	60-63	453	⟩10	⟩2.5	3/8"X2
VTX5x16stack		24x16	345.6-384	60-63	471	⟩10	⟩2.5	3/8"X2
VTX10x2stack	92 (27.17)	32x2	86.4-96	60-63	67	⟩4	⟩4	3/8"X1
VTX10x3stack		32x3	129.6-144	63-65	80	⟩4	⟩4	3/8"X1
VTX10x4stack		32x4	172.8-192	63-65	247	⟩6	⟩4	3/8"X1
VTX10x5stack		32x5	216-240	63-65	255	⟩6	⟩4	3/8"X1
VTX10x6stack		32x6	259.2-288	63-65	281	⟩6	⟩4	3/8"X2
VTX10x7stack		32x7	302.4-336	63-65	299	⟩6	⟩4	3/8"X2
VTX10x8stack		32x8	345.6-384	63-65	327	⟩8	⟩4	3/8"X2
VTX10x9stack		32x9	388.8-432	63-65	345	⟩10	⟩4	3/8"X2
VTX10x10stack		32x10	432-480	63-65	363	⟩10	⟩4	3/8"X2
VTX10x11stack		32x11	475.2-528	63-65	381	⟩10	⟩4	3/8"X2
VTX10x12stack		32x12	518.4-576	63-65	399	⟩10	⟩4	3/8"X2

Vacuum flow in (Nl/m) at different Vacuum level (-kPa)

-inHg / -kPa / Model	0 0	2.95 10	5.9 20	8.85 30	11.81 40	14.76 50	17.71 60	20.67 70	23.62 80	26.57 90
VTX5x1stack	24	13	9	8	7	5	4	2.7	1.2	0.45
VTX10x1stack	32	21	17	15	14	11	9	5.4	2.4	0.9

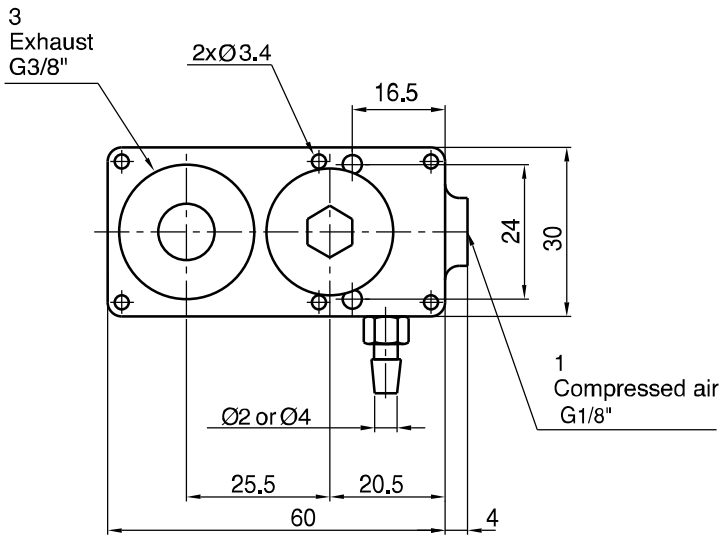
Time in seconds to evacuate to vacuum level (sec/l)

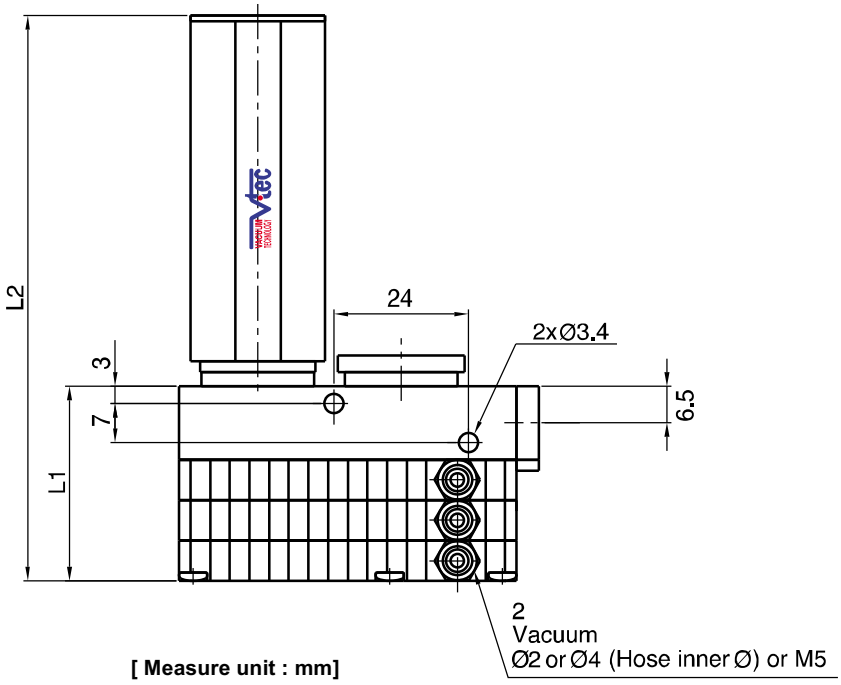
-inHg / -kPa / Model	2.59 10	2.95 20	8.85 30	11.81 40	14.76 50	17.71 60	20.67 70	23.62 80	26.57 90
VTX5x1stack	0.258	0.796	1.516	2.4	3.56	4.91	6.896	10.16	19.19
VTX10x1stack	0.129	0.398	0.758	1.2	1.78	2.455	3.445	5.08	9.594

