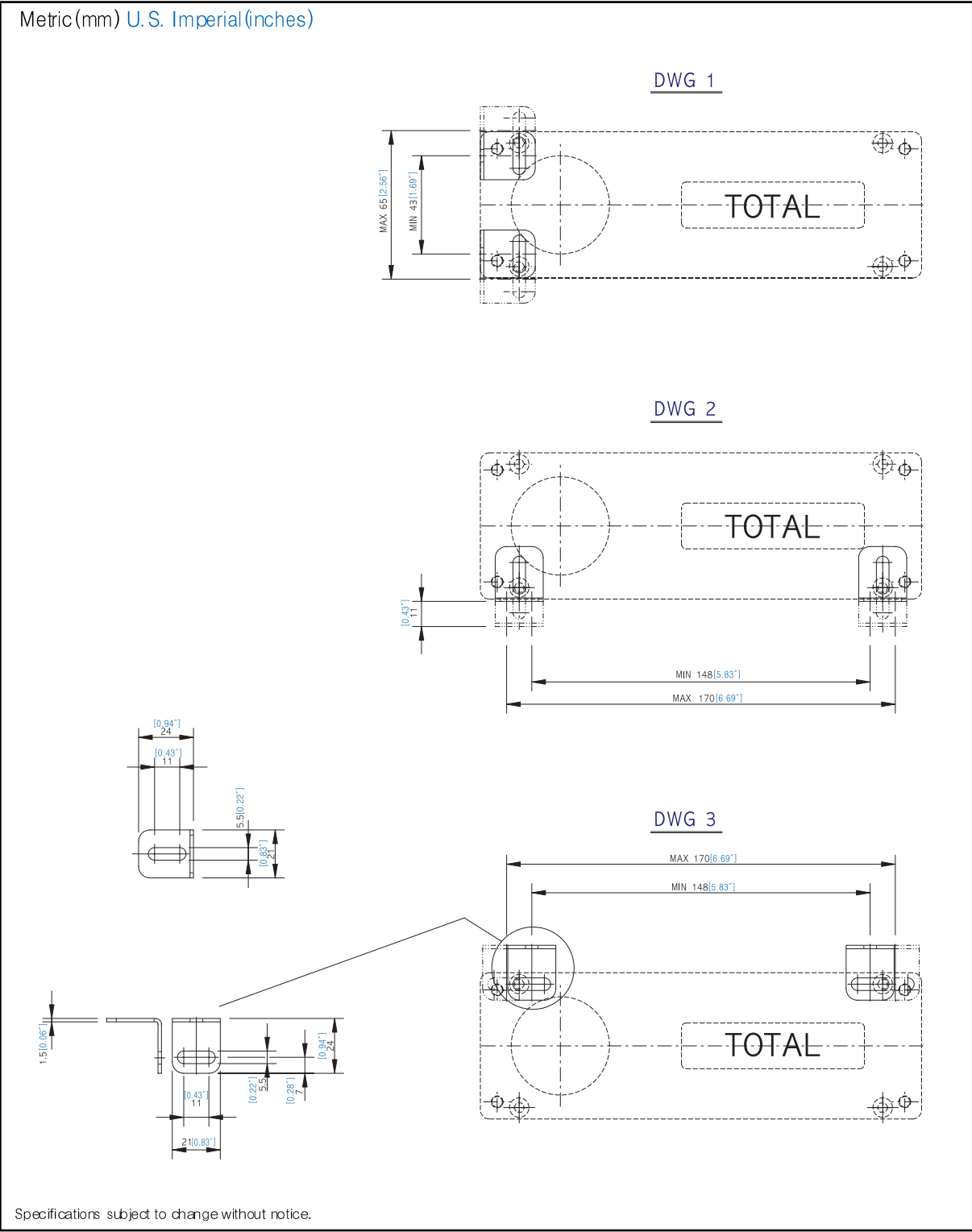


Mounting style
Dimension



9) T2MM: High Flow Medium Vacuum Type

10) T2MX: High Flow Extra Vacuum Type

MM type: Air-driven vacuum pump with standard type of multi-stage nozzle, put together on the large size of duplex base chamber to satisfy both of -91 kPa of vacuum level and high vacuum flow. This is used easily in the process which requires high vacuum flow.

MX type: Air-driven vacuum pump with extra vacuum type of multi-stage nozzle, put together on the large size of duplex base chamber to satisfy both of -96 kPa of vacuum level and high vacuum flow. This is used easily in the process which requires extra vacuum level and a large size of pumping. cf. possible to be joined up to 2,574 (Nℓ /min) of max. vacuum flow.



T2MM & T2MX
Identical Specification,
Different Vacuum Level

Performance and Specifications Outline

	MM Type	MX Type
Max. Vacuum Level	Max. 682.67 (mmHg.G) Max. -26.88 (inHg) Max. -91 (kPa)	Max. 720.18 (mmHg.G) Max. -28.35 (inHg) Max. -96 (kPa)
Max. Vacuum Flow	Max. 2,574 (ℓ /min) Max. 90.890 (scfm)	Max. 880 (ℓ /min) Max. 31.073 (scfm)
Supply Air Condition	Compressed Air	Compressed Air
Supply Air Pressure	4~6.2 bar 58.01~89.92 psi	4.8~7 bar 69.62~101.53 psi
Working Temperature	-20℃~+80℃ -4°F~+176°F	-20℃~+80℃ -4°F~+176°F
Noise Level	65~78 dBA	65~72 dBA

T2MM: High Flow Medium Vacuum Type

Characteristics / Medium Vacuum

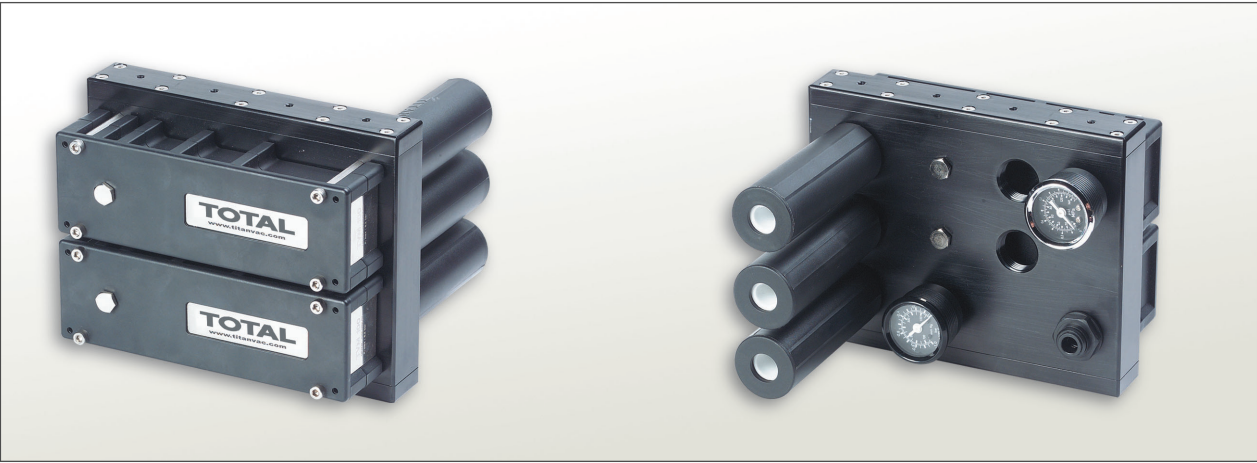
Pump Model	Max. Vacuum (mmHg · G) (-inHg) (-kPa)	Max. Vacuum Flow (N ℓ /min) (scfm)	Air Consumption (N ℓ /min) (scfm)	Noise Level (dBA)	Net Weight (g) (oz)	Pipe Arrangement (Ø)		
						Compressed Air (mm) (inches)	Vacuum (inches)	Exhaust (inches)
T2MM100	685.5 26.99 91.4	1,230 43.432	300~416 10.533~14.689	60~65	2,894 102.071	>8 0.32"	G 3/4" x 2	G 3/4" x 3
T2MM150		1,812 63.983	450~632 15.890~22.316	60~65	3,202 112.935	>8 0.32"	G 3/4" x 2	G 3/4" x 3
T2MM200		2,574 90.890	600~784 21.186~27.684	60~65	3,202 112.935	>10 0.39"	G 3/4" x 2	G 3/4" x 3

Vacuum flow in (N ℓ /min) (scfm) at different vacuum levels (mmHg · G) (-inHg) (-kPa)

Pump Model	Vacuum Level	Vacuum Flow (N ℓ /min) (scfm)									
		0 0 0	75 2.95 10	150 5.91 20	225 8.86 30	300 11.81 40	375 14.76 50	450 17.72 60	525 20.67 70	600 23.62 80	675 26.57 90
T2MM100		1,230 43.432	1,070 37.782	759 26.801	358 12.641	183 6.462	137 4.838	92 3.249	50 1.766	22 0.777	3.4 0.120
T2MM150		1,812 63.983	1,522 53.743	1,084 38.277	509 17.973	263 9.287	194 6.850	132 4.661	71 2.507	31.4 1.109	4.8 0.169
T2MM200		2,574 90.890	1,798 63.489	1,188 41.949	616 21.751	309 10.911	254 8.969	161 5.685	93 3.284	43.2 1.525	7.2 0.254

Time to evacuate a volume (sec/ℓ) (sec/cf) at different vacuum levels (mmHg · G) (-inHg) (-kPa)

Pump Model	Vacuum Level	Evacuation Time (sec/ℓ) (sec/cf)									
		0 0 0	75 2.95 10	150 5.91 20	225 8.86 30	300 11.81 40	375 14.76 50	450 17.72 60	525 20.67 70	600 23.62 80	675 26.57 90
T2MM100		0	0.004 0.113	0.018 0.512	0.026 0.728	0.059 1.664	0.110 3.102	0.170 4.726	0.280 7.728	0.480 13.536	1.400 39.690
T2MM150		0	0.004 0.113	0.011 0.313	0.021 0.588	0.042 1.184	0.076 2.143	0.123 3.420	0.210 5.796	0.369 10.406	0.872 24.721
T2MM200		0	0.002 0.057	0.006 0.171	0.013 0.364	0.032 0.902	0.058 1.636	0.095 2.641	0.158 4.361	0.280 7.896	0.684 19.391



T2MX: High Flow Extra Vacuum Type

Characteristics / Medium Vacuum

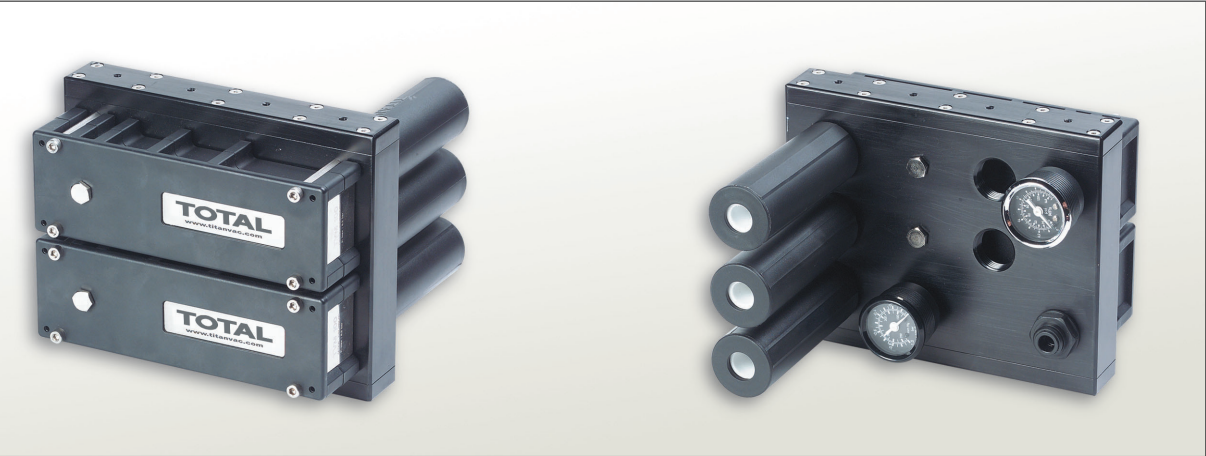
Pump Model	Max. Vacuum (mmHg · G) (-inHg) (-kPa)	Max. Vacuum Flow (N ℓ /min) (scfm)	Air Consumption (N ℓ /min) (scfm)	Noise Level (dBA)	Net Weight (g) (oz)	Pipe Arrangement (Ø)		
						Compressed Air (mm) (inches)	Vacuum (inches)	Exhaust (inches)
T2MX100	725 28.54 96.67	438 15.466	427~536 15.078~18.927	65~68	2,894 102.071	>8 0.32"	G 3/4" x 2	G 3/4" x 3
T2MX150		612 21.610	542~674 19.138~23.799	65~68	3,202 112.935	>8 0.32"	G 3/4" x 2	G 3/4" x 3
T2MX200		880 21.073	688~818 24.294~28.884	65~68	3,202 112.935	>10 0.39"	G 3/4" x 2	G 3/4" x 3

Vacuum flow in (N ℓ /min) (scfm) at different vacuum levels (mmHg · G) (-inHg) (-kPa)

