M-Midimultiple Pump

Max. vacuum level : -85 kPa (-25.1 inHg)

Max. flow rate : 220 Nl/min x N Stack (7.77scfm 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 : 50~65 dBA

Main Advantages

Basically this pump is similar function with mini multiple stack pump. Each individual pump can be stacked up thus creating a modular manifold based system. The advantages of this unit is that it can be operated with one supply air port and activating individual vacuum pump which mounted on the manifold, as the result if any leakage occurs due to product surface deformation of one vacuum pad, it will not affect the vacuum performance in other vacuum pads. This pump can be stacked up from 2stack to 6stacks, depending on the requirment. This pump has sealing option of VITON® and EPDM for corrosive and acidic application. Also, can be integrated vacuum filters directly on the pumps.

Order No.

VTM10 x 6 - B - A3 - CL - V

① ② ③ ④ ⑤ ⑥

① Model – Capacity equivalent to electricity motor pump size

●	**VTM10**	– 0.1KW
	VTM20	– 0.2KW
	VTM30	– 0.3KW

② Vacuum stack

	2	– 2 stack
	3	– 3 stack
	4	– 4 stack
	5	– 5 stack
●	**6**	– 6 stack

③ Vacuum port , Exhaust port

		Vacuum	Exhaust
●	**B**	G 3/8″	Internal silencer
	BA	G 3/8″	Internal silencer, connection plate-AL
	NB	NPSF 3/8″	Internal silencer
	NBA	NPSF 3/8″	Internal silencer, connection plate-AL
	C	G 3/8″	external silencer
	NC	NPSF 3/8″	external silencer

④ Air supply control valve

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

⑤ 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

⑥ Sealing

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

Specifications subject to change without notice.

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)		
					B, NB	C, NC	air supply	vacuum	exhaust
VTM10×2	85 (25.1)	74×2	60-84	50-60	380	393	〉4	〉8	3/8″×2
VTM10×3		74×3	90-126	50-60	532	545	〉6	〉8	3/8″×3
VTM10×4		74×4	120-168	55-60	695	708	〉6	〉8	3/8″×4
VTM10×5		74×5	150-210	60-65	850	863	〉6	〉8	3/8″×5
VTM10×6		74×6	180-252	60-65	998	1011	〉8	〉8	3/8″×6
VTM20×2	85 (25.1)	149×2	120-168	50-60	399	412	〉6	〉10	3/8″×2
VTM20×3		149×3	180-252	55-60	560	573	〉6	〉10	3/8″×3
VTM20×4		149×4	240-336	60-65	735	748	〉8	〉10	3/8″×4
VTM20×5		149×5	300-420	60-65	899	912	〉10	〉10	3/8″×5
VTM20×6		149×6	360-504	60-68	1058	1071	〉10	〉10	3/8″×6
VTM30×2	85 (25.1)	220×2	180-252	55-60	421	434	〉6	〉12	3/8″×2
VTM30×3		220×3	270-378	60-65	587	600	〉8	〉12	3/8″×3
VTM30×4		220×4	360-504	60-65	775	788	〉10	〉12	3/8″×4
VTM30×5		220×5	450-630	60-68	947	960	〉10	〉12	3/8″×5
VTM30×6		220×6	540-756	60-68	1116	1129	〉10	〉12	3/8″×6

※ Remarks : BA(NBA)type weight = B type weight+(26g.×stack)

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

-inHg / -kPa / Model	0	2.95	5.9	8.85	11.81	14.76	17.71	20.67	23.62
	0	10	20	30	40	50	60	70	80
VTM10x1 Stack	74	52	31	28	20	16	12	4.8	1.32
VTM20x1 Stack	149	99	62	54	40	32	22	10.5	2.7
VTM30x1 Stack	220	147	92	73	60	47	32	16	4.1

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

-inHg / -kPa / Model	2.95	5.9	8.85	11.81	14.76	17.71	20.67	23.62
	10	20	30	40	50	60	70	80
VTM10x1 Stack	0.109	0.278	0.5	0.788	1.178	1.72	2.635	5.158
VTM20x1 Stack	0.054	0.139	0.25	0.394	0.589	0.86	1.317	2.579
VTM30x1 Stack	0.041	0.104	0.186	0.295	0.441	0.647	0.898	1.935

