

M - Maxflex Pump

Max. vacuum level	: -92 kPa (-27.17 inHg)
Max. flow rate	: 11000 NI/min (388.5 scfm)
Supply air pressure	: 4~6bar, max 7bar (58~87 psi, max 101.5psi)
Supply air type	: Dry compressed air
Working temperature	: -20°C ~ 80°C
Noise level	: 55 ~ 68 dBA



Main Advantages

This range of M-Maxflex pumps produces the very highest flow rates, as the name denotes all the pumps uses a large bore common vacuum port with port sizes up to 2". This type of pump has many applications but is particularly useful for high leakage systems, porous materials centerising vacuum system and large vacuum circuits.

The pumps are based around a manifold design and utilize an integrally mounted large bore air supply on/off valve as option. The pumps also come with vacuum and air pressure gauges with two options for positioning of the exhausts, mounting brackets are also supplied. Air saving kits and VITON® & EPDM seals options are also available with this pump.

Order No.

VTMM200EF - AS - A3 - SG2 - N V

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① Model – Capacity equivalent to electricity motor pump size

- **VTMM200EF** – 2KW
- VTMM300EF – 3KW
- VTMM400EF – 4KW
- VTMM500EF – 5KW
- VTMM600EF – 6KW
- VTMM800EF – 8KW
- VTMM1000EF – 10KW

③ Air supply control valve

- No mark – Without control valve
- A1 – AC110V Electrically operated valve
- A2 – AC220V Electrically operated valve
- **A3** – DC24V Electrically operated valve
- A4 – Pneumatically operated valve

⑤ Non return valve

- No mark – Standard
- **N** – Non return valve

② Air saving kit (108)

- No mark – Standard
- **AS** – Air saving kit attach

④ Vacuum switch

- S2(P) – Digital output 2points, No analog supply
M8-4Pin male connector (0.3m lead wire)
- **SG2(P)** – Digital output 2points, No analog supply
Grommet type 4-core 2m lead wire
- SG3(P) – Digital output 2points, Analog supply
Grommet type 4-core 2m lead wire

※ Remark : ① S₂(P)
→ Output type : PNP open collector.
② VCM8 42 : M8-4Pin female connector.
only for type S2(P)

⑥ Sealing

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

Characteristics

Model	max. vacuum -kPa(-inHg)	Max. vacuum flow (NI/m)	air consumption (NI/m)	noise level (dBA)	weight (g)	min hose inner Ø (within 2m)		
						air supply	vacuum	exhaust
VTMM200EF	92 (27.17)	2200	600-780	55~65	4270	>10	>32	>40
VTMM300EF		3300	900-1260	55~65	5584	>12	>40	>60
VTMM400EF		4400	1200-1680	55~65	5939	>12	>40	>60
VTMM500EF		5500	1500-2100	65~68	6275	>14	>45	>70
VTMM600EF		6600	1800-2520	65~68	11579	>14	>50	>70
VTMM800EF		8800	2400-3360	65~68	12300	>15	>50	>75
VTMM1000EF		11000	3000-4140	65~68	15800	>18	>65	>90