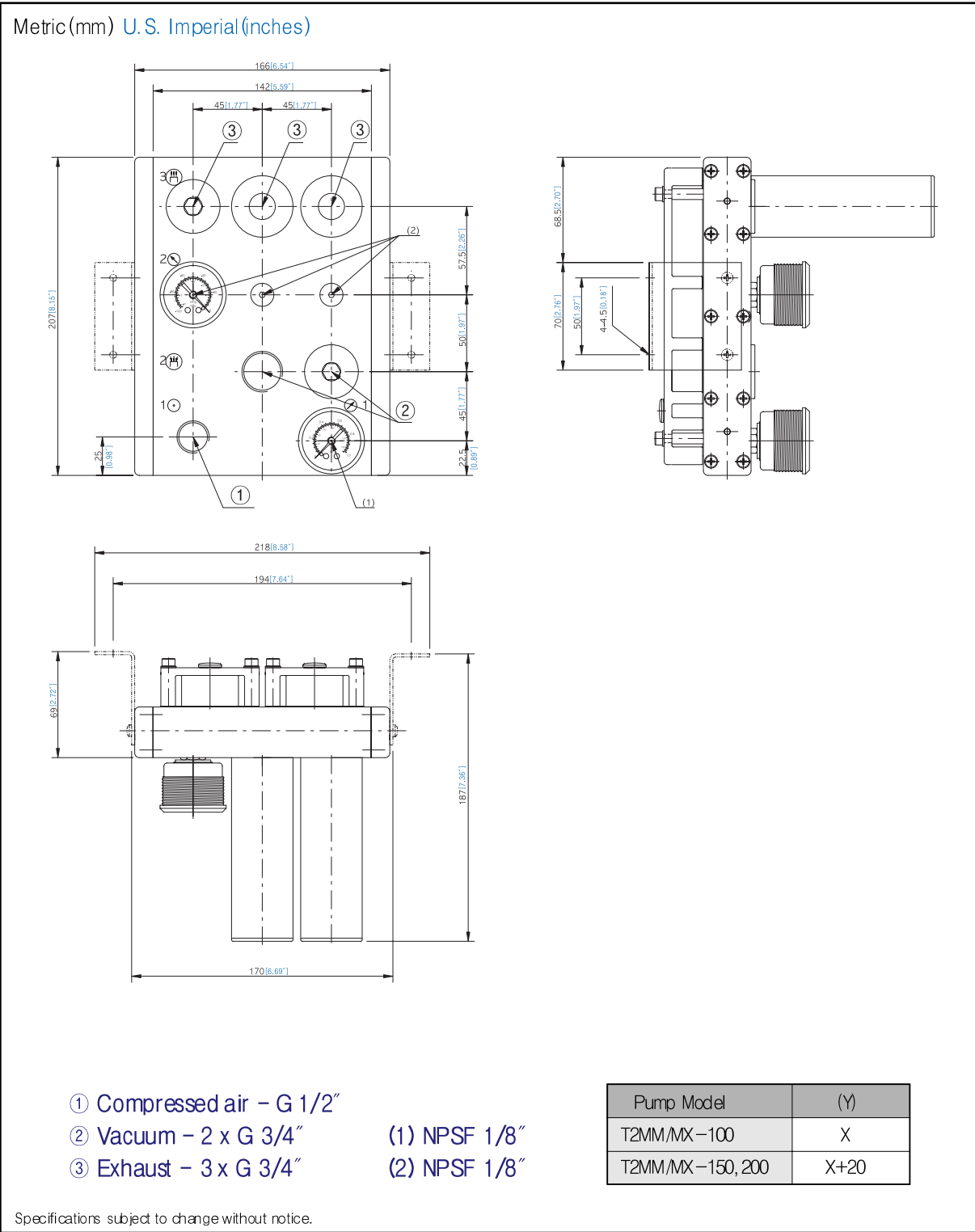
Pump Model	Vacuum Level	Vacuum Flow (Nℓ /min) (scfm)										
		0	75	150	225	300	375	450	525	600	675	712
		0	2.95	5.91	8.86	11.81	14.76	17.72	20.67	23.62	26.57	28.03
		0	10	20	30	40	50	60	70	80	90	95
T2MX100		438 15.466	269 9.499	187 6.603	124 4.379	101 3.566	85 3.001	77 2.719	66.2 2.338	39.2 1.384	26 0.918	5.7 0.201
T2MX150		612 21.610	391 13.806	277 9.781	193 6.815	151 5.332	125 4.414	117 4.131	95.1 3.358	59 2.083	40.5 1.430	8.1 0.286
T2MX200		880 31.073	550 19.421	391 13.806	272 9.605	212 7.486	178 6.285	166 5.862	134 4.732	83 2.931	57 2.013	11.4 0.403

Time to evacuate a volume (sec/ ℓ) (sec/cf) at different vacuum levels (mmHg · G) (-inHg) (-kPa)

Pump Model	Vacuum Level	Evacuation Time (sec/ℓ) (sec/cf)									
		0 0 0	75 2.95 10	150 5.91 20	225 8.86 30	300 11.81 40	375 14.76 50	450 17.72 60	525 20.67 70	600 23.62 80	675 26.57 90
T2MX100	0	0.012 0.340	0.038 1.081	0.068 1.904	0.168 4.738	0.198 5.584	0.238 6.616	0.372 10.267	0.550 15.510	0.880 24.948	1.080 30.240
T2MX150	0	0.009 0.255	0.027 0.7682	0.051 1.428	0.090 2.538	0.108 3.046	0.164 4.559	0.244 6.734	0.360 10.152	0.650 18.428	0.740 20.720
T2MX200	0	0.006 0.170	0.0192 0.5462	0.038 1.064	0.040 1.128	0.088 2.482	0.120 3.336	0.192 5.299	0.290 8.178	0.480 13.698	0.580 16.240



T2MM/MX(Dimension)



11) T2HX: High Flow High Vacuum Type

Air-driven vacuum pump with HX type of multi-stage nozzle, put together on the large size of duplex base chamber to satisfy both of -100.8 kPa of vacuum level and max. 756 mmHg.G of high vacuum flow.

► Use of Application – semiconductor manufacturing facility, rotary vacuum pump prohibition area, laboratory leakage tester, clean system facility, high vacuum 1st degassing works, etc.



T2HX Type

Performance and Specifications Outline

Max. Vacuum Level	Max. 756.19 (mmHg.G) Max. -100.8 (kPa) Max. -29.77(inHg)
Max. Vacuum Flow	Max. 2,023 (ℓ /min) Max. 71.434 (scfm)
Supply Air Condition	Compressed Air
Compressed Air Pressure	5.6~7.2 bar 81.22~104.43 psi
Working Temperature	-20℃~+80℃ -4°F~+176°F
Noise Level	65~75 dBA

T2HX: High Flow High Vacuum Type

Characteristics / High Vacuum

Pump Model	Max. Vacuum (mmHg · G) (-inHg) (-kPa)	Max. Vacuum Flow (N ℓ /min) (scfm)	Air Consumption (N ℓ /min) (scfm)	Noise Level (dB A)	Net Weight (g) (oz)	Pipe Arrangement (Ø)		
						Compressed Air (mm) (inches)	Vacuum (inches)	Exhaust (inches)
T2HX240	756 29.76 100.8	1,028 36.299	908 32.062	58~66	2,902 102.354	>10 0.39"	G 3/4" x 2	G 3/4" x 2
T2HX320		1,512 53.390	1,440 50.847	58~70	3,210 113.217	>12 0.47"	G 1 1/2" x 2	G 1 1/2" x 2
T2HX480		2,023 71.434	1,890 66.737	60~72	3,820 134.731	>10 1/2"	G 1 1/2" x 2	G 1 1/2" x 2

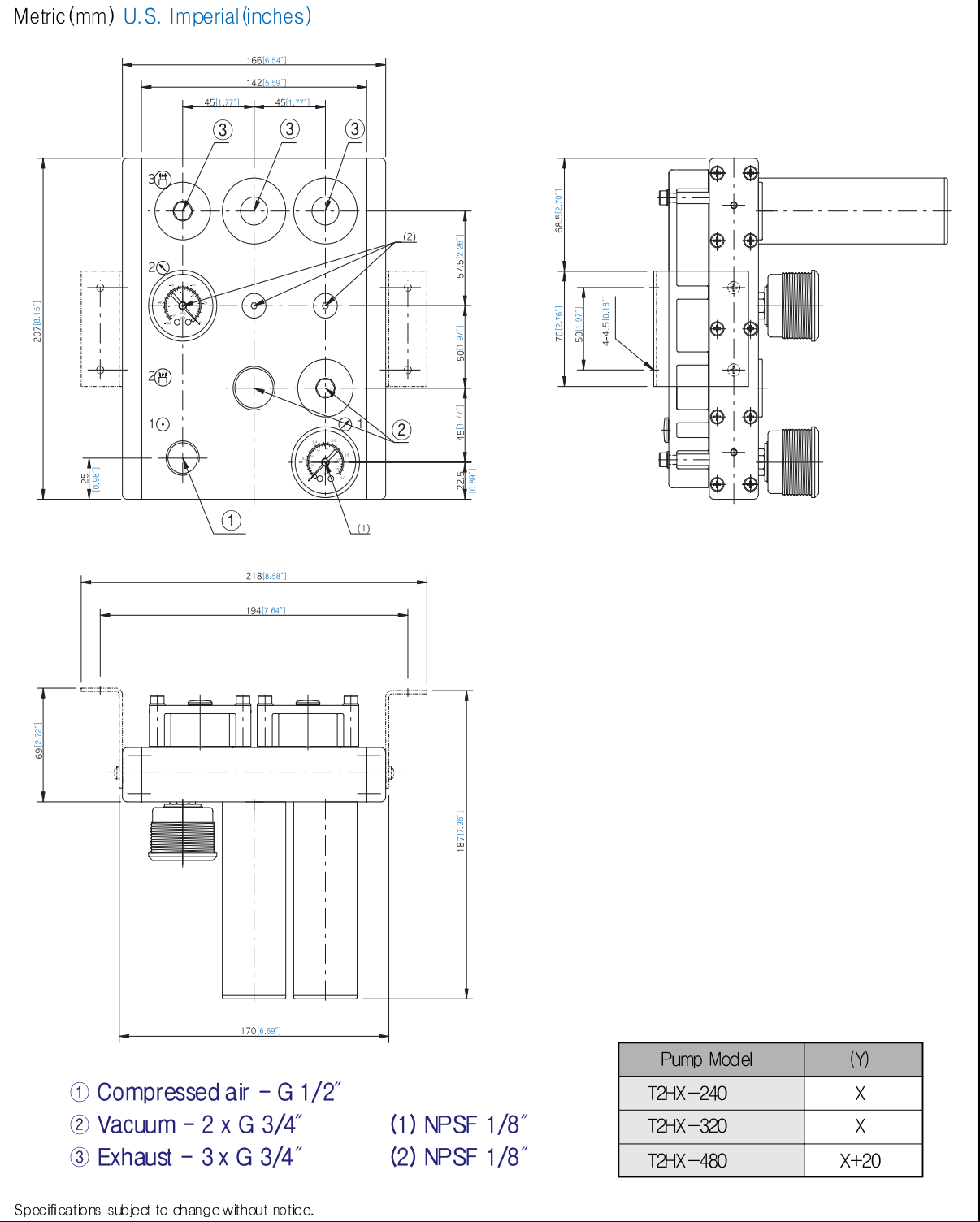
Vacuum flow in (N ℓ /min) (scfm) at different vacuum levels (mmHg · G) (-inHg) (-kPa)

Pump Model	Vacuum Level	Vacuum Flow (N ℓ /min) (scfm)											
		0 0 0	75 2.95 10	150 5.91 20	225 8.86 30	300 11.81 40	375 14.76 50	450 17.72 60	525 20.67 70	600 23.62 80	675 26.57 90	712.5 28.05 95	746.2 29.38 99.5
T2HX240		1,028 36.299	775 27.366	553 19.527	319 11.264	190 6.709	153 5.403	119 4.202	82 2.895	56.3 1.988	14.8 0.523	2.7 0.095	1.2 0.042
T2HX320		1,512 53.390	1,147 40.501	818 28.884	473 16.702	282 9.958	226 7.980	174 6.144	121 4.273	83.4 2.945	21.8 0.770	3.88 0.137	2.1 0.074
T2HX480		2,023 71.434	1,537 54.273	1,099 38.806	624 22.034	299 10.558	254 8.969	211 7.451	139 4.908	101 3.566	28 0.989	5.7 0.201	3.6 0.127

Time to evacuate a volume (sec/ℓ) (sec/cf) at different vacuum levels (mmHg · G) (-inHg) (-kPa)

Pump Model	Vacuum Level	Evacuation Time (sec/ℓ) (sec/cf)											
		0 0 0	75 2.95 10	150 5.91 20	225 8.86 30	300 11.81 40	375 14.76 50	450 17.72 60	525 20.67 70	600 23.62 80	675 26.57 90	712.5 28.05 95	746.2 29.38 99.5
T2HX240		0	0.007 0.198	0.016 0.455	0.032 0.896	0.068 1.918	0.140 3.948	0.180 5.004	0.290 8.004	0.380 10.716	0.680 19.278	1.120 31.360	2.420 68.486
T2HX320		0	0.005 0.142	0.013 0.370	0.026 0.728	0.043 1.213	0.089 2.510	0.105 2.919	0.230 6.348	0.290 8.178	0.500 14.175	0.840 23.520	1.780 50.374
T2HX480		0	0.004 0.113	0.009 0.256	0.020 0.560	0.038 1.072	0.060 1.692	0.080 2.224	0.140 3.864	0.190 5.358	0.390 11.057	0.580 16.240	1.240 35.092

T2HX



12) T2ML-D1/D2 (U): Low Vacuum Unification Type

Air-driven vacuum pump with ML type of multi-stage nozzle, put together on the large integrated aluminum connection plate to realize a large size of vacuum pump of low vacuum & high flow. This product has a large size of vacuum and exhaust port (G 1 1/2" ~ G 2") and high momentary speed of suction, therefore, this is suitable for vacuum conveyor or vacuum holding use. If you apply this product to the system to be designed in the field of vacuum conveying or holding, you can get maximum efficiency. Also Energy Saving Kit can be equipped.

► Use of Application – vacuum conveyor, vacuum lifting device, vacuum holding, vacuum filling, vacuum bearing, etc.