X - Midimultiple Pump

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

Max. flow rate : 185 Nl/min x N Stack (6.53 scfm 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 : 50~65 dBA

Main Advantages

The X-Midimultiple pump has the same external dimension to X-Midimultiple pump. It enabling it to achieve higher vacuum level. Each individual pump can be stacked up thus creating a modular manifold based system. The advantage of this pump is that it has a bigger vacuum port as the applications requriing large vacuum flow and high vacuum level. If any leakage occurs due to product surface deformation of one vacuum pad, it will not affect the vacuum performance in the other pads. This pump can be stacked up from 2 stacks to 6 stacks. Also,can be specified with an air control solenoid valve and with Viton® or EPDM as seal options.

Order No.

VTX10 x 6 - B - A3 CL - V

① ② ③ ④ ⑤ ⑥

① Model – Capacity equivalent to electricity motor pump size

•	**VTX10**	– 0.1KW
	VTX20	– 0.2KW
	VTX30	– 0.3KW

② Vacuum stack

	2	– 2 stack
	3	– 3 stack
	4	– 4 stack
	5	– 5 stack
•	**6**	– 6 stack

③ Vacuum port , Exhaust port

		Vacuum	Exhaust
•	**B**	G 3/8″	Internal silencer
	BA	G 3/8″	Internal silencer, connection plate-AL
	NB	NPSF 3/8″	Internal silencer
	NBA	NPSF 3/8″	Internal silencer, connection plate-AL
	C	G 3/8″	External silencer
	NC	NPSF 3/8″	External silencer

④ Air supply control valve

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

⑤ 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

⑥ Sealing

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

Specifications subject to change without notice.

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)		
					B,NB	C,NC	air supply	vacuum	exhaust
VTX10 x 2	92 (27.17)	62x2	86.4-96	50-60	380	393	〉4	〉8	3/8″×2
VTX10 x 3		62x3	129.6-144	50-60	532	545	〉6	〉8	3/8″×3
VTX10 x 4		62x4	172.8-192	55-60	695	708	〉6	〉8	3/8″×4
VTX10 x 5		62x5	216-240	60-65	850	863	〉6	〉8	3/8″×5
VTX10 x 6		62x6	259.2-288	60-65	998	1011	〉8	〉8	3/8″×6
VTX20 x 2	92 (27.17)	124x2	172.8-192	50-60	399	412	〉6	〉10	3/8″×2
VTX20 x 3		124x3	259.2-288	55-60	560	573	〉6	〉10	3/8″×3
VTX20 x 4		124x4	345.6-384	60-65	735	748	〉8	〉10	3/8″×4
VTX20 x 5		124x5	432-480	60-65	899	912	〉10	〉10	3/8″×5
VTX20 x 6		124x6	518.4-576	60-65	1058	1071	〉10	〉10	3/8″×6
VTX30 x 2	92 (27.17)	185x2	259.2-288	55-60	421	434	〉6	〉12	3/8″×2
VTX30 x 3		185x3	388.8-432	60-65	587	600	〉8	〉12	3/8″×3
VTX30 x 4		185x4	518.4-576	60-65	775	788	〉10	〉12	3/8″×4
VTX30 x 5		185x5	648-720	60-65	947	960	〉10	〉12	3/8″×5
VTX30 x 6		185x6	777.6-864	60-65	1116	1129	〉10	〉12	3/8″×6

※ Remarks : BA(NBA) type weight = B type weight + (26g×stack)

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

-inHg / -kPa / Model	0	2.95	5.9	8.85	11.81	14.76	17.71	20.67	23.62	26.57
	0	10	20	30	40	50	60	70	80	90
VTX10x1Stack	62	36	18	16	14	11	9	6	2.4	0.9
VTX20x1Stack	124	72	35	32	27	22	18	12	4.8	1.8
VTX30x1Stack	185	108	52	47	41	33	26	18	7.2	2.7