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

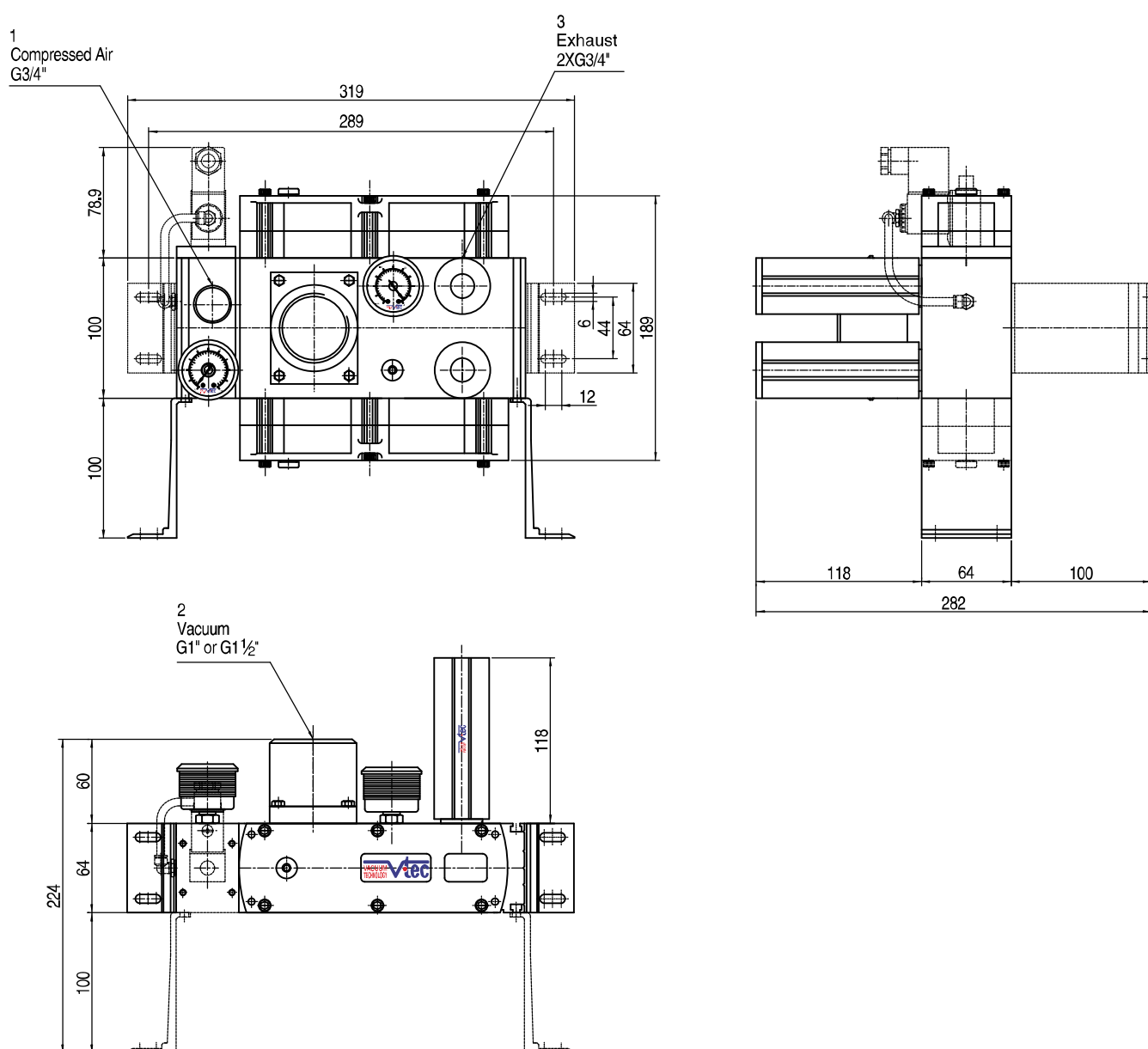
Model	-inHg -kPa	0	2.95	5.9	8.85	11.81	14.76	17.71	20.67	23.62	26.57
	0	0	10	20	30	40	50	60	70	80	90
VTMM200EF	2200	1540	1016	528	290	216	144	80	40	6.4	
VTMM300EF	3300	2310	1781	793	435	324	216	120	60	9.6	
VTMM400EF	4400	3080	2036	1058	580	432	288	160	80	12.8	
VTMM500EF	5500	3850	2545	1323	725	540	360	200	100	16	
VTMM600EF	6600	4620	3055	1588	870	648	432	240	120	19.2	
VTMM800EF	8800	6164	4076	2119	1160	864	576	320	160	25.6	
VTMM1000EF	11000	7700	5090	2646	1450	1080	720	400	200	32	

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

Model	-inHg -kPa	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	
VTMM200EF	0.0031	0.0075	0.0164	0.029	0.054	0.09	0.153	0.274	0.67	
VTMM300EF	0.0023	0.0056	0.0123	0.022	0.041	0.068	0.115	0.206	0.503	
VTMM400EF	0.0015	0.0038	0.0082	0.014	0.027	0.045	0.076	0.137	0.335	
VTMM500EF	0.0013	0.0033	0.0072	0.013	0.024	0.04	0.067	0.120	0.294	
VTMM600EF	0.0012	0.0028	0.0062	0.011	0.021	0.034	0.057	0.103	0.252	
VTMM800EF	0.0008	0.0019	0.0041	0.007	0.014	0.022	0.038	0.068	0.168	
VTMM1000EF	0.0007	0.0016	0.0036	0.006	0.012	0.018	0.031	0.057	0.147	

