



vcsp650_1050

Machine designation

VC 650/130,150
VC 650/140,165 US
VC 650/130,150 PRO

VC 650/180,200,220
VC 650/200,220,240 US
VC 650/180,200,220 PRO

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Weight	to	9.6	11.6
	US tons	10.8	12.79
Length	mm	5515	6230
	inches	217.13	245.28
Height	mm	2189	2204
	inches	86.18	86.77
Oil reservoir capacity	l	450	610
	gal	118.9	161.2
Pump capacity	kW	22 / 22 / 22	30 / 30 / 30
Tech / Power / HV3	hp	29.5 / 29.5 / 29.5	40.24 / 40.24 / 40.24
Filter motor	kW	1.5 / 1.5 / 1.5	1.5 / 1.5 / 1.5
Tech / Power / HV3	hp	2.0 / 2.0 / 2.0	2.0 / 2.0 / 2.0
Total power	kW	38 / 38 / 38	46 / 46 / 46
Tech / Power / HV3	hp	51.0 / 51.0 / 51.0	61.70 / 61.70 / 61.70
Connected current	A	69 / 69 / 69	84 / 84 / 84
Tech / Power / HV3			

Size designation ^a	650/...						
		Tech / Power			HV3		
Screw diameter	mm	40	45	50	40	45	50
	inches	1.57	1.77	1.97	1.57	1.77	1.97
Screw stroke	mm	200			200		
	inches	7.87			7.87		
Injection capacity	cm ³	251	318	392	251	318	392
	in ³	15.31	19.40	23.90	15.31	19.40	23.90
Screw speed	min-1	290			315		
	rpm	290			315		
Screw length	L/D	20			20		
		20			20		
Plasticizing capacity ^b	g/sec	23	30	41	25	33	45
	oz/sec	0.81	1.06	1.44	0.88	1.16	1.55
Screw length barrier	L/D	24			24		
		24			24		
Plasticizing capacity barrier screw ^c	g/sec	32	43	55	35	47	60
	oz/sec	1.13	1.51	1.93	1.23	1.66	2.12
Injection rate ^d	cm ³ /sec	141	179	221	180	228	281
	in ³ /sec	8.60	10.92	13.48	10.98	13.91	17.15
Injection rate (at max. pressure) ^d	cm ³ /sec	106	134	165	135	171	211
	in ³ /sec	6.47	8.18	10.07	8.24	10.44	12.88
Injection pressure (regenerative)	bar	1930	1530	1240	1930	1530	1240
	psi	27985	22185	17980	27985	22185	17980
Injection pressure (max.)	bar	2400	2040	1650	2400	2040	1650
	psi	34808	29587	23930	34808	29587	23930
Noz.str.	mm	350			350		
	inches	13.78			13.78		
Nozzle immersion depth Europe standard	mm	30			30		
		30			30		
Nozzle immersion depth North America standard	inches	1.38			1.38		
		1.38			1.38		
Nozzle immersion depth Asia standard	mm	30			30		
		30			30		
Nozzle contact force	kN	67			67		
	US tons	7.50			7.50		
Heating wattage	kW	12.3	13.3	15.3	12.3	13.3	15.3
	hp	16.50	17.84	20.52	16.50	17.84	20.52
Number of the heating zones incl. nozzle		5			5		
		5			5		
Hopper capacity	l	80			80		
	lbs	88.2			88.2		

a. Injection capacity [cm³] x Injection pressure max. [bar] / 1000

b. Values for polystyrene (MVR 200/5=10 cm³ /10 min according to ENGEL works standard ETR 10100)

c. Values for HDPE (MVR 190/2.16=5 cm³ /10 min according to ENGEL works standard ETR 10100)

d. Dependent on pump drive power