Performance and Specification Outline

T2ML Series	T2ML-D1	T2ML-D2
Max. Vacuum Level	Max. 562.64 (mmHg) Max. -22.15 (inHg) Max. -75 (kPa)	Max. 562.64 (mmHg) Max. -22.15 (inHg) Max. -75 (kPa)
Max. Vacuum Flow	Max. 3,910 (ℓ/min) Max. 138.065 (scfm)	Max. 11,800 (ℓ/min) Max. 416.667 (scfm)
Supply Air Condition	Compressed Air	Compressed Air
Supply Air Pressure	3.33~5.49 (bar) 3.4~5.6 (kg.f/cm ²) 48.36~79.65 (psi)	3.33~5.49 (bar) 3.4~5.6 (kg.f/cm ²) 48.36~79.65 (psi)
Working Temperature	-20℃~+80℃ -4°F~+176°F	-20℃~+80℃ -4°F~+176°F
Noise Level	65~70 dBA	65~70 dBA

Ordering information

①	②	③	④	⑤
T2ML	D1	100	E.S	N
		⋮		
T2ML	D2	800	E.S	N

① Basic Model

T2ML : Low vacuum (-75 kpa) – medium & large integrated

② Pumps Arrangement

- D1 : 1 (one) column multi array (100, 150, 200, 300)
- D2 : 2 (two) column multi array (100, 150, 200, 300, 400, 600, 800)

③ Pump's Size: classified by max. vacuum flow

100	Max. 1,288 (N ℓ/min)	Max. 45.480 (scfm)
150	Max. 1,920 (N ℓ/min)	Max. 67.797 (scfm)
200	Max. 2,650 (N ℓ/min)	Max. 93.573 (scfm)
300	Max. 3,910 (N ℓ/min)	Max. 138.065 (scfm)
400	Max. 5,360 (N ℓ/min)	Max. 189.266 (scfm)
600	Max. 7,944 (N ℓ/min)	Max. 280.508 (scfm)
800	Max. 11,800 (N ℓ/min)	Max. 416.667 (scfm)

④ Energy Saving Kit

- None : Not equipped with Energy Saving Kit
- E.S : To save air consumption, it is combined with vacuum valve , vacuum switch, and pneumatic valve (about 38 % of air consumption's saving effect)

⑤ Material of Check V/V & Seal Kit's

-None : the same with "N"

N	Nitrile	Hexane, petrol, Me Hanel Resistible	For details, pls. refer to Chemical Resistance Data (on page 204)
V	Viton	C ₄ H ₁₀ , Xylene, C ₆ H ₆ Resistible	
E	EPDM	C ₃ . Ammonia, Ethane Resistible	

T2ML-D1: High Flow Low Vacuum Level Type

Characteristics / Low Vacuum

Pump Model	Max. Vacuum (mmHg · G) (-inHg) (-kPa)	Max. Vacuum Flow (N ℓ /min) (scfm)	Air Consumption (N ℓ /min) (scfm)	Noise Level (dB A)	Net Weight (g) (oz)	Pipe Arrangement (Ø)		
						Air In-put (inches)	Vacuum (inches)	Exhaust (inches)
T2ML-D1-100	562.5 22.15 75	1,288 45.480	360~425 12.712~15.007	68	3,000 105.81	G 1/2"	G 1 1/2"	G 1 1/2"
T2ML-D1-150	562.5 22.15 75	1,920 67.797	536~630 18.927~22.246	68	3,600 126.972	G 1/2"	G 1 1/2"	G 1 1/2"
T2ML-D1-200	562.5 22.15 75	2,650 93.573	720~848 25.424~29.944	70	4,200 148.134	G 1/2"	G 1 1/2"	G 1 1/2"
T2ML-D1-300	562.5 22.15 75	3,910 138.065	1,100~1,298 38.842~45.833	70	5,300 186.931	G 1/2"	G 1 1/2"	G 1 1/2"

Vacuum flow in (N ℓ /min) (scfm) at different vacuum levels (mmHg · G) (-inHg) (-kPa)

Pump Model	Vacuum Flow (N ℓ /min) (scfm)								
	0 0 0	75 2.95 10	150 5.91 20	225 8.86 30	300 11.81 40	375 14.76 50	450 17.72 60	525 20.67 70	562.64 22.15 75
T2ML-D1-100	1,288 45.480	1,082 38.206	764 26.977	371 13.100	194 6.850	143 5.049	95 3.355	54 1.907	23 0.812
T2ML-D1-150	1,920 67.797	1,550 54.732	1,118 39.477	519 18.326	273 9.640	206 7.274	142 5.014	77 2.719	33 1.165
T2ML-D1-200	2,650 93.573	1,812 63.983	1,248 44.068	628 22.175	314 11.088	260 9.181	171 6.038	99 3.496	47 1.660
T2ML-D1-300	3,910 138.065	2,270 80.155	1,721 60.770	788 27.825	509 17.973	399 14.089	328 11.582	152 5.367	69 2.436

T2ML-D2: High Flow Low Vacuum Level Type

Characteristics / Low Vacuum

Pump Model	Max. Vacuum (mmHg · G) (-inHg) (-kPa)	Max. Vacuum Flow (N ℓ /min) (scfm)	Air Consumption (N ℓ /min) (scfm)	Noise Level (dB A)	Net Weight (g) (oz)	Pipe Arrangement (Ø)		
						Air In-put (mm) (inches)	Vacuum (inches)	Exhaust (inches)
T2ML-D2-100	562.5 22.15 75	1,288 45.480	360~425 12.712~15.007	68	3,100 109.337	G 1/2"	G 1 1/2"	G 1 1/2"
T2ML-D2-150	562.5 22.15 75	1,920 67.797	536~630 18.927~22.246	68	3,600 126.972	G 1/2"	G 1 1/2"	G 1 1/2"
T2ML-D2-200	562.5 22.15 75	2,650 93.573	720~848 25.424~29.944	70	4,200 148.134	G 1/2"	G 1 1/2"	G 1 1/2"
T2ML-D2-300	562.5 22.15 75	3,910 138.065	1,100~1,298 38.842~45.833	70	5,300 186.931	G 1/2"	G 1 1/2"	G 1 1/2"
T2ML-D2-400	562.5 22.15 75	5,360 189.266	1,500~1,770 52.966~62.500	72	6,400 225.728	G 1/2"	G 1 1/2"	G 1 1/2"
T2ML-D2-600	562.5 22.15 75	7,944 280.508	2,200~2,620 77.684~92.514	72	8,600 303.322	G 3/4"	G 2"	G 2"
T2ML-D2-800	562.5 22.15 75	11,800 416.667	3,310~3,890 116.879~137.359	74	10,800 380.916	G 3/4"	G 2"	G 2"

Vacuum flow in (N ℓ /min) (scfm) at different vacuum levels (mmHg · G) (-inHg) (-kPa)

Pump Model	Vacuum Flow (N ℓ /min) (scfm)								
	0 0 0	75 2.95 10	150 5.91 20	225 8.86 30	300 11.81 40	375 14.76 50	450 17.72 60	525 20.67 70	562.64 22.15 75
T2ML-D2-100	1,288 45.480	1,082 38.206	764 26.977	371 13.100	194 6.850	143 5.049	95 3.355	54 1.907	23 0.812
T2ML-D2-150	1,920 67.797	1,550 54.732	1,118 39.477	519 18.326	273 9.640	206 7.274	142 5.014	77 2.719	33 1.165
T2ML-D2-200	2,650 93.573	1,812 63.983	1,248 44.068	628 22.175	314 11.088	260 9.181	171 6.038	99 3.496	47 1.660
T2ML-D2-300	3,910 138.065	2,270 80.155	1,721 60.770	788 27.825	509 17.973	399 14.089	328 11.582	152 5.367	69 2.436
T2ML-D2-400	5,360 189.266	3,700 130.660	2,484 87.712	1,278 45.127	628 22.175	477 16.843	318 11.229	174 6.144	85 3.001
T2ML-D2-600	7,944 280.508	5,114 180.579	3,790 133.828	1,738 61.370	987 34.852	856 30.226	419 14.795	247 8.722	104 3.672
T2ML-D2-800	11,800 416.667	7,340 259.181	4,960 175.141	2,570 90.749	1,148 40.537	929 32.804	619 21.857	334 11.794	157 5.544

Time to evacuate a volume (sec/ℓ) (sec/cf) at different vacuum levels (mmHg · G) (-inHg) (-kPa)

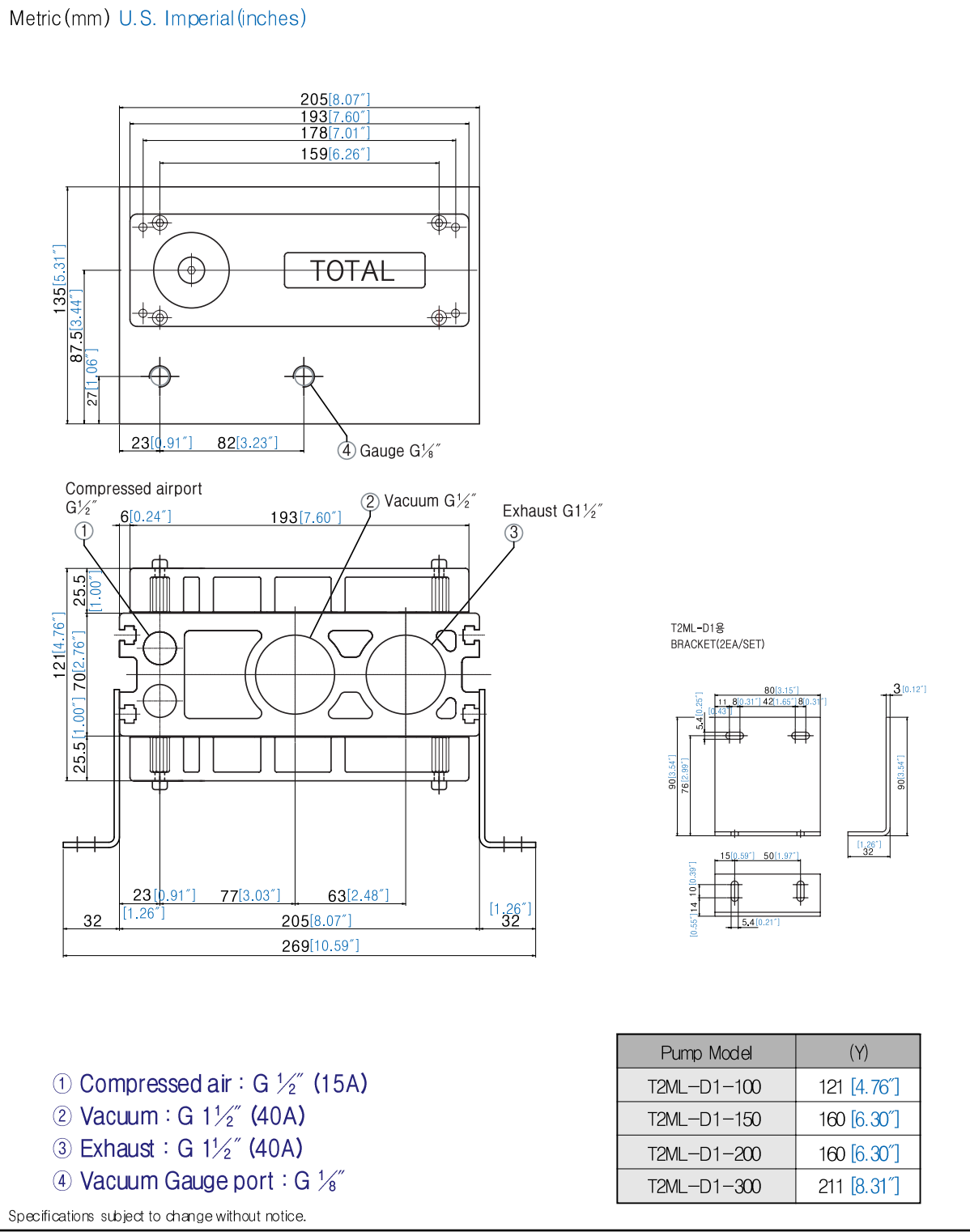
Pump Model	Vacuum Level	Evacuation Time (sec/ℓ) (sec/cf)							
		0	75	150	225	300	375	450	525
		0	2.95	5.91	8.86	11.81	14.76	17.72	20.67
		0	10	20	30	40	50	60	70
		0	0.007	0.016	0.032	0.060	0.100	0.150	0.200
			0.198	0.455	0.896	1.692	2.820	4.170	5.520
T2ML-D1-100	0	0	0.005	0.013	0.024	0.050	0.080	0.110	0.170
T2ML-D1-150	0	0	0.142	0.370	0.672	1.440	2.256	3.058	4.692
T2ML-D1-200	0	0	0.004	0.009	0.010	0.040	0.060	0.070	0.130
T2ML-D1-200	0	0	0.113	0.256	0.280	1.128	1.692	1.946	3.588
T2ML-D1-300	0	0	0.003	0.008	0.016	0.025	0.030	0.065	0.090
T2ML-D1-300	0	0	0.085	0.228	0.448	0.705	0.846	1.807	2.484

Time to evacuate a volume (sec/ℓ) (sec/cf) at different vacuum levels (mmHg · G) (-inHg) (-kPa)

Pump Model	Vacuum Level	Evacuation Time (sec/ℓ) (sec/cf)							
		0	75	150	225	300	375	450	525
		0	2.95	5.91	8.86	11.81	14.76	17.72	20.67
		0	10	20	30	40	50	60	70
		0	0.006	0.010	0.028	0.050	0.090	0.140	0.190
			0.170	0.285	0.784	1.410	2.538	3.892	5.244
T2ML-D2-100	0	0	0.005	0.013	0.024	0.045	0.070	0.100	0.160
T2ML-D2-150	0	0	0.142	0.370	0.672	1.269	1.974	2.780	4.416
T2ML-D2-200	0	0	0.004	0.009	0.018	0.040	0.060	0.080	0.120
T2ML-D2-200	0	0	0.113	0.256	0.504	1.128	1.692	2.224	3.312
T2ML-D2-300	0	0	0.003	0.008	0.014	0.020	0.030	0.060	0.080
T2ML-D2-300	0	0	0.085	0.228	0.392	0.564	0.846	1.668	2.208
T2ML-D2-400	0	0	0.002	0.004	0.007	0.014	0.030	0.050	0.073
T2ML-D2-400	0	0	0.057	0.114	0.196	0.395	0.846	1.390	2.015
T2ML-D2-600	0	0	0.002	0.003	0.005	0.011	0.022	0.038	0.059
T2ML-D2-600	0	0	0.057	0.085	0.140	0.310	0.620	1.056	1.628
T2ML-D2-800	0	0	0.001	0.002	0.004	0.008	0.014	0.025	0.040
T2ML-D2-800	0	0	0.028	0.057	0.112	0.226	0.395	0.695	1.104