Dimensional Information

VTMM200EF

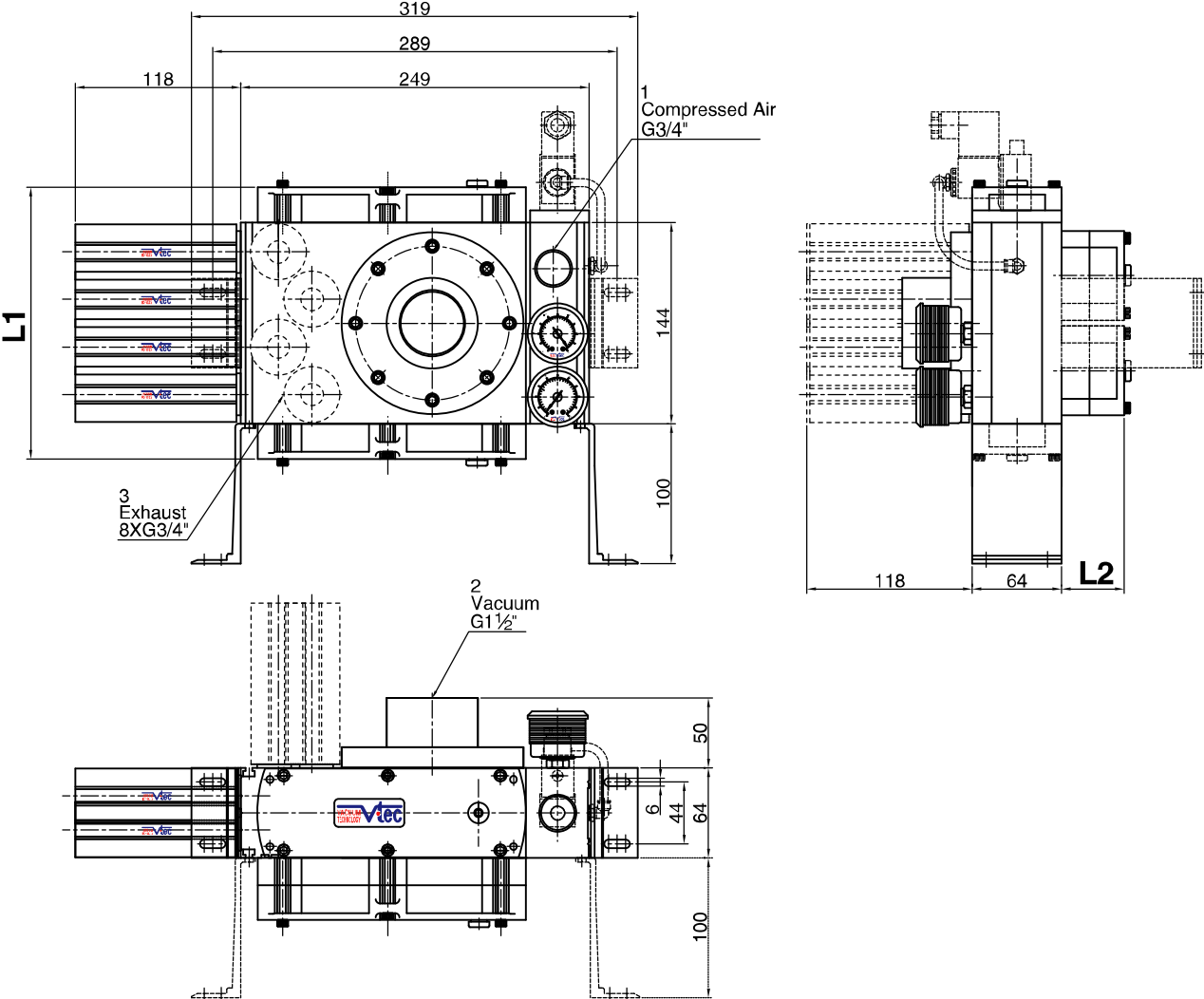


[Measure unit : mm]

