

Item	Unit	MDVR55S8000			MDVR85S8000			MDVR110S8000				MDVR165S8000													
		Standard			Low Capacity (OP.)			Standard		Low Capacity (OP.)		Standard		High Capacity (OP.)		Low Capacity (OP.)		Standard		High Capacity (OP.)					
Injection Unit	Injection Capacity ※ 1	T.m	i 1.3			i 1.3 (OP.)			i 2.0		i 2.0 (OP.)		i 2.9		i 3.4 (OP.)		i 2.9 (OP.)		i 3.4		i 5.7 (OP.)				
		Type	Y (OP.)			A			B		A		B		A		B		A		B		Y		
	Screw Complete	Diameter	mm	18	25	30	18	25	30	30	35	30	35	35	40	35	40	35	40	35	40	40	45	52	
			in	0.71	0.98	1.18	0.71	0.98	1.18	1.18	1.38	1.18	1.38	1.38	1.57	1.38	1.57	1.38	1.57	1.38	1.57	1.57	1.77	2.05	
	Screw Stroke		mm	85	95		85	95		105		105		120		140	160	120	140	160	180				
			in	3.35	3.74		3.35	3.74		4.13		4.13		4.72		5.51	6.30	4.72	5.51	6.30	7.09				
	Calculated Injection Volume ※ 2		cm <sup>3</sup>	22	47	67	22	47	67	74	101	74	101	115	151	135	201	115	151	135	201	226	286	382	
			cu-in	1.34	2.87	4.09	1.34	2.87	4.09	4.52	6.16	4.52	6.16	7.02	9.21	8.24	12.27	7.02	9.21	8.24	12.27	13.79	17.45	23.23	
	Calculated Injection Capacity ※ 3		g	20	43	62	20	43	62	68	93	68	93	106	139	124	185	106	139	124	185	208	263	352	
			oz	0.71	1.52	2.19	0.71	1.52	2.19	2.40	3.28	2.40	3.28	3.74	4.90	4.37	6.53	3.74	4.90	4.37	6.53	7.34	10.09	12.42	
	Max. Injection Pressure ※ 4		Mpa	280	280	200	280	280	200	270	200	270	200	250	190	250	190	250	190	250	190	250	200	140	
			psi	40610	40610	29010	40610	40610	29010	39160	29010	39160	29010	36260	27560	36260	27560	36260	27560	36260	27560	36260	29010	20310	
	Max. Hold Pressure ※ 4		Mpa	280	260	180	280	260	180	245	180	245	180	225	170	225	170	225	170	225	170	225	180	125	
			psi	40610	37710	26110	40610	37710	26110	35530	26110	35530	26110	32630	24660	32630	24660	32630	24660	32630	24660	32630	26110	18130	
	Max. Injection Speed ※ 5		mm/s	300			300			250		250		260		260		260		260		150			
			in/s	11.81			11.81			9.84		9.84		10.24		10.24		10.24		10.24		5.91			
	Injection Rate		cm <sup>3</sup> /s	76	147	212	76	147	212	177	241	177	241	250	327	250	327	250	327	250	327	250	327	319	
			cu-in/s	4.64	8.97	12.94	4.64	8.97	12.94	10.86	14.71	10.86	14.71	15.26	19.95	15.26	19.95	15.26	19.95	15.26	19.95	15.26	19.95	11.47	19.47
	Screw Rotation Speed		min <sup>-1</sup>	360			360			360		360		360		360		360		360		300			
	Plasticizing Capacity (PS) ※ 6		kg/h	9	27	43	9	27	43	43	60	43	60	60	88	60	88	60	88	60	88	60	88	171	
oz/s			0.09	0.26	0.42	0.09	0.26	0.42	0.42	0.59	0.42	0.59	0.59	0.86	0.59	0.86	0.59	0.86	0.59	0.86	0.59	0.86	1.68		
Heater Capacity		kW	3			3			8.05		8.05		10.43		10.43		10.43		10.43		11.02				
Injection Unit	Injection Capacity ※ 1	T.m	i 0.8 (OP.)			i 0.8 (OP.)			i 1.0H (OP.)		i 1.0H (OP.)		i 1.7H (OP.)		-		i 1.7H (OP.)		-		-				
		Type	Y			YA			A		Y		YA		Y		YA		Y		YA				
	Screw Complete	Diameter	mm	18	22	25	18	22	25	25	28	25	28	30	32			30	32						
			in	0.71	0.87	0.98	0.71	0.87	0.98	0.98	1.10	0.98	1.10	1.18	1.26			1.18	1.26						
	Screw Stroke		mm	85	95		85	95		105		105		120				120							
			in	3.35	3.74		3.35	3.74		4.13		4.13		4.72				4.72							
	Calculated Injection Volume ※ 2		cm <sup>3</sup>	22	36	47	22	36	47	52	65	52	65	85	97			85	97						
			cu-in	1.34	2.20	2.87	1.34	2.20	2.87	3.17	3.97	3.17	3.97	5.19	5.92			5.19	5.92						
	Calculated Injection Capacity ※ 3		g	20	33	43	20	33	43	47	59	47	59	78	89			78	89						
			oz	0.71	1.16	1.52	0.71	1.16	1.52	1.66	2.29	1.66	2.29	2.75	3.14			2.75	3.14						
	Max. Injection Pressure ※ 4		Mpa	280	230	180	280	230	180	200	160	200	160	200	175			200	175						
			psi	40610	33360	26110	40610	33360	26110	29010	23210	29010	23210	29010	25380			29010	25380						
	Max. Hold Pressure ※ 4		Mpa	280	210	160	280	210	160	180	140	180	140	180	155			180	155						
			psi	40610	30460	23210	40610	30460	23210	26110	20310	26110	20310	26110	22480			26110	22480						
	Max. Injection Speed ※ 5		mm/s	500			500			450		450		400				400							
			in/s	19.69			19.69			17.72		17.72		15.75				15.75							
	Injection Rate		cm <sup>3</sup> /s	127	190	245	127	190	245	221	277	221	277	283	322			283	322						