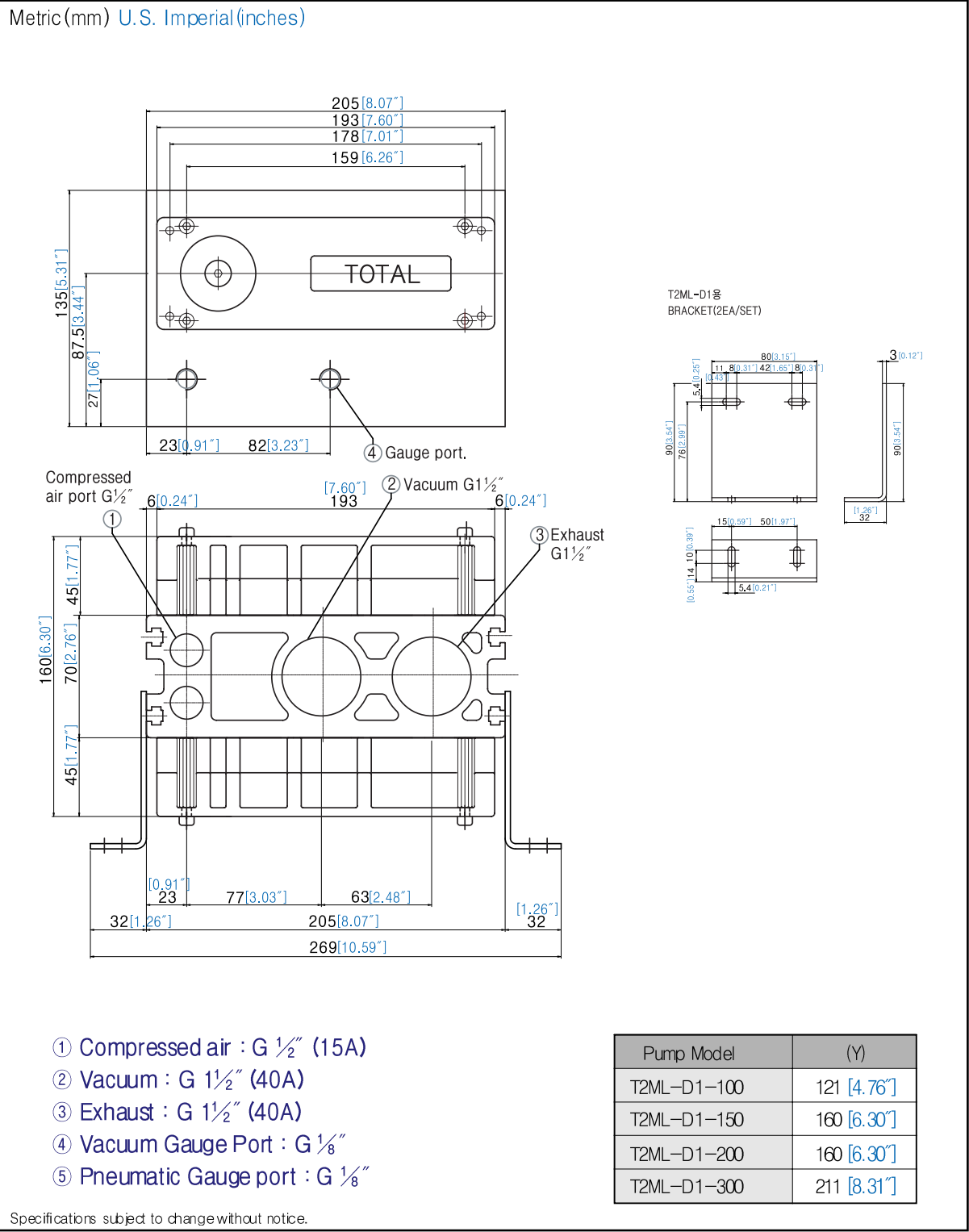
T2ML-D1-100

Dimension



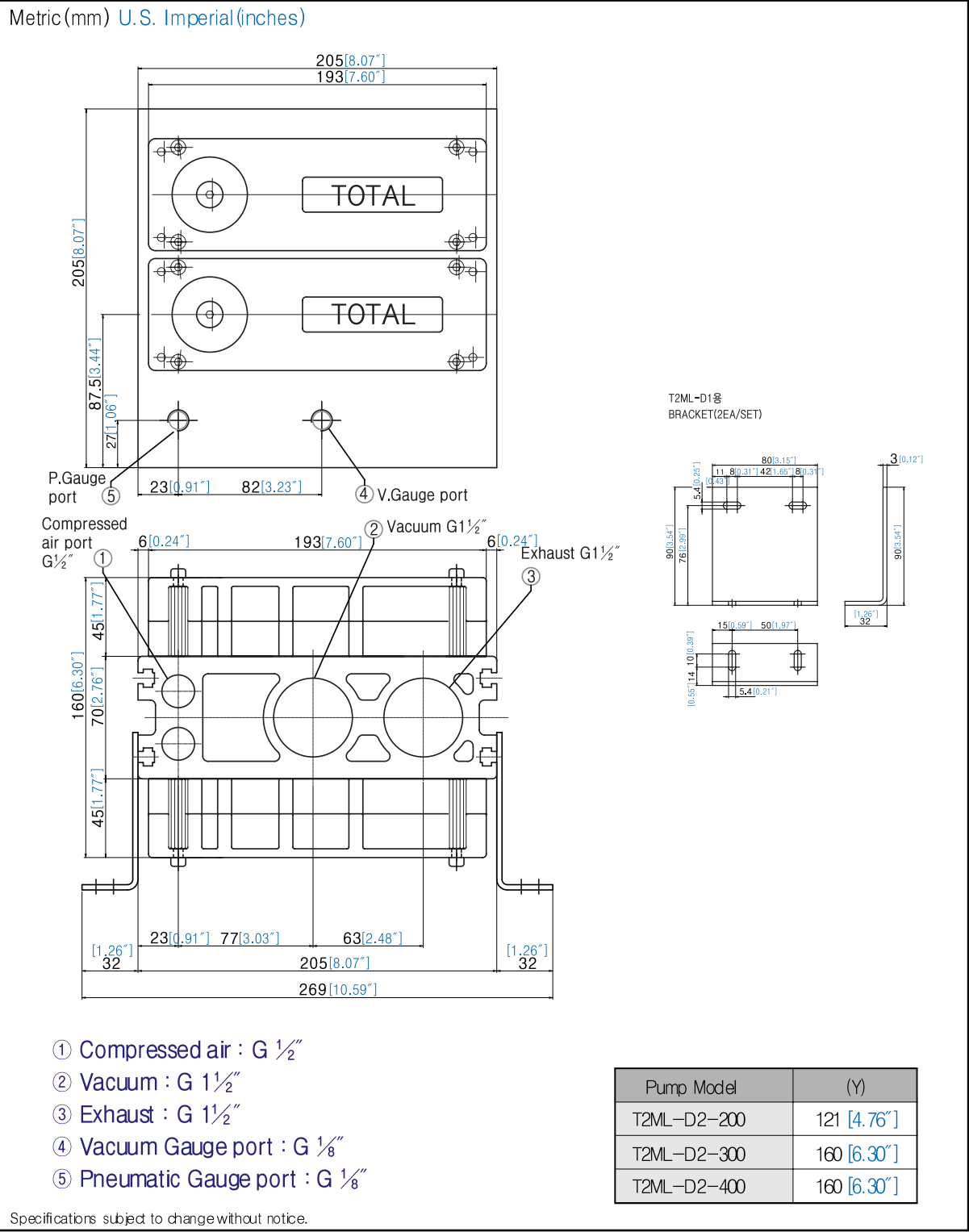
T2ML-D1-200

Dimension



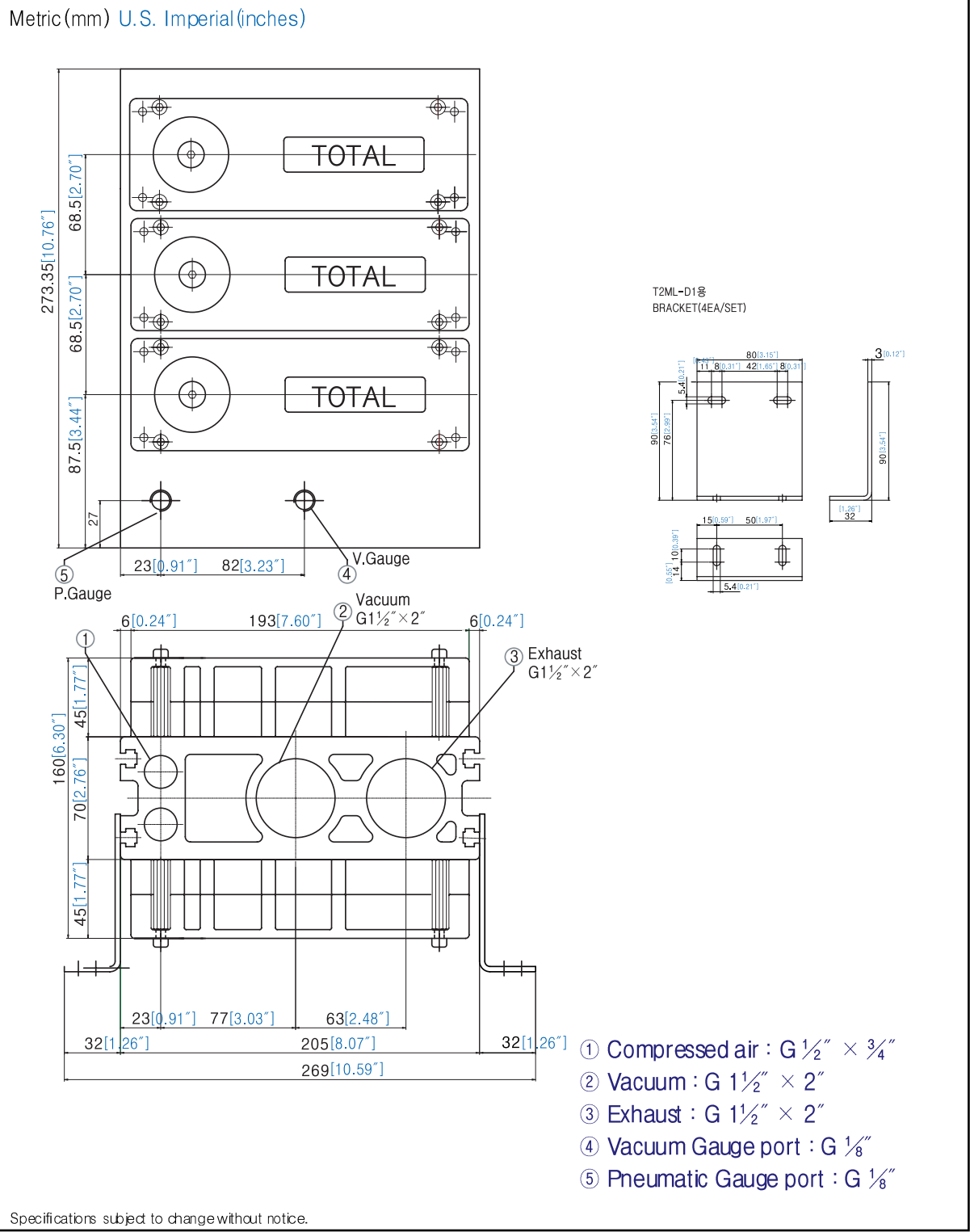
T2ML-D2-400

Dimension



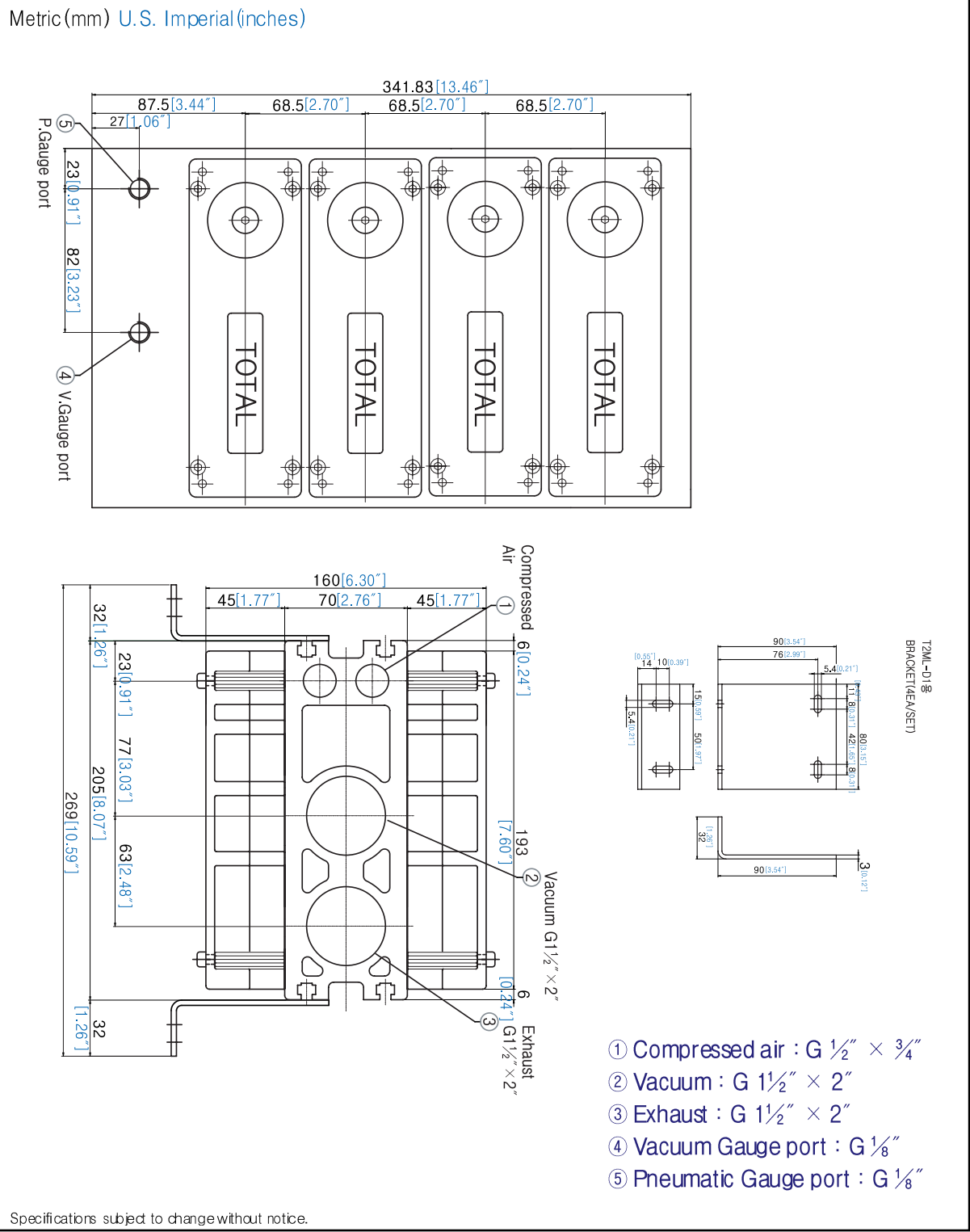
T2ML-D2-600

Dimension



T2ML-D2-800

Dimension



13) T2MM-D1/D2 (U): Normal Medium Vacuum Unification Type

Air-driven vacuum pump with MM type of multi-stage nozzle, put together on the large of integrated aluminum connection plate to realize various vacuum flows from the medium size of vacuum pump to the large size of vacuum pump. For having the large size of vacuum and exhaust port (G 1 1/2"), this product can replace the large size of electric motor driven vacuum pumps and can also be equipped with Energy Saving Kit to save air consumption. With various vacuum & pressure switches, this enables you to design various vacuum automation system with PLC and RELAY.