Dimensional Information

VTMM300EF

400
500

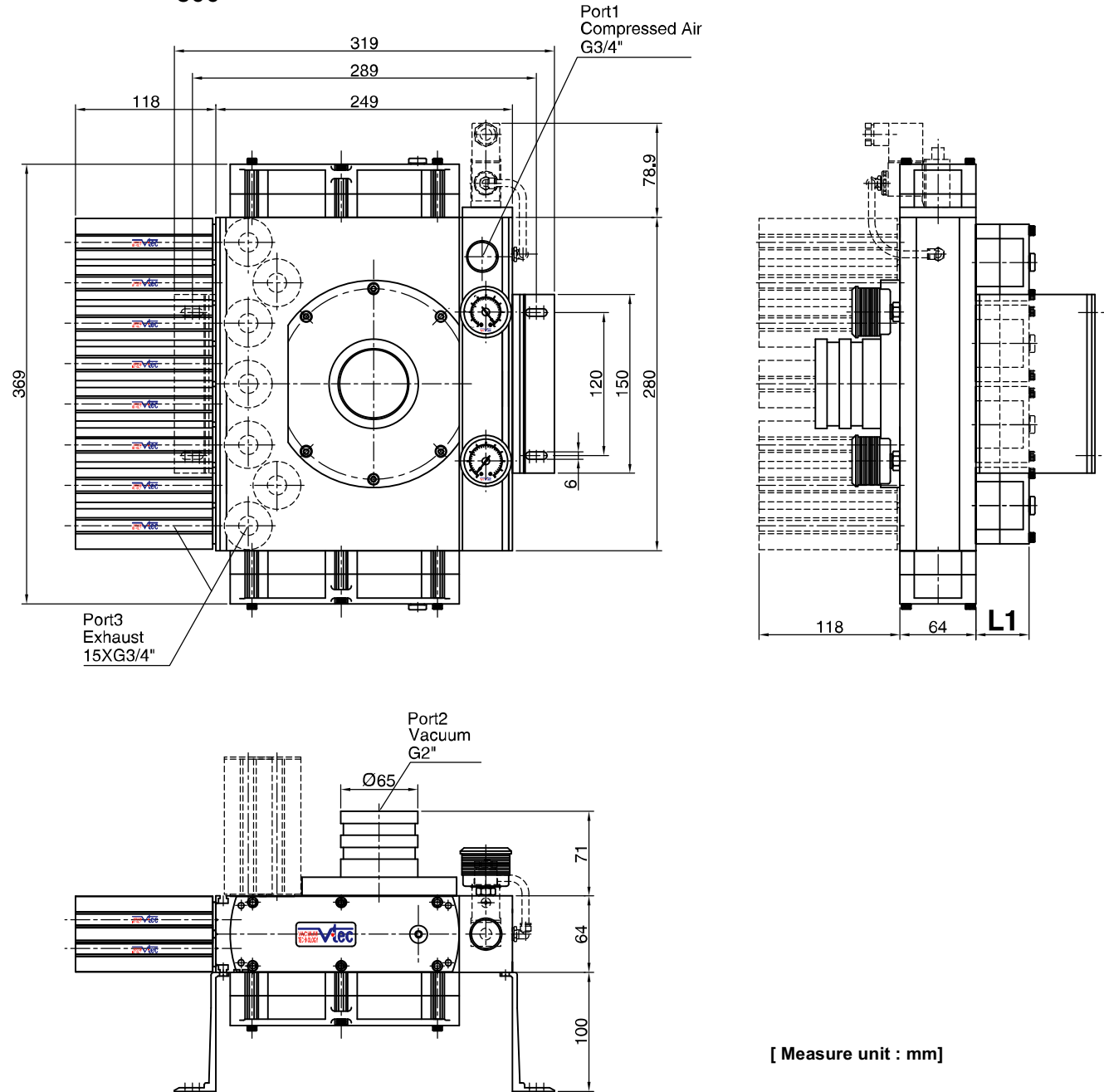


[Measure unit : mm]