			cu-in/s	7.75	11.59	14.95	7.75	11.59	14.95	13.49	16.90	13.49	16.90	17.27	19.65			17.27	19.65						
	Screw Rotation Speed		min <sup>-1</sup>	360			360			360		360		360				360							
	Plasticizing Capacity (PS) ※ 6		kg/h	9	18	27	9	18	27	27	36	27	36	43	51			43	51						
oz/s			0.09	0.18	0.26	0.09	0.18	0.26	0.26	0.35	0.26	0.35	0.42	0.50			0.42	0.50							
Heater Capacity		kW	3			3			8.05		8.05		10.43				10.43								
Nozzle Stroke		mm (in)	195 [Max. 310] (15 [Max. 12.20])			205 [Max. 335] (8.07 [Max. 13.19])			240 [Max. 375] (9.45 [Max. 14.76])				285 [Max. 375] (11.22 [Max. 14.76])				386 [Max. 500] (15.20 [Max. 19.69])								
Nozzle Touch Force		kN (Us ton)	15 (1.69)			15 (1.69)			15 (1.69)				15 (1.69)				25 (2.81)								
Temperature Zones	Nozzle and Barrel		1G+2+1G			1G+2+1G			1G+2+1G				1G+2+1G												
	Hopper Base		1			1			1				1												
Clamping Unit	Clamping System		Double toggle			Double toggle			Double toggle				Double toggle												
	Clamping Force		500 (55)			750 (85)			1000 (110)				1500 (165)												
	Platen size (H x V) ※ 7	mm (in)	365 x 365 (14.37 x 14.37)			420 x 420 (16.54 x 16.54)			500 x 500 (19.69 x 19.69)				560 x 560 (22.05 x 22.05)												
	Mass of Max. Mountable Mold. ※ 8	kg (oz)	Upper Mold: 100 (3527) Lower Mold: 200 (7055) x 2 Molds			Upper Mold: 150 (5291) Lower Mold: 300 (10582) x 2 Molds			Upper Mold: 200 (7055) Lower Mold: 450 (15873) x 2 Molds				Upper Mold: 350 (12346)												
	Mold Opening Stroke	mm (in)	200 (7.87)			250 (9.84)			280 (11.02)				Lower Mold: 500 (17637) x 2 Molds												
	Mold Height (Min/Max)	mm (in)	150/300 (5.91/11.81)			220/320 (8.66/12.60)			250/350 (9.84/13.78)				300 (11.81)												
	Open Daylight	mm (in)	500 (19.69)			570 (22.44)			630 (24.80)				300/400 (11.81/15.75)												
	Table Diameter	mm (in)	1060 (41.73)			1206 (47.48)			1423 (56.02)				700 (27.56)												
	Ejector Stroke	mm (in)	60 (2.36)			60 (2.36)			75 (2.95)				1658 (65.28)												
Ejector Force	kN (Us ton)	22 (2.47)			22 (2.47)			22 (2.47)				100 (3.94)													
Utility	Machine Mass	ton (Us ton)	4.1 (4.5)			5.4 (6.0)			7.3 (8.0)				7.4 (8.1)				11.1 (12.2)								
	Total Machine Power ※ 9	kVA	14			17			22				29				29								
	Power Source (Voltage x Frequency) ※ 10		AC200V x 50Hz / AC200V x 60Hz / AC200V x 50Hz																						
	Cable Size ※ 11	mm <sup>2</sup> (A.W.G.)	8 (8)			8 (8)			14 (6)				14 (6)				22 (4)				22 (4)				
	Cooling Water Consumption (Max.) ※ 12	L/min (gal/min)	5 (1.32gal/min) (0.2~0.5MPa)			5 (1.32gal/min) (0.2~0.5MPa)			5 (1.32gal/min) (0.2~0.5MPa)				5 (1.32gal/min) (0.2~0.5MPa)				5 (1.32gal/min) (0.2~0.5MPa)								
Compressed Air Consumption ※ 13	NL/min	200 (0.35MPa)			200 (0.35MPa)			200 (0.35MPa)				200 (0.35MPa)				200 (0.35MPa)									

Note : Specifications are subject to change without notice. Items with (OP.) are optional.

※ 1 Injection capacity is calculated by (Max injection pressure) x (Calculated injection volume).

※ 2 Calculated injection volume is calculated by (Screw cross section) x (Screw stroke).

※ 3 Calculated injection capacity is 92% of polystyrene calculated injection volume.

※ 4 Max. injection pressure and max. hold pressure may be limited by cycle time.

※ 5 Max. injection speed may not reach this value depending on load.

※ 6 Plasticizing capacity is for polystyrene.

※ 7 The size is for squared mold.

※ 8 Consult with us if your mold weight exceeds this value.

※ 9 The total machine power does not include other auxiliary equipment.

※ 10 Voltage should be kept as rated voltage. Voltage change should occur only temporarily and fluctuation range is within + or - 10% of rated voltage.

※ 11 The cable size is for single core. Current reduction coefficient should be used for multi-core cable.

※ 12 The water is used to cool under hopper. Water pressure shall be 0.5 MPa (72.5 psi) or less.

※ 13 Air consumption may differ depending on the cycle.