Performance and Specification Outline

T2MM Series	T2MM-D1	T2MM-D2
Max. Vacuum Level	Max. 682.67 (mmHgG) Max. -26.88 (inHg) Max. -91 (kPa)	Max. 682.67 (mmHgG) Max. -26.88 (inHg) Max. -91 (kPa)
Max. Vacuum Flow	Max. 3,680 (N ℓ /min) Max. 129.944 (scfm)	Max. 10,600 (N ℓ /min) Max. 374.294 (scfm)
Supply Air Condition	Compressed Air	Compressed Air
Supply Air Pressure	3.33~5.69 (bar) 3.4~5.8 (kg.f/cm²) 48.36~82.50 (psi)	3.33~5.69 (bar) 3.4~5.8 (kg.f/cm²) 48.36~82.50 (psi)
Working Temperature	-20℃~+80℃ -4°F~+176°F	-20℃~+80℃ -4°F~+176°F
Noise Level	67~72 dBA	67~72 dBA

Ordering information

①	②	③	④	⑤
T2MM	D1	100	E.S	N
		⋮		
T2MM	D2	800	E.S	N

① Basic Model

T2MM: Medium vacuum (-91 kpa) – medium & large integrated

② Pumps Arrangement

- D1: 1 (one) column multi array (100, 150, 200, 300)
- D2: 2 (two) column multi array (100, 150, 200, 300, 400, 600, 800)

③ Pump's Size: classified by max. vacuum flow

100	Max. 1,240 (N ℓ /min)	Max. 43.785 (scfm)
150	Max. 1,800 (N ℓ /min)	Max. 63.559 (scfm)
200	Max. 2,490 (N ℓ /min)	Max. 87.924 (scfm)
300	Max. 3,680 (N ℓ /min)	Max. 129.944 (scfm)
400	Max. 5,180 (N ℓ /min)	Max. 182.910 (scfm)
600	Max. 7,800 (N ℓ /min)	Max. 275.424 (scfm)
800	Max. 10,600 (N ℓ /min)	Max. 374.294 (scfm)

cf. This is based on vacuum flow possible producing 500, 700

④ Energy Saving Kit

- None: Not equipped with Energy Saving Kit
- E.S: To save air consumption, it is combined with vacuum valve, vacuum switch, and pneumatic valve (about 38 % of air consumption's saving effect)

⑤ Material of Check V/V, Seal Kit's

-None: the same with "N"

N	Nitrile	Hexane, petrol, Me Hanel Resistible	For details, pls. refer to Chemical Resistance Data (on page 204)
V	Viton	C ₄ H ₁₀ , Xylene, C ₆ H ₆ Resistible	
E	EPDM	O ₃ . Ammonia, Ethane Resistible	

T2MM-D1: Normal Medium Vacuum Unification Type

Characteristics / Medium Vacuum

Pump Model	Max. Vacuum (mmHg · G) (-inHg) (-kPa)	Max. Vacuum Flow (N ℓ /min) (scfm)	Air Consumption (N ℓ /min) (scfm)	Noise Level (dBA)	Net Weight (g) (oz)	Pipe Arrangement (Ø)		
						Compressed Air (inches)	Vacuum (inches)	Exhaust (inches)
T2MM-D1-100	682.5 26.87 91.00	1,240 43.785	290~413 10.240~14.583	68	3,100 109.337	G 1/2"	G 1 1/2"	G 1 1/2"
T2MM-D1-150		1,800 63.559	458~610 16.172~21.540	68	3,600 126.972	G 1/2"	G 1 1/2"	G 1 1/2"
T2MM-D1-200		2,490 87.924	620~828 21.888~29.237	70	4,200 148.134	G 1/2"	G 1 1/2"	G 1 1/2"
T2MM-D1-300		3,680 129.944	916~1,224 32.345~43.220	71	5,300 186.931	G 1/2"	G 1 1/2"	G 1 1/2"
T2MM-D1-400		5,180 182.910	1,280~1,710 45.198~60.381	72	6,400 225.728	G 1/2"	G 1 1/2"	G 1 1/2"

T2MM-D2: Normal Medium Vacuum Unification Type

Characteristics / Medium Vacuum

Pump Model	Max. Vacuum (mmHg · G) (-inHg) (-kPa)	Max. Vacuum Flow (N ℓ /min) (scfm)	Air Consumption (N ℓ /min) (scfm)	Noise Level (dBA)	Net Weight (g) (oz)	Pipe Arrangement (Ø)		
						Compressed Air (inches)	Vacuum (inches)	Exhaust (inches)
T2MM-D2-100	682.5 26.87 91.00	1,240 43.785	290~413 10.240~14.583	68	3,100 109.337	G 1/2"	G 1 1/2"	G 1 1/2"
T2MM-D2-150		1,800 63.559	458~610 16.172~21.540	68	3,600 126.972	G 1/2"	G 1 1/2"	G 1 1/2"
T2MM-D2-200		2,490 87.924	620~828 21.888~29.237	70	4,200 148.134	G 1/2"	G 1 1/2"	G 1 1/2"
T2MM-D2-300		3,680 129.944	916~1,224 32.345~43.220	71	5,300 186.931	G 1/2"	G 1 1/2"	G 1 1/2"
T2MM-D2-400		5,180 182.910	1,280~1,710 45.198~60.381	72	6,400 225.728	G 1/2"	G 1 1/2"	G 1 1/2"
T2MM-D2-600		7,800 275.424	1,816~2,580 64.124~91.102	74	8,600 303.322	G 1/2" x G3/4"	G 1/2" x G2"	G 1 1/2" x G2"
T2MM-D2-800		10,600 374.294	2,610~3,500 92.161~123.588	74	10,800 380.916	G 1/2" x G3/4"	G 1/2" x G2"	G 1 1/2" x G2"

Vacuum flow in (N ℓ /min) (scfm) at different vacuum levels (mmHg · G) (-inHg) (-kPa)

Pump Model	Vacuum Flow (N ℓ /min) (scfm)									
	0 0 0	75 2.95 10	150 5.91 20	225 8.86 30	300 11.81 40	375 14.76 50	450 17.72 60	525 20.67 70	600 23.62 80	675 26.57 90
T2MM-D1-100	1,240 43.785	1,082 38.206	764 26.977	370 13.065	193 6.815	140 4.944	95 3.355	54 1.907	23 0.812	3.3 0.117
T2MM-D1-150	1,800 63.559	1,496 52.825	1,120 39.548	515 18.185	272 9.605	206 7.274	140 4.944	75 2.648	30 1.059	4.5 0.159
T2MM-D1-200	2,490 87.924	1,810 63.912	1,238 43.715	630 22.246	322 11.370	266 9.393	165 5.826	96 3.390	44 1.554	6.3 0.222
T2MM-D1-300	3,680 129.944	2,140 75.565	1,680 59.322	780 27.542	510 18.008	387 13.665	295 10.417	142 5.014	52 1.836	9.8 0.346
T2MM-D1-400	5,180 182.910	3,555 125.530	2,390 84.393	1,188 41.949	634 22.387	466 16.455	318 11.229	179 6.321	75 2.648	14.2 0.501

Vacuum flow in (N ℓ /min) (scfm) at different vacuum levels (mmHg · G) (-inHg) (-kPa)

Pump Model	Vacuum Flow (N ℓ /min) (scfm)									
	0 0 0	75 2.95 10	150 5.91 20	225 8.86 30	300 11.81 40	375 14.76 50	450 17.72 60	525 20.67 70	600 23.62 80	675 26.57 90
T2MM-D2-100	1,240 43.785	1,082 38.206	764 26.977	370 13.065	193 6.815	140 4.944	95 3.355	54 1.907	23 0.812	3.3 0.117
T2MM-D2-150	1,800 63.559	1,496 52.825	1,120 39.548	515 18.185	272 9.605	206 7.274	140 4.944	75 2.648	30 1.059	4.5 0.159
T2MM-D2-200	2,490 87.924	1,810 63.912	1,238 43.715	630 22.246	322 11.370	266 9.393	165 5.826	96 3.390	44 1.554	6.3 0.222
T2MM-D2-300	3,680 129.944	2,140 75.565	1,680 59.322	780 27.542	510 18.008	387 13.665	295 10.417	142 5.014	52 1.836	9.8 0.346
T2MM-D2-400	5,180 182.910	3,555 125.530	2,390 84.393	1,188 41.949	634 22.387	466 16.455	318 11.229	179 6.321	75 2.648	14.2 0.501
T2MM-D2-600	7,800 275.424	5,400 190.678	3,592 126.836	1,844 65.113	947 33.439	683 24.117	457 16.137	254 8.969	116 4.096	20.5 0.724
T2MM-D2-800	10,600 374.294	7,410 261.653	4,780 168.785	2,515 88.806	1,282 45.268	912 32.203	608 21.469	328 11.582	159 5.614	26.4 0.932

T2MM-D1

Time to evacuate a volume (sec/ℓ) (sec/cf) at different vacuum levels (mmHg · G) (-inHg) (-kPa)

Pump Model	Vacuum Level	Evacuation Time (sec/ℓ) (sec/cf)									
		0	75	150	225	300	375	450	525	600	675
		0	2.95	5.91	8.86	11.81	14.76	17.72	20.67	23.62	26.57
		0	10	20	30	40	50	60	70	80	90
T2MM-D1-100	0	0.008	0.018	0.032	0.060	0.090	0.160	0.190	0.490	0.990	
		0.226	0.512	0.896	1.692	2.538	4.448	5.244	13.818	28.067	
T2MM-D1-150	0	0.005	0.013	0.017	0.042	0.074	0.124	0.208	0.370	0.868	
		0.142	0.370	0.476	1.184	2.087	3.447	5.741	10.434	24.608	
T2MM-D1-200	0	0.004	0.011	0.021	0.032	0.060	0.094	0.159	0.281	0.679	
		0.113	0.313	0.588	0.902	1.692	2.613	4.388	7.924	19.250	
T2MM-D1-300	0	0.003	0.008	0.016	0.027	0.040	0.066	0.090	0.180	0.340	
		0.085	0.228	0.448	0.761	1.128	1.835	2.484	5.076	9.639	
T2MM-D1-400	0	0.002	0.006	0.009	0.018	0.031	0.048	0.080	0.090	0.280	
		0.057	0.171	0.252	0.508	0.874	1.334	2.208	2.538	7.938	

T2MM-D2

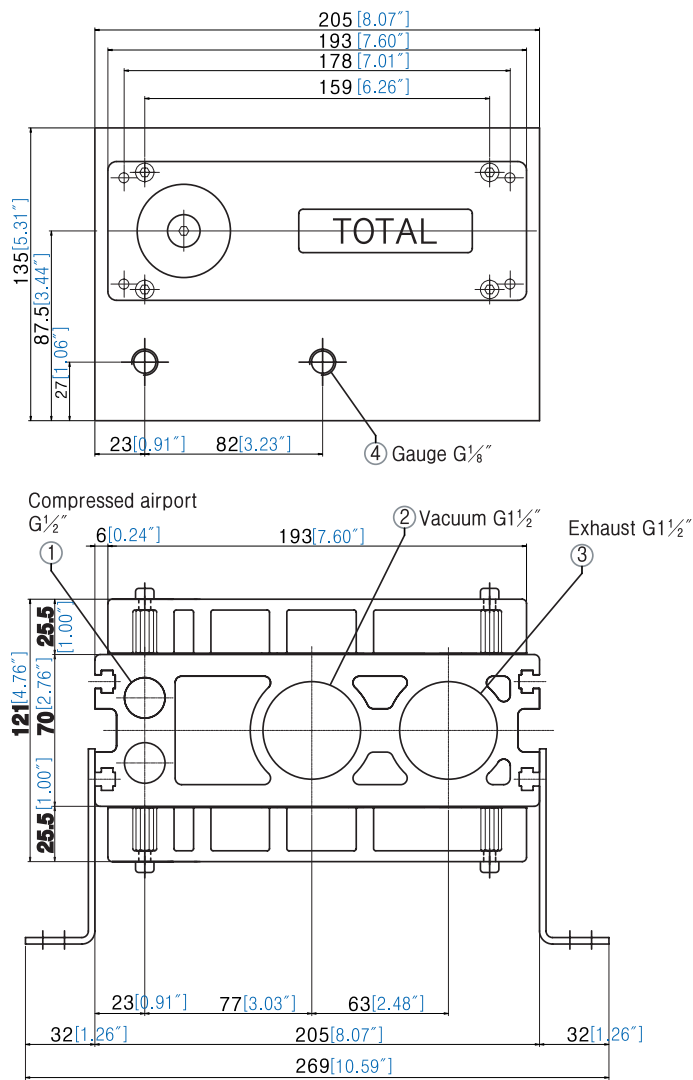
Time to evacuate a volume (sec/ℓ) (sec/cf) at different vacuum levels (mmHg · G) (-inHg) (-kPa)