Model	(mm)	
	L1	L2
VTMM300-EF	194	44.5
VTMM400-EF	233	44.5
VTMM500-EF	233	44.5

Dimensional Information

VTMM600EF
800

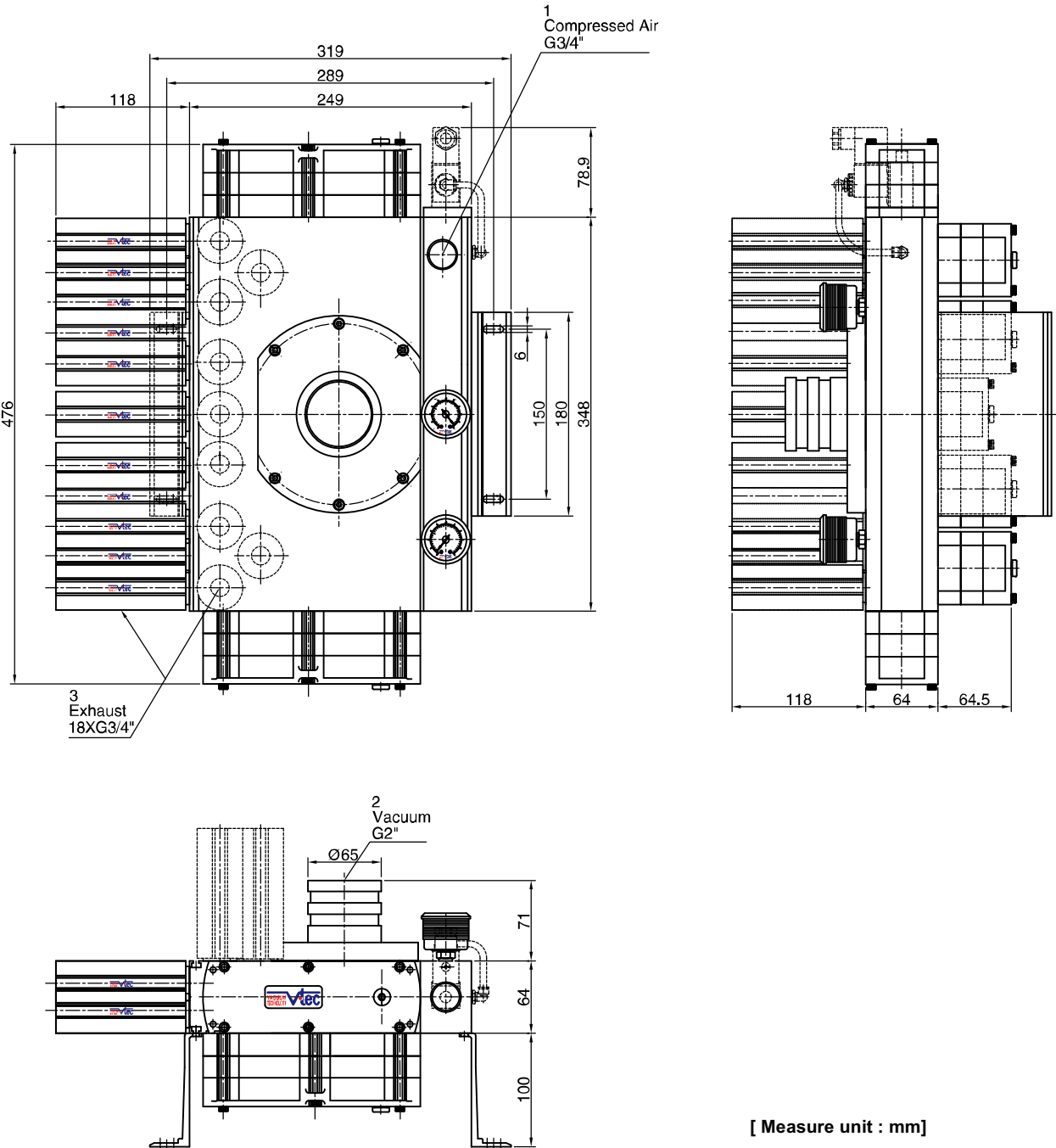


[Measure unit : mm]

Model	L1 (mm)
VTMM600-EF	44.5
VTMM800-EF	64

Dimensional Information

VTMM1000EF



[Measure unit : mm]