Dimensional Information

VTM(X) 5 x (2, 3)Stack

10





[Measure unit : mm]

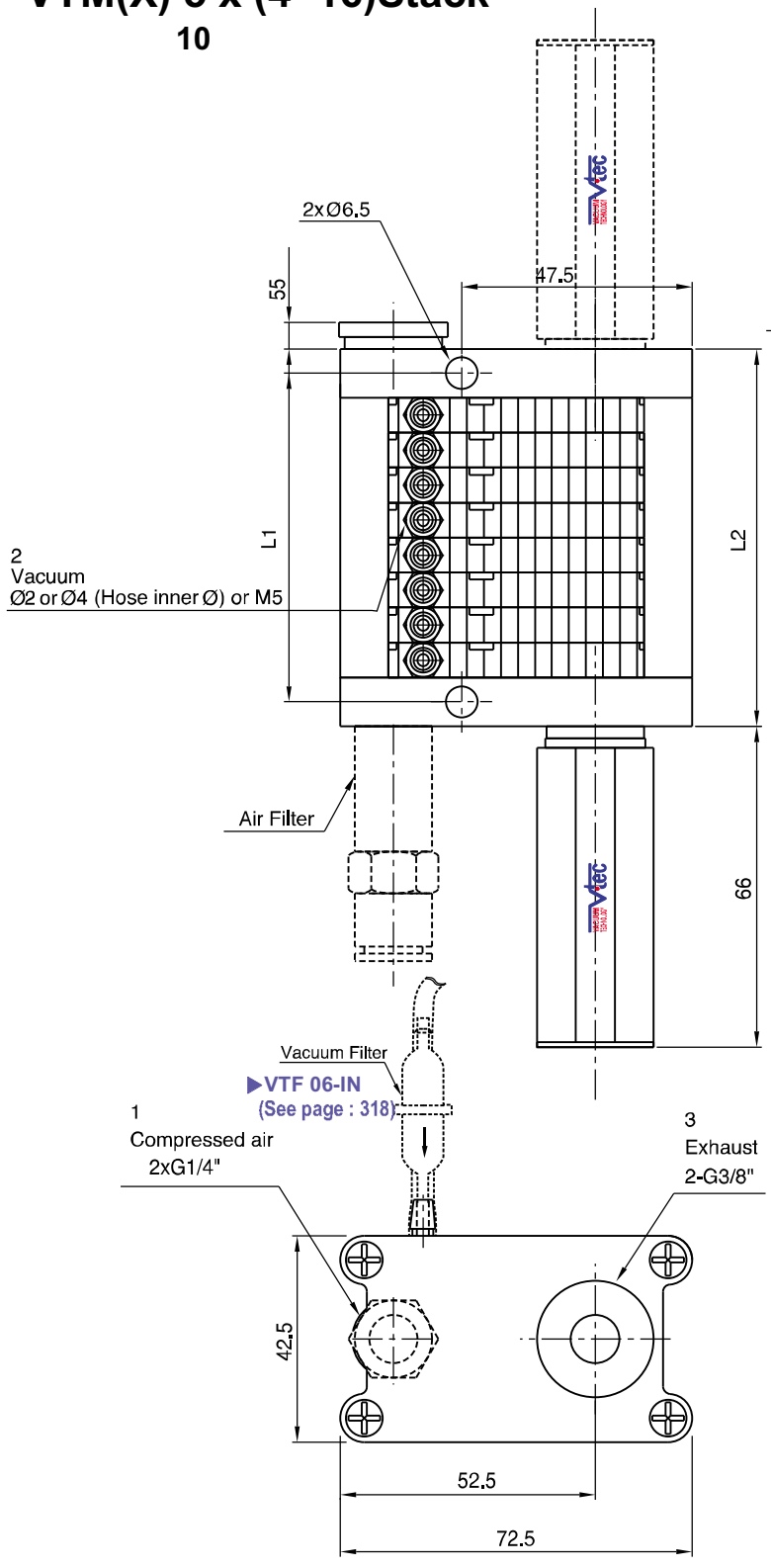
(mm)

VTM5(10) VTX5(10)	L1	L2
2stack	28	94
3stack	35	101

Dimensional Information

VTM(X) 5 x (4~16)Stack

10



[Measure unit : mm]

(mm)

VTM5(10) VTX5(10)	L1	L2
4stack	38.3	48.3
5stack	45.5	55.5
6stack	53	63
7stack	60	70
8stack	67.5	77.5
9stack	74.8	84.8
10stack	82	92
11stack	88.5	98.5
12stack	96	106
13stack	103.2	113.2
14stack	111	121
15stack	118	128
16stack	125.2	135.2