Pump Model	Vacuum Level	Evacuation Time (sec/ℓ) (sec/cf)									
		0	75	150	225	300	375	450	525	600	675
		0	2.95	5.91	8.86	11.81	14.76	17.72	20.67	23.62	26.57
		0	10	20	30	40	50	60	70	80	90
T2MM-D2-100	0	0.007	0.018	0.030	0.060	0.090	0.165	0.190	0.490	0.990	
		0.198	0.512	0.840	1.692	2.538	4.587	5.244	13.818	28.067	
T2MM-D2-150	0	0.005	0.013	0.017	0.042	0.074	0.124	0.206	0.368	0.854	
		0.142	0.370	0.476	1.184	2.087	3.447	5.686	10.378	24.211	
T2MM-D2-200	0	0.002	0.006	0.012	0.031	0.058	0.094	0.153	0.280	0.780	
		0.057	0.171	0.336	0.874	1.636	2.613	4.223	7.896	22.113	
T2MM-D2-300	0	0.002	0.005	0.016	0.025	0.039	0.065	0.086	0.140	0.740	
		0.056	0.142	0.448	0.705	1.100	1.807	2.374	3.948	20.979	
T2MM-D2-400	0	0.001	0.003	0.008	0.017	0.029	0.046	0.070	0.119	0.684	
		0.028	0.085	0.224	0.479	0.818	1.279	1.932	3.356	19.391	
T2MM-D2-600	0	0.001	0.003	0.006	0.012	0.021	0.034	0.058	0.105	0.622	
		0.027	0.084	0.168	0.338	0.592	0.945	1.601	2.961	17.634	
T2MM-D2-800	0	0.001	0.002	0.005	0.009	0.015	0.024	0.038	0.070	0.488	
		0.028	0.057	0.140	0.254	0.423	0.667	1.049	1.974	13.835	

T2MM-D1-100

Dimension

Metric(mm) U.S. Imperial(inches)



- ① Compressed air : G ½" (15A)
- ② Vacuum : G 1½" (40A)
- ③ Exhaust : G 1½" (40A)
- ④ Vacuum Gauge port : G ⅛"

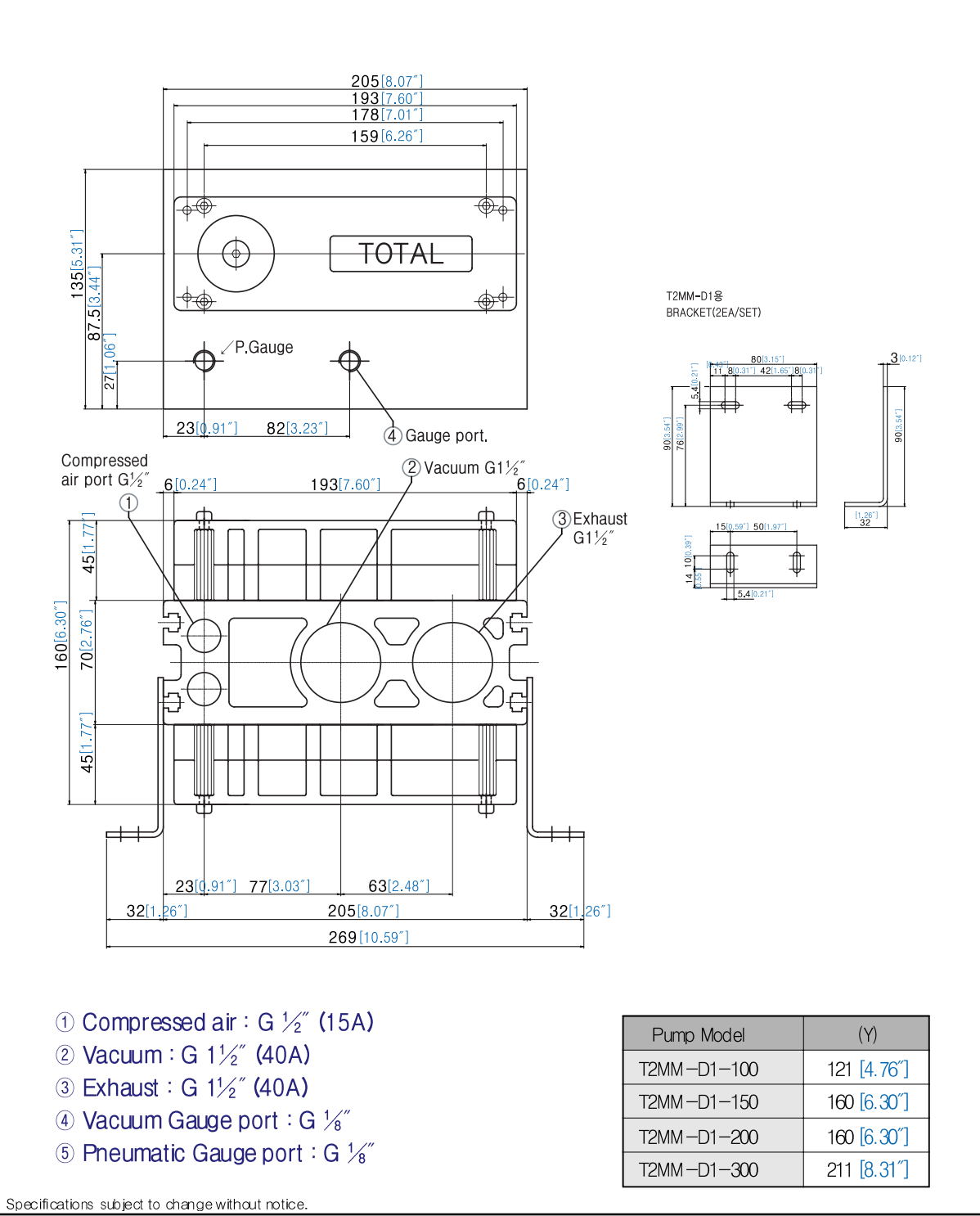
T2MM-D1용 BRACKET(2EA/SET)	
Pump Model	(Y)
T2MM-D1-100	121 [4.76"]
T2MM-D1-150	160 [6.30"]
T2MM-D1-200	160 [6.30"]
T2MM-D1-300	211 [8.31"]

Specifications subject to change without notice.

T2MM-D1-200

Dimension

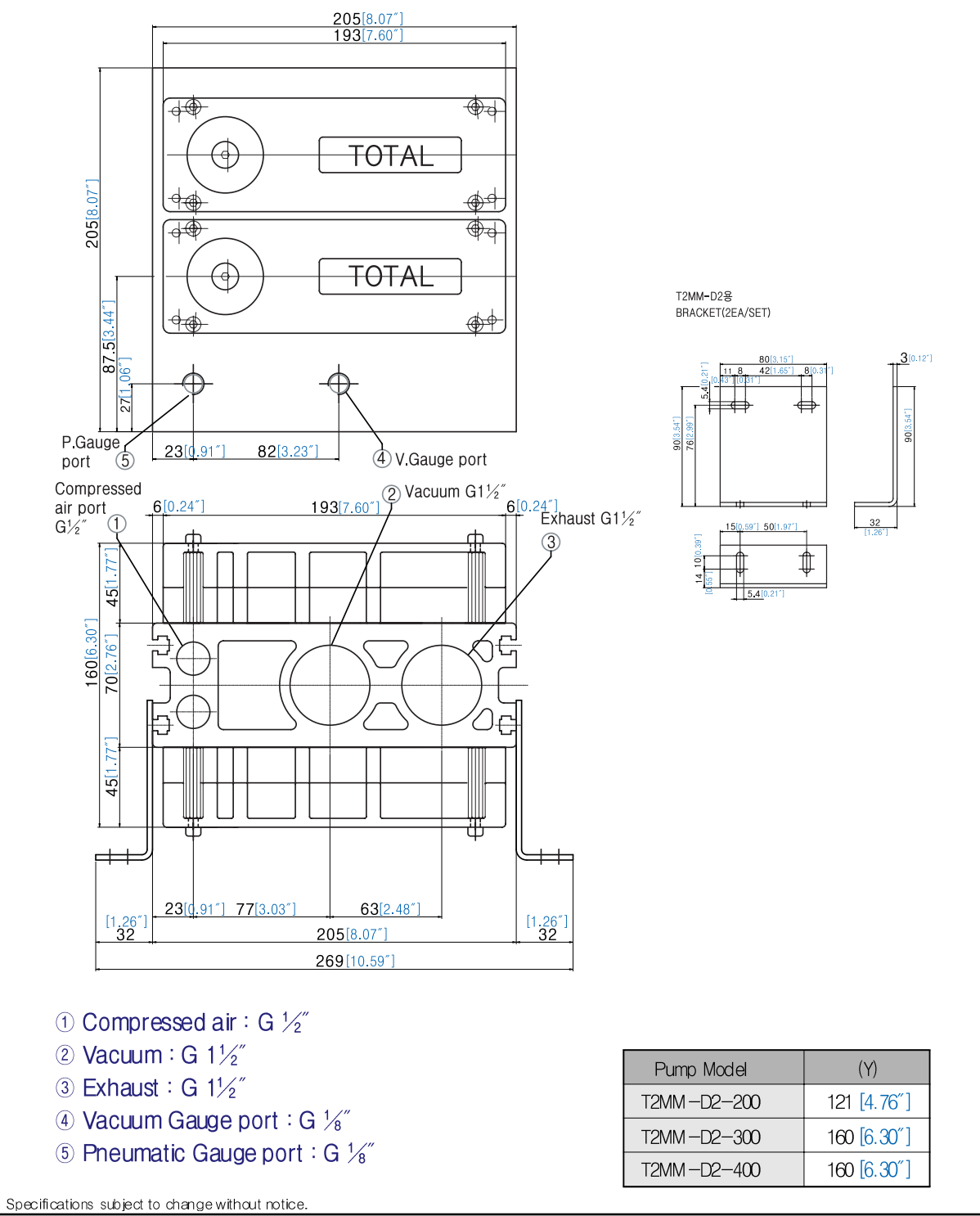
Metric(mm) U.S. Imperial(inches)



T2MM-D2-400

Dimension

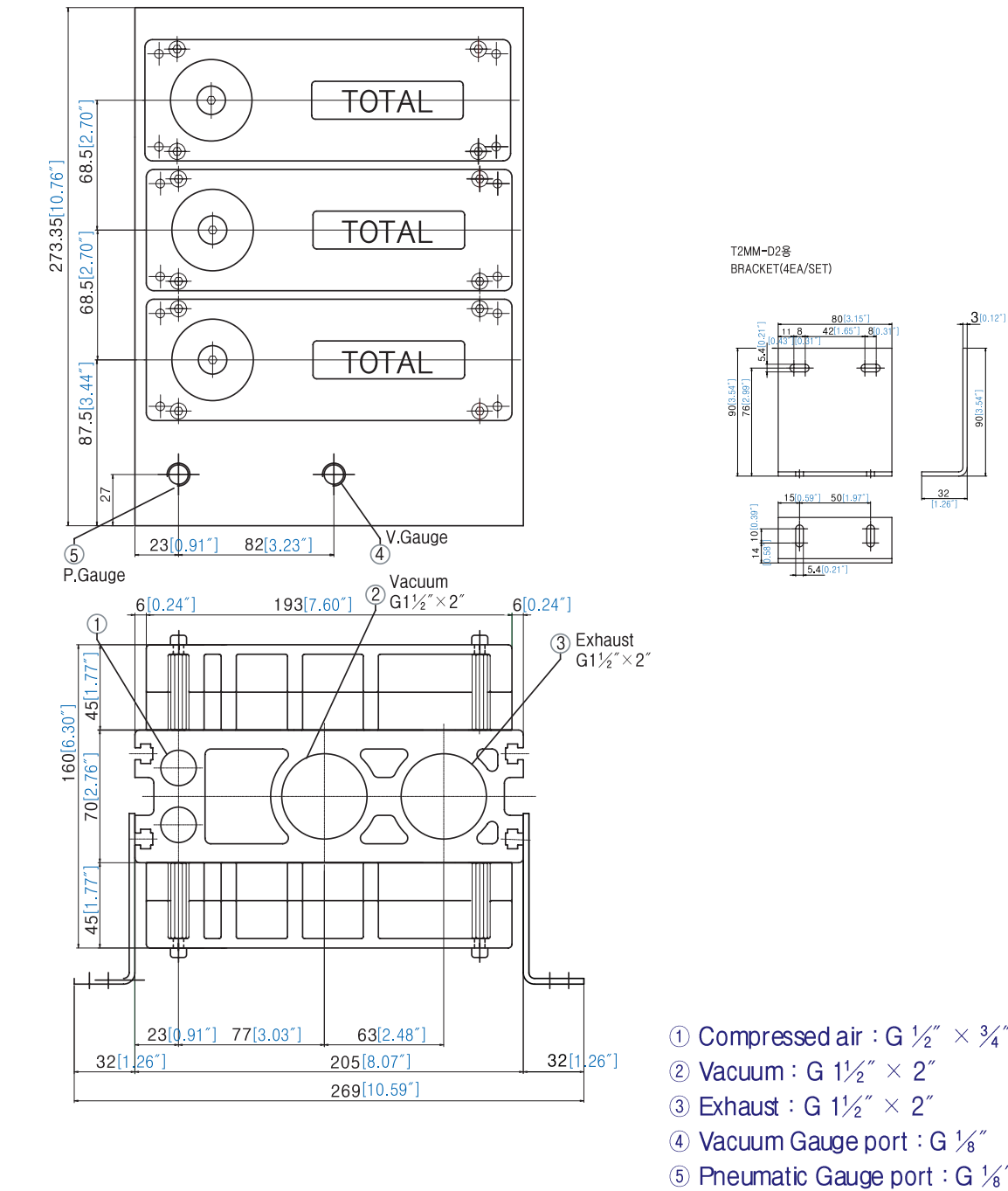
Metric(mm) U.S. Imperial(inches)



T2MM-D2-600

Dimension

Metric(mm) U.S. Imperial(inches)