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

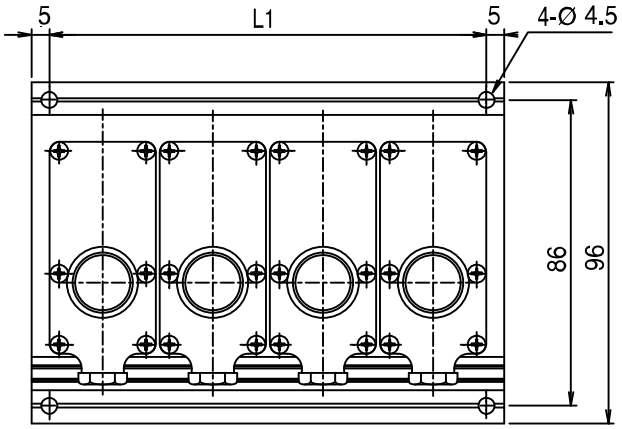
-inHg / -kPa / Model	2.95	5.9	8.85	11.81	14.76	17.71	20.67	23.62	26.57
	10	20	30	40	50	60	70	80	90
VTX10x1Stack	0.129	0.398	0.758	1.2	1.78	2.455	3.445	5.08	9.594
VTX20x1Stack	0.064	0.199	0.379	0.6	0.89	1.227	1.722	2.54	4.797
VTX30x1Stack	0.048	0.149	0.284	0.44	0.673	0.917	1.287	1.906	3.595

Dimensional Information

VTM(X) 10 x (2~6)-NB

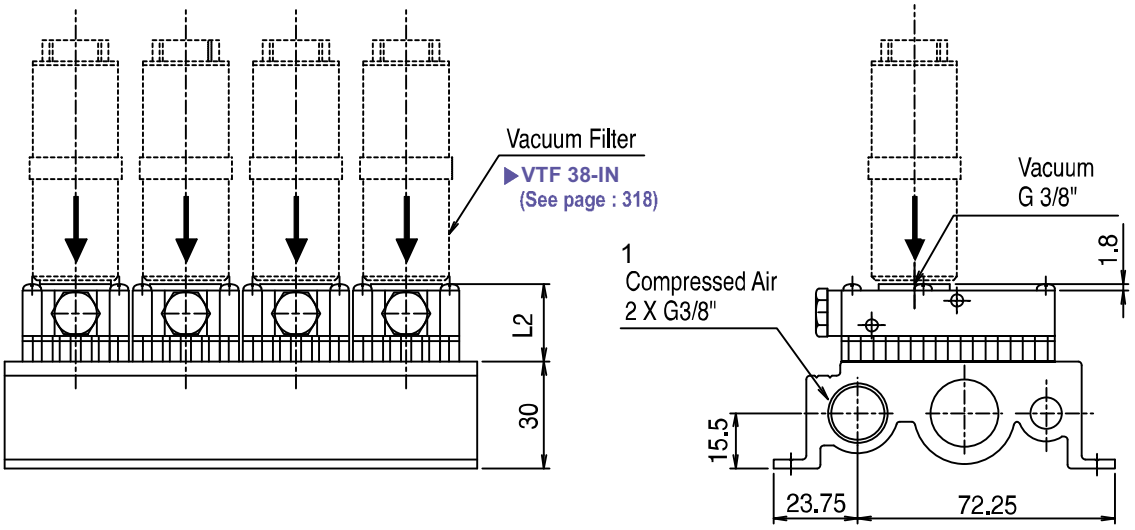
20 B

30



(mm)

Model	L1	L2
VTM(X)10x2-B,NB	61	21.8
VTM(X)10x3-B,NB	92	21.8
VTM(X)10x4-B,NB	123	21.8
VTM(X)10x5-B,NB	154	21.8
VTM(X)10x6-B,NB	185	21.8
VTM(X)20x2-B,NB	61	29
VTM(X)20x3-B,NB	92	29
VTM(X)20x4-B,NB	123	29
VTM(X)20x5-B,NB	154	29
VTM(X)20x6-B,NB	185	29
VTM(X)30x2-B,NB	61	36.2
VTM(X)30x3-B,NB	92	36.2
VTM(X)30x4-B,NB	123	36.2
VTM(X)30x5-B,NB	154	36.2
VTM(X)30x6-B,NB	185	36.2