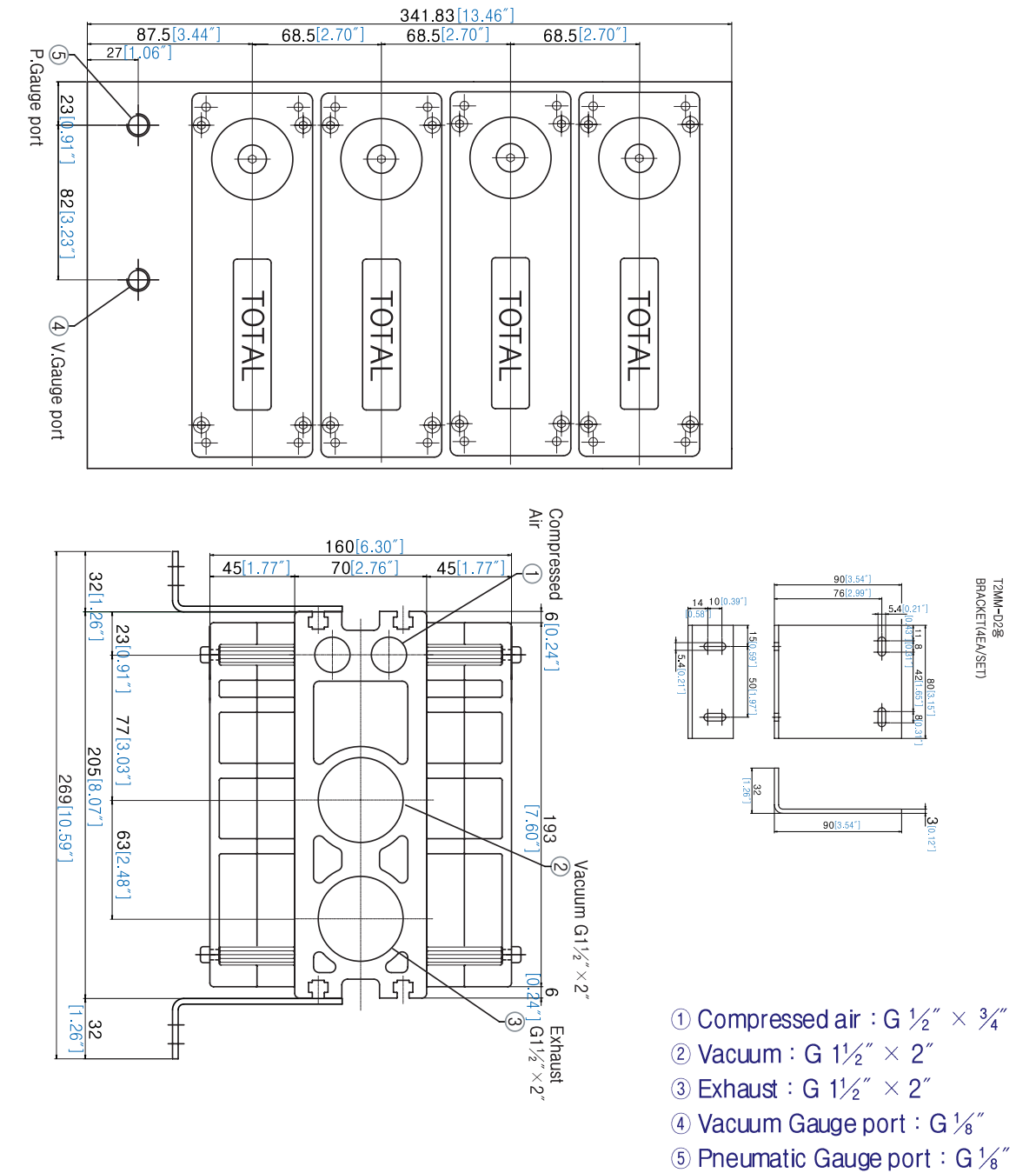


Specifications subject to change without notice.

T2MM-D2-800

Dimension

Metric(mm) U.S. Imperial(inches)



Specifications subject to change without notice.

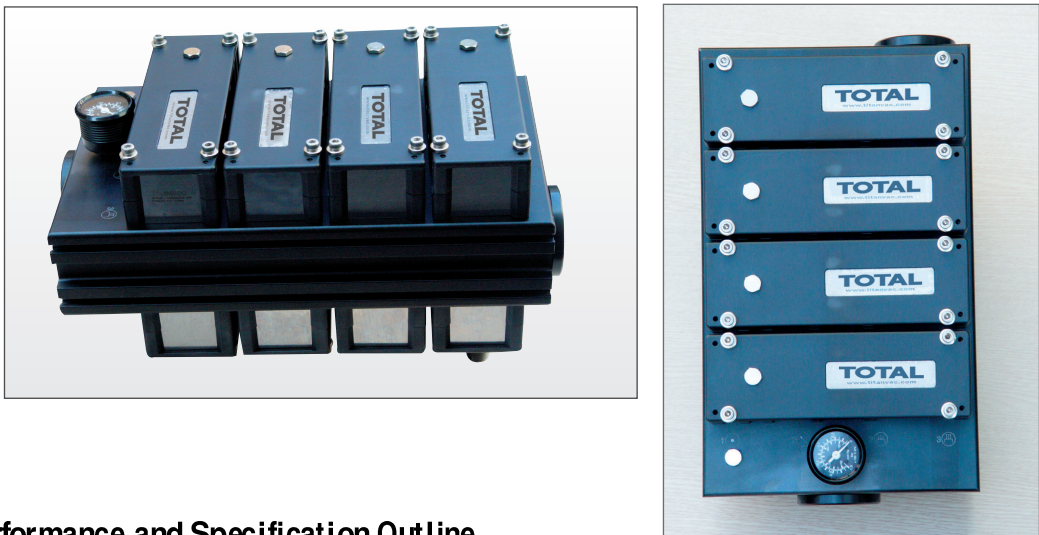
14) T2MX-D1/D2 (U): Extra Vacuum Unification Type

Air-driven vacuum pump with MX type of multi-stage nozzle, put together on the large of integrated aluminum connection plate to realize various vacuum flows from the medium size of pumps to the large size of vacuum pumps.

For using MX type's nozzle, this new product can reach up to -96 kPa of vacuum level and can replace the oil lubricated rotary vane vacuum pump.

To increase vacuum flow, it has expanded vacuum port and exhaust port's size. To save air consumption, this product can be equipped with Energy Saving Kit.

With various vacuum & pressure switches, this enables you to design various vacuum automation system with PLC and RELAY.



Performance and Specification Outline

T2MX Series	T2MX-D1	T2MX-D2
Max. Vacuum Level	Max. 720.18 (mmHgG) Max. -28.35 (inHg) Max. -96 (kPa)	Max. 720.18 (mmHgG) Max. -28.35 (inHg) Max. -96 (kPa)
Max. Vacuum Flow	Max. 1,410 (N ℓ /min) Max. 49.788 (scfm)	Max. 3,530 (N ℓ /min) Max. 124.647 (scfm)
Supply Air Condition	Compressed Air	Compressed Air
Supply Air Pressure	4.12~6.08 (bar) 4.2~6.2 (kg.f/cm ²) 59.74~88.18 (psi)	4.12~6.08 (bar) 4.2~6.2 (kg.f/cm ²) 59.74~88.18 (psi)
Working Temperature	-20℃~+80℃ -4°F~+176°F	-20℃~+80℃ -4°F~+176°F
Noise Level	68~74 dBA	68~74 dBA

Ordering information

①	②	③	④	⑤
T2MX	D1	60	E.S	N
		⋮		
T2MX	D2	600	E.S	N

① Basic Model

T2MX: Extra vacuum (-96 kpa) – medium & large integrated

② Pump Arrangement

- D1: 1(one) column multi array (60, 120, 240)
- D2: 2(two) column multi array (120, 240, 360, 480, 600)

③ Pump's Size: classified by max. vacuum flow

60	Max. 360 (N ℓ /min)	Max. 12.712 (scfm)
120	Max. 714 (N ℓ /min)	Max. 25.212 (scfm)
240	Max. 1,410 (N ℓ /min)	Max. 49.788 (scfm)
360	Max. 2,120 (N ℓ /min)	Max. 74.859 (scfm)
480	Max. 2,820 (N ℓ /min)	Max. 99.576 (scfm)
600	Max. 3,530 (N ℓ /min)	Max. 124.647 (scfm)

④ Energy Saving Kit

- None: Not equipped with Energy Saving Kit
- E.S: To save air consumption, it is combined with vacuum valve , vacuum switch, and pneumatic valve (about 38 % of air consumption's saving effect)

⑤ Material of Check V/V & Seal Kit's

- None: the same with "N"

N	Nitrile	Hexane, petrol, Me Hanel Resistible	For details, pls. refer to Chemical Resistance Data (on page 204)
V	Viton	C ₁ H ₄ , Xylene, C ₆ H ₆ Resistible	
E	EPDM	O ₃ . Ammonia, Ethane Resistible	

T2MX-D1:
Extra Vacuum Unification Type

Characteristics / Medium Vacuum

Pump Model	Max. Vacuum (mmHg · G) (-inHg) (-kPa)	Max. Vacuum Flow (N ℓ /min) (scfm)	Air Consumption (N ℓ /min) (scfm)	Noise Level (dBA)	Net Weight (g) (oz)	Pipe Arrangement (Ø)		
						Compressed Air (inches)	Vacuum (inches)	Exhaust (inches)
T2MX-D1-60	720 28.35 96	360 12.712	246 8.686	65	2,800 98.756	G 1/2"	G 1 1/2"	G 1 1/2"
T2MX-D1-120		714 25.212	489 17.267	65	3,300 116.391	G 1/2"	G 1 1/2"	G 1 1/2"
T2MX-D1-240		1,410 49.788	965 34.075	68	4,200 148.134	G 1/2"	G 1 1/2"	G 1 1/2"

T2MX-D2:
Extra Vacuum Unification Type

Characteristics / Extra Vacuum

Pump Model	Max. Vacuum (mmHg · G) (-inHg) (-kPa)	Max. Vacuum Flow (N ℓ /min) (scfm)	Air Consumption (N ℓ /min) (scfm)	Noise Level (dBA)	Net Weight (g) (oz)	Pipe Arrangement (Ø)		
						Compressed Air (inches)	Vacuum (inches)	Exhaust (inches)
T2MX-D2-120	720 28.35 96	714 25.212	489 17.267	65	3,100 109.337	G 1/2"	G 1 1/2"	G 1 1/2"
T2MX-D2-240		1,410 49.788	965 34.075	68	4,200 148.134	G 1/2"	G 1 1/2"	G 1 1/2"
T2MX-D2-360		2,120 74.859	1,452 51.271	72	5,300 186.931	G 1/2"	G 1 1/2"	G 1 1/2"
T2MX-D2-480		2,820 99.576	1,905 67.267	72	6,400 225.728	G 1/2" x G3/4"	G 1/2" x G2"	G 1 1/2" x G2"
T2MX-D2-600		3,530 124.647	2,385 84.216	74	8,600 303.322	G 1/2" x G3/4"	G 1/2" x G2"	G 1 1/2" x G2"

Vacuum flow in (N ℓ /min) (scfm) at different vacuum levels (mmHg · G) (-inHg) (-kPa)

Vacuum Level Pump Model	Vacuum Flow (N ℓ /min) (scfm)										
	0 0 0	75 2.95 10	150 5.91 20	225 8.86 30	300 11.81 40	375 14.76 50	450 17.72 60	525 20.67 70	600 23.62 80	675 26.57 90	713 28.06 95
T2MK-D1-60	360 12.712	252 8.898	212 7.486	192 6.780	149 5.261	114 4.025	79 2.790	22 0.777	9.3 0.328	7.7 0.272	4.8 0.169
T2MK-D1-120	714 25.212	507 17.903	410 14.477	347 12.253	224 7.910	184 6.497	124 4.379	34 1.201	14.2 0.501	11.6 0.410	7.2 0.254
T2MK-D1-240	1,410 49.788	1,029 36.336	789 27.860	684 24.153	488 17.232	252 8.898	161 5.685	49 1.730	22.9 0.809	16.8 0.593	10.8 0.381

Vacuum flow in (N ℓ /min) (scfm) at different vacuum levels (mmHg · G) (-inHg) (-kPa)

Pump Model	Vacuum Level	Vacuum Flow (N ℓ /min) (scfm)											
		0 0 0	75 2.95 10	150 5.91 20	225 8.86 30	300 11.81 40	375 14.76 50	450 17.72 60	525 20.67 70	600 23.62 80	675 26.57 90	713 28.06 95	750 29.53 100
T2MX-D2-120		714 25.212	507 17.903	410 14.477	347 12.253	224 7.910	184 6.497	124 4.379	34 1.201	14.2 0.501	11.6 0.410	7.2 0.254	—
T2MX-D2-240		1,410 49.788	1,029 36.336	789 27.860	684 24.153	488 17.232	252 8.898	161 5.685	49 1.730	22.9 0.809	16.8 0.593	10.8 0.381	—
T2MX-D2-360		2,120 74.859	1,778 62.782	1,210 42.726	742 26.201	614 21.681	448 15.819	276 9.746	72 2.542	36.4 1.285	27 0.953	18.4 0.650	—
T2MX-D2-480		2,820 99.576	2,224 78.531	1,720 60.734	1,045 36.900	905 31.956	829 29.273	515 18.185	134 4.732	69 2.436	49.2 1.737	34.3 1.211	—
T2MX-D2-600		3,530 124.647	2,824 99.718	2,040 72.034	1,227 43.326	1,130 39.901	1,094 38.630	732 25.847	199 7.027	99.8 3.524	72.5 2.560	48.8 1.723	—

T2MX-D1

Time to evacuate a volume (sec/ℓ) (sec/cf) at different vacuum levels (mmHg · G) (-inHg) (-kPa)

Pump Model \ Vacuum Level	Evacuation Time (sec/ ℓ) (sec/cf)										
	0 0	75 2.95 10	150 5.91 20	225 8.86 30	300 11.81 40	375 14.76 50	450 17.72 60	525 20.67 70	600 23.62 80	675 26.57 90	720 28.35 96
T2MK-D1-60	0	0.027 0.764	0.040 1.138	0.081 2.268	0.192 5.414	0.143 4.033	0.225 6.255	0.308 8.501	0.422 11.900	0.770 21.830	0.930 26.040
T2MK-D1-120	0	0.009 0.028	0.017 0.484	0.034 0.952	0.109 3.074	0.109 3.074	0.188 5.226	0.268 7.397	0.368 10.378	0.664 18.824	0.840 23.520
T2MK-D1-240	0	0.006 0.170	0.012 0.341	0.012 0.336	0.039 1.100	0.039 1.100	0.117 3.253	0.172 4.747	0.215 6.063	0.398 11.283	0.580 16.240

T2MX-D2

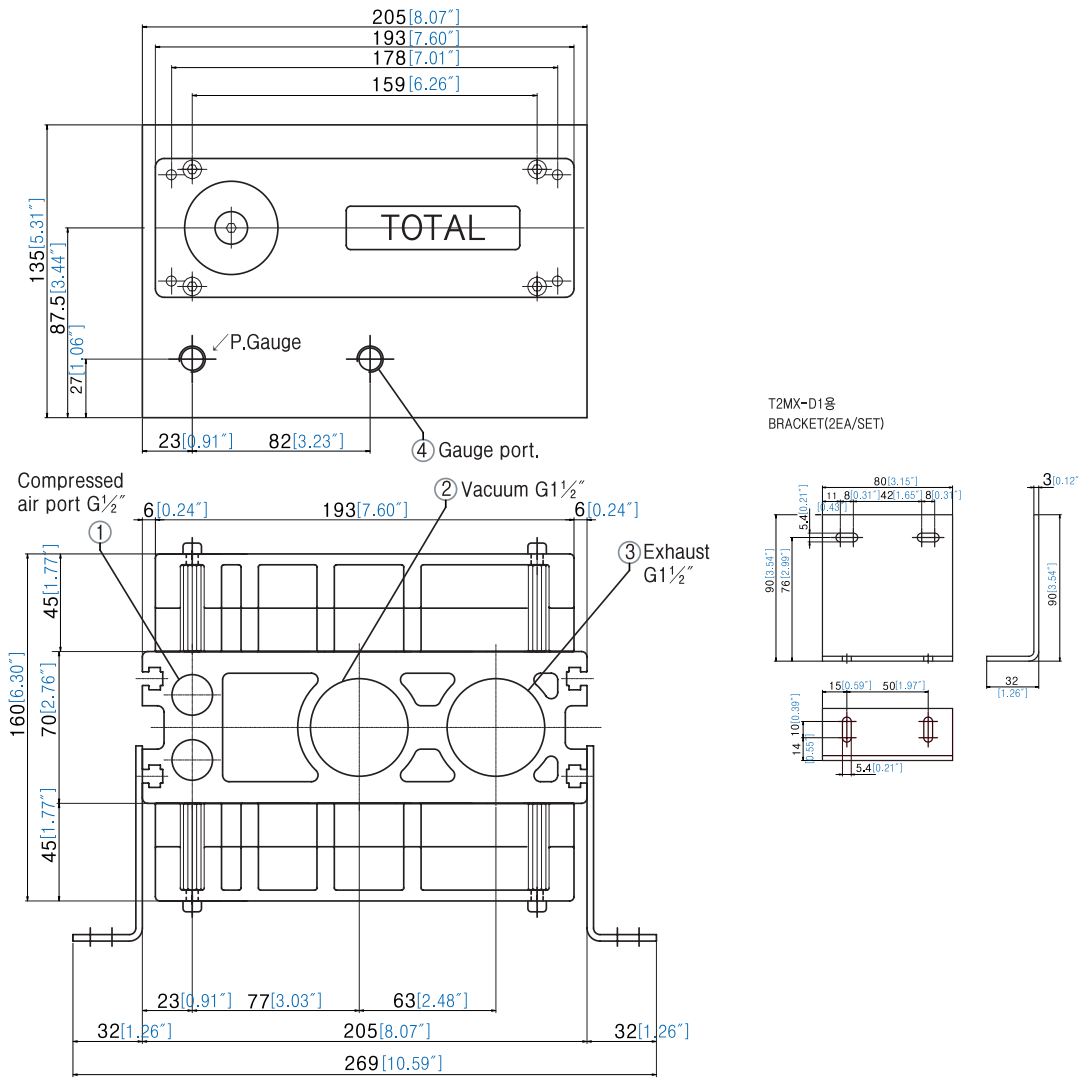
Time to evacuate a volume (sec/ℓ) (sec/cf) at different vacuum levels (mmHg · G) (-inHg) (-kPa)

Vacuum Level Pump Model		Evacuation Time (sec/ ℓ) (sec/cf)										
		0	75	150	225	300	375	450	525	600	675	720
		0	2.95	5.91	8.86	11.81	14.76	17.72	20.67	23.62	26.57	28.35
		0	10	20	30	40	50	60	70	80	90	96
T2MK-D2-120	0	0.009 0.255	0.018 0.512	0.037 1.036	0.064 1.805	0.118 3.328	0.192 5.338	0.285 7.866	0.389 10.970	0.685 19.420	0.920 25.760	
T2MK-D2-240	0	0.007 0.198	0.013 0.370	0.026 0.728	0.048 1.354	0.081 2.284	0.124 3.447	0.190 5.244	0.261 7.360	0.452 12.814	0.642 17.976	
T2MK-D2-360	0	0.005 0.142	0.009 0.256	0.016 0.448	0.029 0.818	0.064 1.805	0.088 2.446	0.153 4.223	0.194 5.471	0.324 9.185	0.522 14.616	
T2MK-D2-480	0	0.003 0.085	0.007 0.199	0.010 0.280	0.018 0.508	0.055 1.551	0.079 2.196	0.132 3.643	0.168 4.738	0.268 7.598	0.417 11.676	
T2MK-D2-600	0	0.003 0.085	0.004 0.114	0.008 0.224	0.014 0.395	0.045 1.269	0.062 1.724	0.115 3.174	0.149 4.202	0.209 5.925	0.325 9.100	

T2MX-D1-120

Dimension

Metric (mm) U.S. Imperial (inches)



- ① Compressed air : G 1/2" (15A)
- ② Vacuum : G 1 1/2" (40A)
- ③ Exhaust : G 1 1/2" (40A)
- ④ Vacuum Gauge port : G 1/8"
- ⑤ Pneumatic Gauge port : G 1/8"

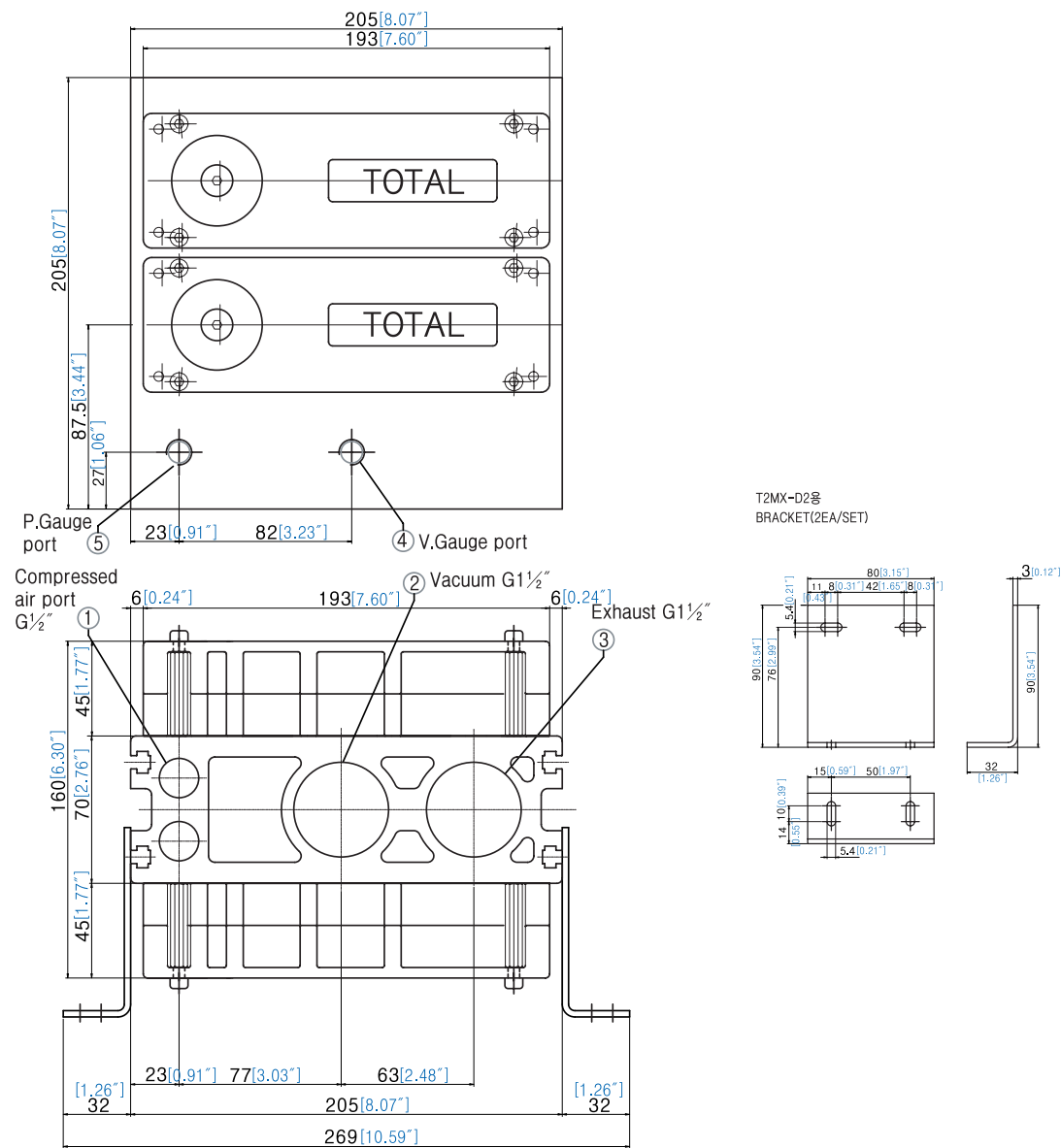
Pump Model	(Y)
T2MX-D2-60	121 [4.76"]
T2MX-D2-120	160 [6.30"]
T2MX-D2-240	250 [9.84"]

Specifications subject to change without notice.

T2MX-D2-240

Dimension

Metric(mm) U.S. Imperial(inches)



- ① Compressed air : G 1/2"
- ② Vacuum : G 1 1/2"
- ③ Exhaust : G 1 1/2"
- ④ Vacuum Gauge port : G 1/8"
- ⑤ Pneumatic Gauge port : G 1/8"

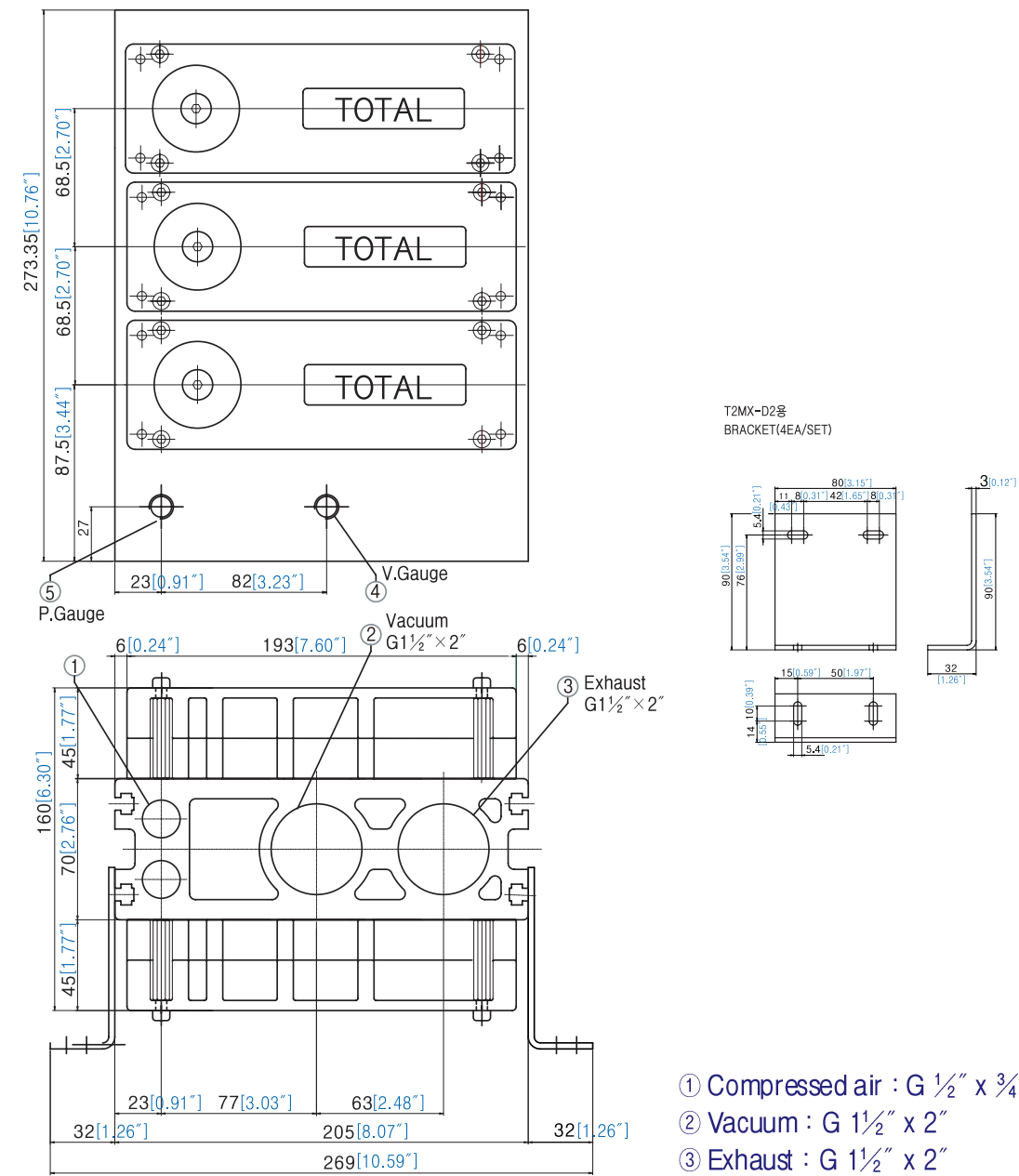
Specifications subject to change without notice.

Pump Model	(Y)
T2MX-D2-120	121 [4.76"]
T2MX-D2-240	160 [6.30"]
T2MX-D2-360	223 [8.78"]
T2MX-D2-480	250 [9.84"]

T2MX-D2-600

Dimension

Metric(mm) U.S. Imperial(inches)



- ① Compressed air : G 1/2" x 3/4"
- ② Vacuum : G 1 1/2" x 2"
- ③ Exhaust : G 1 1/2" x 2"
- ④ Vacuum Gauge port : G 1/8"
- ⑤ Pneumatic Gauge port : G 1/8"

Specifications subject to change without notice.