[Measure unit : mm]

Dimensional Information

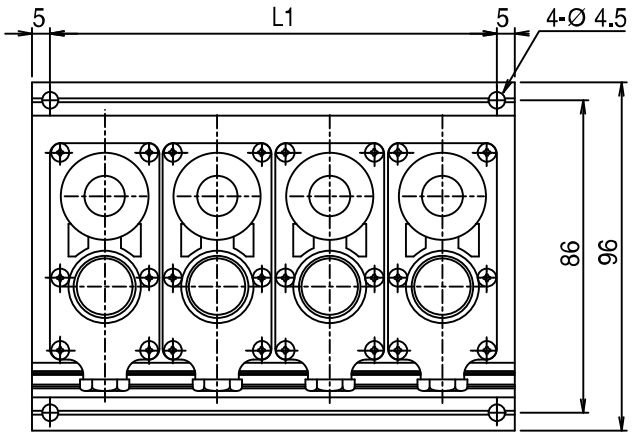
VTM 10 x (2~6)-NC

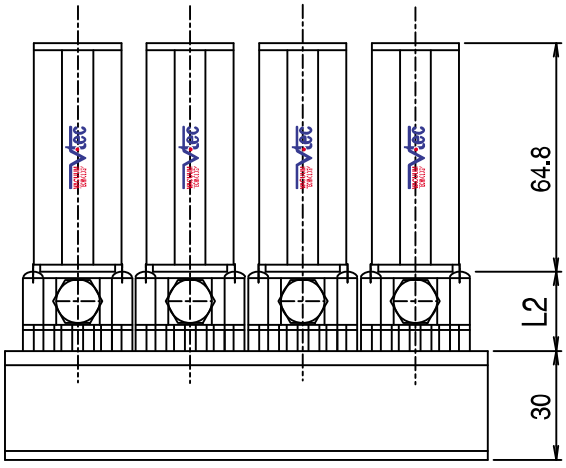
20 C

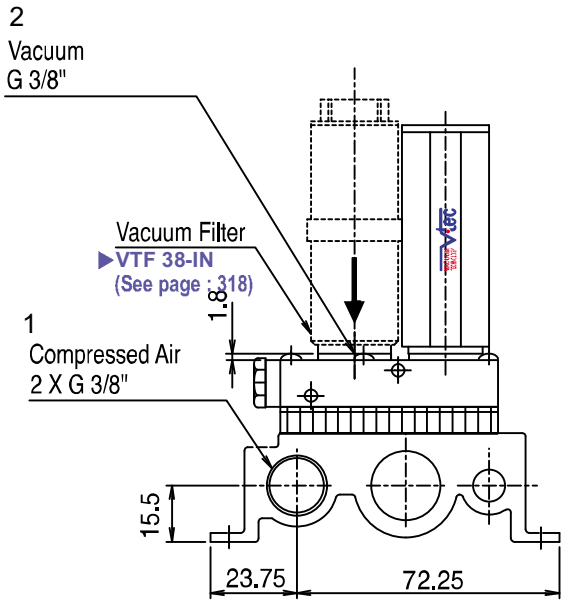
30

(mm)

Model	L1	L2
VTM(X)10x2-C,NC	61	21.8
VTM(X)10x3-C,NC	92	21.8
VTM(X)10x4-C,NC	123	21.8
VTM(X)10x5-C,NC	154	21.8
VTM(X)10x6-C,NC	185	21.8
VTM(X)20x2-C,NC	61	29
VTM(X)20x3-C,NC	92	29
VTM(X)20x4-C,NC	123	29
VTM(X)20x5-C,NC	154	29
VTM(X)20x6-C,NC	185	29
VTM(X)30x2-C,NC	61	36.2
VTM(X)30x3-C,NC	92	36.2
VTM(X)30x4-C,NC	123	36.2
VTM(X)30x5-C,NC	154	36.2
VTM(X)30x6-C,NC	185	36.2







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